

પરિપત્ર:

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી સંલગ્ન સાયન્સ વિદ્યાશાખાનાં અભ્યાસક્રમ ચલાવતી તમામ કોલેજોનાં આચાર્યશ્રીઓને સવિનય જણાવવાનું કે સાયન્સ વિદ્યાશાખા હેઠળનો NEP-૨૦૨૦ અંતર્ગતનો કોમ્પ્યુટર સાયન્સ વિષય (બી.સી.એ વિથ ઓનર્સ) સેમેસ્ટર-૧ના અભ્યાસક્રમમાં રિવાઈઝડ પેપર સ્ટાઈલ (SOP, શિક્ષણ વિભાગ, ગુજરાત સરકાર ની ગાઈડલાઈન્સ પ્રમાણે) જેની સાથેનો ૨૦૨૩-૨૪નો અભ્યાસક્રમ આ સાથે સામેલ છે. જે આપને વિદિત થાય.

માનનીય કુલપતિશ્રીની મંજુરી અનુસાર સદર અભ્યાસક્રમ શૈક્ષણિક વર્ષ જુન,૨૦૨૩ થી અમલવારી કરવાની રહે છે. સાયન્સ વિદ્યાશાખાનાં અભ્યાસક્રમ ચલાવતી તમામ સંલગ્ન કોલેજો ધ્વારા તેની અમલવારી કરવા જણાવવામાં આવે છે.

ખાસ ફરેજ પરના અધિકારી (એકેડેમિક)

ક્રમાંક/બીકેએનએમયુ/ એકેડેમિક/૧૪૦૯/૨૦૨૪ ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી, સરકારી પોલીટેકનિક કેમ્પસ, ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી રોડ, ખડીયા, જૂનાગઢ-૩૬૨૨૬૩ તા.૨૨/૧૦/૨૦૨૪

પ્રતિ,

 ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી સંલગ્ન સાયન્સ વિદ્યાશાખાનાં અભ્યાસક્રમો ચલાવતી તમામ કોલેજોના આચાર્યશ્રીઓ તરફ....

નકલ સાદર રવાનાઃ-

- માન.કુલપતિશ્રી/કુલસચિવશ્રીનાં અંગત સચિવશ્રી.
- પરીક્ષા નિયામકશ્રી, ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી, જુનાગઢ

નકલ રવાના જાણ તથા યોગ્ય કાર્યવાઠી અર્થેઃ

સીસ્ટમ મેનેજરશ્રી, આઇ.ટી.સેલ વિભાગ (વેબસાઇટ ઉપર પ્રસિદ્ધ થવા અર્થે.)



# BHAKTA KAVI NARSINH MEHTA UNIVERSITY



# FACULTY OF SCIENCE SYLLABUS FOR B.C.A (HONOURS) PROGRAMME (SEMESTER- I) EFFECTIVE FROM JUNE, 2023

### <u>TABLE -1</u> <u>Credit Framework for 3 years/ 4 years UG</u> <u>Programme</u>

NCrF Credit Levels	Qualification Title	Credit Requirements	No. Of Semesters	Year
4.5	UG Certificate	44	2	1
5.0	UG Diploma	88	4	2
5.5	Three Year Bachelor"s Degree	132	6	3
6.0	Bachelor"s Degree-Honours OR Bachelor"s Degree-Honours with Research	176	8	4

<u>TABLE -2</u> Year Wise Distribution of Total Credits among Different Courses (As per UGC norms)						
Sr.	Sr. Category of Course Credit Requirement					
No.		3- Years'	4- Years' UG	4- Years' UG		
		UG	Programme	Programme		
		Programme	(Bachelor's	(Bachelor's Degree		
		(Bachelor's	Degree-	Honours with		
		Degree)	Honours)	Research)		
1	Major (Core) Courses (With Internship)	68	92	92		

<u>TABLE -3</u> Credit Structure for BCA/BSc(IT)– Honours with and without Research Arrangement of Credit Distribution Framework for three/four years Honours/Honours with Research Degree Programme with Multiple Entry and **Exits Options** 

NCrF Credit Level	Sem- ester	Major (Core)	Minor (Electives)	Multi/ Inter- disciplinary	AEC	SEC/ Internship	VAC/ IKS	RP/ OJT	Total Credit per Sem.	Qualification /Certificate
4.5	Ι	8	4	4	2	2 (SEC)	2 (IKS)	-	22	
First Year	II	8	4	4	2	2 (SEC)	2 (VAC)	-	22	UG Certificate
1 <sup>st</sup> Year Credits	Total	16	8	8	4	4	4	-	44	
Exit 1: Interns NCrF c	Awaro ship in credit lo	d of UG core spo evel	certificate ecific NSQF	in Major cou 7 defined cou	irse wi rse OR	th 44 credits Continue w	with ad ith Majo	ditional r and I	4 credits Minor cou	of Summer urse for next
5.0	III	12	-	4	2	2 (SEC)	2 (IKS)	-	22	
Second Year	IV	12	4	-	2	2 (SEC)	2 (VAC)	-	22	UG Diploma
2 <sup>nd</sup> Year Credits	r Total	40	12	12	8	8	8	-	88	
Exit 2: Interns NCrF c	Awar ship in credit lo	d of UG core spo evel	Diploma in ecific NSQF	n Major cou 7 defined cou	rse wit rse OR	h 88 credits Continue w	with add ith Majo	ditional r and I	4 credits Minor cou	of Summer urse for next
5.5	V	12	8	-	-	2 (SEC)	-	-	22	
Year	VI	12	4	-	2	4 (Internship)	-	-	22	UG Degree
3 <sup>rd</sup> Year Credits	r Total	64	24	12	10	14	8	-	132	
Award with M	of UG lajor ar	Degree	in Major c r course for	ourse with 1. next NCrF c	32 cred redit le	lits and Intervel	rnship in	core d	iscipline (	OR continue
6.0	VII	12	4	-	-	-	-	6 (OJT)	22	UC
Year	VIII	12	4	-	-	-	-	6 (OJT)	22	Honours
4 <sup>th</sup> Year Credits	r Total	88	32	12	10	14	8	12	176	Degree
Award	of UG	Honour	s Degree in	Major course	e with t	otal 176 cred	lits			
60	VII	12	4	-	-	-	-	6 (RP)	22	UG Honours
0.0	VIII	12	4	-	-	-	-	6 (RP)	22	with Research
4 <sup>th</sup> Year Credits	r Total	88	32	12	10	14	8	12	176	Degree
Award of UG Honours with Research Degree in Major course with total 176 credits										

