### K. C. E. Society's

# Moolji Jaitha College

An 'Autonomous College' Affiliated to K.B.C. North Maharashtra University, Jalgaon.

NAAC Reaccredited Grade - A (CGPA: 3.15 - 3<sup>rd</sup> Cycle) UGC honoured "College of Excellence" (2014-2019) DST(FIST) Assisted College



के. सी. ई. सोसायटीचे मूळजी जेठा महाविद्यालय

क.ब.चौ. उत्तर महाराष्ट्र विद्यापीठ, जळगाव संलग्नित 'स्वायत्त महाविद्यालय'

नॅकद्वारा पुनर्मानांकित श्रेणी -'ए'(सी.जी.पी.ए. : ३.१५ - तिसरी फेरी) विद्यापीठ अनुदान आयोगाद्वारा घोषित 'कॉलेज ऑफ एक्सलन्स' (२०१४-२०१९) डी.एस.टी. (फीस्ट) अंतर्गत अर्थसहाय्य प्राप्त

Date :- 01/08/2023

### **NOTIFICATION**

Sub :- CBCS Syllabi of BCA (Sem. I & II)

Ref.:- Decision of the Academic Council at its meeting held on 26/07/2023.

The Syllabi of BCA (First and Second Semesters) as per **NATIONAL EDUCATION POLICY - 2020** and approved by the Academic Council as referred above are hereby notified for implementation with effect from the academic year 2023-24.

Copy of the Syllabi Shall be downloaded from the College Website (www.kcesmjcollege.in)

Sd/-Chairman, Board of Studies

### To:

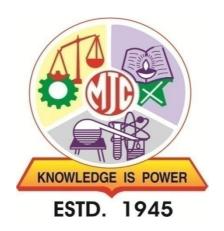
- 1) The Head of the Dept., M. J. College, Jalgaon.
- 2) The office of the COE, M. J. College, Jalgaon.
- 3) The office of the Registrar, M. J. College, Jalgaon.

Khandesh College Education Society's

# Moolji Jaitha College, Jalgaon

An "Autonomous College"

Affiliated to
Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon-425001



### STRUCTURE AND SYLLABUS

# B.C.A. Honours / Honours with Research (Computer Application)

Under Choice Based Credit System (CBCS) and as per NEP-2020 Guidelines

[w.e.f. Academic Year: 2023-24]

### **Preface**

There are various innovative technologies that have come up in the IT world which are transforming the business landscape at a rapid pace. The challenges of the IT sector today are a lot different from those that existed a few years ago. The changing technological environment has made it necessary for students who aspire to a career in IT to be well aware of the latest innovations. The BCA program is specially designed to cater to the present industry skills and knowledge needs. It comprises of theoretical and practical training sessions that can prepare students for the well-rewarding jobs of the future.

### Programme Outcomes (PO) for B.C.A. honours/ Honours with Research

Upon successful completion of this Programme, student will be able to:

PO No.	PO
1	Discipline knowledge: Acquiring knowledge on basics of Computer Science and ability to apply to design principles in the development of solutions for problems of varying complexity
2	Problem Solving: Improved reasoning with strong mathematical ability to Identify, formulate and analyze problems related to computer science and exhibiting a sound knowledge on data structures and algorithms.
3	Design and Development of Solutions: Ability to design and development of algorithmic solutions to real world problems and acquiring a minimum knowledge on statistics and optimization problems. Establishing excellent skills in applying various design strategies for solving complex problems.
4	Programming a computer: Exhibiting strong skills required to program a computer for various issues and problems of day-to-day applications with thorough knowledge on programming languages of various levels.
5	Application Systems Knowledge: Possessing a sound knowledge on computer application software and ability to design and develop app for applicative problems.
6	Motivation to take up Higher Studies: Inspiration to continue educations towards advanced studies on Computer Science.

### Programme Specific Outcome (PSO) for B.C.A. Honours/Honours with Research:

After completion of this course, students are expected to:

PSO No.	PSO
1	Apply standard Software Engineering practices and strategies in real -time software project development
2	Design and develop computer programs/computer -based systems in the areas related to AI, algorithms, networking, web design, cloud computing, IoT and data analytics.
3	The ability to apply the knowledge and understanding noted above to the analysis of a given information handling problem.
4	The ability to apply the knowledge and understanding noted above to the analysis of a given information handling problem.
5	Acquaint with the contemporary trends in industrial/research settings and thereby innovate novel solutions to existing problems
6	Practicing of existing projects and becoming independent to launch own project by identifying a gap in solutions.

	Creare as	The structure of the st	cture for Tim	cci i oui year ii	OHOLS/ HOHO	15 WILLI KESCALCII	Degree Frogramm		pic Dinity and	1
T ave		Major (Cor	e) Subjects	Minor	GE/	VCC SEC		CC, FP,	Cumulativa	Degree/
Leve 1	Sem	Mandatory (DSC)	Elective (DSE)	Subjects (MIN)	OE	VSC, SEC (VESC)	AEC, VEC, IKS	CEP, OJT/Int, RP	Cumulative Credits/Sem	Cumulative Cr.
	I	DSC-1 (2T) DSC-2 (2T) DSC-3 (2P)	_	MIN-1 (2T) MIN-2 (2P)	OE-1 (2T)	SEC-1 (2T) SEC-2 (1P)	AEC-1 (2T) (ENG) VEC-1 (2T) (ES) IKS (1T)	CC-1 (2)	22	NG.
4.5	II	DSC-4 (2T) DSC-5 (2T) (IKS) DSC-6 (2P)		MIN-3 (2T) MIN-4 (2P)	OE-2 (2T)	SEC-3 (2T) SEC-4 (1P)	AEC-2 (2T) (ENG) VEC-2 (2T) (CI) IKS (1T)	CC-2 (2)	22	UG Certificate 44
	Cum.	12		8	4	6	4+4+2	4	44	-
Exit o	ption: Aw		tificate in Ma	jor with 44 cred	and l	lditional 4 credits Minor.	core NSQF cours	e/ Internship	OR Continue	with Major
	Ш	DSC-7 (2T) DSC-8 (2T) DSC-9 (2P) DSC-10 (2P)		MIN-5 (2T) MIN-6 (2P)	OE-3 (2T) OE-4 (2P)		AEC-3 (2T) (MIL)	CC-3 (2) CEP (2)	22	UG
5.0	IV	DSC-11 (2T) DSC-12 (2T) DSC-13 (2P) DSC-14 (2P)		MIN-7 (2T) MIN-8 (2P)	OE- 5 (2T) OE-6 (2P)		AEC-4 (2T) (MIL)	CC-4 (2) FP (2)	22	Diploma 88
	Cum.	28		16	10	6	8+4+2	8+2+2	88	
	tion: Awaı ınd Minor		ma in Major	and Minor with	88 credits an	nd an additional 4	credits core NSQ	F course/ Inte	ernship OR Co	ntinue with
	V	DSC-15 (2T) DSC-16 (2T) DSC-17 (2T) DSC-18 (2P) DSC-19 (2P)	DSE-1 (2T) A/B DSE-2 (2P) A/B	MIN-9 (2T/P)		VSC-1 (2T) VSC-2 (2P)		OJT/Int(2)	22	UG
5.5	VI	DSC-20 (2T) DSC-21 (2T) DSC-22 (2T) DSC-23 (2P) DSC-24 (2P)	DSE-3 (2T) A/B DSE-4 (2P) A/B	MIN-10(2T/P)	_	VSC-3 (2T) VSC-4 (2P)		OJT/Int(2)	22	Degree 132
	Cum.	48	08	20	10	8+6	8+4+2	8+2+2+4	132	
		Exit o	ption: Award	of UG Degree i	n Major with	132 credits OR	Continue with Ma	jor and Mino	r	
	VII	DSC-25 (4T) DSC-26 (4T) DSC-28 (4T) DSC-27 (2P)	DSE-5 (2T) A/B DSE-6(2P) A/B	RM (2T)	_			OJT/Int (2)	22	UG Honors Degree 176
6.0	VIII	DSC-29 (4T) DSC-30 (4T) DSC-32 (4T) DSC-31 (2P)	DSE-7 (2T) A/B DSE-8(2P) A/B	RM (2T)	_			OJT/Int (2)	22	
	Cum.	76	16	20+4	10	8+6	8+4+2	8+2+2+8	3 176	
			Four	r Year UG Hono	rs Degree in	Major and Mino	r with 176 credits			
	VII	DSC-25 (4T) DSC-26 (4T) DSC-27 (2P)	DSE-5 (2T) A/B DSE-6 (2P) A/B	RM (2T)				RP (6)	22	UG Honors with Research
6.0	VIII	DSC-29 (4T) DSC-30 (4T) DSC-31 (2P)	DSE-7 (2T) A/B DSE-8 (2P) A/B	RM (2T)				RP (6)	22	Degree 176
	Cum.	68	16	20+4	10	8+6	8+4+2	8+2+2+8+12	176	
		•	Four Year U	G Honours with	Research D	egree in Major ai	nd Minor with 176	credits		•

