



Shri Mahatma Basweshwar Education Society's
M.S. BIDVE ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & DTE, Mumbai , Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere)

P. O. Box No. 112, Barshi Road, Latur - 413 531 (Maharashtra)

'NAAC' Accredited

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CO-POs-PSOs Mapping

Course Name: Electronics Engineering

Subject Code : BTEXPE304															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	3	-	-	-	-	-	-	-	2	3	1	2
CO2	3	2	1	2	-	-	-	-	-	-	-	2	3	1	2
CO3	3	2	1	-	-	-	-	-	-	-	-	2	3	1	2
CO4	1	1	1	-	-	-	-	-	-	-	-	-	1	1	1
Avg(M)	2.5	1.75	1.25	2.5	-	-	-	-	-	-	-	2	2.5	1	1.75
POA	0.84	0.59	0.416	0.84	-	-	-	-	-	-	-	0.67	0.84	0.34	0.58

Subject Code : BTBS404															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	2	-	-	-	-	-	-	2	3	2	1
CO2	3	3	2	1	2	-	-	-	-	-	-	2	3	2	1
CO3	2	2	2	1	1	-	-	-	-	-	-	1	2	2	1
CO4	1	1	2	-	-	-	-	-	-	-	-	1	2	2	1

Avg(M)	2.25	2.25	2	1	1.7	-	-	-	-	-	-	1.5	2.5	2	1
POA	1.05	1.05	0.933	0.5	0.8	-	-	-	-	-	-	0.7	1.17	0.933	0.5

Subject Code: BTEXC402															
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2								2	2		2
CO2	3	2	2	2								2	2		2
CO3	3	2	2	3								3	2		2
CO4	3	3	3	3								3	3		3
Avg(M)	3	2.25	2.25	2.5								2.5	2.25		2.25
POA	1.8	1.35	1.35	1.5								1.5	1.35		1.35
Subject Code: BTEXL406															
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	2							2	2		2
CO2	2	2	2	2	3							2	2		2
CO3	3	2	2	3	3							2	3		2
CO4	3	2	2	3	2							2	3		2
Avg(M)	2.5	2	2	2.5	2.5							2	2.5		2
POA	2.5	2	2	2.5	2.5							2	2.5		2

Subject Code : BTEXC501															
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	1								2	2		2
CO2	2	2	1	1								2	2		2
CO3	1	1	2	2								2	2		2
CO4	2	2	2	2								2	2		2
Avg(M)	1.75	1.75	1.5	1.5								2	2		2
POA	1.225	1.225	1.05	1.05								1.4	1.4		1.4

Subject Code : BTEXC503															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	-	-	-	-	-	-	-	3	-	3
CO2	3	2		2	2	-	-	-	-	-	-	-	3	-	2
CO3			3	3		-	-	-	-	-	-	-	2	-	-
CO4	3	2		2	2	-	-	-	-	-	-	-	3	-	2
Avg(M)	3	2	2.5	2.25	2	-	-	-	-	-	-	-	2.75	-	2.33
POA	3	3	2.75	2.25	1.2	-	3	3	3	3	2.5	3	3	3	-

Subject Code :BTEXOE505A															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1						1		3	2	1	
CO2	3	3	3	1			1			1		3	3	1	
CO3	3	3	2	1			1			1		3	2	1	
CO4	3	3	2	1						1		3	3	1	

Avg(M)	3	3	2.25	1			1			1		3	2.5	1	
POA	1.4	1.4	1.05	0.46			0.46			0.46		1.4	1.16	0.46	
Subject Code : BTEXC602															
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1									1			2
CO2	2	1	1									2			2
CO3	2	1	1									2			2
CO4	1	1	1									1			2
Avg(M)	1.5	1	1									1.5			2
POA	1.05	0.7	0.7									1.05			1.4

Subject Code : BTEXL507															
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	2							2	2		2
CO2	2	2	2	2	3							2	2		2
CO3	3	2	2	3	3							2	3		2
CO4	3	2	2	3	2							2	3		2
Avg(M)	2.5	2	2	2.5	2.5							2	2.5		2
POA	2.5	2	2	2.5	2.5							2	2.5		2

