

Koustuv Technical Campus, Plot No. 1 (A), Koustuv Square, Infocity Road, Patia, Bhubaneswar–751024, Odisha, India [AFFILIATED TO BPUT, ODISHA]

www.coeb.ac.in

ADD-ON COURSE: Mastering MATLAB through Guided Problem Solving

[Programme: B.Tech, EEE/EE]

SYLLABUS

Total Lecture Hours: 40

Course Objectives:

This course aims to enhance students' proficiency in MATLAB by using guided problem-solving exercises. Students will learn to apply MATLAB to solve a wide range of engineering, scientific, and data analysis problems, gaining hands-on experience and building a strong foundation in this versatile programming environment.

MODULE-I Introduction to MATLAB

[10 Hours]

Overview of MATLAB and its capabilities, Basic MATLAB syntax and commands, Variables, data types, and vectors, MATLAB Programming Fundamentals: Control structures (loops and conditionals), Functions and scripts, Debugging techniques

MODULE-II Data Analysis

[10 Hours]

Data Visualization: Plotting and customizing graphs, 2D and 3D visualization, Animation and interactive plots, Data Import and Export: Importing and exporting data files (e.g., CSV, Excel), Data preprocessing and cleaning, Working with complex data structures

MODULE-III Numerical Computing

[08 Hours]

Linear algebra and matrix operations, Numerical integration and differentiation, Solving linear and nonlinear equations

MODULE-IV Advanced MATLAB Topics

[12 Hours]

Signal processing and image processing, Optimization techniques, Simulink integration and model development, MATLAB Toolboxes: Introduction to specialized toolboxes (e.g., Statistics Toolbox, Image Processing Toolbox), Applications and case studies using toolboxes.

Course Outcomes: After completion of the course, the students will be able to

CO1: Upon successful completion of the course, students should be able to:

CO2: Effectively use MATLAB for data analysis, visualization, and numerical computation.

CO3: Solve engineering and scientific problems using MATLAB's built-in functions and toolboxes.

CO4: Develop and debug MATLAB code for complex applications.

CO5: Apply MATLAB to real-world problem-solving scenarios.

CO6: Work collaboratively on group projects involving MATLAB.

Evaluation Process:

- 1. Attendance for the course is 75%, which is mandatory.
- 2. Minimum qualifying marks percentage for the course is 50.
- 3. Certificate will be issued after successful completion of course and assessment processes.

Learning resources:

Suggested Books:

- 1. "MATLAB for Engineers" by Holly Moore
- 2. Ashish Tewari, Modern Control Design: with MATLAB and SIMULINK, Wiley, 2002.

Other Sources:

e-Learning Resources:

https://matlabacademy.mathworks.com/

Design and Developed by: Dr. P Jagannatham & Prof. Bishnupriya Das

Prineipal

College of Engineering Bhuber

HOD, Electrical Engineering

HOD Electrical Engineering College of Engineering Bhubaneswar



Plot No.1 (A), CNI Complex, Patia, Bhubaneswar – 751024, Odisha, India.

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NOTICE

Department of Electrical Engineering Add On Course 2020-2021

Ref No: COEB/EE/2020/06

Date: 18.08.2020

It is hereby informed to all the students that the Department of Electrical Engineering is going to start the following Add-on courses for <u>Academic year 2020-2021</u> in ON_LINE Mode. All the students are instructed to enroll their names for the following courses <u>on or before 12/09/2020</u>. The classes will be commenced from **14/09/2020**, 5.30pm to 7.30pm. You can contact the following course co-ordinators for enrolment and further queries.