Credit distribution structure for Three/ Four year Honors/ Honors with Research Degree Programme with Multiple Entry and Exit

Sem- Semester, DSC- Department Specific Course, DSE- Department Specific Elective, T- Theory, P- Practical, CC-CocurricularRM- Research Methodology, OJT- On Job Training, FP- Field Project, Int- Internship, RP- Research Project,

### **Multiple Entry and Multiple Exit options:**

The multiple entry and exit options with the award of UG certificate/ UG diploma/ or three-year degree depending upon the number of credits secured;

Levels	Qualification Title	Credit Req	<b>Credit Requirements</b>		Year
		Minimum	Maximum		
4.5	UG Certificate	40	44	2	1
5.0	UG Diploma	80	88	4	2
5.5	Three Year Bachelor's Degree	120	132	6	3
6.0	Bachelor's Degree- Honours	160	176	8	4
	Or				
	Bachelor's Degree- Honours with				
	Research				

### F. Y. B.C.A. Structure and Syllabus

Semester	Course Module	Credit	Hours/ week	TH/ PR	Code	Title
	DSC	2	2	TH	BCA-DSC-111	Basic of Web Design
	DSC	2	2	TH	BCA-DSC-112	Programming in C
	DSC	2	4	PR	BCA-DSC-113	Practicals on Web Design and Programming in C
	Minor	2	2	TH	BCA-MIN-114	E-Commerce
	Minor	2	4	PR	BCA-MIN-115	Practicals on Ecommerce
	SEC	2	2	TH	BCA-SEC-116	Office Automation-I
	SEC	1	2	PR	BCA-SEC-117	Practicals on Office Automation-I
I	OE/GE	2	2	TH	BCA-OE-111	Any one from the basket of OE course given below
	AEC	2	2	TH	BCA-ENGS-AEC- 111	English Communication Skills - I
	VEC	2	2	TH	BCA -ES -VEC-111	Environmental studies
	IKS	1	1	TH	IKS-111	Indian knowledge system
	CC	2	2	CC	BCA-NCC-CC-111 BCA-NSS-CC-111 BCA-SPT-CC-111 BCA-CUL-CC-111	NCC NSS Sports Cultural
	DSC	2	2	TH	BCA-DSC-121	Programming in C++
	DSC	2	2	TH	BCA-DSC-122	Database Management System
	DSC	2	4	PR	BCA-DSC-123	Practicals on C++ and Database Management System
	Minor	2	2	TH	BCA-MIN-124	M-Commerce
	Minor	2	4	PR	BCA-MIN-125	Practicals on M-Commerce
	SEC	2	2	TH	BCA-SEC-126	Office Automation-II
	SEC	1	2	PR	BCA-SEC-127	Practicals on Office Automation-II
II	OE/GE	2	2	TH	BCA-OE-121	Any one from the basket of OE course given below
	AEC	2	2	TH	BCA-ENGS-AEC- 121	English Communication Skills - II
	VEC	2	2	TH	BCA-CI-VEC-121	Constitution of India
	IKS	1	1	TH	BCA-IKS-121	Indian knowledge system
	CC	2	2	CC	BCA-NCC-CC-121 BCA-NSS-CC-121 BCA-SPT-CC-121 BCA-CUL-CC-121	NCC NSS Sports Cultural

**ENG** DSC : English

Department-Specific Core courseDepartment-Specific electiveGeneric/ Open elective Environmental studies **DSE** ES  $\mathbf{CI}$ Constitution of India GE/OE : **SEC** Skill Enhancement Course **IKS** Indian Knowledge System MIN Minor course  $\mathbf{CC}$ Co-curricular course

**AEC** : Ability Enhancement Course TH Theory VEC : Value Education Courses PR : Practical

### **Exam Pattern**

• Each theory and practical course will be of 50 marks comprising of 10 marks internal and 40 marks external examination.

### **External Theory Examination (40 marks)**

- External examination will be of two hours duration for each theory course. There shall be 4 questions each carrying equal marks (10 marks each) while the tentative pattern of question papers shall be as follows:
- Q1 (A), Q2 (A) and Q3 (A), each will be of 6 marks (attempt any 2 out of 3 sub-questions).
- Q1 (B), Q2 (B) and Q3 (B), each will be of 4 marks (attempt any 1 out of 2 sub-questions).
- Q4 will be of 10 marks (attempt any 2 out of 3 sub-questions).

### **External Practical Examination (40 marks):**

• Practical examination shall be conducted by the respective department at the end of the semester. Practical examination will be of minimum 3 hours duration and shall be conducted as per schedule. There shall be 05 marks for journal, 10 marks for *viva-voce*. Certified journal is compulsory to appear for practical examination.

### **Internal Theory/ Practical Examination (10 marks):**

- Internal theory assessment of the student by respective teacher will be comprehensive and continuous, based on written test/ assignment. The written test may comprise of both objective and subjective type questions.
- Internal practical examination should be conducted by respective department as per schedule given. For internal practical examination student should perform at least one major and one minor experiment and should have completed journal.