Subject: BTEXP603B															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	3	2			1	1	1		1	2	1	
CO2	2	3	2	2	3			2	3	1		2	2	1	
CO3	3	2	3	3	2			1	1	2		1	3	2	
CO4	2	3	2	2	3			2	2	1		1	2	2	
Avg(M)	2.5	2.75	2.25	2.5	2.5			1.5	1.75	1.25		1.25	2.25	1.5	
POA	1.16	1.28	1.05	1.16	1.16			0.7	0.81	0.58		0.58	1.05	0.7	

Subject Code : BTEXF612															
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2		2			2	2	2	2	2	2	2	2
CO2	2	2	2		3			2	2	2	2	2	2	2	2
CO3	2	2	3		3			2	2	2	2	2	3	2	2
CO4	2	2	3		2			2	2	2	2	2	3	2	2
Avg(M)	2	2	2.5		2.5			2	2	2	2	2	2.5	2	2
POA	2	2	2.5		2.5			2	2	2	2	2	2.5	2	2

Subject Code : BTEXC701															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3		1						1		3	1	1	
CO2	3	3		1						1		3	2	1	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	2	2		3	1			2	2	3	2	
CO2	3	3	3	2	2			1	1	2	3	2	3	2	
CO3	3	3	3	3	1			1	1	2	2	2	3	2	
CO4	3	3	3	2	2			1	1	2	3	2	3	2	
Avg(M)	3	3	2.75	2.25	1.75		3	1	1	2	2.5	2	3	2	
POA	1.8	1.8	1.5	1.35	1.8								1.65		

Subject Code: BTETP802C															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2	3								2	2	2
CO2	3	3	3	2	3								2	2	2
CO3	2	2	2	2	2								1	1	1
Avg(M)	2.67	2.7	2.67	2	2.7								1.67	1.67	1.67
POA	1.958	2	1.958	1.47	2								1.23	1.23	1.23

Course Name: Electrical Engineering

Class	Semester	Program	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
SY	III	B.E. Electrical	Engineering Mathematics-III	CO1	3	3	1	1	1	1						3	3		
				CO2	3	3	1	1	1	1						3	3		
				CO3	3	2	1	1	1	1						3	3		
				CO4	3	2	1	1	1	1						3	3		
				Avg	3	3	1	1	1	1						3	3		

				POA	1.8	1.5	0.6	0.6	0.6	0.6						1.8	1.8		
SY	III	B.E. Electrical	Electrical Machine -I	CO1	3	2											3		
				CO2	3	3	1	2										2	
				CO3	3	2	2	3											2
				CO4	3	3	2	3	1							2	3		
				Avg	3	3	2	3	1							2	3	2	2
				POA	1.4	1.2	0.8	1.2	0.5							0.9	1.4	0.9	0.9
SY	III	B.E. Electrical	Electrical Engineering Materials	CO1	3					2	1					1	3		
				CO2	2	1				1						1		2	
				CO3	2	1		2		1						1	3		
				CO4	2					2				3		1	3		
				Avg	2.3	1.0		2.0		1.5	1.0			3.0		1.0	3.0	2.0	
				POA	1.1	0.5		0.9		0.7	0.5			1.4		0.5	1.4	0.9	
SY	III	B.E. Electrical	Electrical Electronics Measurement	CO1	3	1		2		2					2	2	3		
				CO2	3	2	2				2	2	2	2	1			2	
				CO3	3	3		1	2	1	1			1		1	2		
				CO4	3	3	2	3		1	3	1	2	2		2			2
				Avg	3	2	2	2	2	1	2	2	2	2	2	2	3	2	2
				POA	1.4	1.1	0.9	0.9	0.9	0.6	0.9	0.7	0.9	0.8	0.7	0.8	1.2	0.9	0.9
SY	III	B.E. Electrical	Network Thoery	CO1	3	1	1			1						2	3	1	3
				CO2	3	2	1		2	1						2	2		1
				CO3	3	2	2	2	2	1						2		2	
				CO4	3	2	3	2	2	1						2	2	1	
				Avg	3	2	2	2	2	1						2	2	1	2

