**SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL**

**LESSON-PLAN**

**Class: BCA-IIIrdYear Semester: Vth ODD/EVEN**

**Subject: Visual Basic Session: 2020-21**

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| **Lecture Number** | **Topic** |
|  | **Unit-I** |
| **L-1** | **Introduction of VB**  |
| **L-2** | **Visual & non visual programming , Procedural** |
| **L-3** | **Object –Oriented and event driven programming language** |
| **L-4** | **The VB Environment :Menu bar** |
| **L-5** | **Toolbar, Project Explorer, Toolbar** |
| **L-6** | **Properties window, form designer** |
| **L-7** | **Form layout** |
| **L-8** | **Immediate Window** |
| **L-9** | **Visual Development and Event Driven Programming** |
| **L-10** | **Revision**  |
| **L-11** | **Revision** |
|  | **Unit-II** |
| **L-12** | **Basic of Programming** |
| **L-13** |  **Variables :Declaring variables** |
| **L-14** | **Types of variables** |
| **L-15** | **Converting variables types** |
| **L-16** | **User defined data types** |
| **L-17** | **Forcing variable declaration** |
| **L-18** | **Scope & lifetime of variables**  |
| **L-19** | **Constants: Named & intrinsic** |
| **L-20** | **”** |
| **L-21** | **Operators : Arithmetic**  |
| **L-22** | **Relational & Logical Operators** |
| **L-23** | **”** |
| **L-24** | **I/O in VB, Various control for I/O in VB** |
| **L-25** | **”** |
| **L-26** |  **Message box, Input Box , Print Statement** |
| **L-27** | **Revision** |
| **L-28** | **Revision** |
|  | **Unit-III** |
| **L-29** | **Programming with VB** |
| **L-30** | **Decision and condition** |
| **L-31** | **”** |
| **L-32** | **If statement, if then else, Select Case** |
| **L-33** | **Looping Statements do loop** |
| **L-34** | **For next ,while wend, exit statement** |
| **L-35** | **”** |
| **L-36** | **Nested control structures** |
| **L-37** | **Arrays: declaring and using arrays** |
| **L-38** | **One dimensional and multi-dimensional array** |
| **L-39** | **”** |
| **L-40** | **Static and dynamic arrays, Array of array** |
| **L-41** | **Collocations :Adding Removing Counting** |
| **L-42** | **”** |
| **L-43** | **Returning items in a collection**  |
| **L-44** | **”** |
| **L-45** | **Processing a collection** |
| **L-46** | **Revision** |
| **L-47** | **Revision** |
|  | **Unit-IV** |
| **L-48** | **Programming with VB Procedures** |
| **L-49** | **General & event procedures** |
| **L-50** | **Subroutines** |
| **L-51** | **Functions, calling Procedures** |
| **L-52** | **”** |
|  | **”** |
| **L-53** | **Arguments- passing Mechanisms**  |
| **L-54** | **Optional arguments** |
| **L-55** | **Named Arguments** |
| **L-56** | **Functions returning custom data types**  |
| **L-57** | **”** |
| **L-58** | **Function returning arrays** |
| **L-59** | **Working with form adding multiple forms in VB** |
| **L-60** | **Hiding & showing forms , Load unload statements** |
| **L-61** | **Activate & deactivate events , forms –load event** |
| **L-62** | **Menu designing in VB Simple program in VB** |
| **L-63** | **Revision**  |
| **L-64** | **Revision**  |
| **L-65** | **Revision**  |

 **Munesh**

 **(Assistant Prof.in CS)**