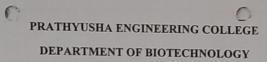
PRATHYUSHA ENGINEERING COLLEGE PO ATTAINMENT 2016-2020 BATCH DEPARTMENT OF BIOTECHNOLOGY

SEM	con	RSE NAME	-	Ces					TENT O											
SEM	Coc	KSE NAME	Ces	Attainme	CO Result	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POII	PO12	PSOI	PSO2	PSOT
			COI	3.0	YES													1001	1000	1
			CO2	2.00	YES							2.0			2.0	2.0	2.0			
	HS6151	Technical English - I	CO3	3.00	YES							13			2.0	2.0	2.0			
			CO4	3.00	YES										2.0					
			CO3	3.00	YES															
			COI	3.00	YES	3.0	2.0					1.0			3.0	3.0	3.0			
			CO2	3.00	YES	3.0	2.0													
	MASISI	Mathematics - I	CO3	3 00	YES		2.0													Management
			CO4	3.00	YES															
			COS	3.00	YES	3.0	2.0													
			CO1	3.00	YES	3.0	2.0		2.0	2.0										
			000	3.00	YES	3.0	2.0		20	2.0										
	PH6151	Engineering Physics	CO3	3.00	YES	3.0	2.0		20	2.0										
1			C04	3.00	YES															
			005	3.00	YES	3.0	2.0		20	2.0										
			COI	3.00	YES	3.0	2.0		2.0	2.0										
			CO2	3.00	YES	3.0	1.0		2.0											
	CY6151	Engineering Chemistry - I	CO3	3.00	YES	3.0	10		1.0											
		Chemistry - I	CO4	3.00	YES															
			CO5	3.00	YES	2.0			2.0											
			CO1	3.00	YES	3.0	2.0		2.0											1
	GE6152	Engineering Graphics	002	3.00	YES	3.0	3.0													
		Graphics	CO3	3.00	YES		3.0							1.0	1.0					
			001	2.00	YES	2.0	2.0	2.0	1.3	2.0								10		
		Comme	CO2	3.00	YES	2.0	2.0	2.0	2.0	2.0							2.0	2.0		
	GE6151	Computer Programming	CO3	2.00	YES	2,0	2.0	2.0	1.3	2.0							2.0	2.0		
			CO4	3.00	YES	2.0		2.0	1.3	2.0							1.3	1.3		
			001	2.00	YES	2.0									2.0	2.0	2.0			
	\$856261	Technical English -	CO2	1.00	YES	1.0										2.0	20		1	1
	1	5	CO3	3.00	YES	3.0	2.0									1.0	1.0			
			COI	2.00	YES	2.0	13													
			COZ	3.00	YES	2.0	1 3													
	3446351	Mathematics - II	1003	3.00	YES															
	MINISTED 1	processor is	-	3.00	Name and Address of the Owner, where	20	2.0		-											
			CO4 CO5		YES	3.0	2.0		20	20									-	
	-		-	3.00	YES	3.0			20	20							-	-	-	
	-	-	CO1		YES	3.0	2.0		2.0	2.0										
	F 2000232	Physics of Materials		3.00	YES	3.0	2.0		2.0	2.0			-							-
	-		CO3	3.00	YES	3.0	-		2.0						-		-		1	1
0			COI	2.00	YES	2.0	-	-	13							-	-		-	-
	-	Classicary for Technologism	CO2	2.00	YES	2.0	-	-				-			-		-	-	-	1
	C Y6232	Technologous	C03	2.00	YES	2.0	-	-					-		-	-	-	-	-	1
			CO4	2.00	YES	2.0	-	-	13				-	-	-	-	-	-	-	1
			005	2.00	YES		1		1	13					1				3.0	1

			01	2.00	YES			3.0			1.3	2.0		BI		T	T			
		C	O2	1.00	YES	0.7		1.0	0.7					-07		-				
	BT6201		O3	3.00	YES	2.0		3.0	2.0											
			04	2.00	YES	1.3		2.0	1.3											
L			O5	2.00	YES	2.0	1.3		1.3											
			01	3.00	YES				2.0											
1	BT6202	_	:02	3.00	YES	3.0	2.0		2.0											
4			:03	3.00	YES	3.0	2.0		2.0											
		reneforms and	:01	2.00	YES	1.3			1.3	1.3										
		Differential Equation	02	2.00	YES				1.3											
ı			03	2.00	YES		2.0		1.3											
1			201	3.00	YES	2.0	3.0	3.0	2.0	2.0	2.0									
			02	3.00	YES				2.0								2.0			
			CO 3	3.00	YES				2.0											
			004	2.00	YES				1.3											
			201	3.00	YES	2.0			2.0											
	Contract of the last		CO2	3.00	YES				2.0	3.0										
	BT6302	Bioorganic Chemistry	CO3	2.00	YES				1,3							3.0				
			CO4	3.00	YES	3.0					-									
			CO5	3.00	YES			2.0		3.0										
			COI	3.00	YES									2.0				2.0		
	DT(202	Cell Biology	CO2	3.00	YES											2.0				
	BT6303	Cell Biology	CO3	2.00	YES														1.3	
			CO4	2.00	YES					2.0										
			COI	3	YES			3.0						2.0	2.0					
	DTC204		CO2	3	YES		-17	2.0	2.0			1.0	4:		2.0				40	
	B10304	Biotechnology	CO3	3	YES			2.0	2.0											
			CO4	3	YES			2.0	2.0											
		Environmental	CO1	3.00	YES															
			CO2	3.00	YES	3.0	2.0													
		Engineering	CO3	3.00	YES	3.0	2.0													
			COI	3.00	YES	3.0	2.0													
	MA6468	Probability and Statistics	CO2	3.00	YES	2.0	3.0		2.0											
			CO3	3.00	YES		3.0		2.0										2.0	
			COI	3.00	YES									3.0						
	BT6401	Analytical Methods	CO2	3.00	YES	2.0	3.0		2.0											
	B10401	and Instrumentation	CO3	3.00	YES	2.0	2.0			2.0										
	1		CO4	3.00	YES	1.0	1		2.0											
			COI	3.00	YES				2.0	3.0										
	DT(455	Applied	CO2	3.00	YES				2.0											
	BT6402	Thermodynamics for Biotechnologists	CO3	1.00	YES	2.0														
	1	Dioectinologists	CO4	2.00	YES		2.0													
	1		COS	3.00	YES				2.0						2.0					
			COI	3.00	YES															
	1		CO2	3.00	YES	2.0														
	BT6403	Heat Transfer	CO3	2.00	YES	1	3.0											3.0		
	D10-03	Operations	CO4	3.00	YES		1		3.0	3.0			2.0							
	1		COS	3.00	YES		-		1	1			1	2	0			2.0		
	-	-	COI	3.00	YES			2.0	3.0				2.0					3.0		
	1	Enzyme Technology	COI	2.00	YES	-		1.3	7.0				1.3							1
	PITAMA	1	002	2.00	ILS			1.3	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	and the same of the same of	the state of the last	The second second	1.3	THE RESERVE TO SERVE THE PARTY.	The Real Property lies	THE RESERVE AND ADDRESS.				_

1		Biotransformation	CO3	2.00	YES	_		1.3	2.0			6	1.3				I			
ı			CO4	2.00	YES	C-			2.0			-	1.3					2.0		
ı	THE PERSON NAMED IN		COI	3.00	YES		3.0						1.3					2.0		
ı	100000		CO2	3.00	YES				3.0				2.0							
ł		Bioprocess Principles	CO3	3.00	YES					2.0			2.0							
1		rimcipies	CO4	3.00	YES						2.0									
H			CO5	3.00	YES	3.0			2.0	2.0	2.0									
ī			COI	3.00	YES		2.0		2.0	2.0						2.0				
B			CO2	3.00	YES				2.0	2,0						2.0				
в	BT6501		CO3	3.00	YES		3.0		2,0					3.0					-	
8		Proteomics	CO4	3.00	YES		210							2.0						
			COS	3.00	YES									2,0		2.0				
			COI	3.00	YES											2.0	20			
			CO2	2.00	YES	2.0				1.2							3.0	-	-	
	BT6502	Bioprocess	CO3	1.00	YES	1.0	1.0		0.7	0.7								-		-
	310302	Engineering	CO4	3.00	YES	1.0	3.0		0.7				-							
			COS	2.00	YES		3.0			2.0										
	-			3.00				2.0		1.3								1.3		
	100000		COI		YES			2.0									-			
	DTECCO	Mass Transfer.	CO2	1.00	YES		-	2.0		-	2.0						0.7		2.0	
	BT6503	Operation	CO3	1.00	YES	2.0		2.0			-				3.0			Description 1	3.0	
			CO4	1.00	2000	3.0														
			CO5	1.00	YES			2.0												
			CO I	3.00	YES				2.0					2.0						
	BT6504	Molecular Biology	CO 2	3.00	YES															
			CO3	2.00	YES														2.0	
			CO 4	3.00	YES				3.0	*						1:				
			COI	3.00	YES					3.0										
		Ricoharmaceutical	CO2	3.00	YES						2.0	3.0	1.0	The same of the sa						
	BT 6006	Biopharmaceutical Technology	CO3	3.00	YES											2.0				
			CO4	3.00	YES	2.0	3.0			2.0	2.0									
			CO5	3.00	YES	2.0	3.0			2.0	2.0									
			COI	2.00	YES	1.3	2.0			1.3	1.3									
		Description of Cond	CO2	3.00	YES		2.0	3.0			2.0									
	BT 6003	Principles of food processing	CO3	3.00	YES				3.0		2.0			2.0				2,0		
			CO4	3.00	YES				3.0		2.0			1.0	2.0					
			CO5	3.00	YES					2.0										
ı			COI	3.00	YES		2.0	3.0												
	1	Total Quality	CO2	3.00	YES				3.0					3.0				2.0		
	BT6601	Management for	CO3	2.00	YES				2.0					3.0		100000				
		Biotechnologists	CO4	2.00	YES				2.0					0.7	2.0					
	1000	1	COS	3.00	YES	3.0			2.0		2.0									
	1		COI	2.00	YES	2.0			1.3		1.3									
	1	1	CO2	2.00	YES	2.0			1.3		1.3									
	BT6602	Immunology	CO3	3.00	YES	3.0			2.0		2.0									
	1		CO4	3.00	YES	3.0	3.0		2.0		2.0							3.0		
	1		COS	3.00	YES	3.0	3.0		2.0		2.0							3.0		
	-		COI	2.00	YES	2.0	2.0		1.3		1.3							2.0		-
	1		CO2	2.00	YES	2.0	2.0		1.3		1.3				1			2.0		-
	BT6603	Genetic Engineering and Genomics	CO3	3.00	YES	3.0	3.0		3.0		1.5			3.0			2.0	3.0	-	-
			COS			1.0	1.0		1.0					1.0				_		-
	1		CO4	1.00	YES	1.0	1.0	Maria Caraca	1.0	The same of the same of	The same of the same of	The second second		1.0	A CONTRACTOR OF THE PARTY OF TH		0.7	1.0	The state of the s	

																E.		4115	1	111
			COI	2.00	YES			-					7							
		Chemical Reaction	CO2	3.00	YES			_	3.0					1-4						
	BT6604	Engineering	CO3	2.00	YES			2.0		1.3	1.3						2.0			
-			CO4	2.00	YES														12	
			CO5	3.00	YES			3.0		2.0	2.0								1.3	
			COI	3.00	YES			3.0		2.0	2.0								2.0	
	BT 6007	Animal Biotechnolog		3.00	YES			3.0		2.0	2.0								2.0	-
			CO3	3.00	YES			2.0		2.0									2.0	
			CO4	3.00	YES		3.0												3.0	
			COI	3.00	YES										1.0			3.0		
			CO2	3.00	YES		2.0		2.0						1.0			3.0		
	BT 6010	Plant Biotechnology	CO3	3.00	YES				3.0									3.0		
			CO4	3.00	YES		2.0											3.0		
			CO5	3.00	YES													3.0		
	100000000000000000000000000000000000000		COI	2.00	YES			2.0	2.0		2.0					20		3.0		
		Bioinformatics and	CO2	2.00	YES			2.0	2.0		2.0					1.3		2.0		
	BT6701	Computational	CO3	3.00	YES				3.0									2.0		
		Biology	CO4	1.00	YES			1.0	1.0		1.0					3.0		3.0		
			CO5	2.00	YES	1.3		3.0	2.0							1.0		1.0		
			COI	2.00	YES	0.7		1.3	2.0	3.0								2.0		2.0
			CO2	2.00	YES	3.0		1.3		3.0		3.0						2.0		-
	BT6702	Downstream	CO3	1.00	YES	0.3		0.3		0.7		3.0							2.0	
		processing	CO4	1.00	YES							0.7		0.7		1.0	1.0	1.0	3.0	
-			CO5	3.00	YES		Participal of					3.0		2.0		3.0	3.0	3.0	3.0	1.0
			COI	3.00	YES											3.0	3.0	3.0	3.0	1
711	44	Creativity,	CO2	3.00	YES		10						*:				3.0		7-	
/11	BT6703	Innovation and New Product	CO3	3.00	YES							3.0		2.0		3.0	3.0	3.0	3.0	
		Development	CO4	3.00	YES		2.0													
			CO5	3.00	YES			3.0										3.0	3.0	1.0
			CO1	1.00	YES									2.0					3.0	
			CO2	2.00	YES			2.0			2.0							2.0		
	BT 6014	Bioindustrial Entreprenurship	CO3	3.00	YES			3.0			3.0							3.0		
		D. Dayrona any	CO4	3.00	YES			3.0			3.0							3.0		
			CO5	3.00	YES			3.0			3.0							3.0		
			COI	3.00	YES			3.0			3.0							3.0		-
	DT (012	Tierre Environment	CO2	3.00	YES			3.0	3.0	3.0										
	B1 6017	Tissue Engineering	CO3	3.00	YES			3.0	3.0	3.0										
			CO4	3.00	YES			3.0	3.0	3.0										-
			COI	3.00	YES			3.0	3.0	3.0										-
	13000		CO2	3.00	YES			3.0	3.0	3.0										-
	BT 6811	Project work	CO3	3.00	YES		3.0	3.0	3.0	3.0	2.0									-
			CO4	3.00	YES		3.0	3.0	3.0	3.0	2.0									23
			COS	3.00	YES		3.0	3.0	3.0	3.0	2.0									1 3
		Δ	VERA	CE											20	2.1	2.0	2.4	2.4	30.66
				TOO		2.3	2.2	2.3	2.0	2.1	1.9	2.1	1.6	2.0	2.0	2.1		32	- 11	28.17692
																28	26.66		347	The Real Property



