

EXCEL - VBA

1. SETTING THE STAGE IN EXCEL

2. MACRO RECORDER IN EXCEL

- Preparation
- Name
- Use
- Relative / Absolute referencing
- Location
- Use of Personal.xls(b)

3. VISUAL BASIC EDITOR

4. WRITING VBA

- Language
 - Modules = chapters
 - Procedures = paragraphs
 - Code lines = sentences
 - Statements
 - Declarations
 - Operators
 - Keywords
- Coding Components
 - Functions and subprocedures or routines
 - Objects
 - Methods
 - Properties
 - Variables
 - Scope
- Syntax
 - Punctuation & references
 - Application.Workbooks("Book1.xlsx").Worksheets("Sheet1").Range("A1")
 - Worksheets("Sheet1").Range("A1")
 - Range("A1")
 - Comments
 - line breaks
 - Worksheets("Sheet1") or Worksheets(1)
- Handling Code
- Links

5. EXCEL OBJECT MODEL

- Functions and subroutines
- Objects
 - Collections
 - "Normal" Objects
 - Worksheet, Workbook, Sheet, Range
 - special type of variable that contains both data and codes
 - Range Object
 - Has its own methods and properties
 - hierarchy
- Methods
- Properties

6. WORKING WITH VARIABLES & OPERATORS

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- [data types](#)
- [Declaring variables](#)
- [Constants](#)
- [Assignments](#)
- [Operators](#)
- [Converting variables](#)
- [Arrays](#)
- [Links](#)

7. VB PROGRAMMING

- [VBA subroutines](#)
- [Workbooks and worksheets](#)
- [Working with Ranges](#)
- [Statements](#)
- [Interactivity](#)
- [VBA functions](#)
- [Working with events](#)
- [Error Handling](#)
- [Recordsets](#)

8. DEBUGGING

9. GOOD PRACTICES & STRATEGY

- [Functional Analysis & Approach](#)
- [Scope](#)
- [Coding](#)
 - [Carefully choose names - have a naming convention](#)
 - [Use Option Explicit](#)
 - [Commenting & Documenting](#)
 - [Use macro recorder to generate code](#)
 - [Structure and Indentation](#)
 - [Group similar code - use With](#)
 - [Use of Call method and blocks of code](#)
 - [Use pointers / bookmark](#)
 - [Input / Processing / Output approach](#)
 - [Don't overuse Select](#)
 - [Reusable modules with functions and code blocks](#)
- [Reuse code](#)
- [User Interface](#)
 - [Application.ScreenUpdating = False | True](#)
 - [Application.DisplayAlerts = False | True](#)
 - [Application.Cursor = xlWait](#)
 - [Application.Cursor = xlDefault](#)
 - [Navigation](#)
- [Provide systematic error handling](#)
- [Implement versioning](#)

10. TYPICAL SCENARIOS

11. ADD-INS

12. LINKS