### **OE/GE Basket**

(Any one from the basket of OE/GE course given below)

Semester	GE Basket-I	GE Basket-II	GE Basket-III	GE Basket-IV
Sem-I	India's Free Struggle	Philosophy of Science-I	English / Hindi /	Development Studies-I
			Marathi Literature-I	
Semi-II	Indian Social Reformers	Philosophy of Science-II	English / Hindi /	Development Studies-II
			Marathi Literature-II	

Semester	OE Basket-I	OE Basket-II	OE Basket-III	OE Basket-IV
Sem-I	Fundaments of	Principles of Accounting-I	E-commerce and	Personal Financial
	Business Management-I		M-commerce-I	Planning-I
Semi-II	Fundaments of	Principles of Accounting-II	E-commerce and	Personal Financial
	Business Management-I		M-commerce-II	Planning-II

# **SEMESTER-I**

### FYBCA SEMESTER-I BCA-DSC-111: Basic of Web Design

Course	To search engine optimization	
objectives	To search engine optimization     To user-friendly site	
objectives	To effective calls to action	
	To Increase conversion rate.	
Course		
outcomes	After successful completion of this course, students are expected to	
outcomes	• Enter basic web pages.	
	Prepare different tags and control     Decim Web Proposed deciming Website	
	Design WebPages and designing Website      Design WebPages and designing Website      Design WebPages and designing Website	
<b>T</b> T 14	Building web forms to gather user input and data.	**
Unit	Content	Hours
Unit I	Internet & Web Designing Concepts	7
	• Internet: Introduction to Internet	
	• Connection of Internet, How does internet work?	
	• Internet Services, WWW, Website Advantages	
	• INTERNET – INTRANET - EXTRANET	
	Hypertext Transfer Protocol (HTTP)  HIPL Web armore Protocol (HTTP)	
Unit II	• URL, Web server, Proxy servers	0
Unit II	<ul><li>Web Site Concepts</li><li>Web page, Elements of Website</li></ul>	8
	<ul><li>Static and Dynamic web page</li><li>Web site development Phases, Difference between Webpage and Website</li></ul>	
	Types of Websites	
Unit III	HTML Fundamentals	7
Cint III	Hypertext Basics, Basic Components of HTML	,
	HTML Tags, Head, and Title Tags, Body Tags	
	List Tags and Attributes Nested Lists	
	Font Tags, Font Attributes	
	Marquee Tag and Attributes	
	Different Image Formats, Image Tags and Attributes, Image mapping	
	Background Images and Color	
	• SVG tag	
Unit IV	Links, Tables & Frames	8
	How Hyperlinks Work, Anchor Tag and HREF.	
	Attributes, Border, Table Tags & Table Attributes, Row Attributes, Cell	
	Attributes, Merging Rows & Columns.	
	Frames, Creating Framesets, Frameset Attributes, Frame Tag and Attributes	
	Form Tag And Attributes	
	Text Boxes, Check Boxes, Radio Buttons, Text Areas, List Box Submit and	
	Reset Buttons.	
Study	• Duckett, J. (2011). HTML and CSS: Design and Build Websites. Wiley.	
Resources	Niederst Robbins, J. (2018). Learning Web Design: A Beginner's Guide to	
	HTML, CSS, JavaScript, and Web Graphics. O'Reilly Media.	
	• Pilgrim, M. (2010). HTML5: Up and Running. O'Reilly Media.	
	• Robson, E., & Freeman, E. (2012). Head First HTML and CSS. O'Reilly Media.	
	• Castro, E. A. (2013). HTML and CSS: Visual QuickStart Guide. Peachpit Press.	
	• Henick, B. (2010). HTML & CSS: The Good Parts. O'Reilly Media.	
	• Larsen, R. (2019). HTML and CSS: Designing and Building Web Pages. Wiley.	
	• Casabona, J. (2016). HTML and CSS: Visual QuickStart Guide. Peachpit Press.	
	• Keith, J. (2010). HTML5 for Web Designers.	

# **FYBCA SEMESTER-I BCA-DSC-112: Programming in C**

Course	To study the fundamental programming languages	
objectives	To know the process logic development	
	• To give the practical knowledge of programming.	
C	• To be able to develop logics to create applications in C.	
Course	After successful completion of this course, students are expected to	
outcomes	Enter basic logic development.  Propose simple respectively.	
	<ul><li> Prepare simple program</li><li> Prepare basic programming logic and entries</li></ul>	
	Obtain basic knowledge of program	
TT •4		TT
Unit	Content	Hours
<b>Unit I</b>	Basics of C Language	7
	• Overview of C: History of C, Importance of C, Structure of a C Program.	
	• Elements of C: C character set, identifiers and keywords, Data types, Constants and	
	Variables, Assignment statement, Symbolic constant.	
	• Input/output: Unformatted & formatted I/O function in C, Input functions	
	• scanf(), getch(), getche(), getchar(), gets(), output functions viz. printf(), putch(),	
Unit II	putchar(), puts().  Control Flow and Logical Expressions	8
Omt H	• Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment,	G
	<ul> <li>Operators &amp; Expression: Arithmetic, relational, logical, bitwise, unary, assignment,</li> <li>Conditional operators and special operators, operator hierarchy &amp; associability</li> </ul>	
	• Decision making & branching: Decision making with IF statement, IF-ELSE	
	statement, Nested IF statement, ELSE-IF ladder, switch statement, goto statement.	
	• Loops control structure: while loop, for loop, do—while loop, nested loop, break,	
	continue, switch, go to, exit statement	
<b>Unit III</b>	Logic of Programming, Functions, Pointers	7
	• Functions: Definition, prototype, passing parameters, Scope of variable, storage	
	class, recursion, Function Overloading.	
	• Arrays and String: Array, array initialization, and Manipulation,	
	Multidimensional array, Strings, Standard library string function strlen(), strcpy(),	
	<ul><li>strcat(), strcmp().</li><li>Pointers: Definition and declaration, Uses, Initialization, address operator, pointer</li></ul>	
	arithmetic, dynamic memory allocation, arrays and pointers, pointer to function	
Unit IV	Structure, Union and File	8
Cmt IV	• Structure: Defining, Declaring, Accessing, Initialization Structure, nested	
	structure, self-referential structure, bit-field, Arrays of Structures, Structures and	
	Functions,	
	• Union: difference between structure and union, active data member, structure	
	within union, Self-referential Structure.	
	• File: File Management in C, Defining and Opening a File, File opening modes (read,	,
	write, append), Closing a File, File operations, file and stream, Error Handling	
	During I/O Operations, sequential and random access file, low level and high level	
G <sub>4</sub> 1	file.	
Study	• E. Balagurusamy, "Programming in ANSI C", 4/e, (TMH)	
Resources	• B. Kernighan & Dennis Ritchie, "The C Programming Language", 2/e PHI	
	<ul> <li>Paul Deitel, Harvey Deitel, "C: How to Program", 8/e, Prentice Hall.</li> <li>P.C. Sethi, P.K. Behera, "Programming using C", Kalyani Publisher,</li> </ul>	
	Ludhiana	
	• Kernighan, B. W., & Ritchie, D. M. (1988). The C Programming Language (2nd ed.). Prentice Hall.	
	• Prata, S. (2013). C Primer Plus (6th ed.). Addison-Wesley.	
	• Deitel, P. J., & Deitel, H. M. (2015). C: How to Program (8th ed.). Pearson.	
	• King, K. N. (2012). C Programming: A Modern Approach (2nd ed.). W. W.	
	Norton & Company.	
	rotton & Company.	1

- Gottfried, B. (2013). Programming in C (4th ed.). McGraw-Hill Education.
- Hanly, J. J., & Koffman, E. B. (2011). Problem Solving and Program Design in C (7th ed.). Pearson.
- Perry, G. (2013). C Programming Absolute Beginner's Guide (3rd ed.). Que Publishing.
- Venugopal, K. N., & Prasad, P. R. (2012). Mastering C (2nd ed.). McGraw-Hill Education.
- Holmes, M. (2017). C Programming in Easy Steps (5th ed.). In Easy Steps Limited.
- Horton, I. (2011). Beginning C (5th ed.). Apress.