	PO ATTAINME	ENT 2016-2020 B	ATCH					
PO /PSO	Method assessment	Direct assess	sment (80%)		In	direct As	sessment	(20%)
No		Internal Assessment (40%)	Semester End Examination	Direct Assess	End of Course	Student Exit	Indirect Assessme	% PO /PSO Attainment
PO I	Ability to apply knowledge of mathematics, science, modern biology, engineering and biotechnology.	31	49	64	17	19	18	82
PO 2	Ability to identify, formulate and solve bio-engineering problems	29	44	59	16	19	18	76
PO 3	Ability to design a system, a component, or a process to meet desired needs within realistic constraints such as economic, environmental,	31	50	65	17	19	18	83
PO 4	Abilityto design and conduct experiments as well as to analyze and interpret data to develop modern drug	27	48	60	16	19	18	77
PO 5	Abilityto select and apply appropriate techniques, resources and modern biotechnology tools	28	48	61	14		14	75
PO 6	Ability in apply reasons informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent	25	51	61	15	17	16	77
PO 7	Ability to understand the impact of professional engineering solutions in societal and environmental contexts	<₹ 28	48	61	17	18	18	78
PO 8	Ability to have understanding of professional and ethical responsibility	21	47	55	13	17	15	70
PO 9	Possess ability to function in multi-disciplinary teams	27	49	61	15		15	76
PO 10	Ability to communicate effectively	27	50	61	15	18	17	78
PO 11	Ability to engage themselves in life-long learning	28	47	60	18	18	18	78
PO 12	Ability to understand engineering and management principles and	27	52	63	16		16	79
PSO 1	The graduates are expected to indulge in the field of genetic	32	56	70	19		19	89
	The graduates are expected to possess ability to separate the	32	50	66	16	18	17	83
PSO 2	The graduates are expected high caliber to solve societal problems like	28	60	71	20	18	19	90
PSO 3	100d, chvironnental, agriculture, neutri etc							

PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF BIOTECHNOLOGY OVERALL PO ATTAINMENT 2016-2020 BATCH

PSO N	Method assessment	Target (%)	Attained (%)	% PO /PSO Attaine
PO 1	Ability to apply knowledge of mathematics, science, modern biology, engineering and biotechnology.	70	82	Yes
PO 2	Ability to identify, formulate and solve bio- engineering problems	70	76	Yes
	Ability to design a system, a component, or a process to meet desired needs within realistic constraints such as economic, environmental, social, ethical, health and safety, manufacturability and sustainability	70	83	Yes
PO 3	Abilityto design and conduct experiments as well as to analyze and interpret data to develop	70	77	Yes
PO 4	Modern drug Abilityto select and apply appropriate techniques, resources and modern	70	75	Yes
	Ability in apply reasons informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice	70	77	Yes
	Ability to understand the impact of professional engineering solutions in societal and environmental contexts	70	78	Yes
	Ability to have understanding of professional and ethical responsibility	70	70	yes
	Possess ability to function in multi-disciplinary	70	76	Yes
10,	teams effectively	70	78	Yes
	Ability to communicate effectively Ability to engage themselves in life-long	70	78	Yes
	Ability to understand engineering and management principles and apply those to one's own work, as a member and leader in a team.	70	79	Yes
	The graduates are expected to indulge in the	70	89	Yes
	field of genetic engineering in order toproduce a regraduates are expected to possess ability to separate the components obtained at the end of biological process.	70	83	Yes
	biological process. The graduates are expected high caliber to solve societal problems like food, environmental, agriculture, health etc	70	90	Yes

Target - 60% of the students will get above 65%

Head, Department of Brotechnology
Prathyusha Engineering College
Tiruvallur-602025, Tamilnadu, INDIA

PRATHYUSHA ENGINEERING COLICIE DEPARTMENT OF BIOTECHNOLOGY PO ATTAINMENT 2015-2019 BATCH

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	cou		Cos	Cos Attainm ent in %	CO Result	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9		PO11		PSO1	PSO2	PSO3
п			COI	2.0	YES							1.3			2.0	2.0	2.0			
١			CO2	2.0	YES							1.3			2.0	2.0	2.0			
۱	HS6151	Technical English - I	CO3	2.0	YES										2.0					
۱			CO4	2.0	YES															
۱			CO5	2.0	YES							1.0			2.0	2.0	2.0			
ı			COI	3.0	YES	3.0	2.0													
ı			CO2	3.0	YES	3.0	2.0													
ı	MA6151	Mathematics - I	CO3	3.0	YES															
ı			CO4	2.0	YES															
ı			CO5	3.0	YES	3.0	2.0													
			COI	2.0	YES	2.0	1.3		1.3	1.3										
۱			CO2	2.0	YES	2.0	1.3		1.3	1.3										
	PH6151	Engineering Physics -	CO3 .	2.0	YES															
			CO4	3.0	YES															
			CO5	2.0	YES	2.0	1.3		1.3	1.3										
ı			COI	3.0	YES	3.0	2.0	100000	2.0											
ı			CO2	2.0	YES	2.0	1.0		1.0											
ı	CY6151	Engineering Chemistry	CO3	2.0	YES															
ı			CO4	2.0	YES		(0)													
ı		0.00	CO5	2.0	YES	2.0			1.3									1		
ı			COI	2.0	YES	2.0	2.0													
ı		100000000000000000000000000000000000000	CO2	2.0	YES		2.0							1.0	1.0					
١	GE6152	Engineering Graphics	CO3	3.0	YES		3.0											1.0		
ı			CO4	2.0	YES	2.0	2.0	2.0	1.3	2.0							2.0	2.0		
ı			CO5	2.0	YES	2.0	2.0	2.0	1.3	2.0							1.3	1.3		
1			COI	2.0	YES			2.0	1.3	2.0							1.3	1.3		
ı	GE6151	Computer	CO2	2.0	YES	2.0									2.0	2.0	2.0			
١	OLUISI	Programming	CO3	2.0	YES	2.0										2.0	2.0			
1			CO4	2.0	YES	2.0										2.0	2.0			
1			COI	2.0	YES	2.0	1.3													
	HS6251	Technical English - II	CO2	2.0	YES	2.0	1.3													
١			CO3	2.0	YES															
			COI	2.0	YES															
			CO2	3.0	YES	3.0	2.0													
١	MA6251	Mathematics - II	CO3	3.0	YES	3.0	2.0		2.0	2.0				B. Callery Co.						
1			CO4	2.0	YES	2.0	1.3		1.3	13										1
1			COS	2.0	YES	2.0	1.3		1.3	1.3										-
ı			COI	2.0	YES	2.0			13											1
1			CO2	2.0	YES	2.0			1.3								1		-	
	PH6252	Physics of Materials	CO3	2.0		2.0													-	-
ı			CO4	2.0	YES	2.0								1				-	-	-
ł			COI	2.0	YES	2.0			1.3					-			-		-	-
١		A CONTRACTOR OF THE PARTY OF TH	CO2	2.0	YES	2.0			1,3	1.3				-	-	-		-	-	
	CY6252	Chemistry for Technologists	CO3	2.0	YES					1	1.3	2.0	-			-		-	3.0	
А	-10202	Technologists	203	2.0	1100			_			1.3	2.0		A CONTRACTOR OF			and the same	and the same of	A CONTRACTOR OF THE PARTY OF TH	

	1	1 -	CO4	3.0	YES	2.0		3.0	2.0											
	1		COS	3.0	YES	2.0		3.0	2.0						-					
			COI	3.0	YES	2.0		3.0	2.0							_				
			CO2	2.0	YES	2.0	1.3	3,0	1.3											
	BT6201	Biochemistry	CO3	2.0	1153	2.0	1.3		1.3											
			CO4	2.0	YES	2.0	1.3		1.3											
			COI	2.0	YES	2.0	1.3		1.3											
	1		CO2	2.0	YES	1.3	1.5		1.3	1.3										
	B16202	Microbiology	CO3	2.0	YES	1,3			1.3	1,5										
	1		CO4	2.0	YES		2.0		1.3											
			CO1	2.0	YES	1.3	2.0	2.0	1.3	1.3	1.3									
			CO2	2.0	YES	1.0	2,0	2.0	1.3	1.5	13						V 2			
	MA6351	Transforms and	CO3	2.0	YES				1.3								1.3			
		Differential Equation	CO4	2.0	YES				1.3											
			CO5	2.0	YES	2.0			1.3											
			COI	2.0	YES	2.0			1.3	3.0										
		Structuremetry and	CO 2	3.0	YES				2.0							2.0				
	BT6301	Stoichiometry and Fluid Mechanics	CO 3	3.0	YES	3.0			2.0							3.0				
			CO 4	3.0	YES	3.0		2.0		3.0										
			COI	2.0	YES			2.0		3.0				1.2				2.0		
	1		CO2	2.0	YES									1.3		20		2.0		
	BT6302	Bioorganic Chemistry	CO3	2.0	YES											2.0				
	0,000	brongane Chemisty	CO4	2.0	YES					2.0									13	
ш			COS	2.0	YES			2.0		2.0				2.0	2.0					
			COI	2.0	YES			1.3	1.2			10		2.0	2.0					
			CO2	2.0	YES			1.3	1.3			1.0			2.0					
	BT6303	Cell Biology	CO3	2.0	YES			1.3	1.3					-						-
	D1000	Cer binings	004	2.0	YES			1.3	1.3											
			COS	2.0	YES	2.0	13													
			COI	3.0	YES	3.0	2.0													
		Basic Industrial	CO2	3.0	YES	3.0	2.0													
	BT6304	Biotechnology	CO3	3.0	YES	2.0	3.0		2.0											
			CO4	2.0	YES	2.0	2.0		1.3										1.3	
			COI	2.0	YES									2.0						
		Environmental Science	CO2	2.0	YES	13	2.0		1.3					2.0						3.0
	GE6351		CO3	2.0	YES	1.3	2.0			2.0										3.0
			CO4	3.0	YES	1.0			2.0	2.0										
			COI	3.0	YES				2.0	3.0										
	MA6468	Probability and Statistics	CO2	3.0	YES				2.0	2.0										
		Statistics	CO3	3.0	YES	2.0														
			COI	3.0	YES		2.0													
		Analytical Methods	CO2	3.0	YES				2.0						2.0					
	BT6401	and Instrumentation	CO3	3.0	YES				2.0						2.0					
			CO4	3.0	YES	2.0														
			COI	3.0	YES		3.0											3.0		
		Applied	CO2	2.0	YES				3.0	3.0			2.0							
	BT6402	Themodynamics for	CO3	2.0	YES				2.0	3.0			2.0	2.0				2.0		
	210102	Bicardinologias	CO4	2.0	YES			1.3	2.0				13	2.0				20		
			COS	3.0	YES		Company of	2.0	20				2.0	2000						
IV			COI	3.0	YES			2.0	3.0				2.0		Total Control					
		-	CO2	2.0	YES		-	-	2.0				1.3				1000000	2.0		
	BT6403	Heat Transfer Operations	CO1	3.0	YES		3.0		2.0				1.3		1000000					
	1		CO4	2.0	YES		3.0		3.0									NAME OF TAXABLE PARTY.		
													13							

