

BA 6 <sup>th</sup> Semester		Visual Programming Lab	
Subject Code :	16AF92/8	Total Teaching Hours :	39
IA Marks :	10	Teaching Hours/Week :	03
Exam Marks :	40	Examination Hours :	03
Credits:	3		

1. Write a Visual Basic application that displays an appropriate form title and asks the user for his first and last names in two separate text boxes. Add a command button that terminates the program when the user clicks the command button or press the command button's hotkey or press Esc.
2. Create an application with Five command button. Reverse the focus order so that when you run application and press the Tab key several times, the focus order flows upward through the command buttons.
3. Write codes that declare these variables : your first name, your last name, your age, your tax rate and whether you are married or not.
4. Write an application that accepts your age in a text box and then displays, when you click a command button, your age in dog years (your age divided by 7). Don't worry about rounding that might takes place.
5. Start Visual Basic and select various options from the View window. You will see several new windows open. Look through the menu option and click on any scrollbars you see. Dont save anything when prompted. Double-click over tools on the toolbox to see different tools appear on the Form window. Move the tools away from the center of the window to see more of them at one time. As you click on different tools in the Form properties.
6. Run the VB application wizard once again and this time, test other features by including more objects (such as the Internet and database access if your disk drive contains a database file some where that you can locate when the wizard asks for the location) and selecting different options. Run the generated shell to see how differently the wizard's generated shell applications can act.
7. Save the project and form module so you can modify the application later if you want to do so.
8. Load the project you created in the previous exercise and add tool tips to the two labels and to the command button. Run the application and test the tool tips to see if they work.
9. Write 3 remarks for the top of a program that calculates Sales Tax. The 1st remark should hold your name, 2nd should hold the date that you write the re-mark and 3rd should span at least two lines and should describe the purpose of the program.
10. Write an I/P box that asks user for their ages. Display a default value of 25.
11. Write a program that contains a text box and a command button. Put a label above the text box that tells the user to type a number from 1 to 10 inside the text box. When the user clicks the command button check the text box for a valid number and issue an error message box if the number is not inside the expected range. If the user entered a valid number, beep the Computer's speaker the number of times entered in the text box using a For loop.
12. Change this lesson's applications form properties so the user cannot resize the form. Search through the form properties until you find the property that will do this.

**Marks Distribution:**

Exam	Marks
Practical Proper	40
Report	10
<b>Total</b>	<b>50</b>

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Computer Science Syllabus for BA

BA 6 <sup>th</sup> Semester		Visual Programming	
Subject Code :	16AF92/8	Total Teaching Hours :	52
IA Marks :	20	Teaching Hours/Week :	03
Exam Marks :	80	Examination Hours :	03
Credits:	4		

1. **Introduction:** Integrated Development Environment, VB Editor, Creating Applet. 8 Hrs
2. **Working with Forms:** Object, properties, event methods, working with multiple document interface forms including events of mouse. 10 Hrs.
3. **Controls:** Properties, event and methods of different controls. **Creating:** Code modules, procedures, methods, functions including menus & toolbars. 10 Hrs
4. **Working with variables,** arrays and constants, Database tables, & database queries, dialog and message boxes. 10 Hrs
5. **OOP:** Methods & properties of an object, Inheritance, Encapsulation, Polymorphism characteristics. 10 Hrs
6. **Dynamic link libraries** and Windows API, Help files. 4 Hrs.

References:

1. Pertoutson, Mastering Visual Basic: BPB Publications, New Delhi (1997).
2. S.Brown, Visual Basic 5, BPB Publication, New Delhi (1997)
3. Getz, VB A Developer's Handbook: BPB Publication, New Delhi (1997).

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## Computer Science Syllabus for BA

BA 6 <sup>th</sup> Semester		Internet Applications	
Subject Code :	16AF92/7	Total Teaching Hours :	52
IA Marks :	20	Teaching Hours/Week :	03
Exam Marks :	80	Examination Hours :	03
Credits:	4		

1. Introduction to the world wide web: world wide web fundamentals, short primer on the internet, examining multimedia and the web  
10 Hrs.
2. World wide web surfing tools: getting connected to the web, learning netscape browser software, America online, compuserve, and prodigy. Web access, using netcruiser software for web access, working with electronic-mail, accessing other parts of the internet.  
20 Hrs.
3. Surfing the world wide web: business home pages, information sources home pages.  
8 Hrs.
4. Publishing on the world wide web: setting up the hardware for a web server, windows web server software, learning html/xml, creating html forms/xml form, html authoring tools, home page design guidelines.  
14 Hrs.