### FYBCA SEMESTER-I

### **BCA-DSC-113: Practicals on Web Design and Programming in C**

Course	To search engine optimization	
objectives	To user-friendly site,	
	To effective calls to action,	
	To increase conversion rate.	
	After successful completion of this course, students are expected to	
outcomes	Enter basic web pages.	
	Prepare different tags and control	
	Design WebPages and designing Website	
	Enter basic logic development.	
	Content	Hours
1	Create web page using basic HTML tags, Different Formatting tag.	4
2	Create Web page with different images.	4
3	Create Web page with different types of Marquee Tag.	4
4	Create a web page using different List tag.	4
5	Create a web page using different Table Tag.	4
6	Create web page using Anchor Tag (Internal Link and External Link)	4
7	Design a web page using Frames and Frameset Tag.	4
8	Write a program in C to demonstrate Arithmetic & Relational operators.	4
9	Write a program in C for Palindrome number.	4
10	Write a program in C for Factorial number.	4
11	Write a program in C for Fibonacci series.	4
12	Write a program in C for Function Overloading.	4
13	Write a program in C which demonstrates the string function.	4
14	Write a program in C print the largest and second largest element of the array.	4
15	Write a program in C to demonstrate pointer variable.	4
Study	Pilgrim, M. (2010). HTML5: Up and Running. O'Reilly Media.	
Resources	• Robson, E., & Freeman, E. (2012). Head First HTML and CSS. O'Reilly Media.	
	• Castro, E. A. (2013). HTML and CSS: Visual QuickStart Guide. Peachpit Press.	
	• Henick, B. (2010). HTML & CSS: The Good Parts. O'Reilly Media.	
	• Larsen, R. (2019). HTML and CSS: Designing and Building Web Pages. Wiley.	
	<ul> <li>Casabona, J. (2016). HTML and CSS: Visual QuickStart Guide. Peachpit Press.</li> <li>E. Balagurusamy, "Programming in ANSI C", 4/e, (TMH)</li> </ul>	
	B. Kernighan & Dennis Ritchie, "The C Programming Language", 2/e PHI	
	• Paul Deitel, Harvey Deitel, "C: How to Program", 8/e, Prentice Hall.	
	• P.C. Sethi, P.K. Behera, "Programming using C", Kalyani Publisher, Ludhiana	
	• Kernighan, B. W., & Ritchie, D. M. (1988). The C Programming Language (2nd ed.).	
	Prentice Hall.	
	• Prata, S. (2013). C Primer Plus (6th ed.). Addison-Wesley.	

### FYBCA SEMESTER-I BCA-MIN-114: E-Commerce

Солима	. To study the fundamental a commence concents						
Course objectives	<ul> <li>To study the fundamental e-commerce concepts</li> <li>To know the process of online transaction in real life.</li> </ul>						
objectives	<ul> <li>To give the practical knowledge of online marketing, sale-perches, advertisement.</li> </ul>						
	<ul> <li>To give the practical knowledge of offine marketing, safe perches, advertiseing</li> <li>To Analyze the benefits and challenges of e-commerce</li> </ul>	Ait.					
Course	After successful completion of this course, students are expected to						
outcomes	• Enter basic online transaction.						
outcomes	Use simple digital payments.						
	Obtain basic knowledge of cashless transaction						
	Identify and evaluate emerging trends in e-commerce						
Unit	Content	Hours					
	Fundamentals of e-Commerce Lecturers	7					
Omt 1	e-Commerce: Meaning & Nature	/					
	Introduction to e-Commerce - Origin, Definitions & Meaning, Scope &						
	Goals, Feature, Needs &Functions, Significance, Advantages &						
	Disadvantages of e-commerce						
	Essentials of e-Commerce, e-Commerce v/s Traditional Commerce						
	Technology Infrastructure for e-Commerce -The Internet and WWW,						
	e-Commerce Infrastructure.						
Unit II	Business Models for e-Commerce	8					
	e-Business: Meaning, Definitions	O					
	Importance Requirements of E-Business , e-Business Models based on the						
	relationships of transaction parties						
	e-Business Models based on the relationships of transaction types						
	Manufacture Model, Advertising Model, Value Chain Model, Brokerage						
	Model.						
Unit III	e-Enterprise	7					
	Managing the e-Enterprise						
	Introduction e-Enterprise, Auctions in E-commerce, Comparison between						
	Conventional Design and E-organization, Organization of Business in an e-						
	Enterprise.						
	Government's support for cashless payments- Lucky Grahak Yojna for customers and Digi Dhan Vyapar Yojna.						
	Models of Payments: Credit Cards, Debit Cards, Internet Banking,						
	e-Credit Accounts & e-Money/Cash, e-wallets.						
Unit IV	Introduction to e-commerce models, E-Security and Legal Issues	8					
Cint IV	• Fundamentals of B2C, B2B, C2C, C2G, G2G, B2G	O					
	• E-Business: Introduction to Internet bookshops, Grocery Suppliers, Software						
	Supplies and support, Electronic newspapers, Virtual auctions, Online share						
	dealing, e-diversity.						
	• E-Security and Legal Issues: Security concerns in E-Commerce, Privacy,						
	integrity, authenticity, non-repudiation, confidentiality, SSL, Digital						
	Signatures and fire walls, IT Act 2000, Cyber-crimes and cyber laws						
Study	• Laudon, K. C., & Traver, C. G. (2020). E-commerce 2020: Business,						
Resources	Technology, Society (16th ed.). Pearson.						
	Chaffey, D., & Ellis-Chadwick, F. (2019). Digital Marketing: Strategy,  Implementation and Practice (7th ed.). Pearson  Implementation and Practice (7th ed.). Pearson  Implementation and Practice (7th ed.). Pearson						
	Implementation, and Practice (7th ed.). Pearson.  • Turban, E., King, D., Lee, J., Viehland, D., & Liang, TP. (2021). Electronic						
	Commerce 2021: Business, Technology, Society (13th ed.). Springer.						
	Kalakota, R., & Whinston, A. B. (1997). Electronic Commerce: A Manager's						
	Guide. Addison-Wesley.						
	• Reynolds, J., & Stair, R. (2021). Principles of Information Systems (15th ed.).						
	Cengage Learning.						
	• Strauss, J., & Frost, R. (2020). E-Marketing (8th ed.). Routledge.						

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- Timmers, P. (1998). Electronic Commerce: Strategies and Models for Business-to-Business Trading. Wiley.
- Kalakota, R., & Robinson, M. (2001). M-Business: The Race to Mobility. McGraw-Hill Education.
- Rayport, J. F., & Jaworski, B. J. (2002). Introduction to e-Commerce. McGraw-Hill Education.