	1	COI	2.0	YES	-5				2.0			10							
BT8404	Enzyme Technology	CO2	3.0	YES	-					2.0		-							
D10404	and Biotransformation	CO3	3.0	YES	3.0			2.0	2.0										
		CO4	3.0	YES		2.0			2.0						2.0				
		CO1	3.0	YES				2.0							2.0				
		CO2	3.0	YES		3.0							3.0						
BT6405	Bioprocesa Principles	CO3	3.0	YES									2.0						
		CO4	3.0	YES									2,0		2.0			-	
		CO5	3.0	YES											2.0	20			-
		COI	2.0	YES	2.0				1.3							3.0			-
-	Protein Structure	CO2	2.0	YES	2.0	2.0		1.3	1.3				-					-	-
B16501	Function and Proteomics	CO3	2.0	YES		2.0		1.5	1.3									-	-
	- Tomosimus	CO4	3.0	YES					2.0							-	2.0	-	
		COI	2.0	YES			2.0		2.0					-			2.0		-
BT6502	Bioprocess	CO2	2.0	YES			2.0			2.0		-							
	Engineering	CO3	2.0	YES			2.0			2.0		-	-			1.3		2.1	
		COI	2.0	YES	3.0		2.0					-		3.0				3.0	1
		CO2	2.0	YES	3.0		2.0					-							-
BT6503	Mass Transfer	CO2	3.0	YES			2.0	2.0				-	-						
Dioco	Operation	CO4						2.0					2.0						
	1		2.0	YES				-											
		CO5	2.0	YES														2.0	
1		CO 1	2.0	YES				2.0		1									
DTCCC		CO 2	3.0	YES					3.0										
B16304	Molecular Biology	CO 3	3.0	YES						2.0	3.0	1.0							
1000		CO 4	2.0	YES											2.0				
		CO 5	2.0	YES	1.3	2.0			1.3	1.3									
	1	COI	3.0	YES	2.0	3.0			2.0	-12.0						44			
-	Biopharmaceutical	CO2	3.0	YES	2.0	3.0		Contract of	2.0	2.0									
BT 6006	Technology	CO3	2.0	YES		2.0	2.0			1.3									
		CO4	3.0	YES		and the second		3.0		2.0			2.0				2.0		
		CO5	2.0	YES				2.0		1.3			0.7	2.0					
		CO1	3.0	YES					2.0										
DT COL	Principles of food	CO2	2.0	YES		2.0	2.0						10000						
BI 6003	processing	CO3	2.0	YES		10000		2.0					3.0				1.3		
	1	CO4	2.0	YES				2.0					3.0						
-		COS	2.0	YES				2.0					0.7	2.0					
		COI	3.0	YES	3.0			2.0		2.0									
******	Total Quality	CO2	2.0	YES	2.0		-	1.3		1.3	10000			4000000					
B16601	Management for Biotechnologists	CO3	2.0	YES	2.0		-	1.3		1.3									
10000		CO4	3.0	YES	3.0			2.0		2.0		Mary Control							
	-	CO5	2.0	YES	2.0			1.3		1.3							2.0		
	1000	CO1	3.0	YES	3.0	3.0		2.0		2.0							3.0		
	1	CO2	3.0	YES	3.0	3.0		2.0		2.0							3.0		
BT6602	Immunology	CO3	2.0	YES	2.0	2.0	Marie Barbara	1.3		1.3							2.0		
		CO4	3.0	YES	3.0	3.0		3.0					3.0			2.0	3.0		
		COS	3.0	YES	3.0	3.0		3.0					3.0			2.0	3.0		
		CO1	2.0	YES															
-	Genetic Engineering and Generaliza	CO2	2.0	YES				2.0				Marine Marine	2.0			1.3			
B16603	and Genomics	CO3	2.0	YES			2.0		1.3	1.3								1.3	
		-	2.0				-												
-	-	CO4	2.0	YES			2.0		1.3	1.3								1.3	
		CO1	2.0	YES			2.0		1.3	1.3								1.3	
1	la	CO2	2.0	YES			2.0	Street, St.	1.3	1.3							The second second	1.3	

	BT66	504 Chemical Keaction	CO3	2.0	YES			2.0		2.0										
		- Indiana	CO4	2.0	YES		2.0		_						-				2.0	_
			CO5	2.0	YES				1						+			2.0	2.0	-
			CO1	2.0	YES		1.3		2.0						1.0			2.0		
	1	Animal Biotechnol	gy CO2	3.0	YES				3.0									2.0		
	BT 60	07	CO3	3.0	YES		2.0											3.0		
			CO4	3.0														3.0		
			CO5	2.0	YES			2.0	2.0		2.0					2.0		3.0		
			COI	2.0	YES			2.0	2.0		2.0					1.3		2.0		
	PT COL	0	CO2	2.0	YES				2.0							2.0		2.0		
	B1 901	O Plant Biotechnology	-	2.0	YES			2.0	2.0		2.0					2.0		2.0		
			CO4	2.0	YES	1.3		3.0	2.0							2.0		2.0		
			CO5	3.0	YES	1.0		2.0	3.0	3.0								2.0		
	1		COI	3.0	YES	3.0		2.0		3.0		3.0						3.0		
	DTCTO	Bioinformatics and	CO2	2.0	YES	0.7		0.7		1.3		3.0								
	BT6701	Computational Biolo		2.0	YES							1.3		1.3		2.0	2.0	2.0	3.0	1
	1	1	CO4	3.0	YES							3.0		2.0		3.0	3.0	3.0	2.0	
			CO5	3.0	YES											3.0	3.0	3.0	3.0	
			COI	2.0	YES												3.0		3.0	
	DECTOR	Downstream	CO2	2.0	YES							2.0		1.3		2.0	2.0	2.0	2.0	
	BT6702	processing	CO3	2.0	YES		2.0									2.0	2.0	2.0	2.0	
			CO4	2.0	YES			3.0										3.0	3.0	
			CO5	3.0	YES									2.0				3.0	3.0	
			COI	3.0	YES			3.0			3.0							3.0	3.0	
11		Creativity, Innovation	CO2	3.0	YES			3.0			3.0							3.0		
	BT6703	and New Product Development	CO3	3.0	YES			3.0			3.0							3.0		
		Development	CO4	3.0	YES			3.0			3.0							3.0		
			CO5	3.0	YES			3.0			3.0							3.0		
			CO1	3.0	YES			3.0	3.0	3.0										
		Biomdustnal	CO2	3.0	YES			3.0	3.0	3.0										
	BT 6014		CO3	3.0	YES			3.0	3.0	3.0										
			CO4	2.0	YES			2.0	2.0	2.0										
-			CO5	3.0	YES			3.0	3.0	3.0		134666	Marie Control							
			CO1	3.0	YES		3.0	3.0	3.0	3.0	2.0									
1	BT 6017 1	resue Engineering	CO2	3.0	YES		3.0	3.0	3.0	3.0	2.0									
	1		CO3	3.0	YES		3.0	3.0	3.0	3.0	2.0									
-			004	3.0	YES		3.0	3.0	3.0	3.0	2.0									
1		-	201	3.0	YES	3.0	3.0	3.0		144		2.0		2.0		3.0	3.0	3.0	3.0	
	1		002	3.0	YES	3.0	3.0	3.0				3.0		2.0		3.0	3.0	3.0	3.0	
13	BT 6811 P	roject work	203	3.0	YES	3.0	3.0	3.0				3.0		2.0		3.0	3.0	3.0	3.0	
		[04	3.0	YES	3.0	3.0	3.0				3.0		2.0		3.0	3.0	3.0	3.0	
			05	3.0	YES	3.0	3.0	3.0				3.0		2.0		3.0	3.0	3.0	3.0	
		AV	ERA	GE		2.2	2.2	2.4	1.9	2.1	1.9	2.3	1.6	2.0	1.9	2.3	2.2	2.4	2.3	
L		CONV			4								1.0	210	-		29	32	31	

PRATHYUSHA ENGINEERING COLLEC-DEPARTMENT OF BIOTECHNOLOGY PO ATTAINMENT 2015-2019 BATCH

		Direct a	ssessment (80	%)		Indire	ct Asses	sment (20)%)
PO/PSO No	Method assessment	Internal Assessment (40%)	Semester End Examination (60%)	Direct Assessm ent (80%)	End of Course Survey (20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessme nt (20%)	% PO /PSO Attainment
PO 1	Ability to apply knowledge of mathematics, science, modern biology, engineering and biotechnology.	30	48	62	18	20		19	81
PO 2	Ability to identify, formulate and solve bio-engineering problems	29	48	62	16	20		18	80
PO 3	Ability to design a system, a component, or a process to meet desired needs within realistic constraints such as economic, environmental, social, ethical, health and safety, manufacturability and sustainability	31	43	59	17	20		19	78
PO 4	Abilityto design and conduct experiments as well as to analyze and interpret data to develop modern drug	25	49 ·	59	16	20		18	77
PO 5	Abilityto select and apply appropriate techniques, resources and modern biotechnology tools	28	47	60	14			14	74
4:	Ability in apply reasons informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice	25	47	58	.,15	20		18	75
PO 6	engineering solutions in societal and environmental	30	50	64	17	20		19	83
PO 7	Ability to have understanding of professional and ethical responsibility	21	47	54	13	17		15	69
PO 8	Possess ability to function in multi-disciplinary teams	26	47	58	15			15	73
PO 9	Ability to communicate effectively	30	48	62	15		18.97	15	77
PO 10	Ability to communicate effectively Ability to engage themselves in life-long learning	26	49	60	18	20		19	79
PO 11	Ability to engage themserves in me-tong teaming Ability to understand engineering and management principles and apply those to one's own work, as a member and leader in a team.	30	46	61	16			16	77
PO 12	The graduates are expected to indulge in the field of genetic engineering in order toproduce a recombinant DNA molecule with desired qualities.	32	51	66	19			19	85
PSO I	separate the components obtained at the end of	31	50	65	16	20	18	18	83
PSO 2	biological process. The graduates are expected high caliber to solve societal problems like food, environmental, agriculture , health etc	33	54	70	20	15		18	87

DEPARTMENT OF BIOTECHNOLOGY

OVERALL PO ATTAINMENT 2015-2019 BATCH

PO /PSO No	Method assessment	Target (%)	Attained (%)	% PO /PSO Attained
PO 1	Ability to apply knowledge of mathematics, science, modern biology, engineering and biotechnology.	70	81	Yes
PO 2	Ability to identify, formulate and solve bio-engineering problems	70	80	Yes
PO 3	Ability to design a system, a component, or a process to meet desired needs within realistic constraints such as economic,	70	78	Yes
PO 4	Abilityto design and conduct experiments as well as to analyze and interpret data to develop modern drug	70	77	Yes
PO 5	Abilityto select and apply appropriate techniques, resources and modern biotechnology tools	70	74	Yes
PO 6	Ability in apply reasons informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the	70	75	Yes
PO 7	Ability to understand the impact of professional engineering solutions in societal and environmental contexts	70	83	Yes
PO 8	Ability to have understanding of professional and ethical responsibility	70	69	No
PO 9	Possess ability to function in multi-disciplinary teams	70	73	Yes
PO 10	Ability to communicate effectively	70	77	Yes
PO 11	Ability to engage themselves in life-long learning	70	79	Yes
PO 12	Ability to understand engineering and management principles and apply those to one's own work, as a member and leader in a	70	77	Yes
PSO 1	The graduates are expected to indulge in the field of genetic engineering in order toproduce a recombinant DNA molecule	70	85	Yes
PSO 2	The graduates are expected to possess ability to separate the components obtained at the end of biological process.	70	83	Yes
PSO 3	The graduates are expected high caliber to solve societal problems like food, environmental, agriculture, health etc	70	87	Yes

Target - 60% of the students will get above 65%

Dr.P.DHASARATHAN M.Sc., M.Tech., Ph.D., Head, Department of Biotechnology Prathyusha Engineering Coilege Tiruvallur-602025, Tamilnadu, INDIA

Justification for PO Attainment

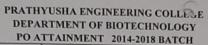
PO identified to be not attained	Action taken for improvement
PO-8	Professional ethical responsibility is to be improved by providing more industry institute interaction by