SI. No.	Name of Add-on Course	Sem Duration Name of the course in hours ordinators					
1	Fundamentals of Domestic Appliances	3 rd	38	Dr. P Jagannatham, Assistant Professor			
2	Applied System Theory	5 th	40	Anshuman Nayak, Assistant Professor.			
3	Mastering MATLAB through guided problem solving	7 th	40	Dr. Prakash Chandra Sahu, Assistant Professor			

HOD

Electrical Engineering Department

HOD

Electrical Engineering College of Engineering Bhubaneswar

Copy to: Principal All Notice Board. A.O(Admin) All HODs

Hostel, Security



COLLEGE OF ENGINEERING BHUBANESWAR (COEB) ADD-ON COURSE

STUDENT ENROLLMENT SHEET

Name of the Department: ELECTRICAL ENGINEERING

Course Title: Mastering MATLAB through guided problem solving

Semester: 7th

Academic Year: 2020-21

Student's Declaration/Undertaking

- 1. I do hereby undertake to participate in the above mentioned add on course.
- 2. I do hereby, promise to abide by the admissible rules and regulations, concerning discipline, attendance, etc. of the department, and also to follow the Code of Conduct prescribed for the students of the Institute, as in force from time to time.

Sl. No.	Registration No.	Name of the Student	Signature of the Student
1	1701219022	JYOTIPRAKASH DAS	
2	1701219031	ASHUTOSH MISHRA	
3	1701219101	SUBHAM MOHAPATRA	
4	1701219169	PRIYE RANJAN KUMAR	
5	1701219171	RAKESH BEHERA	
6	1701219277	SUBHASMITA SAHOO	
7	1701219278	SUVAKANTA DHALASAMANTA	
8	1701219279	SATYABRATA AMRUT RANJAN	
9	1701219280	TUNA BEHERA	
10	1701219282	SONAM NAYAK	
11	1701219283	SUBHASHREE BEHERA	





COLLEGE OF ENGINEERING BHUBANESWAR (COEB) DEPARTMENT OF ELECTRICAL ENGINEERING ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 01

Programme: B.Tech in Electrical Engineering Semester: 7th

Name of the Course: Mastering MATLAB through guided problem solving Academic Year: 2020-21

NO. Duration: 5:30pm -7:30pm, 10 Reg. No./ Enrollment No. Signature of the Course Coordinator 1701219283 SUBHASHREE BEHERA 1701219282 SONAM NAYAK 1701219280 TUNA BEHERA 1701219279 SATYABRATA AMRUT RANJAN 1701219278 SUVAKANTA DHALASAMANTA 1701219101 SUBHAM MOHAPATRA 1701219022 JYOTIPRAKASH DAS 1701219031 ASHUTOSH MISHRA 1701219169 PRIYE RANJAN KUMAR 1701219277 SUBHASMITA SAHOO 1701219171 RAKESH BEHERA NAME OF THE STUDENT Date: 14/09/20 T O Date: 15/09/20 Date: 16/09/20 Date & Signature of the Student 0 D U Course Code (if any): 0 0 D Date: Carre Man 18/09/20 D to t

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB) DEPARTMENT OF ELECTRICAL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 02

Programme: B.Tech in Electrical Engineering Semester: 7th

Durati Name of the Course: Mastering MATLAB through guided problem solving Course Code (if any): Academic Year: 2020-21

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tion : 5'; 3 61	tion: 5:36pm-7:36pm		Date & Signature of the Student	e of the Student	
Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 21/09/20	Date: 21/09/20 Date: 22/09/20 Date: 23/0	Date: 23/09/20	Date: 24/09/20
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Programme: B.Tech in Electrical Engineering

COLLEGE OF ENGINEERING BHUBANESWAR (COEB) DEPARTMENT OF ELECTRICAL ENGINEERING ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No.

