ST. ALOYSIUS (AUTO) COLLEGE, JABALPUR DEPARTMENT OF MATHEMATICS CERTIFICATE COURSE BASICS OF MATLAB

Paper	Title	Maximum Marks	Minimum Marks	
I	Basics of MATLAB-Theory	50	20	
II	Basics of MATLAB-Practical	50		

Note: Total duration of the course is 30 contact hours.

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ST. ALOYSIUS COLLEGE (AUTO), JABALPUR DEPARTMENT OF MATHEMATICS CERTIFICATE COURSE BASICS OF MATLAB-THEORY

Maximum Marks:

50

Time: 2 hours

Minimum Marks:

20

Credit: 1

COURSE OUTCOME:

Upon successful completion of this course, the student will have the:

CO1 Knowledge of a input output command of MATLAB

CO2 An understanding arithmetic operations, matrix manipulation, logical operations.

CO3 An understanding graphics, plotting.

MODULE I- Input output of data from Matlab command. File types. Creating, saving and executing the script file. Creating and executing functions file.

MODULEII- Working with files and directories. Matrix manipulation. Creating vectors. Arithmetic operations. Relational operations. Logical operations. Matrix functions. Determinant of Matrix.

MODULE III -Graphics: Two and three dimensional plot.

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Vandus

Rimmi

MD.

Jolang.

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REFERENCE BOOKS:-

- RudraPratap, Getting Started with MATAB: A Quick Introduction for Scientists and Engineers. Oxford University Press.
- 2. Stormy Attaway, MATLAB: A Practical Approach, Butterwarth-Heinemann Publications, USA.

ST. ALOYSIUS COLLEGE (AUTO), JABALPUR DEPARTMENT OF MATHEMATICS CERTIFICATE COURSE BASICS OF MATLAB-PRACTICAL

kimum Marks: 50

Time: 2 hours

imum Marks: 20

of Practicals:

WAP in MATLAB for multiplication of matrices.

WAP in MATLAB for the inverse of a matrix.

WAP in MATLAB for Determinant of Matrix.

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- 4. WAP in MATLAB for the average of finite numbers.
- 5. WAP in MATLAB using "if else if" statement.
- 6. WAP in MATLAB for plotting graphs of trigonometric functions.

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