	_			Cos	Di	EFARIN	IENI O	FBIOTE	CHNOL	OGY-C	OATTA	INMEN	Г (2014-)	2018 Bat	ch)					
SEM	COURS	ENAME	Cos	Attainm	со	PO1	PO2	PO3	PO4	PO5	PO6	PO7	DOG	DOG	DOTA	DOM	DO12	DECL	PSO2	DSO
SEM	Cocie	Liverite	Cos	ent in %	Result	101	102	103	104	103	POO	PO/	PO8	PO9	PO10	PO11	PO12	rsoi	F302	130.
			COI	2.0	YES							1.3			2.0	2.0	2.0			
			CO2	2.0	YES							1.3			2.0	2.0	2.0			
	HS6151	Technical English - 1	CO3	2.0	YES										2.0					
		Cagasa - 1	CO4	2.0	YES															
	1		CO5	2.0	YES							1.3			2.0	2.0	2.0			
			COI	3.0	YES	3.0	2.0													
	1		CO2	3.0	YES	3.0	2.0													
	MA6151	Mathematics -1	CO3	3.0	YES															
			CO4	2.0	YES															
			CO5	3.0	YES	3.0	2.0													
1		-	COI	2.0	YES	2.0	1.3		1.3	1.3										
1	PH6151	Physics - 1	CO2	2.0	YES	2.0	1.3		1.3	1.3										
			CO3	2.0	YES	2.0	1.3		1.3	1.3										
		Engineering	CO1	2.0	YES	2.0	1.3		1.3											
	CY6151	Chemistry -	CO2	2.0	YES	2.0			1.3											
		1	CO3	2.0	YES	2.0			1.3											
		-	COI	2.0	YES	2.0	2.0												-	
	GE6152	Engineering Graphics	CO2	2.0	YES			2.0						1.0	1.0					
			CO3	2.0	NO		2.0											1.0	-	
		Computer	CO1	2.0	YES	2.0 `	2.0	2.0	1.3	2.0							1.3	1.3		
	GE6151	Programmin	CO2	2.0	YES	2.0	2.0	2.0	1.3	2.0							1.3	1.3		
		g	CO3	2.0	YES	2.0	2.0	2.0	1.3	2.0							1.3	1.3		
		Technical	COI	2.0	YES	2.0									2.0	2.0	2.0	-		
	HS6251	Frelish - II	CO2	2.0	YES	2.0		Charles and					-		2.0	2.0	2.0	-	-	-
			CO3	2.0	YES	2.0				-					2.0	2.0	2.0	-		
			COI	2.0	YES	2.0	1.3							-		-	-			
			CO2	3.0	YES	3.0	2.0						-	-		-	-			
	MA6251	- 11	CO3	3.0	YES								-						-	
			CO4	2.0	YES													-		
			CO5	2.0	YES	2.0	1.3			1.2										
			COI	2.0	YES	2.0	1.3		1.3	1.3				-	-	-				
	PH6252	Materials	CO2	2.0	YES	2.0	1.3		1.3	1.3										
n			CO3	2.0	YES	2.0	1.3			1.3		-								
			COI	2.0	YES	2.0			1.3											
			CO2	2.0	YES	2.0			1.3											
	CY6252	- II CC	CO3	2.0	YES															
	1	0	CO4	2.0	YES	2.0			1.3											
			COS	2.0	YES	2.0	1.2		2.0											
			CO1	2.0	YES	1.3	1.3		2,0	1.3									30	
	BT6201			2.0	YES				+	1,5	2.0	3.0								
			CO3	3.0	YES	12		2.0	1.3		2,0	3,0								
	-		COI	2.00	YES	1.3		2.0	1.3											
	BT6202	10	CO2	2.00	YES	13		2,0	1,2											

	1	1-																		
			CO3	2.00	YES	1.3		2.0	1.3					-				1		
		Transforms	COI	2.0	YES	2.0	1.3		1.3											
	MA6351	Differential	CO2	2.0	YES	2.0	1.3		1.3							-				
		Equation	CO3	2.0	YES	2.0	1.3		1.3											
			COI	2.0	YES	1.3				1.3										
	BT6301	Stoichiometr y and Fluid	CO 2	2.0	YES		2.0		1.3											
		Mechanics		2.0	YES	1.3	2.0	2.0		1.3	1.3									
			CO 4	3.0	YES															
			COI	2.0	YES	2.0											2.0			
	BT6302	Bioorganic Chemistry	CO2	3.0	YES				2.0	3.0										
П		Country	CO3	3.0	YES				2.0	5.0						20				
41			COI	3.0	YES	3.0										3.0				
	-		000	3.0	YES	3.0		2.0		3.0										
	B16303	Cell Biology	CO3	2.0	YES			2.0		3.0				1.2						
			CO4	2.0	YES									1.3				2.0		
		Basic	COI	2.0	YES								-			2.0				
	BT6304	Industrial	CO2	3.0						2.0									1.3	
	1	Biotechnolo	CO3	2.0	YES			2.0		3.0										
		Environment		2.0	YES			2.0						2.0	2.0					
	GE6251				YES			1.3	1.3			1.0			2.0					
	GE0331	And	CO2	3.0	YES			2.0	2.0											
	-	Engineering	CO3	2.0	YES			1.3	1.3											
	1	Probability and Statistics	COI	2.0	YES	2.0	1.3													
	MA6468	and Statistics	CO2	2.0	YES	2.0	1.3													
	-		CO3	2.0	YES	2.0	1.3													
		Analytical	CO1 -:	2.0	YES	1.3	2.0		-1:3						40					
	BT6401	Methods and Instrumentati	CO2	3.0	YES		3.0		2.0										2.0	
		on .	CO3	2.0	YES									2.0						
			CO4	2.0	YES	1.3	2.0		1.3											
		Applied	COI	2.0	YES	1.3	2.0			2.0										
	BT6402	Thermodyna mics for	CO2	2.0	YES	1.0			2.0											
	DIOTOS	Biotechnolo	CO3	3.0	YES				2.0	3.0										
		gists	CO4	2.0	YES				2.0											
V			CO1	3.0	YES	2.0														
	DITCARO		CO2	2.0	YES		2.0													
	B10403	Operations	CO3	3.0	YES				2.0						2.0					
			CO4	2.0	YES															
		Enzyme	COI	3.0	YES	2.0					100000									
		Technology	CO2	3.0	YES		3.0											3.0		
	BT6404	and Biotransform	CO3	3.0	YES				3.0	3.0			2.0							
		stion	CO4	3.0	YES									2.0				2.0		
			CO1	3.0	YES			2.0	3.0				2.0	2.0				3.0		
	1	Singuran	con	2.0	YES			1.3	3,0				1.3							
	BT6405	Bioprocess Principles	COI	2.0	YES			1.3	2.0				1.3							
			CO4	2.0	YES			1.0	2.0				1.3					2.0		
				3.0	YES		3.0		2.0				1,3							
		(F10Acim)	COI		YES		3,0		3.0				2.0							
	BT6501		CO2	3.0					3.0	2.0			2.0							
		Function and Proteomics			YES					2.0	2.0									
			CO4	3.0	YES				2.0	2.0	2.0									
	1		COI	2.0	YES	2.0	The state of the s		2.0	2.0	Marin Street		The same of the same of	The Park Street	CONTRACTOR OF THE PARTY OF		-	NAME OF TAXABLE PARTY.		

	BT6502	Engineering	CO2	2.0	YES	-	1.3			2.0		-								
		Engineering	CO3	2.0	YES		1,3		1.2	2.0		-				2.0				
			COI	2.0	YES		2.0		1.3											
	-	Mass	CO2	2.0	YES		2.0							2.0						
	BT6503	Transfer Operation	CO3	2.0	YES									1.3						
		Operation	CO4	3.0	YES											1.3				
1			CO I	3.0	YES	3.0											3.0			
		Molecular	CO 2	2.0	YES	2.0	2.0			2.0										
	BT6504	Biology	CO 3	2.0	YES	2.0	2.0		1.3	1.3										
			CO 4	2.0	YES		2.0			1.3										
		Dist.	COI	2.0	YES			2.0		1.3								1.3		
	BT 6006	Biopharmace	CO2	2.0	YES			2.0												
	B1 0000		CO3	3.0	YES			2.0			2.0						1.3		2.0	
			COI	3.0		2.0		2.0							3.0				3.0	
	100000	Principles of	CO2	2.0	YES	3.0		2.0	-											
	BT 6003	food			YES			2.0												2.0
	1000	processing	CO3	2.0	YES				2.0					1.3						
		Total OF	CO4	2.0	YES														2.0	2.0
		Total Quality Management		3.0	YES				3.0											
	BT6601	for	CO2	2.0	YES					-2.0										
		Biotechnolo	CO3	3.0	YES						2.0	3.0	1.0							
		gists	CO4	2.0	YES											2.0				
	DT((02		COI	2.0	YES	1.3	2.0			1.3	1.3									
	BT6602	Immunology	CO2	2.0	YES	1.3	2.0			1.3	1.3									
			CO3	3.0	YES	2.0	3.0			2.0	2.0									
		Genetic	COI	2.0	YES	4:	2.0	2.0			44						4:			
	BT6603	Engineering and	CO2	2.0	YES				2.0					2.0				1.3		
		Genomics	CO3	2.0	YES				2.0					0.7	2.0					
T			CO4	2.0	YES					1.3										
		Chemical	COI	2.0	YES		2.0	2.0												
	BT6604	Reaction Engineering	CO2	2.0	YES				2.0					3.0				1.3		
		Lightering	CO3	2.0	YES				2.0					0.7	2.0					
			COI	3.0	YES	3.0			2.0		2.0									
	BT 6007	Animal	CO2	2.0	YES	2.0			1,3		1.3									
		Biotechnolo	CO3	2.0	YES	2.0			1.3		1.3									
		gy	CO4	2.0	YES	2.0	Halley I		1.3		1.3									2.
			COI	2.0	YES		2.0		1.3		1.3							2.0		
	BT 6010	Plant Biotechnolo	CO2	2.0	YES		2.0		1.3		1.3							2.0		
	D1 0010	EY	CO3	2.0	YES		2.0		1.3		1.3							2,0		3.
			CO4	2.0	YES		2.0		1.3		1.3							2.0		
		Bioinformati	COI	2.0	YES				2.0					2.0			1.3			3.
	BT6701	cs and	CO2	2.0	YES				2.0					2.0			1.3			
	310/01	Computation	CO3	2.0	YES															
		al Biology	CO4	2.0	YES				2.0					2.0			1.3			1
			COI	3.0	YES			3.0		2.0	2.0								2.0	
		10000	CO2	2.0	YES			2.0		1.3	1.3								1.3	
	BT6702	Downstream	CO3	2.0	YES			2.0		1.3	1.3								1.3	
		processing	CO4	2.0	YES			2.0		1.3	1.3								1.3	
			COS	2.0	YES			2.0		2.0									2.0	1
		Creativity.	COI	3.0	YES		3.0											3.0		

VII		Innovation	CO2	3.0	YES			10						-	1.0					
		and New Product	CO3	2.0	YES		1.3		2.0					_	1.0			3.0		T
		Developmen	CO4	3.0	YES				3.0									2.0		
		t	CO5	3.0	YES		2.0											3.0		
		District and A	COI	2.0	YES			2.0	2.0		2.0					2.0		3.0		
	BT 6014	Bioindustrial Entreprenurs		2.0	YES			2.0	2.0		2.0					1.3				
		hip	CO3	2.0	YES				2.0							2.0				
			CO4	2.0	YES			2.0	2.0		2.0					2.0				
			COI	3.0	YES	2.0		3.0								2.0				-
			CO2	3.0	YES	1.0		2.0		3.0										-
		6017 Tissue Control Engineering Control	CO3	3.0	YES	3.0		2.0		3.0		3.0								H
			CO4	3.0	YES	1.0		1.0		2.0		3.0							3.0	
			COI	3.0	YES							2.0		2.0		3.0	3.0	3.0	3.0	-
	BT 6811		CO2	3.0	YES							3.0		2.0		3.0	3.0	3.0	3.0	
	D1 0011			3.0	YES														3.0	
			CO4	3.0	YES												3.0			
			COS	3.0	YES							3.0		2.0		3.0	3.0	3.0	3.0	
			AVE	RAGE		2.0	1.9	2.0	1.7	1.9	1.6	2.3	1.6	1.7	1.9	2.1	2.0	2.2	2.3	I
		CO	NVE	RT TO	0.4	1.0	0.9	1.0	0.9	0.9	0.8	1.1	0.8	0.9	1.0	1.1	1.0	1.1	1.1	-
						26	25	26	23	25	22	30	21	23	26	29	27	29	30	-



			2014-2018 BA						
		Direct	assessment (80°	%)		Indire	ct Assess	ment (20'	%)
No /PSO	Method assessment	Internal Assessment (40%)	Semester End Examination (60%)	Direct Assessme nt (80%)	End of Course Survey (20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessme nt (20%)	% PO Attainmen
PO 1	Ability to apply knowledge of mathematics, science, modern biology, engineering and biotechnology.	26	57	67	18	20		19	86
PO 2	Ability to identify, formulate and solve bio-engineering problems	25	47	58	16	20		18	76
PO 3	Ability to design a system, a component, or a process to meet desired needs within realistic constraints such as economic, environmental, social, ethical, health and safety, manufacturability and sustainability	26	44	56	18	20		19	75
PO 4	Abilityto design and conduct experiments as well as to analyze and interpret data to develop modern drug	. 23	48	57	16	. 20		18	75
PO 5	Abilityto select and apply appropriate techniques, resources and modern biotechnology tools	25	47	58	16	20		18	76
PO 6	Ability in apply reasons informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice	22	48	56	14	20	4/2	17	73
100	Ability to understand the impact of professional engineering solutions in societal and environmental	30	49	63	16	20		18	81
PO 7	Ability to have understanding of professional and ethical	21	48	55	12	20		16	71
PO 8	responsibility	23	47	56	14	20		17	73
PO 9	Possess ability to function in multi-disciplinary teams	26	49	60	15	20	19	18	78
PO 10	Ability to communicate effectively	29	51	64	19	20		20	84
PO 11	Ability to engage themselves in life-long learning Ability to understand engineering and management principles and apply those to one's own work, as a member	27	46	58	17	20		19	77
PO 12		29	54	66	18	20		19	85
PSO 1	a legita with desired qualities.		48	62	17	20	18	19	81
PSO 2	The graduates are expected to possess ability to separate the components obtained at the end of biological process. The graduates are expected high caliber to solve societal the graduates are expected high caliber to solve societal.	33	46	63	16	20		18	81

PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF BIOTECHNOLOGY PO ATTAINMENT 2014-2018 BATCH

