PadmabhooshanVasantraodadaPatil Institute of Technology, Budhgaon -416304

Department of Electrical Engineering

SY SEM ODD/III

Sr.No	Course Code	Course Name
1	BTECC302	Electrical Machines-I

Department :	**Electrical Engg.**
Academic Year:	2021-22
Class :	SY
Course Code :	BTECC302
Course Name :	**Electrical Machine- I**
Name of Faculty	**Dr. L.S.Patil**

Course Outcome

Upon successful cpmletion of the course students will be able to:	
CO1	To study contruction and working of transformers and D.C. machines.
CO2	To study performace of transformances and D.C. machines.
CO3	To study construction and working of special machines and d.c. motor.

CO - PO Mapping Table

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3												
CO2		2		3	2					2	3		3	
CO3	3	2												2

Sr.No	Course Code	Course Name
2	**BTECC302**	**Engg.Maths-III**

Department :	**Electrical Engg.**
Academic Year:	2021-22
Class :	SY
Course Code :	BTECC302
Course Name :	**Engg.Maths-III**
Name of Faculty	**PBL**

Course Outcome

Upon successful cpmletion of the course students will be able to:	
CO1	Understand and apply the properties of Laplace Transform and Fourier Transform.
CO2	Formulate partial differential equation and solve it for real word problem.
CO3	Analyse and map different complex functions and Solve integration of complex function by using Cauchy's integral formula.

CO - PO Mapping Table

CO	Programme Outcome (PO)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	3	2												
2	3	2												
3	3	2												

3 BTECC303 Electrical and Electronics Measurement

Department :	**Electrical Engg.**
Academic Year:	2021-22
Class :	SY
Course Code :	BTECC303
Course Name :	**Ele and Electro.Measurem**
Name of Faculty	**MCB**

Course Outcome	
Upon successful cpmletion of the course students will be able to:	
CO1	To identify philosophy of measurement.
CO2	To illustrate different methods analog and digital measurement
CO3	To describe principle of construction and operation of different transducer and dismay methods.

CO - PO Mapping Table

CO	Programme Outcome (PO)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	1	2	1											
2	1	2	2											
3	1	1	1											

4 BTE305 Engg. Material Science

Department :	**Electrical Engg.**
Academic Year:	2021-22
Class :	SY
Course Code :	BTECC305
Course Name :	**Engg. Material Science**
Name of Faculty	**S.A.Patil**

Course Outcome	
Upon successful cpmletion of the course students will be able to:	
CO1	To provide students with a through understanding of the properties and characteristics of various eng. Materials
CO2	To study and understand the physics behind the different electrical engg. Materials
CO3	To study and understand the properties and characteristics magnetic materials and some special purpose material like refractive ,radioactive materials.

CO - PO Mapping Table

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3												
CO2	2		3		2					2	3		3	
CO3	1	2		2										2

5 BTECC401 Network Theory

Department :	**Electrical Engg.**
Academic Year:	2021-22
Class :	SY
Course Code :	BTECC401
Course Name :	**Network Theory**
Name of Faculty	**S.S.Patil**

Course Outcome	
Upon successful cpmletion of the course students will be able to:	
CO1	Statement -1 To Understand the basic elements , Laws and circuit solving methods.
CO2	Statement - 2 Analyze AC and DC transient response of resistance,inductance and capacitance in terms of impedance.
CO3	Statement - 3 Characterize and model the network in terms of all network parameters and analyze.

CO - PO Mapping Table

CO	Programme Outcome (PO)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	2	3	2									2	2	3
2	3	2	2										3	3
3	3	2	3										3	2

6 Power System-I

Department :	**Electrical and Computer Department**
Academic Year:	2021-22
Class :	Sy Btech
Course Code :	BTECC402

Course Name :	**Power system -1**
Name of Faculty	**Mrs.S.P.Kamble**

Course Outcome	
Upon successful cpmletion of the course students will be able to:	
CO1	Understand Basic of power system
CO2	Analysis of transmission line its mechanical and electrical design
CO3	Understand AC and DC Distributions

CO - PO Mapping Table

CO	Programme Outcome (PO)													
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**
1	3	1										2	3	
2	3	3		3								2	3	
3	3	2		2								2	2	

7 BTECC403 Electrical Machines-II

Department :	**Electrical Engineering**
Academic Year:	2021-22
Class :	SY EE
Course Code :	BTEEC403
Course Name :	**Electrical Machine- II**
Name of Faculty	**Dr. L.S.Patil**

Course Outcome	
Upon successful cpmletion of the course students will be able to:	
CO1	To study contruction and working of three phase synchronous and inductuion machines.
CO2	To study performace of three phase synchronous and inductuion machines.
CO3	To study construction and working of special machines and single phase induction motor.

CO - PO Mapping Table

CO	Programme Outcome (PO)													
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**
1	2	3												
2		2		3	2					2	3		3	
3	3	2												2

8 BTEEPE405 Advance Renewable Energy Source

Department :	**Electrical Engineering**
Academic Year:	2021-22
Class :	SY
Course Code :	BTEEPE405C
Course Name :	**Advanced Renewable Energy Sources**
Name of Faculty	**Mr. M. V. Dongare**

Course Outcome	
Upon successful cpmletion of the course students will be able to:	
CO1	Explain different advanced renewable energy conversion systems and fuel cell.
CO2	Describe working of Wind, Solar and Bio energy with their applications.
CO3	Explain electrical storage systems used for renewable energy.
CO4	Explain interconnection of sources with the grid.

CO - PO Mapping Table

CO	Programme Outcome (PO)													
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**
1	2		3											
2		2		2	3					1	2			
3	2	3												
4			2				3				2			