				POA	1.4	0.8	0.8	0.9	0.9	0.5						0.9	1.1	0.6	0.9
SY	IV	B.E. Electrical	Electrical Machine-II	CO1	3	2											3		
				CO2	3	3	2	3										2	
				CO3	3	3	2	3						3		2	3		
				CO4	3	2	1	3											2
				Avg	3	3	2	3						3		2	3	2	2
				POA	1.4	1.2	0.8	1.4						1.4		0.9	1.4	0.9	0.9
SY	IV	B.E. Electrical	Analog and Digital Electronics	CO1	3								2				3		2
				CO2	3	3				2							3		
				CO3	2									3					
				CO4	2				3		1								
				Avg	2.50	3.00			3.00	2.00	1.00		2.00	3.00			3.00		2.00
				POA	1.17	1.40			1.40	0.93	0.47		0.93	1.40			1.40		0.93
SY	IV	B.E. Electrical	Power System	CO1	3	1	2	1								1	1		
				CO2	2	2	2	1									1		
				CO3	3	2	2	1										1	
				CO4	2	2	2	1										1	
				Avg	2.5	1.8	2.0	1.0								1.0	1.0	1.0	
				POA	1.2	0.8	0.9	0.5								0.5	0.5	0.5	
SY	IV	B.E. Electrical	Signals and Systems	CO1	3	2										2	2	2	
				CO2	2	3	2	3	2							2		1	
				CO3	3	1		3	2							2	2		2
				CO4	2	2	2	2	2							2		2	
				Avg	2.5	2.0	2.0	2.7	2.0							2.0	2.0	1.7	2.0
				POA	1.6	1.3	1.3	1.7	1.3							1.3	1.3	1.0	1.3

Class	Semester	Program	Name of the Subject	CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
TY	V	B.E. Electrical	Power System Analysis	CO1	2	2	1									1	1	2	
				CO2	2	2		2								1	2	2	
				CO3	2	2		2								1	2	2	
				CO4	2	2		2								1	2	2	
				Avg	2	2	1	2								1	2	2	
				POA	1.4	1.4	0.7	1.4								0.7	1.2	1.4	
TY	V	B.E. Electrical	Microprocessor and Microcontroller	CO1	2	2	3		3				3				3		2
				CO2	2		3	3	3								2	3	2
				CO3			3	3									3		1
				CO4	3	3	2							2			2	3	
				Avg	2	3	3	3	3				3	2			3	3	2
				POA	1.1	1.2	1.3	1.4	1.4				1.4	0.9			1.2	1.4	0.8
TY	V	B.E. Electrical	Power Electronics	CO1	3											2	3		
				CO2		3	2		2								3		2
				CO3		3		2										3	
				CO4	3	2	2	2			2		2					2	
				Avg	3.0	2.7	2.0	2.0	2.0		2.0		2.0			2.0	3.0	2.5	2.0
				POA	1.2	1.1	0.8	0.8	0.8	0.0	0.8	0.0	0.8	0.0	0.0	0.8	1.2	1.0	0.8
TY	V	B.E. Electrical	(B) Power Quality Issues Group B	CO1	3	1		2		2					2	2	3		