PO /PSO No	Method assessment	Target (%)	Attained (%)	PO Attained
PO 1	Ability to apply knowledge of mathematics, science, modern biology, engineering and biotechnology.	70	86	Yes
PO 2	Ability to identify, formulate and solve bio- engineering problems	70	76	Yes
PO 3	Ability to design a system, a component, or a process to meet desired needs within realistic constraints such as economic, environmental, social, ethical, health and safety, manufacturability and sustainability	70	75	Yes
	Abilityto design and conduct experiments as well as to analyze and interpret data to develop modern drug	70	75	Yes
PO 4	Abilityto select and apply appropriate techniques, resources and modern biotechnology tools	70	76	Yes
	Ability in apply reasons informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice	70	73	Yes
PO 6	Ability to understand the impact of professional engineering solutions in societal and environmental contexts	70	81	Yes
PO 8	Ability to have understanding of professional and ethical responsibility	70	71	Yes
PO 9	Possess ability to function in multi-disciplinary teams	70	73	Yes
PO 10	Ability to communicate effectively	70	78	Yes
PO 11	Ability to engage themselves in life-long learning	70	84	Yes
	Ability to understand engineering and management principles and apply those to one's own work, as a member and leader in a team.	70	77	Yes
	The graduates are expected to indulge in the field of genetic engineering in order toproduce a recombinant DNA molecule with desired qualities.	70	85	Yes
	The graduates are expected to possess ability to separate the components obtained at the end of biological process.	70	81	Yes
	The graduates are expected high caliber to solve societal problems like food, environmental, agriculture, health etc	70	81	Yes

Target - 60% of the students will get above 70%

PC	identified	to be not attained
		NII

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PRATHYUSHA ENGINEERING COLEGE
DEPARTMENT OF BIOTECHNOLOGY (cor survey attainm

COURSE	NAME	Cos	EOC	EOC Result	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		PO12	PO13	PO14
		COI	3.0	YES							2.0			3.0	3.0	3.0		
		CO2	3.0	YES							2.0			3.0	3.0	3.0	2000000	
S6151	ectinical English - I	CO3	3.0	YES								2.0		3.0	5.0	3,0		
	anguar .	CO4	3.0	YES								2.0						
		CO5	3.0	YES							2.0			3.0	3.0	3.0		
		COI	3.0	YES	3.0	2.0								3.0	3.0	3.5		
		CO2	3.0	YES	3.0	2.0												
MA6151	Mathematics _T	CO3	3.0	YES	3.0	2.0												
		CO4	3.0	YES	3.0	2.0												
		CO5	3.0	YES	3.0	2.0												
		COI	3.0	YES	3.0	2.0		2.0	2.0									
		CO2	3.0	YES	3.0	2.0		2.0	2.0									
PH6151	Engineering Physics - I	CO3	3.0	YES							1							
	J'Hysics - 1	CO4	3.0	YES	19/19/19													
		COS	3.0	YES	3.0	2.0		2.0	2.0									
		COI	3.0	YES	3.0	2.0		2.0										
	Engineering	000	3.0	YES	3.0	2.0		2.0										
CY6151	Chemistry -	CO3	3.0	YES														
	1	CO4 -	3.0	YES				L.					42					
		COS	3.0	YES	2.0			2.0										
		COI	3.0	YES	3.0	2.0		2.0										
GE6152	Engineerin Graphics	CO2	3.0	YES		3.0							2.0	2.0				
	Graphics	CO3	3.0	NO		3.0					1000000		2,0	2.0			1.0	
	Computer	COI	3.0	YES	2.0	2.0	2.0	2.0	2.0		D TOTAL STREET					2.0	2.0	
GE6151			3.0	YES	2.0	2.0	2.0	2.0	2.0							2.0	2.0	
	Z	CO3	3.0	YES			2.0	2.0	2.0							2.0	2.0	
		COI	3.0	YES	2.0									2.0	2.0	2.0		
HS6251	Technical English -		3.0	YES	3.0										2.0	2.0		
	English -	CO3	3.0	YES	3.0										3.0	3.0		
		COI	3.0	YES	3.0	2.0												
		CO2	3.0	YES	3.0	2.0												
MA625	1 Mathema	CO3	3.0	YES	3.0													
	- II	CO4	3.0	YES	3.0				9 9000									
	1	COS	3.0		3.0	2.0												
		COI	3.0		3.0	2.0		2.0	2.0									
PH625	2 Physics o	1 1000	3.0		3.0	2.0		2.0	2.0									
	Materials	CO3	3.0		3.0			2.0	2.0									
		COI	3.0					2.0										
1	Chemist		3.0					2.0										
CY62	52 for	000	3.0					2.0										
	Technol	CO4	3.0					2.0										
1	-	COS	3.0					2.0										

		COI	3.0	YES	2.0	2.0	-	2.0					1	1	_	_	-	
BT620	I Biochemist		3.0	YES		2.0		1	2.0					-	-	-		
		CO3	3.0	YES		2.0				2.0	3.0			-	-			
		COI	3.0	YES	2.0	2.0		2.0	3.0						-	-		
BT620	Microbiolo	CO2	3.0	YES	2.0	2.0	3.0							-	-			
	1	CO3	3.0	YES		2.0									-	2.0		
	Transforms	CO1	3.0	YES	3.0	2.0		2.0								-		3
MA635	Differential	CO2	3.0	YES	3.0	2.0		2.0							-		-	
	Equation	CO3	3.0	YES	3.0	2.0		2.0								-	-	
		CO I	3.0	YES	2.0	2.0			2.0								-	-
BT6301	Stoichiomet y and Fluid	CO 2	3.0	YES		3.0		2.0									-	-
B10301	Mechanics	CO3	3.0	YES	2.0	3.0	3.0	2.0	2.0	2.0								-
		CO 4	3.0	YES				2.0								2.0		-
		COI	3.0	YES	3.0			2.0								2.0	-	-
BT6302	Bioorganic	CO2	3.0	YES				2.0	2.0									-
	Chemistry	CO3	3.0	YES				2.0							2.0			-
		COI	3.0	YES	3.0										2.0		-	
DT6202	C-RIPLIC	CO2	3.0	YES			2.0		3.0									1
BT6303	Cell Biology	CO3	3.0	YES									2.0				2.0	-
		CO4	3.0	YES									2.0		2.0		2.0	
	Basic	COI	3.0	YES											2.0			2
BT6304	Industrial Biotechnolog	CO2	3.0	YES					3.0									1-
	V	CO3	3.0	YES			3.0						2.0	2.0				
	Environment	COI	3.0	YES	-77		2.0	2.0		-/-	1.0		2.0	2.0		77		
GE6351	al Science And	CO2	3.0	YES			2.0	2.0						2.0				
	Engineering	CO3	3.0	YES			2.0	2.0										
		COI	3.0	YES	3.0	2.0												
MA6468	Probability and Statistics	CO2	3.0	YES	3.0	2.0												
	and Statistics	CO3	3.0	YES	3.0	2.0												
	Analytical	COI	3.0	YES	2.0	3.0		2.0										
BT6401	Methods and		3.0	YES		3.0		2.0										2
B10401	Instrumentati	CO3	3.0	YES									3.0					
	on	CO4	3.0	YES	2.0	3.0		2.0					0.0					
	Applied	COI	3.0	YES	2.0	2.0			2.0									
DT. 100	Thermodyna	CO2	3.0	YES	1.0			2.0										
BT6402	mics for Biotechnolog		3.0	YES				2.0	3.0									
	ists	CO4	3.0	YES				2.0	3.0									
		COI	3.0	YES	2.0			2.0										
	Heat	CO2	3.0	YES		2.0												
	Transfer	CO3	3.0	YES		2.0		2.0						2.0				
	Obermons	CO4	3.0	YES				2.0										
		COI	3.0	YES	2.0													
	Technology	CO2	3.0	YES	2.0	3.0											3.0	
	and	CO3	3.0	YES		3.0		3.0	3.0			2.0						
	O TO DE DELIGITATION OF THE PERSON OF THE PE	CO4	3.0	YES				3.0	3.0			2.0	2.0				2.0	
		CO1	3.0	YES			2.0	20				2.0	2.0				3.0	
							2.0	3.0				2.0						
TIME !	Bioprocess	CO2	3.0	YES	The second second	ALCOHOLD STATE OF	2.0	10 (3 to 3 to 5 to 6)	100 100 CO	And the second		2.0		THE RESERVE OF THE PARTY OF		-		

41000	Principles	CO3	3.0	YES	P		2.0	3.0			E(20.						
		CO4	3.0	YES			2.0	3.0				2.0						
		COI	3.0	YES		3.0		3.0				2.0					3.0	
	L'EXPERIENT	CO2	3.0	YES		5.0		3.0				2.0						
T6501		CO3	3.0	YES				3.0	2.0			2.0						
	Proteomics	CO4	3.0	YES					3.0			2.0						
		COI	3.0	YES	3.0			2.0	20	2.0		2.0						
BT6502	Bioprocess	CO2	3.0	YES	3.0	2.0		2.0	2.0			2.0						
010002	Engineering	CO3	3.0	YES		2.0		2.0	2.0			2.0			2.0			
	-	CO1	3.0	YES		3.0		2.0				2.0						
	Mass	CO2	3.0	YES		3.0						2.0	3.0					
BT6503		CO3	3.0	YES								2.0	2.0					
	Operation		3.0									2.0			2.0			
		CO4		YES	2.0							2.0				2.0		
		CO 1	3.0	YES	3.0	2.0			2.0			2.0						
BT6504	Molecular Biology	CO 2		YES	3.0	3.0		2.0	2.0			2.0						
	Diminità	CO 3	3.0	YES		3.0			2.0			2.0						
	-	CO 4	3.0	YES					2.0			2.0					2,0	
	Biopharmace	CO1	3.0	YES	,		2.0		2.0	4		2.0						
BT 6006	Technology	CO2	3.0	YES			2.0		2.0	2.0		2.0				2.0		2.0
	1 commonogy	CO3	3.0	YES			3.0		2.0			2.0		3.0				3.0
	1000	COI	3.0	YES	3.0				2.0			2.0						
BT 6003	Principles of	CO2	3.0	YES			2.0		2.0			2.0						
	Incomening	CO3	3.0	YES				2.0	2.0			2.0	2.0					
	-	CO4	3.0	YES					2.0			2.0						2.0
	Total Quality		3.0	YES					2.0	3.0		2.0						
BT6601		CO2	3.0	YES					2.0		3.0	2.0						
210011	Biosechnolo	CO3	3.0	YES					2.0			2.0	2.0	1.0				
	ests	CO4	3.0	YES					2.0			2.0					3.0	1
	1	COI	3.0	YES	2.0	3.0			2.0	2.0		2.0						
BT6602	Imminology	CO2	3.0	YES	2.0	3.0			2.0	2.0		2.0						
		CO3	3.0	YES	2.0	3.0			2.0	2.0		2.0						
	Genetic	CO1	3.0	YES	2.0				2.0			2.0						
BT6603	Parties and	CO2	3.0	YES	2.0	2.0			2.0			2.0						
B10003	and	CO3	3.0	YES	2.0			3.0	2.0			2.0						
	Genomics	CO4	3.0	YES	2.0				2.0			2.0						
	Chemical	COI	3.0	YES	2.0	2.0	3.0		2.0			2.0						
BT6604		CO2	3.0	YES	2.0			3.0	2.0			2.0	3.0				2,0	
	Engineering	CO3	3.0	YES	2.0			3.0	2.0			2.0	1.0	2.0				
		COI	3.0	YES	3.0			2.0	2.0	2.0		2.0						
	Assemul Bion		3.0	YES	3.0			2.0	2.0	2.0		2.0						
BT 6007		CO3	3.0	YES	3.0			2.0	2.0	2.0		2.0						
		CO4	3.0	YES	3.0			2.0	2.0	2.0		2.0						
		COI	3.0	YES	3.0	3.0		2.0	2.0	2.0		2.0					3.0	
	Plant	CO2	3.0	YES	3.0	3.0		2.0	2.0	2.0		2.0					3.0	1
BT 601	O Biotechnole	CO3	3.0	YES	3.0	3.0		2.0	2.0	2.0		2.0					3.0	
	P	CO4	3.0	YES	3.0	3.0		2.0	2.0	2.0		2.0					3.0	1
-	-	CO1	3.0	YES	3.0	3.0	-	3.0	2.0	-	1	2.0	3.0			2.0	3.0	1