Based on above credit framework, calculation of credits in third and fourth years shall be as below:

Year	Major (Core) (Internship credits to be added)	Minor (Electives)	Multi/Inter disciplinary	AEC	SEC	VAC/ IKS	Research Project/ On-the-Job Training	Semester wise cumulative total credits
Third	64 + 4 (internship) = 68	24	12	10	10	8	-	132
Fourth	88 + 4 (internship) = 92	32	12	10	10	8	12	176

<u>Abbreviation:</u> AEC (Ability Enhancement Course); IKS (Indian Knowledge System); NCrF (National Credit Framework); NSS (National Service Scheme); NCC (National Cadet Corps); NSQF (National Skills Qualification Framework); OJT (On-the-Job Training); SEC (Skills Enhancement Course); RP (Research Project); VAC (Value Added Course), ODL (Open and Distance Learning

Type of Course	Credit	Credit	Credit
	3-Year Course Credit	4-Year Honours Without Research	4-Year HonoursWith Research
Major Course	64	88	88
Minor Course	24	32	32
Multi-disciplinary Course (MDC)	12	12	12
Ability Enhancement Course (AEC)	10	10	10
Indian Knowledge System (IKS) Value-added Course (VAC)	8	8	8
Skill Enhancement Course (SEC)	10	10	10
Internship	4	4	4
	132	164	164
On-the-Job Training (OJT)	-	12	-
Research Project (RP)	-	_	12
	132	176	176

# TABLE - 4Summary of Course Category and Credit

# **SEMESTER-1**

# BCA

# **SEMESTER-1**

# **LEVEL 4.5**

Program name	Code	Course name	CDEDIT
BCA-1	Minor		CKEDII
Level 4.5	Major-1	Problem solving methodologies and programming in c (theory)	4
	MAJOR-2	PROBLEM SOLVING METHODOLOGIES ANDPROGRAMMING IN C (Practical)	4
	MINOR-1	BASICS OF WEB PAGE DEVELOPMENT	4
	MDC-1	Computer fundamentals and emerging technology	4
	AEC-1	ENGLISH/HINDI/GUJARATI/SANSKRIT	2
	SEC-1	OFFICE AUTOMATION	2
	VAC-1	IKS	2

#### MAJOR-1

Name of Program	Name of course	Course Code	Total Teaching Hours	V	Veekly Credits		Total Credits	
BCA	Problem Solving Methodologies and Programming in C(Theory)	Major-1	Theory-60 Practical-0	Theory 4	Practical	0	4	
1 Hour Theory	1 Hour Theory = 1 Credit / 2 Hours Practical = 1 Credit							

#### **Objectives:**

- To develop basic programming skill
- To develop skill to implement logical aspects into practice
- To understand the code organization and functional decomposition of problem statement
- To gain understanding on memory managementand file concept.

#### **Outcomes:**

- Ability to define and manage data structures based on problem subject domain.
- Ability to work with textual information, characters and strings.
- Ability to work with arrays of complex objects.
- Understanding a concept of object thinking within the framework of functional model.
- Understanding a concept of functional hierarchical code organization.
- Understanding a defensive programming concept. Ability to handle possible errors during program
- Learn program formation and execution.

UNIT		Hours
1	Introduction of C Language	12
	<ul> <li>Introduction to Programming</li> </ul>	

	<ul> <li>Various Computer Languages</li> </ul>	
	<ul> <li>History &amp; Overview of C Language</li> </ul>	
	<ul> <li>Difference between traditional C and modern C</li> </ul>	
	C character set	
	- C tokons	
	- Crokens	
	$\circ$ Constants	
	• Strings	
	$\sim$ Identifiers and variables	
	$\circ$ Operators	
	<ul> <li>Operators &amp; Hierarchy of operators</li> </ul>	
	<ul> <li>Data types in c</li> </ul>	
	<ul> <li>Type casting &amp; Type Conversion</li> </ul>	
	<ul> <li>Pre – Processors in C</li> </ul>	
	Introduction To Logic Development Tools	
	<ul> <li>Introduction of Logic &amp; Basic of Algorithm.</li> </ul>	
	<ul> <li>Basics of Flow Chart</li> </ul>	
	<ul> <li>Dry-run and its Use.</li> </ul>	
	• Other Logic development techniques (Algorithm and Flowchart Based on	
2	Programming) Property & Looping	12
2	Decision structure	12
	• If statements(All Types)	
	• Switch statement	
	• Conditional ternary operator	
	<ul> <li>Looping Structures</li> </ul>	
	• For loop	
	• Dowhile loop	
	• While loop	
	• Nesting of loops	
	<ul> <li>Jumping statements</li> </ul>	
	• Break statement	
	• Continue statement	
	• Go to statement	
3	Library Functions	12
	<ul> <li>Introduction of Library Function</li> <li>Difference in the first state of the first state</li></ul>	
	<ul> <li>Brief overview of Header Files (stdio.n, conio.n, matn.n, string.n, stdib.n, ctype.n, graphic h. process h. dos h)</li> </ul>	
	Types of library functions	
	• String Function: strepy strepy streat strept streps stremp streps streps	
	strstr	
	• Mathematical Functions: ceil, div, exp, fabs, floor, fmod, log, pow, sqrt	

	• Date & Time Functions: clock, time, gmtime, localtime			
	• Graphics Functions:			
	initgraph,closegraph,arc,line,circle,ellipse,getx,putx,setcolor, setbkcolor			
	• <b>I/O Formatting Functions:</b> printf, scanf, getc, getchar, gets, putc, putchar, puts			
	• Miscellaneous Functions: delay, clrscr, isalnum, isalpha, is digit, islower,			
	isprint, isspace, isupper, toupper, tolower			
	• Standard Library functions: abs, exit, free, rand			
	• Memory Allocation Functions: malloc , realloc , calloc			
	User Define Functions (udf)			
	<ul> <li>Concept of User Define Function</li> </ul>			
	<ul> <li>Types of user defined functions</li> </ul>			
	<ul> <li>call by value &amp; call by reference</li> </ul>			
	<ul> <li>Nesting &amp; Recursion</li> </ul>			
	<ul> <li>Storage classes</li> </ul>			
	Arrow	12		
4	Concept of Array	12		
	- Types of allays			
	• Two dimensional array			
	• Multi-dimensional array			
	<ul> <li>String arrays</li> </ul>			
	<ul> <li>Array with functions using UDF</li> </ul>			
	<ul> <li>Use of Arrays in Programming</li> </ul>			
	Structures			
	Concept of Structure			
	<ul> <li>Initializations and declarations</li> </ul>			
	■ Array with structures			
	$\circ$ Array of Structure			
	• Array within structure			
	<ul> <li>Udf with structures</li> </ul>			
	<ul> <li>Nested structures</li> </ul>			
	<ul> <li>Introduction to union</li> </ul>			
	<ul> <li>Difference between Structure &amp; Union</li> </ul>			
5	Pointers	12		
5	<ul> <li>Concept of Pointers</li> </ul>	12		
	<ul> <li>Pointer to Variables</li> </ul>			
	<ul> <li>Pointer to Array</li> </ul>			
	Pointer within Array			
	- Deinter Willin Allay			
	Pointer 10 Structure			
	<ul> <li>Pointers within structure</li> </ul>			
	<ul> <li>Pointer to Pointer</li> </ul>			
	<ul> <li>Use of pointers in Dynamic Programming</li> </ul>			