03

Semester: 7th Academic Year: 2020-21

Duration: 5:30pm-7:30pm SL. Reg. No./ NO. Enrollment No. NAME OF THE STUDENT Date: $25/69/20$ Date: $28/69/20$ Date: $29/69/20$ Date: $29/69/20$ Date: $29/69/20$
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Date & Signate Pate: $28/69/20$
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COLLEGE OF ENGINEERING BHUBANESWAR (COEB) DEPARTMENT OF ELECTRICAL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 40

Programme: B.Tech in Electrical Engineering Name of the Course: Mastering MATLAB through guided problem solving Semester: 7th Course Code (if any): Academic Year: 2020-21

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB) DEPARTMENT OF ELECTRICAL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 200

Semester: 7th

Academic Year: 2020-21

Name of the Course: Mastering MATLAB through guided problem solving Course Code (if any): Programme: B.Tech in Electrical Engineering

Duration: 5,369m-7:39m. Enrollment No. Signature of the Course Coordinator 1701219282 SONAM NAYAK 1701219280 TUNA BEHERA 1701219278 SUVAKANTA DHALASAMANTA 1701219277 SUBHASMITA SAHOO 1701219171 RAKESH BEHERA 1701219022 JYOTIPRAKASH DAS Reg. No./ 1701219283 SUBHASHREE BEHERA 1701219279 SATYABRATA AMRUT RANJAN 1701219031 ASHUTOSH MISHRA 1701219169 PRIYE RANJAN KUMAR 1701219101 SUBHAM MOHAPATRA NAME OF THE STUDENT Date: 09/10/20 Date: 12/10/20 Date: 13/10/20 Date & Signature of the Student 4 O 0 Date: 14/10/20

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College of Engineering Bhubaneswar



PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024





Certificate of Completion

This is to certify that Mr./Ms	This is to certify that Mr./Ms. SUBHASMITA SAHOO , student of the Department
ofElectrical Engg.	semester Seventh bearing registration number 1701219277
nas successfully completed the ADD-ON Course titled	ADD-ON Course titled Mastering MATLAB through guided problem solving
conducted at College of Engine	conducted at College of Engineering Bhubaneswar in the academic year 2020-21

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Course-Coordinator

Principal

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PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024





Oertificate of Completion

has successfully completed the ADD-ON Course titled	of Electrical Engg.	This is to certify that Mr./Ms
ADD-ON Course titled	semes	SUVAKANTA DHALASAMANTA
Mastering MATLAB through guided problem solving	semester Seventh bearing registration number	,
ded problem solving	r 1701219278	student of the Department

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conducted at College of Engineering Bhubaneswar in the academic year_

2020-21

Course-Coordinator

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Principal



PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024





Oertificate of Oompletion

This is to certify that Mr./Ms	A AMR
has successfully completed the ADD-ON Course titled	ADD-ON Course titled Mastering MATLAB through guided problem solving
conducted at College of Engine	conducted at College of Engineering Bhubaneswar in the academic year 2020-21 .

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Course-Coordinator

Principal

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PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024





Ocrificate of Completion

of <u>Electrical Engg.</u> semester <u>Seventh</u> bearing registration number 170121928	This is to certify that Mr/Ms. SONAM NAYAK , student of the Department
	semester Seventh bearing registration

Course-Coordinator

Principal

& Bhuze



PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024





Certificate of Completion

conducted at College of Engineering Bhubaneswar in the academic year	has successfully completed the ADD-ON Course titled	of Electrical Engg.	This is to certify that Mr./Ms. SUBHASHREE BEHERA
baneswar in the academic year 2020-21		semester Seventh bearing registration number	HASHREE BEHERA
	Mastering MATLAB through guided problem solving	tion number 1701219283	student of the Department

Course-Coordinator

Principal

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB) ADD-ON COURSE

STUDENT ENROLLMENT SHEET

Name of the Department: ELECTRICAL AND ELECTRONICS ENGINEERING

Course Title: Mastering MATLAB through guided problem solving

Semester: 7th

Academic Year: 2020-21

Student's Declaration/Undertaking

- 1. I do hereby undertake to participate in the above mentioned add on course.
- 2. I do hereby, promise to abide by the admissible rules and regulations, concerning discipline, attendance, etc. of the department, and also to follow the Code of Conduct prescribed for the students of the Institute, as in force from time to time.

