

# SCMCES TRAINING SERIES

# MS Excel with VBA for Civil and Structural Engineers

The screenshot shows two Excel spreadsheets. The top one is a 'QUANTITY SHEET' with columns for Sr. No., Item Description, No., Length (m), Width/Breadth (m), Height/Depth (m), and Quantity. It includes calculations for Earthwork, Footing, PCC, and RCC. The bottom one is a house floor plan with dimensions like 3884 x 3216 mm, 1664 x 2296 mm, etc. A green 'X' icon with 'fx' and 'FOR ENGINEERS' text is overlaid on the right.



SCMCES provides consultancy services for civil infrastructure, including Structural Analysis Design, Review, Audit, Remedial Engineering, Advanced Rehabilitation Technologies(ART), Structural Health Monitoring (SHM) services as well as research and training in related engineering domains.



+91-84314 22882  
scmcес.consultants@gmail.com  
www.scmcес.com

“Engineering Insight ✨ Monitoring Integrity ✨ Building Futures”

# MS Excel with VBA for Civil and Structural Engineers

## From Spreadsheets to Engineering Tools

### About the Course

This course is designed for civil and structural engineers who routinely use Excel for design calculations, quantity take-offs, QA/QC logs, test data processing, reports, and coordination—and want to move beyond manual, error-prone spreadsheets.

Microsoft Excel, when combined with VBA (Visual Basic for Applications), becomes a powerful platform for engineering automation, data validation, parametric studies, and reporting. This program focuses on engineering logic, correctness, and repeatability, not generic office automation.

No prior programming experience is required. A basic understanding of engineering calculations and workflows is assumed. The course is suitable for freshers, practicing engineers, and professionals involved in design offices, site execution, QA/QC, and consulting.

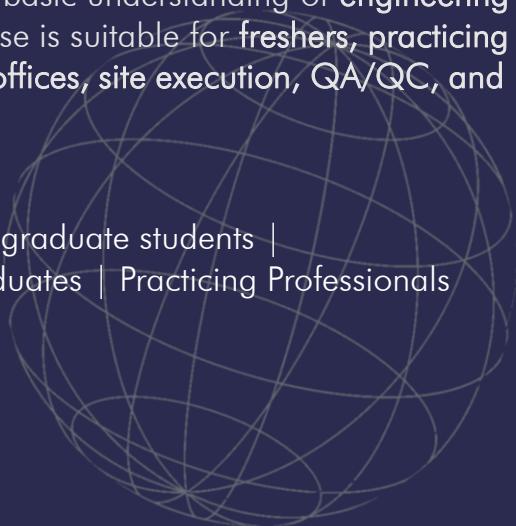
### Who Should Attend

Civil Engineers | Structural Engineers | Post-graduate students |

Final-year engineering students | Fresh Graduates | Practicing Professionals

### SCMCES Training benefits

- ✓ Engineering-led training approach
- ✓ Practical civil & structural case studies
- ✓ Application-oriented learning
- ✓ Professional certification on completion



### How the Training Works

- Conceptual explanation of Excel & VBA from an engineering perspective
- Live demonstrations with real civil & structural examples
- Hands-on exercises (no generic office tasks)
- Ready-to-use engineering templates and macro examples
- Emphasis on accuracy, validation, and repeatability

### Training batch details

- Batch starts : Every Quarterly
- Training Mode : Online/ Offline / Hybrid
- Course duration : 40 Hrs. (2~3 -hour session per day)
- Enquire Now | Book Your Seat : +91 8431 42 28 82

[scmcес.consultants@gmail.com](mailto:scmcес.consultants@gmail.com)

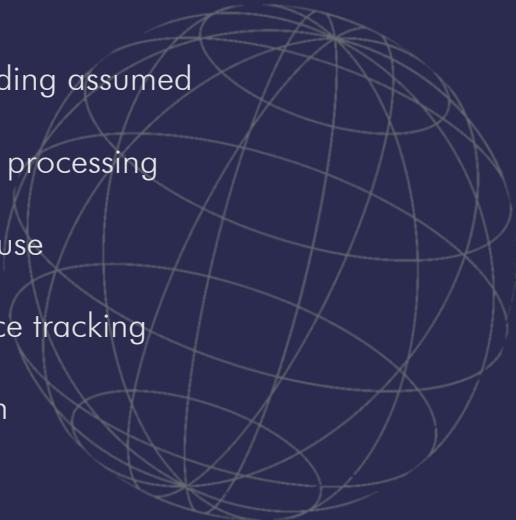
**Disclaimer:** Microsoft Excel is a registered product of Microsoft Corporation. This training is independent and application-oriented.

# MS Excel with VBA for Civil and Structural Engineers

## From Spreadsheets to Engineering Tools

### Course Topics & Modules

- **Excel Fundamentals for Engineers**  
Cell logic, formulas, accuracy, formatting discipline
- **Engineering Data Structuring**  
Loads, quantities, test results, monitoring data
- **Advanced Excel Functions**  
IF, LOOKUP, INDEX-MATCH, arrays for engineering logic
- **Charts & Engineering Visualization**  
Trends, comparisons, summaries, dashboards
- **Introduction to VBA for Engineers**  
VBA environment, logic, macros—no prior coding assumed
- **Automating Engineering Calculations**  
Design checks, repetitive computations, batch processing
- **Forms, Buttons & User Interaction**  
Engineer-friendly interfaces for office and site use
- **QA/QC & Documentation Automation**  
Checklists, inspection logs, MOMs, compliance tracking
- **Error Handling & Protection**  
Validation, sheet protection, misuse prevention
- **Engineering Reporting & Communication**  
Presenting results clearly to stakeholders



### What Participants Receive

- Ready-made **engineering Excel templates**
- VBA macro examples and reusable code blocks
- QA/QC and reporting automation tools
- Reference workbook for future use
- Course completion certificate from SCMCES

### Training batch details

- Batch starts : Every Quarterly
- Training Mode : Online/ Offline / Hybrid
- Course duration : 40 Hrs. (2~3 -hour session per day)
- Enquire Now | Book Your Seat : +91 8431 42 28 82

[scmcес.consultants@gmail.com](mailto:scmcес.consultants@gmail.com)