### FYBCA SEMESTER-I BCA-Minor-115: Practicals on Ecommerce

objectives         • To know the process of online transaction in real life.         • To give the practical knowledge of online marketing, sale-perches, advertisement.           • To Analyze the benefits and challenges of e-commerce           Course outcomes         After successful completion of this course, students are expected to           • Enter basic online transaction.         • Use simple digital payments.           • Obtain basic knowledge of cashless transaction.         • Identify and evaluate emerging trends in e-commerce           Content           1         Search and demonstrate any 5 commercial Websites (e-commerce) for purchasing various products.           2         Study of shipping stragies in e-commerce and list various sellers in E-commerce.           3         Demonstrate possible Payment Methods while purchasing through a website.         4           4         Perform a Marketing Transaction on a commercial Website.         4           5         Demonstrate B2B, C2C and B2C Relationship using websites.         4           6         Create an UPI account.         4           7         Demonstrate how to perform M-commerce Transactions Study various M-Commerce Websites(Nordstorm, Zillow, Mizpee, Target)         4           8         Perform a Banking Transaction using various Apps.         4           9         Demonstrate Billing Transaction using various Apps.         4           10<			
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7 Demonstrate how to perform M-commerce Transactions Study various M-Commerce Websites(Nordstorm, Zillow, Mizpee, Target)  8 Perform a Banking Transaction using various Apps. 4  9 Demonstrate Billing Transactions using various Apps 4  10 Live demo for billing transaction 4  11 Creating a Product Listing Page 4  12 Develop a shopping cart functionality that allows users to add products, update quantities, and calculate the total cost.  13 Integrate a payment gateway to enable users to make secure online payments for their purchases.  14 Develop an order management system that allows users to view their order history, track shipments, and manage returns or cancellations.  15 Implementing Product Reviews and Ratings 4  Study ** Laudon, K. C., & Traver, C. G. (2020). E-commerce 2020: Business, Technology, Society (16th ed.). Pearson.  • Chaffey, D., & Ellis-Chadwick, F. (2019). Digital Marketing: Strategy, Implementation, and Practice (7th ed.). Pearson.  • Turban, E., King, D., Lee, J., Viehland, D., & Liang, TP. (2021). Electronic Commerce 2021: Business, Technology, Society (13th ed.). Springer.  • Kalakota, R., & Whinston, A. B. (1997). Electronic Commerce: A Manager's Guide. Addison-Wesley.  • Reynolds, J., & Stair, R. (2021). Principles of Information Systems (15th ed.). Cengage Learning.  • Strauss, J., & Frost, R. (2020). E-Marketing (8th ed.). Routledge.	6	Create an UPI account.	4
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<ul> <li>Commerce 2021: Business, Technology, Society (13th ed.). Springer.</li> <li>Kalakota, R., &amp; Whinston, A. B. (1997). Electronic Commerce: A Manager's Guide. Addison-Wesley.</li> <li>Reynolds, J., &amp; Stair, R. (2021). Principles of Information Systems (15th ed.). Cengage Learning.</li> <li>Strauss, J., &amp; Frost, R. (2020). E-Marketing (8th ed.). Routledge.</li> </ul>			
<ul> <li>Kalakota, R., &amp; Whinston, A. B. (1997). Electronic Commerce: A Manager's Guide. Addison-Wesley.</li> <li>Reynolds, J., &amp; Stair, R. (2021). Principles of Information Systems (15th ed.). Cengage Learning.</li> <li>Strauss, J., &amp; Frost, R. (2020). E-Marketing (8th ed.). Routledge.</li> </ul>			
<ul> <li>Guide. Addison-Wesley.</li> <li>Reynolds, J., &amp; Stair, R. (2021). Principles of Information Systems (15th ed.). Cengage Learning.</li> <li>Strauss, J., &amp; Frost, R. (2020). E-Marketing (8th ed.). Routledge.</li> </ul>			
Cengage Learning. • Strauss, J., & Frost, R. (2020). E-Marketing (8th ed.). Routledge.			
• Strauss, J., & Frost, R. (2020). E-Marketing (8th ed.). Routledge.			
		O'Brien, J. A., & Marakas, G. M. (2021). Management Information Systems (12th ad.) McGraw Hill Education.	
ed.). McGraw-Hill Education.  • Timmers, P. (1998). Electronic Commerce: Strategies and Models for Business-to-			
Business Trading. Wiley.			
			<u> </u>

### FYBCA SEMESTER-I BCA-SEC-116: Office Automation-I

Course	To create new document and save the data	
objectives	<ul> <li>To create new document and save the data</li> <li>To format the text in the document using different formatting tools</li> </ul>	
	<ul> <li>To arrange the text into columns and insert different objects into</li> </ul>	o the text
	document.	
	To use mail merge on common document.	
Course	After successful completion of this course, students are expected to:	
outcomes	• Aware different word processing tools and has hands on one of them.	
	Learn different formatting options for text and document.	
	Embed the object into text document	
	Understand the rules applied for microbial taxonomy	1
Unit	Content	Hours
Unit I	Launch any Word processing tool and navigate the editing	7
	screen.	
	<ul> <li>Launch Word.</li> </ul>	
	<ul> <li>Identify the components of the Word window.</li> </ul>	
	<ul> <li>Edit a document.</li> </ul>	
	<ul> <li>Save a document.</li> </ul>	
	<ul> <li>Preview and print a document.</li> </ul>	
	Close a document.	
	<ul> <li>Locate and open an existing document.</li> </ul>	
	Create a new document.	
	<ul> <li>Close the Word application.</li> </ul>	
	<ul> <li>Use Print Preview.</li> </ul>	
	Print a document	
Unit II	Create, edit a Text document and Apply formatting	8
	• Create a letter.	0
	Select text.	
	<ul><li>Cut, copy, and paste text.</li></ul>	
	<ul><li>Find and replace text.</li></ul>	
	<ul> <li>Change fonts and font sizes.</li> </ul>	
	<ul> <li>Apply font styles, character styles, and special character effects.</li> </ul>	
	O Change the case of text.	
	<ul> <li>Highlight text in a document.</li> </ul>	
	<ul> <li>Insert symbols and special characters.</li> </ul>	
	<ul> <li>Add bullets, numbering, borders, and shading.</li> </ul>	
	<ul> <li>Set line and paragraph spacing.</li> </ul>	
	<ul> <li>Align and indent paragraphs.</li> </ul>	
	<ul> <li>Insert page breaks.</li> </ul>	
	<ul> <li>Create and modify headers and footers.</li> </ul>	
	<ul> <li>Apply paragraph styles.</li> </ul>	
	o Create outlines.	

Unit III	Work with columns, pictures, diagrams, and charts and tables.	7
	<ul> <li>Create and use newspaper columns.</li> </ul>	
	<ul> <li>Insert pictures.</li> </ul>	
	o Create diagrams.	
	<ul> <li>Create and modify a data chart</li> </ul>	
	Create basic tables.	
	<ul> <li>Create and format tables.</li> </ul>	
	<ul> <li>Modify tables.</li> </ul>	
	<ul> <li>Customize tables.</li> </ul>	
	<ul> <li>Use special table features.</li> </ul>	
	<ul> <li>Use table styles.</li> </ul>	
	<ul> <li>Use tab stops in a table.</li> </ul>	
	<ul> <li>Convert text to a table.</li> </ul>	
	<ul> <li>Merge and split table cells.</li> </ul>	
Unit IV	Use the mail merge wizard, Work with drawing objects and	8
	graphics	
	<ul> <li>Explain the steps of the mail merge process.</li> </ul>	
	o Define the main document. Select the data source. Merge the	
	main	
	o document and data source.	
	<ul> <li>Create drawing objects.</li> </ul>	
	<ul> <li>Add decorative page borders.</li> </ul>	
	<ul> <li>Use WordArt special text effects.</li> </ul>	
	<ul> <li>Insert, position, and delete pictures.</li> </ul>	
	<ul> <li>Insert and edit text boxes.</li> </ul>	
	<ul> <li>Create and edit an organization chart.</li> </ul>	
	<ul> <li>Create an equation.</li> </ul>	
Study	• Frandsen T., (2010), Microsoft Office Word 2007, BookBoon	
Resources	• Curtis F.(2007), Microsoft Office Word 2007 Step by Step	
	• https://testbook.com/computer-awareness/microsoft-office	
	• https://documentation.libreoffice.org/assets/Uploads/Documentation/en/GS5.0/PDF/GS5001-IntroducingLibreOffice.pdf	
	https://www.teachmint.com/tfile/studymaterial/b-com/ccc/libreofficecalcpdf/e66b485b-3992-44c9-8972-209158129d10	