#### File Handling

- Concept of data files
- Importance of file handling
- I/O Operation
- Command line arguments

Reference	Name	Author / Publication
Books: No.		
1	Programming in ANSI C	E. Balagurusami
2	Let Us C	Yashwant Kanetkar.
3	Working with C	Yashwant Kanetkar.
4	Programming in C	Schaum Series publication.

#### Web site References :

- https://www.tutorialspoint.com/cprogramming/index.htm
- http://www.eskimo.com/~scs/cclass/notes/top.html
- http://c-faq.com/
- http://www.learn-c.org/
- https://www.tutorialspoint.com/cprogramming/cprogramming\_tutorial.pdf
- https://www.w3schools.in/c-tutorial/
- https://www.javatpoint.com/c-programming-language-tutorial

#### **Evaluation Scheme and Distribution of marks**

Semester End Evaluation (SEE)	
External Assessment	
Total marks: 50	Time: 2.00 Hrs
Questions : From Unit	Marks
Question-1 : Questions from Unit-1 (Any Two out of Four)	10
Question-2 : Questions from Unit-2 (Any Two out of Four)	10
Question-3 : Questions from Unit-3 (Any Two out of Four)	10
Question-4 : Questions from Unit-4 (Any Two out of Four)	10
Question-5 : Questions from Unit-5 (Any Two out of Four)	10
Total	50
Passing Marks for External Examination: 18 Marks (36% of 50 Marks)	
Continuous & Comprehensive Evaluation (CCE)	
Internal Assessment	
Particulars	Marks
Mid-term Examination	25

Any 5 (five) components, each of 5 marks:	25
(Note: Select the components from the Annexure1, attached at the end of this syllabus.	
Total	50
Passing Marks for Internal Assessment: 18 (marks (36% of 50 marks)	

Annexure1:				
Scheme for Internal Assessment (As per SOP by the Government)				
For 4 (Four) Credit and 100-marks Course				
INTERNAL EVALUATION SCHEME				
Particulars	Marks			
Mid-Semester Examination (Mandatory)	25			
Any Five Components from the Following List:	25			
Class Test	05			
Open book exam/test	05			
Open note exam/test	05			
Self-test/ Online test	05			
Essay/Article writing	05			
Quizzes/Objective test	05			
Class assignment	05			
Home assignment	05			
Reports Writing	05			
Research/Dissertation	05			
Case Studies	05			
Viva/Oral exam	05			
Group Discussion	05			
Role Play	05			
Paper presentation/Seminar	05			
Language Lab work	05			
Interview	05			
Craft work	05			
Co-curricular work	05			
Field Assignment	05			
Poster Presentation	05			
Attendance	05			
Total	50			
Note: The student has to obtain 18 marks (36% marks out of total 50 marks) for passing the Internal Examination				

#### **MAJOR-2**

Name of	Name of course	Course	Total Teaching	Weel	kly Credits	Total	
Program		Code	Hours			Credits	
BCA	Problem Solving Methodologies and Programming in C(Practical)	Major-2	Theory-0 Practical-120	Theory 0	Practical 4	4	
1 Hour Theory = 1 Credit / 2 Hours Practical = 1 Credit							

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- Understanding a concept of functional hierarchical code organization.
- Understanding a defensive programming concept. Ability to handle possible errors during program
- Learn program formation and execution.

UNIT		Hours
1	LAB SESSION	24
	Introduction of C Language	
	<ul> <li>Introduction to Programming</li> </ul>	
	<ul> <li>Various Computer Languages</li> </ul>	
	<ul> <li>History &amp; Overview of C Language</li> </ul>	
	<ul> <li>Difference between traditional C and modern C</li> </ul>	
	<ul> <li>C character set</li> </ul>	
	<ul> <li>C tokens</li> </ul>	
	<ul> <li>Keywords</li> </ul>	
	• Constants	
	• Strings	
	<ul> <li>Identifiers and variables</li> </ul>	
	• Operators	
	<ul> <li>Operators &amp; Hierarchy of operators</li> </ul>	
	<ul> <li>Data types in c</li> </ul>	
	<ul> <li>Type casting &amp; Type Conversion</li> </ul>	