							1/	16	14	15	16	13	15	15	17			
L	CO	NVER	T TO	0.2	18	16	17	2.3	2.1	2.2	2.5	2.0	2.3	2.3	2.6	2.3	3.0	3.0
		AVER	AGE		2.6	2.4	2.5	3.0			3.0	2.0	2.0		3.0	3.0	3.0	
-		CO5	3.0	YES				3.0				2.0	-7.7				3.0	3.0
		CO4 ·	3.0	YES			-	3.0				2.0	2.0		3.0	3.0	3.0	3.0
0011	Project work		3.0	YES				3.0			3.0	2.0	2.0		3.0	3.0	3.0	3.0
6011		CO2	3.0	YES				3.0			2.0	2.0					3.0	3.0
		COI	3.0	YES	1.0		1.0	3.0	2.0		3.0	2.0					3.0	2.1
		CO4	3.0	YES	3.0		2.0	3.0	3.0		3.0	2.0					3.0	2.
0017	Engineering		3.0	YES	1.0		2.0	3.0	3.0			2.0			3.0		3.0	2.
6017	Tissue	CO2	3.0	YES	2.0		3.0	3.0	2.0	3.0		2.0			3.0		3.0	2.
		CO1	3.0	YES	3.0		3.0	3.0	2.0			2.0		-	2.0		3.0	2
	hip	CO3	3.0	YES	3.0		3.0	3.0	2.0	3.0		2.0			3.0		3.0	2
T 601	4 Entrepren	LCO2	3.0	YES	3.0		3.0	3.0	2.0	3.0		2.0					3.0	2
	Bioindust	COI	3.0	YES	3.0		3.0	3.0	2.0	3.0		2.0					3.0	2
	Develope	CO5	3.0	YES	3.0		3.0		2.0	3.0		2.0				1.0	3.0	
	Product Develope	COA	3.0	YES	3.0	3.0	3.0	2.0	2.0	3.0		2.0				-	3.0	
BT670	03 and New		3.0	YES	3.0	3.0	3.0	3.0	2.0	2.0		2.0					3.0	
	Creativi		3.0	YES	3.0	3.0	3.0	3.0	2.0	2.0		2.0					3.0	2
		CO4	3.0	YES	3.0	3.0	3.0		2.0	2.0		2.0		-			3.0	1
	process	CO3	3.0	YES	3.0	3.0	3.0		2.0	2.0		2.0				2.0	3.0	
BT6		CO2	3.0	YES	3.0	3.0	3.0		2.0	2.0		2.0	3.0			2.0	3.0	
		COI	3.0	YES	5.0	3.0		3.0	2.0			2.0				2.0	3.0	
	al Bio	ogy CO4	3.0	1,20	5.0	3.0			2.0			2.0	35	3				
BIG	5701 Comp	utation CO3	3.0	1.00	5.0	3.0		3.0	2.0									

PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF BIOTECHNOLOGY PO ATTAINMENT 2013-2017 BATCH

		Direct a	ssessmer	it (80%)	Indi	rect Asse	ssment (2	20%)
PO No	Method assessment	Internal Assessme nt (40%)	Semester End Examinat ion (60%)	Direct Assessme nt (80%)	End of Course Survey (20%)	Student Exit Survey (20%)	Indirect Assessme nt (20%)	% PO Attainment
1	Ability to apply knowledge of mathematics, science, modern biology, engineering and biotechnology.	28	58	69	18	20	19	88
2	Ability to identify, formulate and solve bio-engineering problems	26	50	61	16	20	18	79
3	Ability to design a system, a component, or a process to meet desired needs within realistic constraints such as economic, environmental, social, ethical, health and safety, manufacturability and sustainability	26	45	57	17	19	19	75
4	Abilityto design and conduct experiments as well as to analyze and interpret data to develop modern drug	24	49	58	16	19	18	76
5	Abilityto select and apply appropriate techniques, resources and modern biotechnology tools	25	47	58	14		17	75
	Ability in apply reasons informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice	23	48	57	15	18	18	74
	Ability to understand the impact of professional engineering solutions in societal and environmental contexts	29	51	64	16	19	18	82
8	Ability to have understanding of professional and ethical responsibility	23	48	57	13	19	16	73
9	Possess ability to function in multi-disciplinary teams	25	47	58	15		18	75
NAME OF TAXABLE PARTY.	Ability to communicate effectively	23	49	58	15	19	18	75
11	Ability to engage themselves in life-long learning	28	50	62	17	20	19	81
12	Ability to understand engineering and management principles and apply those to one's own work, as a member and leader in a team.	25	47	58	15	20	18	75
13	The graduates are expected to indulge in the field of genetic engineering in order toproduce a recombinant DNA molecule with desired qualities.	29	52	65	19		20	84
14	The graduates are expected to possess ability to separate the components obtained at the end of biological process.	30	56	69	15		18	86

PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF BIOTECHNOLOGY OVERALL PO ATTAINMENT 2013-2017 BATCH

PO No	PO s	Target (%)	Attained (%)	PO /PSOAttained
1	Ability to apply knowledge of mathematics, science, modern biology, engineering and biotechnology.	65	88	Yes
2	Ability to identify, formulate and solve bio-engineering problems	65	79	Yes
3	Ability to design a system, a component, or a process to meet desired needs within realistic constraints such as economic, environmental, social, ethical, health and safety, manufacturability and sustainability	65	75	Yes
4	Abilityto design and conduct experiments as well as to analyze and interpret data to develop modern drug	65	76	Yes
5	Abilityto select and apply appropriate techniques, resources and modern biotechnology tools	65	75	Yes
6	Ability in apply reasons informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice	65	74	Yes
7	Ability to understand the impact of professional engineering solutions in societal and environmental contexts	65	82	Yes
8	Ability to have understanding of professional and ethical responsibility	65	73	Yes
9	Possess ability to function in multi-disciplinary teams	65	75	Yes
10	Ability to communicate effectively	65	75	Yes
11	Ability to engage themselves in life-long learning	65	81	Yes
12	Ability to understand engineering and management principles and apply those to one's own work, as a member and leader in a team.	65	75	Yes
2 13	The graduates are expected to indulge in the field of genetic engineering in order toproduce a recombinant DNA molecule with desired qualities.		84	Yes
14	The graduates are expected to possess ability to separate the components obtained at the end of biological process.	65	86	Yes

Target - 60% of the students will get above 65%

PO identified to be not attained	
Nil	

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PRATHYUSHA ENGINEERING COLLEGE DPEARTMENT OF CIVIL ENGINEERING PO ATTAINMENT FOR COURSES (2013-17)

			PO	ATTA	IINMI	ENT F	OR CC	DURSE	S (201	3-17)							
SEM	COURSE NAME	SEC	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	Technical English-I	Α	2.38					2.35		1.78	1.82	2.18					
		В	2.42					2.32		2.08	2.2	1.96		,			
	Mathematics-I	Α	2.21	2.28			1.98							2.28			
		В	2.18	2.12			1.96										
	Engineering Physics-I	A	2.38	2.16		2.24								1.92			
	3 2 3	В	2.31	2.02		2.28								1.86			
	Engineering Chemistry-I	A	2.4	2.2										1.98			
		В	2.36	2										1.96			
I	Computer Programming	Α	2.31	2.62	1.82	2.32	1.98							2.24			
	, , , , , , , , , , , , , , , , , , , ,	В	2.2	2.48	2.08	2.52	2.2							2.16			
	Engineering Graphics	Α.	2.37	2.37								2.16					
	5g	В	2.16	2.16								2.32					
	Computer Practice Laboratory	Α	2.56	2.48	2.36									2.36			
	,	В	2.42	2.36	2.3									2.28			
	Engineering Practices Laboratory	A	2.34	2.38	2.38	2.38								2.16			
	, , , , , , , , , , , , , , , , , , ,	В	2.26	2.18	2.24	2.4								2.08			
	Physics & Chemistry Laboratory I	A	2.71	2.62													
	, , , , , , , , , , , , , , , , , , , ,	В	2.54	2.56													
	Technical English II	A		2.17	1.02						2.64	2.56					
		В		1.83	1.98						2.22	2.38					
	Mathematics II	A	2.21	2.34	2.3										1.92	2.42	
		В	2.1	2.1	2.22										1.94	2.23	
	Engineering Physics II	A	2.08	2.48									2.32				
		В	2.12	2.16									2.14				
	Engineering Chemistry II	Α	2.31	2.32	2.18								2.12				
II		В	2.42	3.27	2.04								2.42				
-	Basic Electrical & Electronics	Α	2.43	2.36			2.24			2.38							
	Engineering	В		2.18			2.2			2:2							
	Engineering Mechanics	Α	2.4	2.1	2.18	2.5						2.22	2.18		2.08	2.18	2.08
		В	2.34	2.02	2.02	2.25						2.18	2.22		2.18	2.1	2.11
	Computer Aided Drafting and	Α	2.56	2.38						2.58							
, ,	Modeling Laboratory	В	_	2.52						2.48							
	Physics & Chemistry Laboratory II	Α	_		2.36					2.36							
		В	2.52	2.36	2.32					2.3							

	Transforms And Partial	A	2.32	1.98								1.96			2.04	1.96
	Differential Equation	В	2.16	1.6								1.92		1	2	1.72
		A	2.3	2.15	2.12	2.16						2.68	2.68		2.68	2.68
	Engineering Geology	В	2.48	2.04	2.22	2.26						2.59	2.59		2.59	2.59
		Α	2.03	2.03	2.14	2.18	2.2					1.92			2.14	
	Mechanics of Solids	В	1.64	2.3	2.02	2.28	2.26					1.98			2.08	
		Α	2.22	2.22	2.08	2.28						2.14	2.18	2.32	2.32	
	Mechanics of Fluids	В	2.1	2.48	2.01	2.17						2.04	2.04	2.24	2.24	
Ш		Α	2.42	2.42	2.42	2.14						2.04			2.24	
	Surveying 1	В	2.48	2.48	2.48	2.4						1.98			2.12	
	Environmental Science and	Α	2.42	2.36	2.18				2.36	2.18				2.36	2.36	
	Engineering	В	2.48	2.14	2.25				2.26	2.02				2.22	2.22	
	3 0	Α	2.42	2.36	2.32							2.28	2.18	2.42	2.42	
	Survey Practical 1	В	2.38	2.32	2.18							2.14	2.42	2.36	2.36	
	,	Α	2.52	2.48	2.31							2.4		2.36	2.36	
	Computer Aided Building Drawing	В	2.52	2.48	2.31						1	2.32		2.36	2.36	
		Α	2.41	2.37	2.46							2.18	2.28	2.18	2.36	
	Numerical Methods	В	2.45	2.29	2.36							2.22	2.14	2.14	2.24	
		A	2.49	2.42		2.16								2.12	2.16	
	Construction Materials	В	2.12	2.15		2.18								1.86	2.02	
		Α	2.28	2.26		2.24								2.41	2.41	_
	Strength of Materials	В	2.19	2.02		2.2								2.27	2.27	
		Α	2.12	2.17	2.16	2.26						2.26	1		2.18	-
	Applied Hydraulic Engineering	В	2.08	2.03	2.42	2.08						2.48			2.14	_
		Α	1.8	2.16		1.98								2.32	1.98	_
IV	Surveying II	В	2.1	2.15		2.18								2.26	2.18	_
		Α	2.38	2.52	2.18	2.22						2.36			2.52	-
	Soil Mechanics	В	2.32	2.48	2.42	2.18						2.24			2.48	_
	•	Α	2.56	2.42	2.28										2.36	_
	Strength of Materials Laboratory	В	2.46	2.38	2.24			l-							2.24	-
		A	2.52	2.48	_										2.5	
	Hydraulic Engineering Laboratory	В	2.48	2.46	2.44		-						·		2.44	_
		A	2.28	2.36	_										2.42	_
	Survey Practical II	B	2.24	-	-										2.34	

						•										
		Α	2.21	2.24		2.18	2.18					T		2.56	2.44	
	Structural Analysis I	В	2.12	2.18		2.25	2.42							2.44	2.22	
	Foundation Facinassias	Α	2.1	2.1		2.02	2.5								2.42	
	Foundation Engineering	В	2.08	2.03		2.04	2.14								2.34	
	Environmental Engineering I	Α	2.13	2.1								 2.14			2.08	
	Environmental Engineering I	В	2.09	2.01								2.18		ļ	2.01	
	Highway Engineering	Α	2.28	2.57	2.18										2.16	
	Tilgiway Eligineering	В	2.12	2.5	2.2										2.08	
v	Design of Reinforced Concrete	Α	2.34	2.34	2,42							 2.18	2.26		2.08	2.28
•	Elements	В	2.37	2.37	2.4							2.14	2.34		2.08	2.14
	Construction Techniques, Equipment	Α		2.54	2.42		2.26							2.36		
	and Practice	В		2.52	2.46		2.34					 		2.3		
	Communication and Soft Skills-	Α	2.56	2.56	2.36		2.18		2.18			2.18			2.16	2.36
	Laboratory Based	В	2.48	2.48	2.28		2.22		2.22			2.06			2.08	2.22
	Soil Mechanics Laboratory	A	2.54	2.48	2.34							 2.42		2.28		L
	Son Weenames Educatory	В	2.54	2.48	2.34							 2.56		2.14		
	Survey Camp	Α		2.44	2.34		2.18							2.44		
	our roy our rp	В		2.44	2.32		2.32							2.44		
	Design of Reinforced Concrete &	A	2.47	2.62		2.24							2.18		2.26	2.42
	Brick Masonry Structures	В	2.38	2.38		2.18							2.28		2.12	2.26
	Structural Analysis II	Α	2.34	1.93	2.18		2.28		2.18							2.52
	on action of the control of the cont	В	2.23	1.67	2.22		2.18		2.42							2.36
	Design of Steel Structures	Α	2.3	2.3	2.28		_					 2.18			2.36	2.48
		В	2.1	2.63	2.22			•				2.06		_	2.28	2.34
	Railways, Airports and Harbour	Α	2.31	2.1	2.28		-	-	_			 2.01	2.36		2.18	
VI	Engineering	В	2.22	2.08	2.42			-				 2.2	2.22		2.06	
	Environmental Engineering II	A	2.16	2.32				-				2.16	2.18		2.36	2.18
		В	2.13	2.12					-			2.12	2.08		2.28	2.06
	Professional Ethics	<u>A</u>	2.24	2.42				_	-+			2.18			2.42	
		В	2.17	2.26			246	-	\rightarrow	_		2.22			2.28	
-	Environmental Engineering	A	2.52	2.46	2.36		2.46		-	1,00		2.46	2.16	2.24	2.36	2.44
1 1	Laboratory	В	2.48	2.32	2.34		2.24	-			•	2.24	2.18	2.14	2.28	2.36
	Concrete and Highway Engineering	A	2.54	-			2.46		_				2.36	2.17	2.14	2.14
	Laboratory	В	2.36				2.48						2.32	2.52	2.17	2.28