				CO2	3	2	2				2	2	2	2	1			2	
				CO3	3	3		1	2	1	1			1		1	2		
				CO4	3	3	2	3		1	3	1	2	2		2			2
				Avg	3	2	2	2	2	1	2	2	2	2	2	2	3	2	2
				POA	1.0	0.8	0.7	0.7	0.7	0.4	0.7	0.5	0.7	0.6	0.5	0.6	0.8	0.7	0.7
TY	V	B.E. Electrical	(B) Electrical Safety Group C	CO1	3	1	1			1						2	3	1	3
				CO2	3	2	1		2	1						2	2		1
				CO3	3	2	2	2	2	1						2		2	
				CO4	3	2	3	2	2	1						2	2	1	
				Avg	3	2	2	2	2	1						2	2	1	2
				POA	1.0	0.6	0.6	0.7	0.7	0.3						0.7	0.8	0.4	0.7
TY	VI	B.E. Electrical	Switchgear and Protection	CO1	3	-	-	-	2							2	3	2	2
				CO2	3	-	-	-	2							2	3	2	2
				CO3	3	2	-	-	-							2	3	3	2
				CO4	3	2	2	2	2							2	3	2	2
				Avg	3	2	2	2	2							2	3	2	2
				POA	1.4	0.9	0.9	0.9	0.9							0.9	1.4	1.1	0.9
TY	VI	B.E. Electrical	Electrical Machine Design	CO1	3								2				3		2
				CO2	3	3				2							3		
				CO3	2									3					
				CO4	2				3		1								
				Avg	2.50	3.00			3.00	2.00	1.00		2.00	3.00			3.00		2.00
				POA	1.67	2.00			2.00	1.33	0.67		1.33	2.00			2.00		1.33

[illegible]

BT EC H	VII	B.E. Electrical	Power System Operation & Control	CO1	3	2	2	2	2	2	-	-	2	2	-	3	3	3	3
				CO2	3	2	2	2	2	2	-	-	2	-	-	3	3	2	2
				CO3	3	2	2	2	2	2	-	-	2	-	-	3	3	2	2
				CO4	3	2	2	2	-	-	-	-	2	-	-	2	2	2	2
				Avg	3	2	2	2	2	2			2	2		3	3	2	2
				POA	1.6	1.1	1.1	1.1	1.1	1.1			1.1	1.1		1.5	1.5	1.2	1.2
BT EC H	VII	B.E. Electrical	High Voltage Engineering	CO1	2	2	3		3				3				3		2
				CO2	2		3	3	3								2	3	2
				CO3			3	3									3		1
				CO4	3	3	2							2			2	3	
				Avg	2	3	3	3	3				3	2			3	3	2
				POA	1.2	1.3	1.5	1.6	1.6				1.6	1.1			1.3	1.6	0.9
BT EC H	VII	B.E. Electrical	Electrical Drives	CO1	3						1		2		2		3	2	2
				CO2	3	3	2	2					3			1	3		
				CO3	3	3	1	3								1	3		
				CO4	3	3	3	2					2		1	1		2	
				Avg	3.0	3.0	2.0	2.3			1.0		2.3		1.5	1.0	3.0	2.0	2.0
				POA	1.4	1.4	0.9	1.1			0.5	0.0	1.1		0.7	0.5	1.4	0.9	0.9
BT EC H	VII	B.E. Electrical	Elective-IX Electrical Traction and Utilization	CO1	3	2	2	1		3						2	3		3
				CO2	1	1	2	2		2			2			2	2	3	3
				CO3	1	1	2	2		1						1	3	2	3
				CO4	2	1	3	2		2						3	3	3	
				Avg	2	1	2	2		2			2			2	3	3	3

				POA	0.8	0.6	1.1	0.8		0.9			0.9			0.9	1.3	1.2	1.4
BT EC H	VII	B.E. Electrical	Elective-X C) Electrical Power Quality	CO1	3	2		2								3	3	2	
				CO2	3	2		2								2	2	1	
				CO3	3											2	2		
				CO4	3											3	2	1	
				Avg	3	2		2								3	2	1	
				POA	2.0	1.3		1.3								1.7	1.5	0.9	
BT EC H	VIII	B.E. Electrical	High Power Multilevel Converters	CO1	3	3		3		2						3	3	2	
				CO2	2		3									2		2	3
				CO3	3	2	3	3									3	2	
				CO4	2			2								3	3		3
				Avg	3	3	3	3		2						3	3	2	3
				POA	1.6 7	1.67	2.00	1.78		1.33						1.78	2.00	1.33	2.00
BT EC H	VIII	B.E. Electrical	Entrepreneur ship Essentials	CO1	3	3	3		3								3	3	3
				CO2	3	3	3		3								3	3	3
				CO3	3	3	3	2	3								3	3	3
				CO4	3	3	3	2	3								2	2	3
				Avg	3.0	3.0	3.0	2.0	3.0								2.8	2.8	3.0
				POA	2.0	2.0	2.0	1.3	2.0								1.8	1.8	2.0