	<ul> <li>Pre – Processors in C</li> </ul>					
	Introduction To Logic Development Tools					
	Introduction of Logic & Basic of Algorithm.					
	Basics of Flow Chart					
	<ul> <li>Dry-run and its Use.</li> </ul>					
	• Other Logic development techniques (Algorithm and Flowchart Based on Programming)					
2	LAB SESSION	24				
	Branching & Looping	27				
	<ul> <li>Decision structure</li> </ul>					
	• If statements(All Types)					
	• Switch statement					
	$\circ$ Conditional ternary operator					
	<ul> <li>Looping Structures</li> </ul>					
	• For loop					
	$\circ$ Dowhile loop					
	• While loop					
	<ul> <li>Nesting of loops</li> </ul>					
	<ul> <li>Investing of loops</li> <li>Jumping statements</li> </ul>					
	$\circ$ Break statement					
	<ul> <li>Continue statement</li> </ul>					
		24				
3	LAB SESSION Librory Functions	24				
	Introduction of Library Function					
	<ul> <li>Brief everyiew of Header Files (etdia h. conic h. moth h. string h. stdlik h. string h.</li> </ul>					
	- Bher overview of Header Files (stato.n, como.n, math.n, string.n, statio.n, ctype.n, graphic.h, process.h, dos.h)					
	<ul> <li>Types of library functions</li> </ul>					
	• String Function: strcpy, strncpy, strcat, strncat, strchr, strcmp, strncmp, strlen,					
	strstr					
	• Mathematical Functions: ceil, div, exp, fabs, floor, fmod, log, pow, sqrt					
	• Date & Time Functions: clock, time, gmtime, localtime					
	• Graphics Functions:					
	initgraph,closegraph,arc,line,circle,ellipse,getx,putx,setcolor, setbkcolor					
	• <b>I/O Formatting Functions:</b> printi, scani, getc, getchar, gets, putc, putchar, puts					
	o Miscellaneous Functions: delay, clrscr, isainum, isaipna,isdigit, islower,					
	• Standard Library functions: abs exit free rand					
	<ul> <li>Memory Allocation Functions: malloc , realloc , calloc</li> </ul>					
	User Define Functions (ndf)					
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	<ul> <li>Nesting &amp; Recursion</li> </ul>			
	<ul> <li>Storage classes</li> </ul>			
4	LAB SESSION	24		
	Array			
	<ul> <li>Concept of Array</li> </ul>			
	<ul> <li>Types of arrays</li> </ul>			
	• Single dimensional array			
	<ul> <li>Two dimensional array</li> </ul>			
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	Pointers			
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	<ul> <li>Use of pointers in Dynamic Programming</li> </ul>			
	File Handling			
	<ul> <li>Concept of data files</li> </ul>			
	<ul> <li>Importance of file handling</li> </ul>			
	<ul> <li>I/O Operation</li> </ul>			
	Command line arguments			
1				

Reference	Name	Author / Publication	
Books: No.			
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2	Let Us C	Yashwant Kanetkar.	
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- https://www.tutorialspoint.com/cprogramming/index.htm
- http://www.eskimo.com/~scs/cclass/notes/top.html
- http://c-faq.com/
- http://www.learn-c.org/
- https://www.tutorialspoint.com/cprogramming/cprogramming\_tutorial.pdf
- https://www.w3schools.in/c-tutorial/
- https://www.javatpoint.com/c-programming-language-tutorial

#### **Evaluation scheme and distribution of marks**

Semester End Evaluation (SEE)	
External Assessment	
Total marks: 50	Time: 2.00 Hrs
	Marks
External practical examination and viva	50
Total	50
Passing Marks for External Examination: 18 Marks (36% of 50 Marks)	
Continuous & Comprehensive Evaluation (CCE)	
Internal Assessment	
Particulars	Marks
Mid-term practical Examination	25
Any 5 (five) components, each of 5 marks:	25
(Note: Select the components from the Annexure1, attached at the end of this syllabus.	
Total	50
Passing Marks for Internal Assessment: 18 (marks (36% of 50 marks)	

Annexure1:	
Scheme for Internal Assessment (As per SOP by the Government)	
For 4 (Four) Credit and 100-marks Course	
INTERNAL EVALUATION SCHEME	
Particulars	Marks
Mid-Semester Examination (Mandatory)	25
Any Five Components from the Following List:	25
Class Test	05
Open book exam/test	05

Open note exam/test	05	
Self-test/ Online test	05	
Essay/Article writing	05	
Quizzes/Objective test	05	
Class assignment	05	
Home assignment	05	
Reports Writing	05	
Research/Dissertation	05	
Case Studies	05	
Viva/Oral exam	05	
Group Discussion	05	
Role Play	05	
Paper presentation/Seminar	05	
Language Lab work	05	
Interview	05	
Craft work	05	
Co-curricular work	05	
Field Assignment	05	
Poster Presentation	05	
Attendance	05	
Total	50	
Note: The student has to obtain 18 marks (36% marks out of total 50 marks) for passing the Internal Examination		

#### MINOR-1

Name of Program	Name of course	Course Code	Total Teaching Hours	Weekly Credits		Total Credits	
BCA	Basics of web page development	Minor-1	Theory- 45 Practical-30	Theory credit 3	Practical credit 1	4	
1 Hour Theory = 1 Credit / 2 Hours Practical = 1 Credit							

#### **Objectives:**

- To gain insight into the usage of internet technology
- To give knowledge of Scripting languages like HTML, CSS and Java Script

#### **Outcomes:**

- Ability to create static and dynamic web pages using basic HTML
- Ability to create web pages with standardized designing elements
- Developing skill to create front end design of web page

UNIT		Hours
1	Basic of HTML	12
	<ul> <li>Fundamental of HTML</li> </ul>	
	<ul> <li>Basic Tag and Attribute</li> </ul>	
	<ul> <li>The Formatting Tags</li> </ul>	
	<ul> <li>The List Tags &amp; Link Tag</li> </ul>	
	<ul> <li>inserting special characters,</li> </ul>	
	<ul> <li>adding images and Sound,</li> </ul>	
	Table & Frame in HTML	
	<ul> <li>Forms</li> </ul>	
2	Advance HTML 5	11
	• HTML 5 Document Structure & Syntax (section, article, aside,	
	header, footer, nav, dialog)	
	• Attributes of HTML 5	
	• Web Form ( datetime, date, month, week, time, number,	
	Audio / Video	
3	Cascading Style Sheet & CSS 3	11
	<ul> <li>Introduction to CSS</li> </ul>	
	<ul> <li>Types of Style Sheets</li> </ul>	
	<ul> <li>Class, ID Selector</li> </ul>	
	<ul> <li>CSS Text &amp; Font Properties</li> </ul>	
	<ul> <li>CSS Background Properties</li> </ul>	
	<ul> <li>CSS List Properties</li> </ul>	
	<ul> <li>CSS Margin &amp; Padding Properties</li> </ul>	
	<ul> <li>CSS Comments</li> </ul>	
	• CSS 3	
	o Border Property	
	o Background & Gradient Property	
	o Drop Shadow Property	
	o 2D & 3D Transform Property	
	o Transition Property	

4	Java Script	11
	<ul> <li>Introduction to JavaScript</li> </ul>	
	<ul> <li>Variables</li> </ul>	
	<ul> <li>JavaScript Operators</li> </ul>	
	<ul> <li>Conditional Statements</li> </ul>	
	<ul> <li>JavaScript Loops</li> </ul>	
	<ul> <li>JavaScript Break and Continue Statements</li> </ul>	
	<ul> <li>Dialog Boxes</li> </ul>	
	<ul> <li>JavaScript User Define Function          Built in Function (string, Maths, Array, Date )     </li> </ul>	
	<ul> <li>Events :onclick, ondblclick, onmouseover, onmouseout, onkeypress, onkeyup, onfocus, onblur, onload, onchange, onsubmit, onreset</li> </ul>	
	<ul> <li>Form Validation &amp; E-mail Validation</li> </ul>	
PRACTICAL	PRACTICAL & VIVA	30
	• Practical exercises based on concepts from unit -1 to 4	