## REFERENCES:

1. Programming with JAVA - A Primer - E.Balaguruswamy - TMH
2. World Wide Web - Paul J.Perry - Comdex Publishers
3. Teach yourself Java in 21 days by Laura & Rogers Cadedhead - Publishers: Techmedia
4. HTML for dummies - Ed Tittle and Stele James - Comdex Publishers
5. Fundamentals of World Wide Web Programming with HTML and CGI Ed Tittel-Comdex publishers

BA 6 <sup>th</sup> Semester		Internet Applications Lab	
Subject Code :	16AF92/7	Total Teaching Hours :	39
IA Marks :	10	Teaching Hours/Week :	03
Exam Marks :	40	Examination Hours :	03
Credits:	3		

## Designing of HTML Pages:

1. Bio data.
2. Web Page introducing a small organization.
3. Web pages demonstrating HTML Links.
4. Web Page with Picture.
5. Web Page with Table.
6. Implementing Animations in a Page.
7. Web Page with Different Fonts and Sizes and Colors for Different Paragraphs.

## Marks Distribution:

Exam	Marks
Practical/Proper	40
Report	10
Total	50

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## Computer Science Syllabus for BA

BA 5 <sup>th</sup> Semester		E-Commerce	
Subject Code :	16AE92/6	Total Teaching Hours :	52
IA Marks :	20	Teaching Hours/Week :	03
Exam Marks :	80	Examination Hours :	03
Credits:	4		

- 1. Introduction to e-commerce-Growth of e-commerce, electronic communication, electronic data interchange, organizing and designing business sites.** 8 Hrs.
- 2. Marketing to worldwide audience:** Advertising and publicity online business, Accounting tools, online business secrets, E-banking- induction to E-banking, E-transfer ATM, E-card, E-mail, SatelliteMail credit card etc., 14 Hrs.
- 3. Introduction to Access :** Creating Tables, Working in Table, Saving Table, Defining Primary Key, Adding Validations to the table, Updating Table- Modifying table, Rearranging Field, Adding Field, Deleting Field, Changing Column Width , Changing Height of Row. 14 Hrs.
- 4. Computer based accounting package Tally:** Tally Accounting package 7.2 version and latest editions. General awareness and application of package to various business applications with different forms as per VAT. 16.Hrs

## Books for reference:

1. E-Commerce-E: Business: Ravada (Himalayan publications)
2. Comdex Computer Course K.
3. ASP by BPB publications

BA 5 <sup>th</sup> Semester		Tally and MS-Access Lab	
Subject Code :	16AE92/6	Total Teaching Hours :	39
IA Marks :	10	Teaching Hours/Week :	03
Exam Marks :	40	Examination Hours :	03
Credits:	3		

5 practical questions (total 10) from each of Tally and MS-Access have to be designed.

## Examination:

- Student has to answer two questions one from each section.

## Marks Distribution:

Exam	Marks
Practical Proper	40
Report	10
<b>Total</b>	<b>50</b>

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Computer Science Syllabus for BA

BA 5 <sup>th</sup> Semester		Database Management Systems	
Subject Code :	16AE92/5	Total Teaching Hours :	52
IA Marks :	20	Teaching Hours/Week :	03
Exam Marks :	80	Examination Hours :	03
Credits:	4		

- 1. Introduction:** Database Applications, Purpose of Database System: view of data: Data abstraction, Instance & schemas, data model. 10 Hrs.
- 2. Database Architecture:** database users & Administrators: Data Users & User Interfaces, Database Administrators, History of Database System. 10 Hrs.
- 3. Database Design:** Entity Relationship Model. 8 Hrs.
- 4. Database Languages:** DML, DDL, Relational Database; tables, DML, DDL; 6 Hrs.
- 5. SQL:** Background, Data Definition: Basic Domain Names: Basic Structure of SQL Queries; Set operations: 12 Hrs.
- 6. Aggregate functions:** Null Values, Nested Sub Queries, views; Modification of Database; 6 Hrs.

**Text book:**

1. "Database System Concepts" by Silberchatz-Korth-Sudarshan , McGraw Hill-V Edition

**References:**

1. Navathe and Elmarri "fundamentals of database Systems"-Addison Wesley.

BA 5 <sup>th</sup> Semester		DBMS Lab	
Subject Code :	16AE92/5	Total Teaching Hours :	39
IA Marks :	10	Teaching Hours/Week :	03
Exam Marks :	40	Examination Hours :	03
Credits:	3		

1. Modifying table structure and updating data
2. Implementing Keys:
3. Using Where Clause
4. Using SubQueries in where Clause.
5. Aggregate Functions

At least 4 queries from each group have to be exercised.

Tables have to be created as per the requirement.

**Examination:**

- Required tables has to be created by the student during examination
- Table creation 10 marks.
- Inserting values (at least 5) as required for the queries 10marks.
- 4 queries 20 marks.

**Marks Distribution:**

Exam	Marks
Practical Proper	40
Report	10
<b>Total</b>	<b>50</b>