

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

[AFFILIATED TO BPUT, ODISHA]

www.coeb.ac.in

DEPARTMENT OF ELECTRICAL ENGINEERING

ADD-ON COURSE: Fundamentals of Domestic Appliances

[Programme: B.Tech, EEE/EE]

Course Objectives:

This course offers an introduction to the operation, maintenance, and safety considerations of common domestic appliances found in households. Students will gain an understanding of how these appliances work and how to troubleshoot basic issues.

SYLLABUS

Total Lecture Hours: 38

MODULE-I Introduction to Domestic & kitchen Appliances

[10 Hours]

Definition and types of domestic appliances, Historical perspective and evolution, Importance of energy efficiency and safety, Refrigerators and freezers, Ovens and ranges, Microwaves and toasters, Dishwashers and garbage disposals

MODULE-II Laundry Appliances & Home Comfort Appliances

[09 Hours]

Washing machines and dryers, Basic laundry care and maintenance, Energy-efficient laundry practices, Air conditioners and heaters, Humidifiers and dehumidifiers, Fans and space heaters, Thermostats and smart home technology

MODULE-III Cleaning & Personal Care Appliances

[09 Hours]

Vacuum cleaners and carpet cleaners, Maintenance and filter replacement, Robot vacuum cleaners and smart cleaning devices, Hair dryers and curling irons, Electric toothbrushes and shavers, Safety considerations for personal care appliances

MODULE-IV Entertainment and Electronics Appliance Safety and Maintenance

[10 Hours]

Televisions and audio systems, Gaming consoles and streaming devices, Energy-efficient usage and troubleshooting, Safety guidelines for using domestic appliances, Preventative maintenance tips, Troubleshooting common issues, Repair vs. replacement considerations

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

CO1: Identify and understand the principles of operation for various domestic appliances.

CO2: Perform basic maintenance and troubleshooting tasks for common household appliances.

CO3: Evaluate the energy efficiency and safety features of appliances.

CO4: Make informed decisions regarding appliance purchases and usage.

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. "Home Appliance Maintenance and Repair" by Brian P. Wood
- 2. "Handbook Of Repair And Maintenance Of Domestic Electronics Appliances" by Shashi Bhushan Sinha

College of Engineering Bhubaneswar

Other Sources:

e-Learning Resources:

https://home.howstuffworks.com/how-to-repair-small-appliances.htm

Design and Developed by: Dr N. Veda Kumar & Prof. Debarpita Roul

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HOD, Electrical Engineering

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Plot No.1 (A), CNI Complex, Patia, Bhubaneswar - 751024, Odisha, India. [AFFILIATED TO BPUT, ODISHA] www.coeb.ac.in

NOTICE

Department of Electrical Engineering Add On Course 2018-2019

Ref No: COEB/EE/2018/05

Date: 04.07.2018

It is hereby informed to all the students that the Department of Electrical Engineering is going to start the following Add-on courses for Academic year 2018-2019. All the students are instructed to enroll their names for the following courses on or before 13.07.2018. The classes will be commenced from 16.07.2018 from 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 in hours	Name of the course co- ordinators
1	Fundamentals of Domestic Appliances	3 rd	38	Tanushree Mishra, Assistant Professor
2	Applied System Theory	5 th	40	Gopal Krishna Mohanty, Assistant Professor.
3	Mastering MATLAB through guided problem solving	7 th	40	Dr. P Jagannatham, Assistant Professor

Electrical Engineering Department

Copy to:

