



**PARVATHANENI BRAHMAYYA  
SIDDHARTHA COLLEGE OF ARTS & SCIENCE**

*Autonomous*  
Siddhartha Nagar, Vijayawada-520010  
*Re-accredited at 'A+' by the NAAC*

**23CSSDP103 : Introduction to Worksheets Lab (Excel and VBA)**

**Offered to : ALL UG PROGRAMS**

**Semester: II**

**Year of Introduction: 2023 – 2024**

**Year of Offering: 2023 – 2024**

**Course Type: Skill Development - Practical**

**Hours : 30**

**Credits: 2**

**Course Objectives:**

This course gives students a basic understanding of using Excel and VBA using Excel.

**Course Outcomes:**

<b>Course Outcome No</b>	<b>Upon successful completion of this course, the student will be able to</b>	<b>Program Educational objectives/ Outcome No</b>
CO1	Have a basic knowledge of Excel.	P05, PO7
CO2	Know about Data types and Arrays in VBA	P05, PO7
CO3	Understand how to use Operators in VBA	P05, PO7
CO4	Learn to create Dashboard and quiz preparations.	P05, PO7
CO5	Apply their knowledge and prepare applications like attendance tracker.	P05, PO7

**Mapping of Course Outcomes (COs) with Programme Outcomes (POs) & PSOs**

CO	BTL	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1						M		M
CO2						M		M
CO3						M		M
CO4						H		H
CO5						H		H

**Exercises:**

1. Number Conversions using Excel
2. Explore various Charts in Excel
3. Explain Macro in Excel using VBA
4. Data Types & Declare VBA Constants in Excel
5. How to Use & Types of Arrays in VBA
6. VBA String Operators, VBA String Manipulation Functions
7. VBA Arithmetic Operators: Multiplication, Division & Addition
8. VBA Comparison Operators: Not equal, Less than or Equal to
9. VBA Logical Operators: AND, OR, NOT
10. Create sales dashboard (such as Market wise, Product wise, quarter wise sales) in Excel using VBA code
11. Create a randomized quiz question paper in Excel using VBA code.
12. Design an attendance tracker using login time of the employee in Excel using VBA code to perform the operation like if employee is late, and then lock the system.

**Text Books:**

1. Excel For Dummies by Greg Harvey
  2. Excel VBA Programming For Dummies by [Michael Alexander](#)
- Web Reference: <https://www.tutorialspoint.com/vba/index.htm>

**MODEL QUESTION PAPER FOR SEM END PRACTICAL EXAMINATION 2023-24**  
**23CSSDP103 : Introduction to Worksheets Lab (Excel and VBA)**

**Offered to: ALL UG PROGRAMS**  
**Max. Marks : 50 (CIA: 15 + SEE: 35)**

**Semester: II**  
**Hrs/Week: 2**

**Model Paper : Practicals**

**Time: 3 Hrs**

**Max. Marks : 35**

**Section - A**

- |                 |      |
|-----------------|------|
| 1. Experiment 1 | 15 M |
| 2. Experiment 2 | 10 M |

**Section – B**

Viva Voce	10 M
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<b>CONTINUOUS ASSESMENT: (Internal)</b>	<b>15 M</b>
<b>Total</b>	<b>50Marks</b>

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