PO and CO Mapping (2022-23)

Subject and
Subject Code : Engineering Mathematics - III (BTBS301)

Subject CO attainment(COA)= 1.27

Faculty Name : Prof. S. G. Choudhari

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	3		1	2		1				
CO2	2	2	2			1	2	2				
CO3	1	2	3		1	2		1				
CO4	2	2	2			1	2	2				
Avg(M)	1.50	2.00	2.50		1.00	1.50	2.00	1.50				

Subject and
Subject Code : Interpersonal Communication Skills and
Self-Development for
Engineers

Subject CO attainment(COA)= 2.73

Faculty Name : Dr. S. V. Shete

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	3	2	3	2	2	3	3	3	2	2
CO2	3	2	3	2	2	3	3	3	3	3	2	2
CO3	2	2	3	3	3	2	3	3	2			
CO4	3	3	3	3	3	3	3	3	2	3	3	
CO5	2	3	3	3	2	3	3	3	2	3	3	3
Avg(M)	2.40	2.60	3.00	2.60	2.60	2.60	2.80	3.00	2.40	3.00	2.50	2.33

Subject and
Subject Code : Computer Architecture and
Organization (BTITC303)

Subject CO attainment(COA)= 1.6

Faculty Name : Prof. S. M. Kauthale

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	3		2	3	3	2	1	1	1
CO2	3	3	2	2		2	3	2	2	1	1	1
CO3	3	2	2	3		3	3	3	2	2	2	2
Avg(M)	3.00	2.33	2.00	2.67		2.33	3.00	2.67	2.00	1.33	1.33	1.33

Subject and
Subject Code : Object Oriented Paradigm with C++
(BTITC304)

Subject CO attainment(COA)= 2

Faculty Name : Dr. N. M. Halgare

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1		3			3	3				3		
CO2		3			2	2						
CO3	2	2	2		3	2		2				
CO4	1	2			2	2		1				
CO5	1	2			2	2		1				
Avg(M)	1.33	2.40	2.00		2.40	2.20		1.33		3.00		

Subject and
Subject Code : Data Structures and Applications
(BTITC305)

Subject CO attainment(COA)= 2.2

Faculty Name : Prof. K. A. Choure

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	3			1	2	2				2	2
CO2	2	3	2			3	2			2		
CO3	2		2		2	3	1	2				2
CO4	2	3				3				2	2	2
CO5		3	2			3		2		1		1
Avg(M)	1.75	3	2		1.5	2.8	1.667	2		1.667	2	1.75

Subject and
Subject Code : Organizational Behavior (BTITHM401)

Subject CO attainment(COA)= 3

Faculty Name : Dr. N. M. Halgare &

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1			3						3		3	3
CO2			3						3		3	3
Avg(M)			3.00						3.00		3.00	3.00

Subject and
Subject Code : Probability and Statistics (BTITC402)

Subject CO attainment(COA)= 2.8

Faculty Name : Prof. S. G. Choudhari

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	3	2	1	2	2	2	3	2	2	1
Avg(M)	2.00	2.00	3.00	2.00		2.00	2.00	2.00	3.00			

Subject and
Subject Code :

Discrete Mathematic (BTITC403)

Subject CO attainment(COA)= 3

Faculty Name : Dr. N. M. Halgare

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1		2	1		1	1						
CO2	1	2	2		2	2	1				1	
CO3	2	2	2	2	1	3		3				
CO4	2	2	2			2		1				
Avg(M)	1.67	2.00	1.75	2.00	1.33	2.00	1.00	2.00			1.00	

Subject and
Subject Code :
Faculty Name :