1. Principal

2. All Notice Board.

3. A.O(Admin)

4. All HODs

5. Hostel, Security

Electrical Engineering College of Engineering Bhubaneswar

PRINCIPAL

College of Engineering Bhubaneswar



COLLEGE OF ENGINEERING BHUBANESWAR (COEB) ADD-ON COURSE

STUDENT ENROLLMENT SHEET

Name of the Department: ELECTRICAL ENGINEERING

Course Title: Fundamentals of Domestic Appliances

Semester: 3RD

Academic Year: 2018-19

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
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3	1701219169	PRIYE RANJAN KUMAR	Purya thangan kunar
4	1701219170	SURAJ KANT KUMAR	Surgheaux Kuman
5	1701219277	SUBHASMITA SAHOO	Szybhasmita Sahoo
6	1701219278	SUVAKANTA DHALASAMANTA	Suvakanta Dhalaramante
7	1701219279	SATYABRATA AMRUT RANJAN	Satychootz Amount Roms Jon
8	1701219280	TUNA BEHERA	Tuna Behera
9	1701219281	SARTHAK KUMAR JENA	Sarthak Kumar Jena
10		SONAM NAYAK	Sonam Nayak
11		SUBHASHREE BEHERA	Subhashrae Beherra





COLLEGE OF ENGINEERING BHUBANESWAR (COEB) DEPARTMENT OF ELECTRICAL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET Sheet No._

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ADD ON/CERTIFICATE COURSE

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB) DEPARTMENT OF ELECTRICAL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

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ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

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

STUDENT ATTENDANCE SHEET

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





Ocritificate of Completion

has successfully completed the ADD-ON Course titled	of Electrical Engg.	This is to certify that Mr./Ms.
ADD-ON Course titled	seme	JYOTIPRAKASH DAS
Fundamentals of Domestic Appliances	semester Third bearing registration number _1701219022	DAS, student of the Department

TRUE COPY? J.Minhra

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

Course-Coordinator

Principal





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





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Fundamentals of Domestic Appliances	semester Third bearing registration number 1701219031	, student of the Departmen

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

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Course-Coordinator

Principal



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





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Course-Coordinator

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

Principal



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





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has successfully completed the ADD-ON Course titled	of Electrical Engg.	This is to certify that Mr./Ms.
ADD-ON Course titled	semsem	SUBHASMITA SAHOO
Fundamentals of Domestic Appliances	semester Third bearing registration number _1701219277	AHOO
Appliances	number <u>1701219277</u>	, student of the Department

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

Thinkre

Course-Coordinator

Principal



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





Oertificate of Oempletion

This is to certify that Mr./Ms	SUVAKAN I A DHALASAMAN I A , student of the Department
of Electrical Engg.	semester Third bearing registration number 1701219278
has successfully completed the ADD-ON Course titled _	ADD-ON Course titled Fundamentals of Domestic Appliances
conducted at College of Engine	conducted at College of Engineering Bhubaneswar in the academic year $2018-19$

Course-Coordinator

Principal



COLLEGE OF ENGINEERING BHUBANESWAR (COEB) ADD-ON COURSE

STUDENT ENROLLMENT SHEET

Name of the Department: ELECTRICAL AND ELECTRONICS ENGINEERING

Course Title: Fundamentals of Domestic Appliances

Semester: 3RD

Academic Year: 2018-19

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	1701219071	SHIB SHANKAR SHAW	Shib Shankour Shaw
2	1701219165	ASHISH KUMAR PODDAR	Asirhaumar Porddien
3	1701219166	MEGHNATH SOREN	Meghnall Soren
4	1701219167	VISHAL KUMAR SINGH	Vishal Kumase Singh
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING COLLEGE F ENGINEERING BHUBANESWAR (COL.)

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 40

Programme: B.Tech in Electrical and Electronics Engineering

Name of the Course: Fundamentals of Domestic Appliances

Semester: 3rd

Academic Year: 2018-19

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENLINEERING COLLEGE (TENGINEERING BHUBANESWAR (COEB)

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE

Sheet No.

