

**Devi Ahilya University, Indore**  
**Syllabus for Ph. D. Course Work in Electronics & Tele Communication**  
**Engineering**  
(Under the Faculty of Engineering)

**PAPER – II: 1ETR02 COMPUTER APPLICATIONS**

**3 Credits**

**MATLAB Basics**

Introduction, Environment, Variables, Arrays, Operations, Branching and program design, Script and functions, Files, Simple plotting.

**MS Office and its application**

File handling in window, Various versions of MS Office, MS-Word: Text formatting, Mail merge, Macros, MS-Excel: Features, Various formulas and functions, MS Power Point: Creating presentations and adding effects.

**Study of Simulation and Data Analysis Tools**

ProE, ANSYS, IDEA, SPSS, NS-2, Qualnet, NCTUNS, Cadence, Xilings, Tanner, CLEMENTINE etc.


**Note:** Study of any one tool from the above mentioned list in the relevant area is compulsory.

**References**

- [1] Microsoft Office Word 2007: Complete Concepts and Techniques by Gary B. Shelly, Thomas J. Cashman, Misty E. Vermaat, Cengage Learning Inc.
- [2] How to Do Everything with Microsoft Office Excel 2007 by Guy Hart-Davis, McGraw Hill.
- [3] Learning Microsoft PowerPoint 2007 by Catherine Skintik, Pearson Education.
- [4] Programming in MATLAB for Engineers, Stephen J. Chapman, Cengage Learning.
- [5] MATLAB Web Site – <http://www.mathworks.com>

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