



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY)

ACCREDITED WITH "A" GRADE BY NAAC
APPROVED BY AICTE

SCHOOL OF BIO AND CHEMICAL ENGINEERING

DEPARTMENT OF BIOTECHNOLOGY

*Organizes value added course
on*

INTRODUCTION TO MATLAB FOR BIOSCIENCE

**DATE: 24th September 2018 – 11th October 2018 (15
working Days) TIME: 3.00 pm to 5.00 pm**

RESOURCE PERSONS

Dr. Vedhanarayanan,
Assistant Professor,

Mr. GNarendrakumar,
Assistant Professor,

Dr. A. R. Aranganathan,
Assistant Professor,

Department of Electronics and
Instrumentation.

Department of Biotechnology
Department of Electronics and
Instrumentation.

**ELIGIBLE STUDENTS- B.TECH AND M.TECH
BIOTECHNOLOGY**

*Attendance is mandatory
for all classes*

ORGANIZER

Dr. Prakash P

Assistant Professor

Department of Biotechnology

FOR REGISTRATION CONTACT: Dr. PRAKASH P - 9840522688



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INTRODUCTION TO MATLAB FOR BIOSCIENCE

OBJECTIVES

- Courses cover the basics of MATLAB, tips, and tricks, and advanced techniques for specialized areas.
- To apply MatLab techniques in bioprocess engineering and computational biology.

TOTAL: 30 HRS

MODULE 1: DESKTOP, VARIABLES, AND DATA TYPES

Introduction to MATLAB, Creating Variables, Some Useful MATLAB Functions, Data Types.

6 HRS

MODULE 2: BASIC PLOTTING

Creating simple plots, Adding titles, axis labels, and annotations, Multiple data sets in one plot, Specifying line styles and colors.

6 HRS

MODULE 3: GRAPHICS WITH MATLAB

Basic 2D, 3D plots, Graphic handling

6 HRS

MODULE 4: PROGRAMMING WITH MATLAB

Applications of MATLAB Programming

6 HRS

MODULE 5: MATHEMATICAL COMPUTING WITH MATLAB

Algebraic equations, Basic Symbolic Calculus, and Differential equations.

6 HRS

OUTCOMES:

- Able to use Matlab for interactive computations.
- Familiar with memory and file management in Matlab.
- Able to generate plots and export this for use in reports and presentations



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CERTIFICATE OF PARTICIPATION

This is to certify that, Mr./Ms./Mrs. **Vidhya L** a Btech Biotechnology Student of Sathyabama Institute of Science and Technology, has successfully completed value added course on **INTRODUCTION TO Matlab FOR BIOSCIENCE** organized by the Department of Biotechnology, Sathyabama Institute of Science and Technology from 24th September 2018 to 11th October 2018

DR. RAMESH KUMAR,
HEAD OF THE DEPARTMENT
DEPARTMENT OF BIOTECHNOLOGY
SATHYABAMA INSTITUTE OF
SCIENCE AND TECHNOLOGY

DR. VEDHANARAYANAN,
ASSISTANT PROFESSOR,
DEPARTMENT OF ELECTRONICS AND
INSTRUMENTATION

Dr. Prakash P

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