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Signature of the Course Coordinator

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COLLEGE(& ENGINEERING BHUBANESWAR (COL.) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 01

Programme: B.Tech in Electrical and Electronics Engineering

Name of the Course: Fundamentals of Domestic Appliances

Semester: 3rd

3rd Academic Year: 2018-19

Course Code (if any):

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COLLEGE F ENGINEERING BHUBANESWAR (COL.) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 02

Programme: B.Tech in Electrical and Electronics Engineering

Name of the Course: Fundamentals of Domestic Appliances

Semester: 3rd

Course Code (if any):

rd Academic Year: 2018-19

Dur	Duration: 5/30 pm -7:30 pm	m406; E		Date & Signatur	Date & Signature of the Student	
NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 20/07/18	Date: 23/07/18	Date: 24/07/18 Date: 25/07/18	Date: 25/07/18
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10	1701219276	1701219276 MANORAMA SAHOO	Managara Man	Manager of the state of the sta	Withing Is conflict Course Within Is um oz Diwes	WHILM Kumoz Diwey
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	Signature of the	Signature of the Course Coordinator	Thichre	Mishre	Mishra	Michro

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING COLLEGE F ENGINEERING BHUBANESWAR (COL.)

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 03

Programme: B.Tech in Electrical and Electronics Engineering

Name of the Course: Fundamentals of Domestic Appliances

Semester: 3rd

Course Code (if any):

Academic Year: 2018-19

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Signature of the		1701219276	1701219275	1701219273	1701219272	1701219271	1701219168	1701219167	1701219166	1701219165	1701219071	Reg. No./ Enrollment No.	Duration: 5:30pm-7:30pm
signature of the Course Coordinator		1701219276 MANORAMA SAHOO	1701219275 NITISH KUMAR DEHURY	1701219273 SUJIT KUMAR SAMANTARAY	1701219272 SAI PRAVAT SAMAL	1701219271 JAGANNATH PRASAD SHA	1701219168 GOVIND SOREN	1701219167 VISHAL KUMAR SINGH	1701219166 MEGHNATH SOREN	1701219165 ASHISH KUMAR PODDAR	1701219071 SHIB SHANKAR SHAW	NAME OF THE STUDENT	udos: E
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Mishro	_	Manusano	-	16	Cit on water of	2		Vishal Kusack	Meshanit Soen	distaling mucholes	chishe land or chair	Date: 27/07/18	Date & Signatur
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PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024





Optificate of Oompletion

has successfully completed the ADD-ON Course titledFundamentals of Dome	of Electrical & Electronics Engg. semester Third bearing reg	This is to certify that Mr./Ms. SHIB SHANKAR SHAW
Course titled Fundamentals of Domestic Appliances	semester Third bearing registration number 1701219071	SHANKAR SHAW , student of the Department

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

TRUE COPY

Course-Coordinator

Michra

Principal



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





Octificate of Completion

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

PRINCIPAL College of Engineering Bhubaneswar

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Course-Coordinator

Principal



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Optificate of Completion

has successfully completed the ADD-ON Course titledFundamentals of Domestic Appliances	of Electrical & Electronics Engg. semester Third bearing registration number 1701219166	MEGHNATH SOREN , student of the Department
	9166	ne Department

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

TRUE COPY

J. Michra

Course-Coordinator

Principal

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





Oertificate of Oempletion

e ADD-ON Course titledFundamentals of Domestic Appliances	has successfully completed the ADD-ON Course titled _
cs Engg. semester Third bearing registration number 1701219167	of Electrical & Electronics Engg.
VISHAL KUMAR SINGH , student of the Department	his is to certify that Mr./MsVISF

TRUE COPY J. Mishra

Course-Coordinator

Principal

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

PRINCIPAL PRINCIPAL College of Engineering Bhubaneswar



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





Optificate of Completion

his is to certify that Mr./Ms	Fundamentals of Domestic Appliances	has successfully completed the ADD-ON Course titled
JAGANNATH PRASAD SHA	mester Third bearing registration number 1701219271	of Electrical & Electronics Engg. se
		his is to certify that Mr./MsJAGANNATH PI

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

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Course-Coordinator

Principal

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