Design and Analysis of Algorithms
(BTITC404)

Subject CO attainment(COA)= 2.6

Prof. K. A. Choure

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	3				3	1	2				2
CO2		2	1			2	1	1				1
CO3		3		1		2	1	1				
CO4	1	2			1	3						1
Avg(M)	1	2.5	1	1	1	2.5	1	1.333				1.333

Subject and Elective-I (Web Technology)

Subject Code : (BTITPE405B)

Subject CO attainment(COA)= 3

Faculty Name : Prof. A. A. Patil

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	3		1		1	3	1	1	3
CO2	3	3		2	1	2	1	2	2	1		
CO3	2	2	2	2			2	1	3	2	3	3
CO4	2	2	2	1		1		3	2	1	2	2
Avg(M)	2.50	2.00	1.67	2.00	1.00	1.33	1.50	1.75	2.50	1.25	2.00	2.67

Subject and Software Engineering (BTITC501)

Subject Code :

Subject CO attainment(COA)= 2.8

Faculty Name : Prof. O. M. Patil

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2		1	2	2	2				2
CO2	2	2	1	2	2	1						
CO3	2	2	2	2	2			1	1			2
Avg(M)	2.33	2.33	1.67	2.00	1.67	1.50	2.00	1.50	1.00			2.00

Subject and Computer Networks and
Subject Code : Internetworking Protocols (BTITC502)

Subject CO attainment(COA)= 2.2

Faculty Name : Dr. N. M. Halgare &

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3		2	3	2		2				
CO2	3	3	2	3	3	2		2				
CO3	2	2	2	3	1	3		1				
CO4	1	2	3	3	1	1		1		1		
CO5				3								
CO6	3	3		2	3	2		2				
Avg(M)	2.40	2.60	2.33	2.67	2.20	2.00		1.60		1.00		

Subject and Elective-II(Data Visualization)
Subject Code : (BTITC503E)

Subject CO attainment(COA)= 1.8

Faculty Name : Prof. D. V. Biradar

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1	2	1			2				
CO2	1	1		1		2						
CO3	1	1		1	2	2						
CO4												
CO5												
Avg(M)	1.00	1.00	1.00	1.33	1.50	2.00		2.00				

Subject and Elective-III (Programming in Java)

Subject Code : (BTITC504C)

Subject CO attainment(COA)= 1

Faculty Name : Prof. N. P. Kamble

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	3	1	2	3		1				
CO2	3	3	2	3	2	3						
CO3	3	3	2	3	2	3						
Avg(M)	2.67	3.00	2.33	2.33	2.00	3.00		1.00				

Subject and Operating Sysytem (BTITC601)

Faculty Name : Prof. S. M. Kauthale

Subject CO attainment(COA)= 2.8

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	3		3	2	3	2			
CO2	3	3	2	3		3	2	3	2			
CO3	2	3	2	3		3	2	3	3			
CO4	3	3	2	3		3	2	3	2			
CO5	3	3	2	3		3	2	3	2			
Avg(M)	2.80	3.00	2.00	3.00		3.00	2.00	3.00	2.20			

Subject and Database Management Systems

Subject Code : (BTITC602)

Subject CO attainment(COA)= 3

Faculty Name : Prof. O. M. Patil

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2			2			2				
CO2	2	2	2			1						
CO3	1		1				2					
CO4	2											
CO5												
CO6												
Avg(M)	2.00	2.00	1.50		2.00	1.00	2.00	2.00				

Subject and Elective- IV (Software Testing)

Subject Code : (BTITPE603A)

Subject CO attainment(COA)= 3

Faculty Name : Prof. N. P. Kamble

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2			3	3					
CO2	3	3	2		1	3	3					
CO3	3	3	2		1	3	3					
CO4	3	3	3	1	2	2	2					
CO5	1	2				2	2					
Avg(M)	2.60	2.80	2.25	1.00	1.00	2.60	2.60					