Reference	Name	Author / Publication
Books: No.		
1	HTML in 10 steps or less	Laurie Ann Ulrich, Robert G. Fuller
2	World Wide Web Design with Html	C Xavier.
3	Practical Html 4.0	Lee Philips.
4	Mastering In FrontPage	BPB

#### Web site References:

- https://www.javatpoint.com/html-tutorial
- https://www.tutorialspoint.com/html/index.htm
- https://www.w3schools.com/html/ https://www.csstutorial.net
- •

# **Evaluation Scheme and Distribution of marks**

Semester End Evaluation (SEE)	
External Assessment	
Total marks: 50	Time:
2.00 Hrs	
Questions : From Unit	Marks
Question-1 : Questions from Unit-1 (Any Two out of Four)	10
Question-2 : Questions from Unit-2 (Any Two out of Four)	10
Question-3 : Questions from Unit-3 (Any Two out of Four)	10
Question-4 : Questions from Unit-4 (Any Two out of Four)	10
Question-5 : Questions from Unit-1 to 4 (Any Two out of Four)	10
Total	50

Passing Marks for External Examination: 18 Marks (36% of 50 Marks)		
Continuous & Comprehensive Evaluation (CCE)		
Internal Assessment		
Particulars	Marks	
Mid-term Examination (Internal Practical Examination)	25	
Any 5 (five) components, each of 5 marks:	25	
(Note: Select the components from the Annexure1, attached at the end of this syllabus.		
Total	50	
Passing Marks for Internal Assessment: 18 (marks (36% of 50 marks)		

**Total Passing Marks:** The student shall obtain minimum **36 marks** (minimum 18 marks from Internal Assessment **Plus** minimum 18 marks from External Examination) out of **total 100** marks to pass course

# Annexure1:

Scheme for Internal Assessment (As per SOP by the Government)

### For 4 (Four) Credit and 100-marks Course

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Particulars	Marks
Mid-Semester Examination (Mandatory)	25
Any Five Components from the Following List:	25
Class Test	05
Open book exam/test	05
Open note exam/test	05
Self-test/ Online test	05
Essay/Article writing	05
Quizzes/Objective test	05
Class assignment	05
Home assignment	05
Reports Writing	05
Research/Dissertation	05
Case Studies	05
Viva/Oral exam	05
Group Discussion	05
Role Play	05
Paper presentation/Seminar	05
Language Lab work	05
Interview	05
Craft work	05
Co-curricular work	05
Field Assignment	05

Poster Presentation	05
Attendance	05
Total	50

**Note:** The student has to obtain 18 marks (36% marks out of total 50 marks) for passing the Internal Examination

### IDC/MDC - 1

Name of Program	Name of course	Course Code	Total Teaching Hours	Weekly Credits	Total Credits
BCA	Computer Fundamentals & emerging technology	IDC/MDC- 1	Theory-60	Theory 4 credit	4
1 Hour Theory = 1 Credit / 2 Hours Practical = 1 Credit					

#### **Objective:**

- To gain knowledge on history and basic concepts of computers
- To know various parts and devices of computers
- To know concepts of various memory management devices
- To understand numbering systems and conversion
- To gain insight on new and emerging technologies

#### **Outcomes:**

- Gain understanding on the fundamentals of computer system
- Gain insight into basics of computers, their parts and various peripherals
- Gain awareness on new and emerging technologies
- Ability to understand various numbering systems and implement conversion among them

UNIT		Hours
1	Introduction of Computers	12
	<ul> <li>Basics of Computers</li> </ul>	
	• What is Computer?	
	<ul> <li>Characteristics of Computer</li> </ul>	
	$\circ$ Data Processing Cycle(Data $\rightarrow$ Process $\rightarrow$ information)	
	<ul> <li>Classification of Computer by Data Processed</li> </ul>	
	<ul> <li>Analog, Digital and Hybrid Computers</li> </ul>	
	<ul> <li>History and Generations of Computers</li> </ul>	
	<ul> <li>First to Fifth Generation Computers</li> </ul>	
	<ul> <li>Classification of Computer by Processing Capabilities</li> </ul>	
	<ul> <li>Micro, Mini, Mainframe and Super Computers</li> </ul>	
	<ul> <li>History and Generations of Computers .</li> </ul>	
	<ul> <li>First to Fifth Generation Computers</li> </ul>	

	-	Simple Model of Computer	
	-		
		O mput Devices	
		• CPU (Central Processing Unit)	
		• Arithmetic & Logic Unit	
		• Control Unit	
		<ul> <li>Internal Memory</li> </ul>	
	•	Output Devices	
	•	Secondary Storage Devices	
	Intern	al/External parts used with Computer Cabinet	
	•	Introduction to Mother board	
	•	Types of Processors .	
		• Dual Core, Core 2 Duo, i2, i3, etc	
	•	Memory structure and Types of Memory	
		• RAM (SRAM, DRAM, DDR.)	
		• ROM (ROM, PROM, EPROM, EEPROM, Cache)	
	•	Slots	
		<ul> <li>ISA Slots / PCI Slots / Memory Slots/SATA</li> </ul>	
	•	Sockets	
	•	Cables	
		<ul> <li>Serial Cable / Parallel Cable / USB Cable/HDMI</li> </ul>	
	•	Ports	
		• USB (2.0 & 3.0)/ Serial / Parellel	
	•	Power Devices :UPS	
		Graphic Cards	
	•	Network card, Sound Card	
2	Input	Devices	12
	•	Introduction	
	•	Types of Input Devices	
		• Keyboard / Mouse / Trackball / Glide – Pad / Game Devices	
		Joystick, etc.) / Light Pen	
		/ Touch Screen / Mic (Sound Input) / Camera (Photo and Video	
		Input) / POS (Point of Sale) Terminal (Scanners, etc)	
		• MIDI(Musical Instrument Digital Interface) Keyboard, o	
	-	Wireless Devices (Reyboard, Mouse, etc)	
	-	<ul> <li>OMR, MICR, OBR</li> </ul>	
	Outpu	ıt Devices	
	•	Introduction	
	•	Types of Output Devices	
	•	Types of Monitors	
		• CRT Display Units	
		o LCD	
		• LED	