S1. No.	Registration No.	Name of the Student	Signature of the Student
1	1701219071	SHIB SHANKAR SHAW	
2	1701219165	ASHISH KUMAR PODDAR	
3	1701219166	MEGHNATH SOREN	
4	1701219167	VISHAL KUMAR SINGH	
5	1701219168	GOVIND SOREN	
6	1701219271	JAGANNATH PRASAD SHA	
7	1701219272	SAI PRAVAT SAMAL	
8	1701219273	SUJIT KUMAR SAMANTARAY	
9	1701219275	NITISH KUMAR DEHURY	
10	1701219276	MANORAMA SAHOO	





DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING COLLEGE OF ENGINEERING BHUBANESWAR (COEB) ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No._ 0

Name of the Course: Mastering MATLAB through guided problem solving Engineering Semester: 7th Academic Year: 2020-21

Programme: B.Tech in Electrical and Electronics

Course Code (if any):

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 02

Engineering Programme: B.Tech in Electrical and Electronics

Name of the Course: Mastering MATLAB through guided problem solving

Semester: 7th

Academic Year: 2020-21

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING COLLEGE OF ENGINEERING BHUBANESWAR (COEB) ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No._

Engineering Programme: B.Tech in Electrical and Electronics Name of the Course: Mastering MATLAB through guided problem solving Semester: 7th Course Code (if any): Academic Year: 2020-21

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING COLLEGE OF ENGINEERING BHUBANESWAR (COEB) ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No.

Programme: B. Tech in Electrical and Electronics Engineering

Semester: 7th

Academic Year: 2020-21

Name of the Course: Mastering MATLAB through guided problem solving Course Code (if any):

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

STUDENT ATTENDANCE SHEET ADD ON/CERTIFICATE COURSE

Sheet No.

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Semester: 7th

Academic Year: 2020-21

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Oertificate of Oompletion

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	essfully completed the	Electrical & Electronics Engg.	his is to certify that Mr./Ms.
	as successfully completed the ADD-ON Course titled _		GOVIND SOREN
V 400	Mastering MATLAB through guided problem solving	semester Seventh bearing registration number 1701219168	EN student of the Department

conducted at College of Engineering Bhubaneswar in the academic year 2020-21

PRINCIPAL College of Engineering Bhubaneswar

TRUE COPY

Course-Coordinator

Principal



PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024





(Certificate of (Completion

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nas successfully completed the ADD-ON Course titled _	Electrical & Electronics Engg.	s. JAGANNATH PRASAD SHA
Mastering MATLAB through g	semester Seventh bearing registration number	PRASAD SHA
h guided problem solving	per1701219271	_, student of the Department

conducted at College of Engineering Bhubaneswar in the academic year_

2020-21

PRINCIPAL College of Engineering Bhubaneswar

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Course-Coordinator

Principal



PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024





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has successfully completed the ADD-ON Course titled	Electrical & Electronics Engg.	This is to certify that Mr./Ms
ADD-ON Course titled		SAI PRAVAT SAMAL
Mastering MATLAB thro	semester <u>Seventh</u> bearing registration n	SAMAL
Mastering MATLAB through guided problem solving	n number1701219272	, student of the Department

TRUE COPY

conducted at College of Engineering Bhubaneswar in the academic year_

2020-21

Course-Coordinator

Principal



PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024





Oertificate of Completion

as successfully comple	fElectrical	his is to certify that Mr./Ms.
as successfully completed the ADD-ON Course titled	Electrical & Electronics Engg.	/Ms. SUJIT KUMAI
Mastering MATLAB through guided problem solving	semester Seventh bearing registration number 1701219273	SUJIT KUMAR SAMANTARAY , student of the Department

conducted at College of Engineering Bhubaneswar in the academic year_

2020-21

PRINCIPAL College of Engineering Bhubaneswar

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Course-Coordinator

Principal



PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024





Optificate of Completion

semester Seventh bearing registration number 1701219276 Mastering MATLAB through guided problem solving	of Electrical & Electronics Engg. semester
-	

conducted at College of Engineering Bhubaneswar in the academic year 2020-21

PRINCIPAL College of Engineering Bhubaneswar

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Course-Coordinator

Principal