### FYBCA SEMESTER-I BCA-SEC-117: Practicals on Office Automation-I

Total Hours: 30 Credits: 1

Course	To aquent document creation and storing information in proper form.
objectives	To study various text formatting options
	To learn changing orientation and setting page margins according to the
	need.
~	• To learn how to print or email multiple recipient form letters.
Course	After successful completion of this course, students are expected to:
outcomes	Apply different text formatting options and create effective documents.
	• Study the page types and its orientation and apply the same wherever required.
	• Insert header footer as well as apply different styles to the page
	Create letters, labels, envelopes, and emails all with personalized data
	Content
1	Introduction to word processing tool environment.
2	Create document, insert and edit the text (Copy, Paste, format painter etc).
	Demonstrate paragraph formatting.
3	Create document and Apply different text formatting options, insert header,
	footer, page numbers etc.
4	Create document, set margin, orientation, size, watermark, page color and page border.
5	Create document and covert the text into column format. Change different column options.
6	Prepare mark sheet of your class subjects using table option.
7	Insert chart of marks of students and apply different chart option on it.
8	Create an invitation letter with proper formatting and prepare it for different
Gt. I	addresses using mail merge.
Study Resources	• Frandsen T., (2010), Microsoft Office Word 2007, BookBoon
Resources	• Curtis F.(2007), Microsoft Office Word 2007 Step by Step
	https://testbook.com/computer-awareness/microsoft-office
	https://documentation.libreoffice.org/assets/Uploads/Documentation/en/GS5.0/P DF/GS5001-IntroducingLibreOffice.pdf
	• https://www.teachmint.com/tfile/studymaterial/b-com/ccc/libreofficecalcpdf/e66b485b-3992-44c9-8972-209158129d10

Note: At least 06 experiments should be performed.

# **SEMESTER-II**

### FYBCA SEMESTER-II BCA-DSC-121: Programming in C++

Course	To study the fundamental programming languages	
objectives	To know the process logic development	
objectives	To give the practical knowledge of programming	
	To efficiently manage memory and work with dynamic	
Course	After successful completion of this course, students are expected to	
outcomes	• Enter basic logic development.	
outcomes	Prepare simple program	
	Prepare basic programming logic and entries	
	Obtain basic knowledge of program	
Unit	Content	Hours
Unit I	Introduction and Basics of OOP's	7
	Introduction to Object Oriented Paradigm	
	Need Object-Oriented Programming	
	Characteristics of Object-Oriented Programming	
	Difference of Structured Vs. OOPs	
	• Input/ Output in C++, Data Types, Operators,	
Unit II	C++ Controls & Functions	8
	Control & Conditional Statements, Function and its components	<del></del>
	Different types of parameter passing mechanisms	
	Pointer as function argument, Recursive function	
	Function overloading, Inline Function, map function	
Unit III	Object and Classes	7
	• Class declaration in C++, Objects, Constructors and types of constructor (Default	
	constructor, Copy Constructor, Parameterized constructor), Destructor	
	Friend class Friend Function	
	Overloading	
	Operator overloading, Overloading Unary & Binary Operators without friend	
	function, Features of operator overloading,	
	Operators overloading using friend function	
Unit IV	Inheritance, Templates and Exception	8
	Inheritance- definition, concept, Benefits of Inheritance, Types of Inheritance	
	visibility modes- Public, Private, Protected, Virtual Base Class	
	Virtual Functions, Templates & Exception	
	Virtual Function, Pure Virtual Functions, Abstract classes	
	Function Templates, Exception handling	
Study	• W. Balguruswamy, Publication - TMH Object Oriented Programming using C++	
Resources	• Stroustrup, B. (2013). The C++ Programming Language (4th ed.). Addison-Wesley.	
	• Lippman, S. B., Lajoie, J., & Moo, B. E. (2012). C++ Primer (5th ed.). Addison-	
	Wesley. • Schildt, H. (2017). C++: The Complete Reference (5th ed.). McGraw-Hill	
	Education.	
	• Deitel, P. J., & Deitel, H. M. (2017). C++ How to Program (10th ed.). Pearson.	
	• Prata, S. (2014). C++ Primer Plus (6th ed.). Addison-Wesley.	
	• Stroustrup, B. (2014). Programming: Principles and Practice Using C++ (2nd ed.).	
	Addison-Wesley.	
	• Josuttis, N. M. (2019). C++17 - The Complete Guide. The Comprehensive Guide to	
	C++17 (2nd ed.). Leanpub.	
	• Eckel, B. (2000). Thinking in C++: Introduction to Standard C++, Volume One (2nd	
	ed.). Prentice Hall.	
	• Savitch, W. (2018). Problem Solving with C++ (10th ed.). Pearson.	

### FYBCA SEMESTER-II BCA-DSC-122: Database Management System

Course	To study the fundamental DBMS concepts	
objectives	• To know the process of data entry in real life.	
objectives	<ul> <li>To give the practical knowledge of secured data, protection, backup data.</li> </ul>	
	To acquiring Knowledge of Data Manipulation.	
Course	After successful completion of this course, students are expected to	
outcomes	• Enter basic database.	
outcomes	Use simple operation on database.	
	Effective Data Manipulation	
	Create database software	
Unit	Content	Hours
Unit I	Database Concept	7
	• Introduction of File Processing System, Introduction of DBMS & RDBMS. Difference	•
	between File processing system & DBMS, Difference between DBMS & RDBMS.	
	Applications of DBMS, Overview of DBMS, Components of DBMS, Database	
	Architecture, Types of Database Model.	
Unit II	Modeling and Database Design	8
	• ER model concept Notation for ER diagram Mapping, constraints DBMS, Keys DBMS,	
	Generalization DBMS, Specialization DBMS, Aggregation, Convert ER into table,	
	Relational Model, Network Model, Hierarchical Model, Entity Relationship Model.	
	• Introduction to DFD, Application of DFD, Charactertics, Symbols, Component	
	• Integrity Constraints: Keys: Super, Candidate, Primary, Foreign Key, Entity Integrity,	
	Referential Integrity, Integrity Constraints.	
<b>Unit III</b>	Database Design Theory and Normalization	7
	• Functional Dependencies, Normal Forms based on Primary Keys, Second and third Normal	
	Forms, Boyce-Cod Normal Form, Multivalued Dependency and Fourth Normal Form, Join	
	Dependencies and Fifth Normal Form.	
Unit IV	SQL Commands	8
	Introduction to DML, TCL, DDL, DCL, Integrity constraints	
	• Sub Queries & Joins: Sub Queries, view, Sequence, Set Operators, Joins, Inner joins, Equi,	
	Non Equi, Self-join & Outer Joins	
Study	Silberschatz, A., Korth, H. F., & Sudarshan, S. (2020). Database System Concepts (7th)	
Resources	ed.). McGraw-Hill Education.	
11000011000	• Elmasri, R., & Navathe, S. B. (2016). Fundamentals of Database Systems (7th ed.).	
	Pearson.  • Garcia-Molina, H., Ullman, J. D., & Widom, J. (2008). Database Systems: The Complete	
	Book (2nd ed.). Pearson.	
	Connolly, T. M., & Begg, C. E. (2014). Database Systems: A Practical Approach to	
	Design, Implementation, and Management (6th ed.). Pearson.	
	Ramakrishnan, R., & Gehrke, J. (2002). Database Management Systems (3rd ed.).	
	McGraw-Hill Education.	
	• Date, C. J., & Darwen, H. (2009). Foundation for Future Database Systems: The Third	
	Manifesto (2nd ed.). Addison-Wesley.	
	• Garcia-Molina, H., & Widom, J. (2000). Database Systems: The Complete Book (1st ed.).	
	Prentice Hall.	
	• Rob, P., & Coronel, C. (2019). Database Systems: Design, Implementation, and	
	Management (13th ed.). Cengage Learning.	
	• Coronel, C., Morris, S., & Rob, P. (2016). Database Principles: Fundamentals of Design, Implementation, and Management (2nd ed.). Cengage Learning.	
	implementation, and ivianagement (znd ed.). Cengage Learning.	