ectural Dynamics and Earthquake incering stressed Concrete Structures ter Resources and Irrigation incering mation and Quantity Surveying Tic Engineering and Management	A B A B A B A B A B A B	2.18 2.12 2.03 2.17 2.37 2.03 2.12 2.08 2.48	2.37 2.27 2.32		2.28	_				2.62		,	2.12		2.36 2.22 2.28 2.08	2.2
stressed Concrete Structures ter Resources and Irrigation ineering mation and Quantity Surveying Tic Engineering and Management	A B A B A A B A	2.03 2.17 2.37 2.03 2.12 2.08	2.27		-	_				-					2.22	-
ter Resources and Irrigation ineering mation and Quantity Surveying fic Engineering and Management	B A B A B	2.17 2.37 2.03 2.12 2.08	2.27		-	_				2.30	2.2				2.28	-
ter Resources and Irrigation ineering mation and Quantity Surveying fic Engineering and Management	A B A B	2.37 2.03 2.12 2.08	2.27		2.18									_		-
ineering mation and Quantity Surveying fic Engineering and Management	A B A	2.03 2.12 2.08	2.27				+	+	-	1			2.22	1	2.08	
mation and Quantity Surveying Tic Engineering and Management	A B A	2.12 2.08	2.32		1	_		1				2.34	2.14			2.0
fic Engineering and Management	B	2.08	_				+	_				2.24	2.14		1.72	+-
fic Engineering and Management	A			2.37				_	1	-	 	2.46	2.37	-	1.68	+
		2.10	2.1	2.48		\vdash		_		_	-	2.32	2.27		2.42	2.3
	B	140	2.48			2.24		_	2.46	_	+	2.32	2.21		2.38	2.4
sisinal Salid Warran		2.52	2.37			2.12	_		2.32		-					├
	Α	2.32	2.48		2.48	2.56	_		2.52	_		2.46	2.24	2.36		┼
nicipal Solid Waste Management	В	2.4	2.44			2.50				-	-			_		-
puter Aided Design and Drafting	Α	2.52	2.46				1-			-			2.40	2.24	0.15	-
oratory	В	2.48			_		-	-								<u> </u>
on Project	Α	2.52	_	2.36		-		2.46							2.37	_
gii i toject	В	2.48	_													2.4
ciples of Managament	Α	2.56			2 26	2 51		2.34				2.48	2.22	2.26	0.00	2.3
iples of Management	В	2.42														2.2
phricated Structures	Α	2.12	2.28			2.50								2.24		2.4
abricated Structures	В	2.04														2.4
ir and Rehabilitation of	Α	2.28									2.42			2.22	2.37	2.2
etures	В	2.14											_			
	Α	2.56	2.62	2.42	2,20			2.46	-		2.32	2.40	2.48	2.26	2.40	
ect Work	В	2.42							-							
ATTAINMENT LEVEL		2.31	2.30	2.25	2.25	2.27	2.34		2 26	2 34	2 20	_	2.25	2.27		
PERCENTAGE		77	77	75	75	_				_		_				2.29
PERCENTAGE(80%)		62	61	60	60	61	62	61					/5	76	60	76
g	ples of Management pricated Structures r and Rehabilitation of ures t Work ATTAINMENT LEVEL PERCENTAGE	B	outer Aided Design and Drafting actory A 2.52 patory B 2.48 n Project A 2.52 B 2.48 ples of Management A 2.56 B 2.42 oricated Structures A 2.12 B 2.04 r and Rehabilitation of ures A 2.28 t Work B 2.42 ATTAINMENT LEVEL PERCENTAGE 77	outer Aided Design and Drafting actory A 2.52 2.46 patory B 2.48 2.32 n Project A 2.52 2.46 B 2.48 2.32 ples of Management A 2.56 B 2.42 Description oricated Structures A 2.12 2.28 B 2.04 2.18 r and Rehabilitation of ures A 2.28 2.14 t Work B 2.41 2.44 ATTAINMENT LEVEL 2.31 2.30 PERCENTAGE 77 77	Duter Aided Design and Drafting actory A 2.52 2.46 Project B 2.48 2.32 In Project A 2.52 2.46 2.36 In Project B 2.48 2.32 2.42 In Ples of Management A 2.56 B 2.42 In Project A 2.56 B 2.42 In Including Structures B 2.42 2.28 In and Rehabilitation of ures A 2.28 2.18 It Work B 2.14 2.34 A ATTAINMENT LEVEL 2.31 2.30 2.25 PERCENTAGE 77 77 75	Description of the project A 2.52 2.46 B 2.48 2.32 2.46 B 2.48 2.32 2.42 2.36 B 2.48 2.32 2.42 2.36 B 2.48 2.32 2.42 2.36 B 2.42 2.38 2.36 B 2.42 2.28 2.28 2.48 B 2.42 2.28 2.48 B 2.04 2.18 2.31 2.31 2.30 2.26 B 2.14 2.26 Color of the project A 2.56 2.56 2.56 2.56 2.56 2.56 2.56 2.55 2.	Description A 2.52 2.46	Description of the property A 2.52 2.46	Description A 2.52 2.46	Description of the project A 2.52 2.46 B 2.48 2.32 C 2.46 C 2.46	A 2.52 2.46	Description of the project A 2.52 2.46 B 2.48 2.32 C C C C C C C C C	A 2.52 2.46	A 2.52 2.46	A 2.52 2.46	Duter Aided Design and Drafting A 2.52 2.46



PRATIFYUSIIA ENGINEERING COLLEGE DEPARTMENT OF CIVIL ENGINEERING

					Indirect A	ssessment (20%)	
PO'S Na	Method Assessment	Direct Assessment (80%)	End of Course Survey (20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainmen
1	An ability to apply the fundamental knowledge of mathematics, science, and engineering	62	15	19		17	79
2	An abries to design and conduct experiments, as well as to analyze and interpret data	61	15	20		18	79
,	An ability to design a system, component, or process to meet deaired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	60	14	18	14	15	75
•	An ability to function on multidisciplinary teams.	ω	15	20		18	78
,	An Ability to identify, formulates, and solves Civil Engineering problems in accordance with Indian standard codes of practice	61	16	19	14	16	77
٠	An ability to understand the role of Civil Engineers and ethical responsibility	62	15	19		17	79
1	An ability to deliver effective verbal, written, and graphical communications	61	, 15	18		17	78
	An ability to work on the basis of broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.	60	15	20		18	78
,	An ability to recognize the need for and an ability to engage in life-long learning.	62	15	18		17	79
10	An ability to incorporate specific contemporary issues into the identification, formulation, and solution of a specific civil engineering problem.	61	16	18	14	16	77
11	An ability to use the techniques, skills, and modern civil engineering tools necessary for engineering practice.	60	16	19	14	16	76
12	An ability to accept and create innovations in providing solution for sustainable built environment.	60	15	18		17	77
	PROGRAMME SPECIFIC O	UTCOMES				•	
1	Ability to plan Analyze and Estimate all the civil engineering structures with professional ethics and managerical skills for the creation of infrastructures	60	17	19	14	17	77
2	Ability to use conceptual knowledge in soil mechanics, hydrology and water resources and identify the environmental issues to propose suitable solutions	60	15	19	15	16	76
,	Proficiency to use modern surveying tools like total station and GPS, Hands on training on material testing and water quality testing methods	61	15	19	16	17	78

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PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF CIVIL ENGINEERING

PO ATTAINMENT 2013-2017 BATCH

PO'S No	Method Assessment	TARGET	ACHIEVED
1	An ability to apply the fundamental knowledge of mathematics, science, and engineering.	70	79
2	An ability to design and conduct experiments, as well as to analyze and interpret data.	70	79
3	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.	70	75
4	An ability to function on multidisciplinary teams.	70	78
5	An Ability to identify, formulates, and solves Civil Engineering problems in accordance with Indian standard codes of practice.	70	77
6	An ability to understand the role of Civil Engineers and ethical responsibility.	70	79
7	An ability to deliver effective verbal, written, and graphical communications.	70	78
8	An ability to work on the basis of broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.	70	78
9	An ability to recognize the need for and an ability to engage in life-long learning.	70	79
10	An ability to incorporate specific contemporary issues into the identification, formulation, and solution of a specific civil engineering problem.	70	77
11	An ability to use the techniques, skills, and modern civil engineering tools necessary for engineering practice.	70	76 _.
12	An ability to accept and create innovations in providing solution for sustainable built environment.	70	77
	PROGRAMME SPECIFIC OUTCOMES		
1	Ability to plan ,Analyze and Estimate all the civil engineering structures with professional ethics and managerical skills for the creation of infrastructures	70	77
2	Ability to use conceptual knowledge in soil mechanics, hydrology and water resources and identify the environmental issues to propose suitable solutions.	70	76
3	Proficiency to use modern surveying tools like total station and GPS, Hands on training on material testing and water quality testing methods	70	78



PRATHYUSHA ENGINEERING COLLEGE DPEARTMENT OF CIVIL ENGINEERING

PO ATTAINMENT FOR COURSES (2014-18)

SEM	COURSE NAME	SEC	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
02		A	2.39					2.48		1.8	1.85	2.14					
	Technical English-I	В	2.44					2.42		2.1	2.22	2.2					
		Α	2.24	2.28			2.26							2.34			
	Mathematics-I	В	2.22	2.24			2							2.32			
	P. C. Blacks I	A	2.38	2.18		2.22								2.22			
	Engineering Physics-I	В	2.32	2.22		2.28								2.2			
	Paris and a Chamista I	Α	2.4	2.18										1.98			
	Engineering Chemistry-I	В	2.36	2.28										1.98			
	Communication and the	A	2.31	2.67	2.24	2.14	2.2							2.24			
1	Computer Programming	В	2.2	2.52	2.22	2.44	2.22							2.28			
	Frainceine Comphies	Α	2.37	2.37								2.18					
	Engineering Graphics	В	2.16	2.4								2.26					
	Computer Practice Laboratory	Α	2.56	2.54	2.36									2.36			
	Computer Fractice Laboratory	В	2.42	2.56	2.32									2.38			
	Engineering Practices Laboratory	Α	2.34	2.54	2.38	2.42								2.42			
	Engineering Fractices Laboratory	В	2.26	2.42	2.18	2.38								2.4			
	Physics & Chemistry Laboratory I	A	2.72	2.64											_		
		В	2.54	2.56												-	
	Technical English II	A		2.18	1.98						2.66	2.57					
	Technical English II	В		1.83	1.98						2.22	2.38					
	Mathematics II	Α	2.21	2.34	2.2				٠.		_				1.96	2.44	<u> </u>
		В	2.18	2.1	1.94										1.76	2.32	
	Engineering Physics II	Α	2.08	2.48								-	2.34	-			
		В	2.12	2.16									2.36				
	Engineering Chemistry II	A	2.31	2.34	2.18							-	2.14	-			
11		В	2.42	3.27	2.34		2.20			2.20			2.16	\rightarrow			
		A	2.43	2.36			2.38			2.38							
	Engineering	В	2.38	2.24	2.28	1.92	2.48			2.3	_	2.28	2,2	-	2.1	2.38	2.08
	Basic Electrical & Electronics Engineering Engineering Mechanics	A B	2.42	2.18	2.28	1.92						2.28	2.18	-+	2.12	2.24	2.13
		A	2.57	2.18	2.16	1.98			-	2.58		2.10	2.10		2.12	2.24	2.13
	Computer Aided Drafting and Modeling Laboratory	B	2.56	2.58						2.49							
		A	2.58	2.44	2.36					2.36							
	Physics & Chemistry Laboratory II	B	2.52	2.36	_				_	2.30							
		В	2.32	2.30	2.32					2.3							

