

## B.COM. SEMESTER – 6

7	<b>Elective - 4</b>	<b>Computer Science – 6 (Business Application Development Using Visual Basic)</b>
---	---------------------	---

Name of the Course:	<b>Computer Science – 6 (Business Application Development Using Visual Basic)</b>
Course credit:	05
Teaching Hours:	Theory: 45 (Hours) + Practical: 60 (Hours)
Total marks:	100
Distribution of Marks:	50 Marks semester end theory examination 30 Marks semester end practical examination 20 Marks Internal assessments of theory (Unit:1 to 4) (CCA)

### Objectives:

To impart information technology related skills to the students

### Unit No. 1 to 4 -> Theory of 70 Marks and Unit No. 5 -> Practical of 30 Marks

Unit	Content	No. of Lectures
1	<b>WORKING WITH DATA AND OUTPUT SELECTION CONDITIONS:</b> Variables, Data Types, Declaring Variables, Scope of Variables, Constants, Arithmetic operations on Data, Displaying What is Selection? Type of selection, testing multiple nested IF structures, Complex multiple condition, Select Case, Extensions to select a case	12
2	<b>LOOPS, HANDLING STRINGS, DATES HANDLING AND TIME WITH:</b> What is a Loop?, Type of Loops - FOR... NEXT, DO WHILE...LOOP, DO... LOOP UNTIL Introduction, Declaring Strings, ASCII, Processing Strings, Dates, Formatting Date output, Handling Time, Calculations Time and Date	11
3	<b>PROCEDURES AND ARRAYS :</b> What is a Procedure? Types of Procedures, Why use Procedure? Passing Parameters, Practical work on using the correct formal parameters, Functions, Form and Standard Modules. What is an Array?, How to declare an Array?, Static and dynamic arrays, Processing an Array, Passing Arrays to Procedures, Two Dimensional Arrays, Control Arrays.	11
4	<b>FILES AND MENUS :</b> What is a File? Types of Files(concept), Basic file operations like read, write, append (Sequential file only) Introduction, Type of Menus, Features of menu	11
5	<b>PRACTICAL:</b> (Practical Exercise of Unit 1 To 4)	60
<b>Total Lectures</b>		<b>45 + 60</b>



### Theory Question Paper Style:

UNIVERSITY EXAMINATION		
Sr. No.	Particulars	Marks
1	QUESTION - 1 (From Unit 1) <b>(OR)</b> QUESTION - 1 (From Unit 1)	14
2	QUESTION - 2 (From Unit 2) <b>(OR)</b> QUESTION - 2 (From Unit 2)	12
3	QUESTION - 3 (From Unit 3) <b>(OR)</b> QUESTION - 3 (From Unit 3)	12
4	QUESTION - 4 (From Unit 4) <b>(OR)</b> QUESTION - 4 (From Unit 4)	12
	<b>Total Marks for Regular Students</b>	<b>50</b>

#### Credit:

- 1 lecture = 1 hour = 1 credit and 2 practical = 2 hours = 1 credit
- Total 45 hours of theory teaching work per semester and additional 60 hours of practical per semester.
- Theory 3 Hours/week = 3 credits and additional practical 4 hours/week = 2 credits. Total credit is 5.

#### Examination:

- Theory Examination - Total marks 70 (50 marks of university examination and 20 marks of internal). University examination: 2 Hours
- Practical Examination - Total Marks 30 (No Internal Marks). University Examination: 2 Hours

#### Passing Standard:

- Student must obtain minimum 40% marks in theory and practical both
- Theory: Minimum 40% (minimum 20 marks in University examination and minimum 8 marks in internal)

Practical: Minimum 40% (Minimum 12 marks in University examination)

#### Suggested Readings and Reference Books:

1. Successful Projects in Visual Basic - D. Christopher - BPB
2. Mastering in Visual Basic - BPB
3. Programming in Visual Basic (Peter Norton)

**Note: Latest Editions of the above books may be used.**