Subject and Compiler Design (BTITOE604A)
Faculty Name : Prof. N. P. Kamble &

Subject CO attainment(COA)= 2.6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2		1	2	1	2				
CO2	2	2	3		2	2				1	1	
CO3	1	3	1		2	2			1	2	1	
Avg(M)	1.67	2.67	2		1.67	2	1	2	1.00	1.50	1.00	

Subject and Cloud Computing and Storage
Subject Code : Management (BTITC701)

Subject CO attainment(COA)= 2.47

Faculty Name : Prof. K. A. Choure

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1		3	3	3	2			1	2
CO2			3	2					1			1
CO3	2			1								1
CO4	3	3	3	1	3	2		2			2	3
CO5	3	2	2	2		3					1	2
Avg(M)	2.75	2.33	2.25	1.50	3.00	2.67	3.00	2.00	1.00		1.33	1.80

Subject and
Faculty Name : Artificial Intelligence (BTITC702)
Prof. D. V. Biradar

Subject CO attainment(COA)= 2.6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	2	3		2	2					
CO2		2	1	2	1	3	2	2				
CO3	2	2	1	2	1	2		1				
CO4	1	2	2	1	2	2	2	2				
CO5	1	2	1		2	2	2					
CO6	2	3	1	1		2	1	1				
CO7	2	3	1		1	2	2	1				
Avg(M)	1.67	2.29	1.29	1.80	1.40	2.14	1.83	1.40				

Subject and
Faculty Name : Elective VII (Electronic Payment
Prof. O. M. Patil

Subject CO attainment(COA)= 3

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	3					2	2	2	2	2
CO2				2			1			2	1	2
CO3				1						2		2
Avg(M)	2.00	2.00	3.00	1.50			1.00	2.00	2.00	2.00	1.50	2.00

Subject and Elective VIII (Machine Learning)

Subject Code : (BTITOE704A)

Subject CO attainment(COA)= 3

Faculty Name : Prof. S. M. Kauthale

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	3	2	1	3	3	2	2	1	1	1
CO2	3	2	3	2	1	3	3	2	2	1	1	1
CO3	3	3	3	3	1	2	2	3	3	2	1	2
CO4	3	3	3	3	1	2	2	3	3	2	1	2
Avg(M)	3.00	2.50	3.00	2.50	1.00	2.50	2.50	2.50	2.50	1.50	1.00	1.50

Subject and Elective IX (Information Security)

Subject Code : (BTITPE705B)

Subject CO attainment(COA)= 2.33

Faculty Name : Prof. A. A. Patil

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	3	3	1	1		1		2		1
CO2	2	1	2	3	3	1		2	1	1		
CO3	2	2	2	2		1		2	1	2	2	3
CO4	2	2	2	1		1		3	2	1	2	2
CO5	2	1	2	3	3	1		2	1	1		
CO6	2	1	2	3	3	1		1	1	1		
CO7	3	2	2	3	1			1				1
CO8	3	2	2	3	1			1	1			1
CO9	3	1	2	1	1	1		1	1			1
Avg(M)	2.33	1.56	2.11	2.44	1.86	1.00		1.56	1.14	1.33	2.00	1.50

Subject and Internet of Things (BTITC801)

Subject CO attainment(COA)= 3

Faculty Name : Prof. D. V. Biradar

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	3	2	3	2	2				
CO2	2	2										
CO3	3	2	1	2	1	2						
CO4								2				2
Avg(M)	2.67	2.33	1.50	2.50	1.50	2.50	2.00	2.00				2.00

Subject and Mobile Computing (BTITC802)

Subject CO attainment(COA)= 3

Faculty Name : Prof. A. A. Patil &

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	2	1	2	2	2	2	2	2	2
CO2	3	3	3	2	1	2	2	2	2	2	2	2
CO3	2	3	2	2	2	2	2	1	2	2	1	1
CO4	2	3	2	2	2	2	2	1	2	2	1	1
CO5	3	3	3	2	1	2	2	2	2	2	2	2
Avg(M)	2.60	3.00	2.60	2.00	1.40	2.00	2.00	1.60	2.00	2.00	1.60	1.60