	o OLED	
	<ul> <li>Types of Printers</li> </ul>	
	• Impact (Dot Matrix Printer Daisy Wheel Printer)	
	<ul> <li>Non Impact (Ink Let Printer Laser Printer)</li> </ul>	
	<ul> <li>Plotters</li> </ul>	
	<ul> <li>Flotters</li> <li>Other Devices</li> </ul>	
	• Other Devices	
	• Fascimile(FAX) • Headphone	
	• SGD (Speech Generating Device)	
	<ul> <li>COM (Computer Output Microfilm)</li> </ul>	
	<ul> <li>Google Glass</li> </ul>	
3	<ul> <li>Data Storage</li> </ul>	12
	<ul> <li>Introduction</li> </ul>	
	<ul> <li>Types of Magnetic Storage Devices</li> </ul>	
	<ul> <li>Floppy Disk / Hard Disk / Magnetic Tape / Magnetic Disks</li> </ul>	
	<ul> <li>Storage Mechanism of Magnetic Storage Devices</li> </ul>	
	• Tracks / Sectors / Clusters / Cylinders	
	<ul> <li>Reading / Writing Data to and from Storage Devices</li> </ul>	
	<ul> <li>Seek Time / Rotational Delay - Latency / Access</li> </ul>	
	<ul> <li>Time / Response Time</li> </ul>	
	Other Storage Devices	
	- USD Devices	
	O USB - Pell Dilve/CD/DVD/Blu-Rav Disk. Flash Melliory,	
	Cloud Storage(Like Google	10
4	Numbering System and Codes	12
	<ul> <li>Introduction to Binary Codes /</li> </ul>	
	<ul> <li>Nibble / Bit / Byte / Carry Bit / Parity Bit / Sign Bit</li> </ul>	
	$\circ$ KB / MB / GB / TB / HB (etc	
	<ul> <li>Types of Numbering System</li> </ul>	
	• Binary / Octal/Decimal / Hex-Decimal	
	Conversion	
	• Binary to Octal, Decimal and Hexa-Decimal	
	• Decimal to Binary, Octal and Hexa-Decimal	
	<ul> <li>Octal to Binary, Decimal and Hexa-Decimal</li> </ul>	
	<ul> <li>Hexa-Decimal to Binary, Octal and Decimal</li> </ul>	
	<ul> <li>Binary Arithmetic</li> </ul>	
	• Addition	
	• Subtraction (1's Compliment and 2's Compliment)	
	• Division . • Multiplication	
	• Types of Codes	
	• ASCII/BCD / EBCDIC / UniCode	
	<ul> <li>Parity Check</li> </ul>	
	<ul> <li>Event Parity System / Odd Parity System</li> </ul>	
	Languages, Operating Systems and Software Packages	
	<ul> <li>Introduction</li> </ul>	
	<ul> <li>Translator (Assembler / Compiler / Interpreter)</li> </ul>	
	<ul> <li>Types of Languages</li> </ul>	
	• Machine Level Language	
	• Assembly Level Language	
	• High Level Language (3GL, 4GL, 5GL, etc.)	

	<ul> <li>Types of Operating Systems</li> </ul>	
	<ul> <li>Batch Operating System</li> </ul>	
	<ul> <li>Multi Processing Operating System</li> </ul>	
	<ul> <li>Time Sharing Operating System</li> </ul>	
	<ul> <li>Online and Real Time Operating System</li> </ul>	
	<ul> <li>Uses and applications of Software Packages</li> </ul>	
	<ul> <li>Word Processing Packages</li> </ul>	
	<ul> <li>Spread Sheet Packages</li> </ul>	
	<ul> <li>Graphical Packages</li> </ul>	
	<ul> <li>Database Packages I</li> </ul>	
	<ul> <li>Presentation Packages</li> </ul>	
	<ul> <li>Animation / Video / Sound Packages</li> </ul>	
5	Emerging Technologies and Virus	12
	<ul> <li>Different Communication methods</li> </ul>	
	<ul> <li>GIS / GPS / COMA / GSM/ VOLTE</li> </ul>	
	<ul> <li>Communication Devices</li> </ul>	
	<ul> <li>Cell Phones / Modem / Infrared / Bluetooth / WiFi / LiFi</li> </ul>	
	<ul> <li>Virus</li> </ul>	
	<ul> <li>ontroduction to Virus and related terms</li> </ul>	
	<ul> <li>Origin and History</li> </ul>	
	• Types of Virus	
	<ul> <li>Problems and Protection from Virus</li> </ul>	
	<ul> <li>Cloud Computing</li> </ul>	
	• What is Cloud Computing?	
	<ul> <li>Characteristic &amp; Service Models(Iaas, Paas, Saas)</li> </ul>	
	• Architecture	
	<ul> <li>Security &amp; Privacy</li> </ul>	

#### **Reference Books:**

No.	Name	Author / Publication
1	Computer Fundamentals	By P.K.Sinha
2	Fundamental of IT for BCA	By S.Jaiswal
3	Engineering Physics	By V.K.Gaur
4	Teach Yourself Assembler	By Goodwin.

#### Web site References :

- https://www.javatpoint.com/computer-fundamentals-tutorial
- https://www.tutorialspoint.com/computer\_fundamentals/index.htm
- https://www.tutorialspoint.com/computer\_fundamentals/computer\_fundamentals\_tutorial.pdf
- http://www.kvadilabad.org/admin/downloads/1788662251computer\_fundamentals\_tutorial.pdf

#### **Evaluation Scheme and Distribution of marks**

Semester End Evaluation (SEE)	
External Assessment	
Total marks: 50	<b>Time: 2.00 Hrs</b>
Questions : From Unit	Marks
Question-1 : Questions from Unit-1 (Any Two out of Four)	10

Question-2 : Questions from Unit-2 (Any Two out of Four)	10
Question-3 : Questions from Unit-3 (Any Two out of Four)	10
Question-4 : Questions from Unit-4 (Any Two out of Four)	10
Question-5 : Questions from Unit-5 (Any Two out of Four)	10
Total	50
Passing Marks for External Examination: 18 Marks (36% of 50 Marks)	
Continuous & Comprehensive Evaluation (CCE)	
Continuous & Comprehensive Evaluation (CCE) Internal Assessment	
Continuous & Comprehensive Evaluation (CCE) Internal Assessment Particulars	Marks
Continuous & Comprehensive Evaluation (CCE) Internal Assessment Particulars Mid-term Examination	Marks 25
Continuous & Comprehensive Evaluation (CCE)         Internal Assessment       Particulars         Mid-term Examination       Any 5 (five) components, each of 5 marks:	Marks           25           25
Continuous & Comprehensive Evaluation (CCE)         Internal Assessment         Particulars         Mid-term Examination         Any 5 (five) components, each of 5 marks:         (Note: Select the components from the Annexure1, attached at the end of this syllabus.	Marks           25           25
Continuous & Comprehensive Evaluation (CCE)         Internal Assessment         Particulars         Mid-term Examination         Any 5 (five) components, each of 5 marks:         (Note: Select the components from the Annexure1, attached at the end of this syllabus.         Total	Marks           25           25           25           50