### **FYBCA SEMESTER-II**

### **BCA-DSC-123: Practicals on C++ and Database Management System**

Course	To study the fundamental programming languages  To local the second languages	
objectives	• To know the process logic development	
	• To give the practical knowledge of programming.	
Course	Acquiring Knowledge of Data Manipulation  After groups full completion of this course students are expected to	
	After successful completion of this course, students are expected to  • Enter basic logic development.	
outcomes	Prepare basic programming logic and entries	
	Obtain basic knowledge of program	
	Obtain basic Data Store System	
	Content	Hours
1	Write a program to check given number is prime or not.	4
2	Write a program to demonstrate encapsulation using of class.	4
3	Write a program to demonstrate use constructors and Destructor.	4
4	Write a program to demonstrate single inheritance & multiple inheritances.	4
5	Write a program to demonstrate use of friend function & class.	4
6	Write a program to demonstrate use of operator overloading.	4
7	Write a program to demonstrate use of template.	4
8	Write a program to demonstrate use of exception handling.	4
9	Demonstration of creating database and table.	4
10	Defining different types of database constraint and Create table with various	4
	constraints as PRIMARY KEY, FOREIGN KEY	
11	Demonstrate to Controls and Properties.	4
12	Demonstrate to create Records in Table using Form	4
13	Demonstrate to create design form of Order System.	4
14	Demonstrate to create & format reports.	4
15	Demonstrate to design multiple entry Forms with data.	4
	Note: Database Management System practical performed on MS-Access	
Study	W. Balguruswamy, Publication - TMH Object Oriented Programming using C++	
Resources	• Stroustrup, B. (2013). The C++ Programming Language (4th ed.). Addison-Wesley.	
	• Lippman, S. B., Lajoie, J., & Moo, B. E. (2012). C++ Primer (5th ed.). Addison-Wesley.	
	• Schildt, H. (2017). C++: The Complete Reference (5th ed.). McGraw-Hill Education.	
	• Deitel, P. J., & Deitel, H. M. (2017). C++ How to Program (10th ed.). Pearson.	
	• Prata, S. (2014). C++ Primer Plus (6th ed.). Addison-Wesley.	
	• Silberschatz, A., Korth, H. F., & Sudarshan, S. (2020). Database System Concepts (7th ed.). McGraw-Hill Education.	
	• Elmasri, R., & Navathe, S. B. (2016). Fundamentals of Database Systems (7th ed.).	
	Pearson.	
	Garcia-Molina, H., Ullman, J. D., & Widom, J. (2008). Database Systems: The	
	Complete Book (2nd ed.). Pearson.	
	• Connolly, T. M., & Begg, C. E. (2014). Database Systems: A Practical Approach to	
	Design, Implementation, and Management (6th ed.). Pearson.	
	• Ramakrishnan, R., & Gehrke, J. (2002). Database Management Systems (3rd ed.).	
	McGraw-Hill Education.	

### FYBCA SEMESTER-II BCA-Minor-124: M-Commerce

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Course	To study the fundamental e-commerce concepts	
objectives	• To evaluate the benefits and challenges associated with M-commerce.	
	• To know the process of online transaction in real life.	
	• To give the practical knowledge of online marketing, sale-perches, advertisement.	
Course	After successful completion of this course, students are expected to	
	• Enter basic online transaction.	
outcomes		
	Use simple digital payments.  From in the paych elegical and behavioral consets of mobile consumers.	
	<ul><li>Examine the psychological and behavioral aspects of mobile consumers.</li><li>Obtain basic knowledge of cashless transaction</li></ul>	
Unit	Content	Hours
Unit I	Mobile Commerce	7
	• Introduction of M–Commerce	
	Types of Mobile Commerce Services	
	• Technologies Of Wireless Business – Benefits and Limitations,	
	<ul> <li>Mobile Marketing &amp; Advertisement, Non– Internet Applications in</li> </ul>	
	• M–Commerce – Wireless / Wired Commerce Comparisons.	
Unit II	M-Commerce Applications	8
	<ul> <li>Mobile financial services, Mobile advertising,</li> </ul>	
	Mobile Payment, Mobile Ticketing,	
	<ul> <li>Mobile product location and shopping, Mobile business services,</li> </ul>	
	Mobile auction, Mobile entertainment, Mobile office,	
	Mobile distance education.	
Unit III	Business- To- Business Mobile Commerce	7
	Enterprise Enablement	
	• Email and Messaging – Field Force Automation (Insurance, Real Estate, Maintenance,	
	Healthcare)	
	<ul> <li>Field Sales Support (Content Access, Inventory) – Asset Tracking and</li> </ul>	
	Maintenance/Management – Remote IT Support Customer Retention (B2C Services,	
	Financial, Special Deals) – Warehouse Automation – Security.	
Unit IV	Digital Payments (Cashless Payments)	8
	Digital Payment System- Introduction, Advantages,	
	Mobile Wallets, Bank Pre-Paid Cards, Point of Sale Machines,	
	• Micro ATM's ,Unified Payment Interface, Aadhar Enabled Payment System(AEPS) ,	
	• Digital Signatures - Legal positions of Digital Signatures, Procedure & working of Digital	
	Signature technology, Risks and e-Payment System	
Study	Barnes, S. J. (2002). M-Commerce: Technologies, Services, and Business Models. Wiley.	
Resources	• Tsalgatidou, A., & Pitoura, E. (Eds.). (2006). Mobile and Ubiquitous Commerce: Advanced E-	
Resources	Business Methods. IGI Global.	
	• Kim, D. J., Ferrin, D. L., & Rao, H. R. (Eds.). (2008). Mobile Commerce: Technology, Theory and	
	Applications. Springer.	
1	<ul> <li>Tao, Y., &amp; Liu, L. (2016). Mobile Commerce Applications. CRC Press.</li> <li>Xiao, B., Hu, X., &amp; Wang, Y. (Eds.). (2018). Mobile Commerce and Wireless Computing Systems.</li> </ul>	
	IGI Global.	
	<ul> <li>Thakur, R., Sahoo, S. K., &amp; Obaidat, M. S. (Eds.). (2019). Handbook of Research on Mobile and Wireless Computing. IGI Global.</li> </ul>	
	• Balasubramanian, S. (2018). Mobile Commerce: Concepts, Methodologies, Tools, and Applications.	
	IGI Global.  • Pholokia P. P. & Dholokia N. (2017). Mobile Commerce: Opportunities. Applications and	
	<ul> <li>Dholakia, R. R., &amp; Dholakia, N. (2017). Mobile Commerce: Opportunities, Applications, and Technologies of Wireless Business. Routledge.</li> </ul>	
	<ul> <li>Mukerji, S., &amp; Tripathi, A. (2012). Handbook of Research on Global Diffusion of Broadband Data Transmission. IGI Global.</li> </ul>	
	<ul> <li>Jiang, J., Hua, H., &amp; Chen, X. (2015). Handbook of Research on Ubiquitous Computing Technology</li> </ul>	
	for Real Time Enterprises. IGI Global.	

