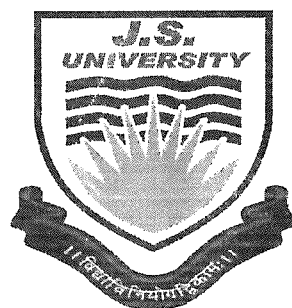


# **J.S. University, Shikohabad**

Established by UP Govt. Act No. 07 of 2015

Recognized by U.G.C. under section 2 (f) of Act-1956




## **Value Added Course**

**[VAC-012]**

**Training Program on MATLAB R2017**

**Faculty of Engineering**

## Department of Electrical and Electronics Engineering

	J.S. University, Shikohabad Faculty of Engineering	Value Added Course
		AY: 2018-19

### Training Program on MATLAB R2017

[VAC-012]

#### Learning Objective:

This Course will provide knowledge of design and coding fundamentals for modeling a circuit to the students.


**Duration:** 30 Hours. (Theory and Practical)

#### Course Outcomes: -

Maximum Exposure has to be given on Practical Oriented

After completion of the course the student shall be able to:-

1. Introduction TO MATLAB : Installation on Windows, Student license procedure, Introduction to different modules
2. To Understand the circuit analysis and plotting Using MATLAB
3. To understand the basic fundamentals and Handle the matrices using MATLAB
4. Problem Diagnose and Differentiation and integration in MATLAB
5. Modeling and simulation Array operations and Linear equations

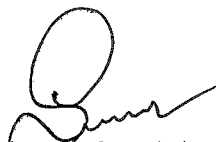
	<b>J.S. University, Shikohabad</b> <b>Faculty of Engineering</b>	<b>Value Added Course</b>
		AY: 2018-19

### Syllabus Outline

- 1. Module-1: Introduction to MATLAB**
  - The MATLAB Environment
  - MATLAB Basics – Variables, Numbers, Operators, Expressions, Input and output.
  - Vectors, Arrays – Matrices
- 2. Module-2: MATLAB Functions**
  - Built-in Functions
  - User defined Functions
- 3. Module-3: Graphics with MATLAB**
  - Files and File Management – Import/Export
  - Basic 2D, 3D plots
  - Graphic handling
- 4. Module-4: Programming with MATLAB**
  - Conditional Statements, Loops
  - MATLAB Programs – Programming and Debugging.
  - Applications of MATLAB Programming.
- 5. Module-5: Mathematical Computing with MATLAB**
  - Algebraic equations
  - Basic Symbolic Calculus and Differential equations
  - Numerical Techniques and Transforms

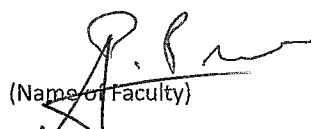
### References

1. [http://www.mathworks.com/help/releases/R2014b/pdf\\_doc/matlab/getstart.pdf](http://www.mathworks.com/help/releases/R2014b/pdf_doc/matlab/getstart.pdf)

  
 (Name of Faculty)


DR. SHANK SUDALA

Dr. Shank Sudala

  
 (Name of Faculty)

DR. P. P. SINGH

Dr. P. P. Singh

  
 (Name of Faculty)

DR. ADNAN QASIM  
Faculty/Department

Dr. Adnan Qasim