**Total Passing Marks:** The student shall obtain minimum **36 marks** (minimum 18 marks from Internal Assessment **Plus** minimum 18 marks from External Examination) out of **total 100** marks to pass course

### Annexure1:

Scheme for Internal Assessment (As per SOP by the Government)

# For 4 (Four) Credit and 100-marks Course

# **INTERNAL EVALUATION SCHEME**

Particulars	Marks
Mid-Semester Examination (Mandatory)	25
Any Five Components from the Following List:	25
Class Test	05
Open book exam/test	05
Open note exam/test	05
Self-test/ Online test	05
Essay/Article writing	05
Quizzes/Objective test	05
Class assignment	05
Home assignment	05
Reports Writing	05
Research/Dissertation	05
Case Studies	05
Viva/Oral exam	05
Group Discussion	05
Role Play	05
Paper presentation/Seminar	05

	Language Lab work	05
	Interview	05
	Craft work	05
	Co-curricular work	05
	Field Assignment	05
	Poster Presentation	05
	Attendance	05
	Total	50
<b>Note:</b> The student has to obtain 18 marks (36% marks out of total 50 marks) for passing the Internal Examination		

#### SEC-1

Name of Program	Name of Course	Course Code	Total Teaching Hours	Weekly Credits		Total Credits	
BCA	Office Automation	SEC -1	Theory-15 Practical-30	Theory Credits 1	Practical Credit 1	2	
1 Hour Theory = 1 Credit / 2 Hours Practical = 1 Credit							

#### **Course Objectives**

- Acquire confidence in using computers in Office and General Life.
- Understand file management.
- Create documents using word processor, spreadsheet & presentation software.

#### **Course Outcomes:**

- WellacquaintedwithOperatingSystemanditsapplicationsforbothdesktopand Laptop.
- Abletoidentifyvariousdesktopscreen componentsand modify variousproperties, date, timeetc.
- Abletoaddandremove new program andfeatures, managefiles and folders.
- Wellversedwithprintingandknowvarioustypesoffile extensions.
- Gaining Knowledge of WordProcessing,theusage,detailsofwordprocessingscreen.
- After completion of MsExcel, Students will have Knowledge of Spreadsheet Processing, their usage, details of Spreadsheet screen in depth.

Units	Title of the Unit and the Topics	No. of Lecture
		S

Unit 1	WORDPROCESSING & BASICS OF SPREADSHEET	8
	WORDPROCESSING	
	Introduction	
	Objective	
	WordProcessingBasics	
	<ul> <li>Opening wordProcessingPackage</li> <li>TitleBar,MenuBar,Toolbars&amp;Sidebar</li> </ul>	
	CreatingaNewDocument	
	OpeningandClosingDocuments	
	• OpeningDocuments	
	• SaveandSaveAs	
	ClosingDocument	
	• UsingTheHelp	
	• PageSetup	
	PrintPreview	
	<ul> <li>Printing of Documents</li> <li>DDE file and Savinga Document as DD Efile</li> </ul>	
	• PDF me and Savinga Document as PD Fine	
	TextCreationandmanipulation	
	DocumentCreation	
	• EditingText	
	• TextSelection	
	• Cut,CopyandPaste	
	• Font,Color,StyleandSizeselection	
	• Alignmentol l ext	
	<ul> <li>Ondo &amp; Redo</li> <li>Auto Correct Spelling &amp; Grammar</li> </ul>	
	<ul> <li>Find and Replace</li> </ul>	
	FormattingtheText	
	• ParagraphIndentation	
	• BulletsandNumbering	
	• Changecase	
	• Header&Footer	
	TableManipulation	
	• Insert&DrawTable	
	Changingcellwidthandheight	
	• AlignmentofTextincell	
	<ul> <li>Delete/InsertionofRow,ColumnandMerging&amp;SplittingofCellsBorderandShadi</li> </ul>	
	ng	
	BASICS OF SPREADSHEFT	
	Introduction	
	Objectives	
	ElementsofSpreadSheet	
	CreatingofSpreadSheet	
	Concept of Cell Address [Row and Column]andselectinga Cell	
	• Entering Data[text,number,dateinCells	
	Page Setup	
	Printing of Sheet	
	Saving Spreadsheet	
	OpeningandClosing	