### FYBCA SEMESTER-II BCA-Minor-125: Practicals on M-Commerce

Course	To study the fundamental e-commerce concepts.	
objectives	<ul> <li>To study the fundamental e-commerce concepts.</li> <li>To evaluate the benefits and challenges associated with M-commerce.</li> </ul>	
objectives	To know the process of online transaction in real life.	
	To give the practical knowledge of online marketing, sale-perches, advertisement.	
Course	After successful completion of this course, students are expected to	
outcomes	• Enter basic online transaction.	
	<ul><li> Use simple digital payments.</li><li> Obtain basic knowledge of cashless transaction.</li></ul>	
	Examine the psychological and behavioral aspects of mobile consumers.	
	Content	Hours
1	Mobile Payment Integration and Security & Seamless Mobile Shopping	4
2	Experience	4
2	Personalized Recommendations and Targeted Offers & Efficient Mobile Checkout Process	4
3	Enhanced Mobile Catalog and Product Display & Mobile Loyalty Programs and Rewards	4
4	Social Media Integration for Mobile Commerce & Location-Based Services and Geo-Targeting	4
5	Mobile Analytics and User Behavior Tracking & Mobile Wallet Integration and Digital Coupons	4
6	Mobile Push Notifications for Order Updates & Responsive Design for Mobile Devices	4
7	Performance Optimization for Mobile Commerce & Mobile App Localization and Internationalization	4
8	Voice Search and Voice Commerce Integration & Mobile Augmented Reality (AR) for Product Visualization	4
9	In-App Messaging and Customer Support & Mobile Order Tracking and Shipment Notifications & Cross-Platform Compatibility for Mobile Commerce Mobile Commerce Accessibility and Inclusive Design.	4
10	Develop a mobile inventory management system that enables real-time inventory tracking.	4
11	Study the Creating Mobile Customer Support Features	4
12	Study the Social Media Integration	4
13	Study the Mobile Shopper Support Features	4
14	Study the Mobile Analytics and Performance Monitoring	4
15	Study the Exploration of Emerging Mobile Technologies	4
Study Resources	<ul> <li>Barnes, S. J. (2002). M-Commerce: Technologies, Services, and Business Models. Wiley.</li> <li>Tsalgatidou, A., &amp; Pitoura, E. (Eds.). (2006). Mobile and Ubiquitous Commerce: Advanced E-Business Methods. IGI Global.</li> <li>Kim, D. J., Ferrin, D. L., &amp; Rao, H. R. (Eds.). (2008). Mobile Commerce: Technology, Theory and Applications. Springer.</li> <li>Tao, Y., &amp; Liu, L. (2016). Mobile Commerce Applications. CRC Press.</li> <li>Xiao, B., Hu, X., &amp; Wang, Y. (Eds.). (2018). Mobile Commerce and Wireless Computing Systems. IGI Global.</li> <li>Thakur, R., Sahoo, S. K., &amp; Obaidat, M. S. (Eds.). (2019). Handbook of Research on Mobile and Wireless Computing. IGI Global.</li> </ul>	

### FYBCA SEMESTER-II BCA-SEC-126: Office Automation-II

Course	Student will be able to	
objectives	<ul> <li>Customize the formatting of charts presentation</li> </ul>	
	<ul> <li>Deal with shapes and images</li> </ul>	
	Use media in presentation	
	Create and edit a PivotChart	
Course		
outcomes	After successful completion of this course students are expected to	
outcomes	Demonstrating the basic mechanics and navigation of a spreadsheet.      The state of the st	
	• Learning the use and utility of functions and formulas on spreadsheet.	
	• Using clip art to enhance ideas and information in Excel worksheets.	
	Analyzing data using Pivot Tables and Pivot Charts.	
Unit	Content	Hours
Unit I	Create and Manage Presentations	7
	<ul> <li>Create a Presentation</li> </ul>	
	<ul> <li>Insert and Format Slides</li> </ul>	
	<ul> <li>Modify Slides, Handouts, and Notes</li> </ul>	
	<ul> <li>Change Presentation Options and Views</li> </ul>	
	<ul> <li>Configure a Presentation for Print</li> </ul>	
	<ul> <li>Configure and Present a Slide Show.</li> </ul>	
Unit II	Insert and Format Text, Shapes, and Images	8
	<ul> <li>Insert and Format Text</li> </ul>	
	<ul> <li>Insert and Format Shapes and Text Boxes</li> </ul>	
	<ul> <li>Insert and Format Images</li> </ul>	
	<ul> <li>Order and Group Objects</li> </ul>	
Unit III	Insert Tables, Charts, SmartArt, and Media	7
	<ul> <li>Insert and Format Tables</li> </ul>	
	<ul> <li>Insert and Format Charts</li> </ul>	
	<ul> <li>Insert and Format SmartArt graphics</li> </ul>	
	<ul> <li>Insert and Manage Media</li> </ul>	
Unit IV	Apply Transitions and Animations	8
	<ul> <li>Apply Slide Transitions</li> </ul>	
	<ul> <li>Animate Slide Content</li> </ul>	
	<ul> <li>Set Timing for Transitions and Animations</li> </ul>	
Study	• Frandsen T., (2010), Microsoft Powerpoint 2007, BookBoon	
Resources		
	• Curtis F.(2007), Microsoft Office Powerpoint Step by Step	
	• https://testbook.com/computer-awareness/microsoft-office	
	• https://documentation.libreoffice.org/assets/Uploads/Documentation/en/GS5.0/PDF/GS5001-IntroducingLibreOffice.pdf	
	• https://www.teachmint.com/tfile/studymaterial/b-com/ccc/libreofficecalcpdf/e66b485b-3992-44c9-8972-209158129d10	

### FYBCA SEMESTER-II BCA-SEC-127: Practicals on Office Automation-II

Total Hours: 30 Credits: 1

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Course	•To aquent basic knowledge of worksheet
objectives	•To study various formatting of worksheet
	•To learn how to use various functions in worksheet
	To learn drawing a charts in worksheet
Course	After successful completion of this course, students are expected to:
outcomes	• Demonstrating the basic mechanics and navigation of an Excel spreadsheet.
	• Securing information in an Excel workbook
	Working knowledge of organizing and displaying large amounts and complex data
	•Learning formulas, creating charts and graphs that can easily explain or simplify complex information or data.
	Content
1	Create a new presentation and insert different types of slides
2	Insert different shapes and images in presentation and apply formatting on it.
3	Insert tables and charts in presentation.
4	Demonstration on inserting media files in ppt.
5	Apply different slide transition and templates in presentation.
6	Apply animation to shapes and slides.
7	Demonstration of different views in powerpoint.
8	Apply different slide show options in presentation
Study Resources	• Frandsen T., (2010), Microsoft Powerpoint 2007, BookBoon
	• Curtis F.(2007), Microsoft Office Powerpoint Step by Step
	• https://testbook.com/computer-awareness/microsoft-office
	• https://documentation.libreoffice.org/assets/Uploads/Documentation/en/GS5.0/PDF/GS5001-IntroducingLibreOffice.pdf
	• https://www.teachmint.com/tfile/studymaterial/b-com/ccc/libreofficecalcpdf/e66b485b-3992-44c9-8972-209158129d10

Note: At least 06 experiments should be performed.