ADVANCED SPREADSHEET MANAGEMENT         ManipulationofCells&Sheet         • Modifying/EditingCellContent         • Formating Cell(Font,Alignment,Style)         • ChangingCellHeight andWildh         • InsertingandDeletingRows,Column         • AutoFill         • Sorting Filtering         • Freezing panes         Formulas,FunctionsandCharts         • UsingFormulasforNumbers(Addition,Subtraction,Multiplication&Division, IF)         • AutoSum         • Functions(Sum,Count,MAX,MIN,AVERAGE)         Charts(Bar,Pie,Line)         PRESENTATION         Introduction         Objectives         Creating a Presentation         • Creating a Presentation         • Creating a Presentation         • Inserting and Deleting Slides in a Presentation         • Inserting and Deleting alloses         • Inserting and Deleting alloses         • Inserting and Scaling an Object         • Creating & Slide Show         • TransitionandSlide Show	Unit 2.	ADVANCED SPREADSHEET MANAGEMENT & PRESENTATION	7
Printing and Diolectiss Scheet         • Modifying/ EditingCellContent         • Formatting Cell(Font, Alignment, Style)         • Cut, Copy, Paste & PasteSpecial         • ChangingCellHeight andWidh         • Inserting andDeletingRows, Column         • AutoFII         • Sorting Filtering         • Freezing panes         Formulas, FunctionsandCharts         • UsingFormulasforNumbers(Addition, Subtraction, Multiplication & Division, IF)         • AutoSum         • Functions(Sum, Count, MAX, MIN, AVERAGE)         Charts(Bar, Pie, Line) <b>PRESENTATION</b> Inroduction         Objectives         Creating a Blank Presentation         • Inserting a Blank Presentation         • Inserting a Presentation         • Inserting a Presentation         • Inserting a Presentation         • Inserting a Blank Presentation         Manipulating Slides         • Inserting Table         • Adding Clip Art Pictures         • Inserting and Scaling an Object         • Creating & using Master Slide         Presentation of Slides         • Inserting & Slide Show         • TransitionandSlideTimings         • Automating a Slide Show         • TransitionandSlideTimings		ADVANCED SPREADSHEET MANAGEMENT	
<ul> <li>Formating Cell/Cont.Alignment.Style)</li> <li>Cut.Copy, Paste&amp; PasteSpecial</li> <li>Charging/CellHeight andWidh</li> <li>Inserting CellHeight andWidh</li> <li>Inserting Formulas/ForNumbers(Addition,Subtraction,Multiplication&amp;Division, IF)</li> <li>AutoSum</li> <li>Formatas,FunctionsandCharts</li> <li>Using Formulas/forNumbers(Addition,Subtraction,Multiplication&amp;Division, IF)</li> <li>AutoSum</li> <li>Functions(Sum,Count,MAX,MIN,AVERAGE)</li> <li>Charts(Bar,Pie,Line)</li> <li>PRESENTATION</li> <li>Introduction</li> <li>Objectives</li> <li>Creating a Blank Presentation</li> <li>Creating a Blank Presentation</li> <li>Inserting and Deleting Slides in a Presentation</li> <li>Inserting and Deleting Slides in a Presentation</li> <li>Manipulating Slides</li> <li>Inserting and Deleting an Object</li> <li>Creating and Scaling an Object</li> <li>Creating a Slide Show</li> <li>TransitionandSlideTimings</li> <li>Autonating a Slide Show</li> <li>TransitionandSlideTimings</li> <li>Autonating a Slide Show</li> <li>Providing A esthetics to Slides &amp; Printing</li> <li>Enhancing Text Presentation</li> <li>Working With Color and Line Style</li> <li>Adding Movie and Sound</li> <li>Adding Movie and Sou</li></ul>		MainpulationorCensesSheet	
<ul> <li>Portitating Cellfront, Style)</li> <li>Cut, Copy, Paste&amp; PasteSpecial</li> <li>ChangingCellHeight andWidth</li> <li>Inserting andDeletingRows, Column</li> <li>AutoFill</li> <li>Sorting Filtering</li> <li>Freezing panes</li> <li>Formulas, Functions and Charts</li> <li>UsingFormulasforNumbers(Addition, Subtraction, Multiplication&amp;Division, IF)</li> <li>AutoSum</li> <li>Functions(Sum, Count, MAX, MIN, A VERAGE)</li> <li>Charts(Bar, Pie, Line)</li> <li>PRESENTATION</li> <li>Introduction</li> <li>Objectives</li> <li>Creating a Presentation Using a Template</li> <li>Creating and Presentation</li> <li>Inserting and Deleting Slides in a Presentation</li> <li>Saving a Presentation</li> <li>Inserting and Deleting Slides in a Presentation</li> <li>Manipulating Slides</li> <li>Inserting Table</li> <li>Adding Clip Art Pictures</li> <li>Resizing and Scaling an Object</li> <li>Creating &amp; Busing Master Slide</li> <li>Presentation of Slides</li> <li>Choosing a SetUp for Presentation</li> <li>Running a Slide Show</li> <li>TransitionandSlideTimings</li> <li>Automating a Slide Show</li> <li>Provinding a Slide Show</li> <li>TransitionandSlideTimings</li> <li>Automating a Slide Show</li> <li>Pravisition and Sound</li> <li>Adding Movie and Sound</li> <li>Practical exercises based on unit -1 to 2</li> </ul>		• Modifying/ EditingCentContent	
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Practical exercises based on unit -1 to 2	1	LAB SESSIONS	
		Practical exercises based on unit -1 to 2	

#### **Reference Books:**

No.	Name	Author / Publication
1	Microsoft Office for Beginners	By M. L. Humphrey
2	Microsoft Office 2019 Beginner	By M. L. Humphrey
3	Mastering MS Office	By Bittu Kumar

4	Microsoft Office Training Guide	By Prof. Satish Jain M. Geetha Kratika, BPB Publications
5	Working in Microsoft Office	By Ron Mansfield
6	Windows 10 Step By Step	By Joan Lambert
7	Windows 10 Inside Out	By Ed Bott and Craig Stinson

#### Website References:

- https://edu.gcfglobal.org/en/subjects/office/#
- https://www.customguide.com/training/
- https://www.guru99.com/free-microsoft-courses-certifications.html
- https://alison.com/tag/microsoft-office
- https://www.makeuseof.com/tag/microsoft-office-tutorials-courses/
- https://www.udemy.com/topic/microsoft-word/free/
- https://www.w3schools.com/excel/index.php

#### **Evaluation Scheme and Distribution of marks**

External Assessment	
Total marks: 25 Tim	e: 1.00 Hrs
Questions : From Unit	Marks
Question-1 : Questions from Unit-1 (Any Two out of Four)	10
Question-2 : Questions from Unit-2 (Any Two out of Four)	10
Question-3 : Questions from Unit-1 to 2 (Any One out of two)	05
Total	25
Passing Marks for External Examination: 9 Marks (36% of 25 Marks)	
Continuous & Comprehensive Evaluation (CCE) Internal Assessment	
Particulars	Marks
Mid-term Examination (Internal Practical Examination)	13
Any 4 (five) components, each of 3 marks:	12
(Note: Select the components from the Annexure-2, attached at the end of this syllabus.	
Total	25

Passing Marks for Internal Assessment: 9 (marks (36% of 25 marks)

Annexure-2:				
Scheme for Internal Assessment (As per SOP by the Government)				
For 2 (Four) Credit and 50-marks Course				
INTERNAL EVALUATION SCHEME				
	Particulars	Marks		
	Mid-Semester Examination (Mandatory)	13		

Any Five Components from the Following List:	12
Class Test	03
Open book exam/test	03
Open note exam/test	03
Self-test/ Online test	03
Essay/Article writing	03
Quizzes/Objective test	03
Class assignment	03
Home assignment	03
Reports Writing	03
Research/Dissertation	03
Case Studies	03
Viva/Oral exam	03
Group Discussion	03
Role Play	03
Paper presentation/Seminar	03
Language Lab work	03
Interview	03
Craft work	03
Co-curricular work	03
Field Assignment	03
Poster Presentation	03
Attendance	03
Total	03