	Transforms And Partial	Α	2.32	1.98									1.96			2.24	1.96
1	Differential Equation	В	2.28	2									1.92			2.18	1.76
	Engineering Geology	Α	2.34	2.16	2.42	2.16							2.68	2.68		2.68	2.68
ļ		В	2.48	2.14	2.4	1.98							2.59	2.59		2.59	2.59
- 1	Mechanics of Solids	Α	_	_		2.18	2.2						1.92			2.24	
		В		_	_	2.18	1.98						1.98			2.08	
	Mechanics of Fluids	Α	2.22	2.22	2.08	2.28							2.12	2.28	2.35	2.32	
ш		В	2.1	2.48	2.01	2.32			-				. 2.16	2.32	2.24	2.24	
-	Surveying I	A	2.42	2.42	2.42	2.16			-				2.14			2.24	
		В	2.48	2.48	2.48	2.22							1.94		0.26	2.22	-
	Environmental Science and Engineering	A	2.42	2.36	2.18				2.36	2					2.36	2.36	-
		В	2.48	2.44	2.22			├	2.34	2.05			2.12	2.4	2.42	2.42	-
	Suman Prostinal I	A	2.42	2.36	2.32			-	-	-	-		2.12	2.42	2.42	2.42	\vdash
	Survey Practical I	В	2.38	2.32	2.18			+	-		-		2.14	2.42	2.36	2.38	\vdash
	Computer Aided Building Drawing	A B	2.52	2.48	2.31		_	-	+	-	-		2.34	-	2.36	2.36	+
	Computer Aided Building Drawing	A	2.52	2.48	2.18	-	-	+	+-	-	-	_	2.34	2.34	2.18	2.36	_
	Numerical Methods	B	2.41	2.37	2.18	_		-	+	+	-		2.14	2.28	2.04	2.24	+
		A	2.49	2.42	2.24	2.16	-	+-	+-	+	_		2.14	2.20	2.02	2.16	+
	Construction Materials	B	2.15	2.26		2.18	-	+		1	1				1.86	2.02	1
		A	2.28	2.26	†	2.22		+	+			1			2.41	2.41	\top
	Strength of Materials	В	2.19	2.02		2.2		_		1	1				2.27	2.27	
	pplied Hydraulic Engineering	A	2.12	2.17	2.16	2.26							2.26			2.18	
	Applied Hydraulic Engineering	В	2.11	2.03	_	-							2.18	7		2.14	
IV		A	1.8	2.16		2.26									2.1	1.98	
	Surveying II	В	2.1	2.15		2.18									2.18	2.18	3
		A	2.38	2.52	2.28	2.14							2.36			2.52	2
	Soil Mechanics	В	2.34	2.48	2.42	2.4							2.26			2.48	3
		A	2.56	2.42	2.28	3										2.3	В
	Strength of Materials Laboratory	В	2.46	2.38	2.25	5										2.2	_
		A	2.52	2.48	2.52	2										2.5	
	Hydraulic Engineering Laboratory	В	2.48	3 2.40	2.4	1										2.4	_
		A	2.28	3 2.30	5 2.2	2										2.4	_
	Survey Practical II	В	2.2	4 2.2	5 2.2	4										2.3	4.

	Structural Analysis I	Α	2.22	2.24		2.18	2.18					2.56	2.46	Τ
	Structural Analysis I	В	2.12	2.18		2.22	2.24					2.5	2.22	
	Foundation Engineering	Α	2.1	2.1		2.28	2.2						2.44	L
		A	2.08	2.03		2.24	2.28	 -	 	2.24			2.34	+
	Environmental Engineering I	В	2.09	2.01			_	<u> </u>	 	2.18			2.2	十
	Highway Engineering	Α	2.28	2.58	2.22								2.16	
	0.00	В	2.24	2.5	2.26				 				2.14	╀
,	Design of Reinforced Concrete Elements	A	2.34	2.34	2,42				 	2.18	2.36		2.08	L
	Construction Techniques Fording 1	В	2.37	2.37	2.42	-	226	 ├		 2.22	2.34	2.26	2.18	H
	Construction Techniques, Equipment and Practice	A		2.54	2.42	-	2.26	 -			-	2.36		╁
	Communication and Soft Skills-	A	2.56	2.56	2.36		2.18	2.28	 	 2.18		1	2.16	t
	Laboratory Based	В	2.48	2.48	2.28		2.16	2.26		2.16			2.18	-
	Sail Machanias I about	Α	2.54	2.48	2.34					2.56		2.28		T
	Soil Mechanics Laboratory Survey Camp	В	2.54	2.48	2.38					2.56		2.24		
	Survey Camp	A		2.44	2.34		2.18					2.44		L
_	Design of Reinforced Concrete & Brick	В	2.47	2.44	2.32		2.46		_	 	210	2.44	226	+
	Masonry Structures	A B	2.47	2.62	1	2.32				-	2.18		2.26	
		A	2.34	1.93	2.44	2.36	2.28	 2.22	 	 	2.22		2.22	1
	Structural Analysis II	В	2.23	1.67	2.22	_	2.4	2.48					-	Ė
	D 1 60 10	Α	2.34	2.3	2.18					2.18			2.36	
	Design of Steel Structures	В	2.18	2.63	2.38					2.16			2.28	:
	Railways, Airports and Harbour	Α	2.31	2.1	2.42					2.22	2.36		2.18	
I	Engineering	В	2.22	2.08	2.46					2.24	2.32		2.12	
•	Environmental Engineering II	Α	2.16	2.32						 2.16	2.18		2.36	Ŀ
		В	2.18	2.12						 2.08	2.22		2.28	Ŀ
	Professional Ethics	A	2.24	2.42						 2.42			2.42	L
		В	2.18	2.26	226		- 11			 2.46			2.28	Ļ
	Environmental Engineering Laboratory	A B	2.52	2.46	2.36	_	2.46		 _	 2.46	2.26	2.24	2.36	:
	Concrete and Highway Engineering	A	2.54	2.52	2.20		2.46			 2.24	2.36	2.20	2.22	1
	Laboratory	В	2.36		_		2.41				2.32	2.52	. 2.2	1

	Structural Dynamics and Earthquake Engineering	A	2.18								126	0.04			<u>, </u>		
		В	2.12				_	_			2.64					2.36	
	Prestressed Concrete Structures	A	2.03			2.52	,	-	-	-	2.58	2.22	-			2.32	
		В	2.17			2.48		_		-	-		-	2.32		2.28	2.2
	Water Resources and Irrigation Engineering	A	2.37	2.37		2.70	+	+-	-	+	-		-	2.38		2.26	2.0
		В	2.03	2.27		_	+-	+	+	-	-	-	2.22	2.14		1.92	
	Estimation and Quantity Surveying	A	2.12	2.32	2.44		+-	+	_	+	-	-	2.42	2.34		1.98	
VII		В	2.28	2.1	2.49	_	_		+	-	-		2.46	2.37	—	2.42	2.3
	Traffic Engineering and Management	A	2.48	2.48	1		2.38	+	-	2.46	-		2.32	2.27	├—	2.38	2.4
		В	2.52	2.37			2.44	_	+	2.46	-						
	Municipal Solid Waste Management	A	2.52	2.48		2.52	2.56	_	-	2.34		-	-	_	<u> </u>		
		В	2.44	2.44		2.52	2.50	+	-	-			2.47	2.28	2.52		
	Computer Aided Design and Drafting Laboratory	A	2.52	2.46			_		-	-	-		2.26	2.46	2.42		
		В	2.48	2.32		-	-	-	-	_			2.46			2.28	
	Design Project	A	2.52	2.46	2.36			-	2.46	_			2.26			2.34	
		В	2.48	2.32	2.42			-					2.46				2.44
	Principles of Management	A	2.56		2.72	2.48	2.62	<u> </u>	2.42	-			2.24				2.36
		В	2.42			2.48	2.58	_	-					2.34	2.46	2.38	2.24
	Prefabricated Structures	A	2.12	2.28		2.5	2.36							2.44	2.38	2.48	2.46
ш		В	2.04	2.18		2.52		_						2.46		2.32	2.46
l	Repair and Rehabilitation of Structures	Α	2.28			2.46								2.24		2.37	2.25
<u> </u>		В	2.14			2.56			-		\rightarrow	2.42		2.54	2.54		
	Project Work	Α	2.56	2.62	2.58	2.50			2.48	-+		2.5	_	2.58	2.58		
		В	2.42		2.62			_	2.48	-		_	2.54	\rightarrow		2.48	
	ATTAINMENT LEVEL		2.33		2.29	2.28	2.31	2.45	2.34	2.26	226		2.52			2.42	
	PERCENTAGE		78	78	76	76	77	82	78	75	2.36 79	2.31 77	75	78	2.30	2.29	2.29
-	PERCENTAGE(80%)														77		

Walf HOD/CIVIL



DEPARTMENT OF CIVIL ENGINEERING

ESTD. 2001

PO ATTAINMENT 2014-2018 BATCH

1	PO ATTAINMENT 201	4-2018 DATC	<u>'</u>			1/202/3			
PO'S	** # 1 # EEE	Direct	End of Student Indirect						
No	Method Assessment	Assessment	Course	Student Exit	Rubrics	Indirect	% PO		
		(80%)	Survey	Survey	(10%)	(20%)	Attainment		
1	An ability to apply the fundamental knowledge of mathematics, science, and engineering.	62	15	20		18	80		
2	An ability to design and conduct experiments, as well as to analyze and interpret data.	62	15	19		17	79		
3	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.	61	14	18	14	15	76		
4	An ability to function on multidisciplinary teams,	61	15	20		18	79		
5	An Ability to identify, formulates, and solves Civil Engineering problems in accordance with Indian standard codes of practice.	62	16	19	14	16	78		
6	An ability to understand the role of Civil Engineers and ethical responsibility.	65	14	18		16	81		
7	An ability to deliver effective verbal, written, and graphical communications.	63	15	17		16	79		
8	An ability to work on the basis of broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.	60	15	20		18	78		
9	An ability to recognize the need for and an ability to engage in life-long learning.	63	15	18		17	80		
10	An ability to incorporate specific contemporary issues into the identification, formulation, and solution of a specific civil engineering problem.	61	16	18	14	16	77		
11	An ability to use the techniques, skills, and modern civil engineering tools necessary for engineering practice.	60	16	19	14	16	76		
12	An ability to accept and create innovations in providing solution for sustainable built environment.	62	15	17		16	78		
PROGRAMME SPECIFIC OUTCOMES									
1	Ability to plan Analyze and Estimate all the civil engineering structures with professional ethics and managerical skills for the creation of infrastructures	61		16	18	17	78		
2	Ability to use conceptual knowledge in soil mechanics, hydrology and water resources and identify the environmental issues to propose suitable solutions.	61		14 .	18	16	- 77		
3	Proficiency to use modern surveying tools like total station and GPS, Hands on training on material testing and water quality testing methods	61	12	15	18	15	76		



DEPARTMENT OF CIVIL ENGINEERING

PO ATTAINMENT 2014-2018 BATCH

	FOATIAINNIERT 2014-2018 BATCH						
PO'S No	Method Assessment	TARGET	ACHIEVED				
1	An ability to apply the fundamental knowledge of mathematics, science, and engineering.	70	80				
2	An ability to design and conduct experiments, as well as to analyze and interpret data.	70	79				
3	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.	70	76				
4	An ability to function on multidisciplinary teams,	70	79				
5	An Ability to identify, formulates, and solves Civil Engineering problems in accordance with Indian standard codes of practice.	70	78				
6	An ability to understand the role of Civil Engineers and ethical responsibility.	70	81				
7	An ability to deliver effective verbal, written, and graphical communications.	70	79				
8	An ability to work on the basis of broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.	70	78				
9	An ability to recognize the need for and an ability to engage in life-long learning.	70	80				
10	An ability to incorporate specific contemporary issues into the identification, formulation, and solution of a specific civil engineering problem.	70	77				
11	An ability to use the techniques, skills, and modern civil engineering tools necessary for engineering practice.	70	76				
12	An ability to accept and create innovations in providing solution for sustainable built environment.	70	78				
PROGRAMME SPECIFIC OUTCOMES							
1	Ability to plan "Analyze and Estimate all the civil engineering structures with professional ethics and managerical skills for the creation of infrastructures	70	78				
2	Ability to use conceptual knowledge in soil mechanics, hydrology and water resources and identify the environmental issues to propose suitable solutions.	70	77				
3	Proficiency to use modern surveying tools like total station and GPS, Hands on training on material testing and water quality testing methods	70	76				



PRATIIYUSHA ENGINEERING COLLEGE DPEARTMENT OF CIVIL ENGINEERING

D. 2001 PO ATTAINMENT FOR COURSES (2015-1 SEC POI PO2 PO3 PO4 PO5 PO6 PO7	
SEC PO1 PO2 PO3 PO4 PO5 PO6 PO7	9)
	T
A 2.39 2.52	
B 2.44 2.5	T

SEM	COURSE NAME	SEC	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	POI	PO11	PO12	PSO1	PSO2	PSO
	Technical English-I	Λ	2.39					2.52		1.8	1.85	2.14					
		В	2.44					2.5		2.1	2.22	2.2					
	Mathematics-I	Λ	2.28	2.28			2.26							2.34			_
		В	2.24	2.24			2.32							2.32			_
	Engineering Physics-I	Λ	2.4	2.18		2.22								2.22			_
		В	2.38	2.22		2.28								2.2			
	Engineering Chemistry-I	_ A	2.42	2.18										1.98			<u> </u>
		В	2.36	2.28										1.98			
I	Computer Programming	Λ	2.31	2.67	2.24	2.14	2.38							2.24			
		В	2.28	2.52	2.22	2.44	2.42							2.28			
	Engineering Graphics	_ A	2.37	2.37								2.18					
		В	2.46	2.4								2.26					
	Computer Practice Laboratory	A	2.56	2.54	2.36									2.36			
		В	2.42	2.56	2.32									2.38			
	Engineering Practices Laboratory	A	2.34	2.54	2.38	2.42								2.42			
		В	2.26	2.42	2.18	2.38								2.4			
	Physics & Chemistry Laboratory I	B	2.72	2.64						\rightarrow	_					-	
			2.68	2.56	1.00		_			-				\rightarrow			
	Technical English II	A B		1.83	1.98			-			2.66	2.57					
		A	2.21	2.34	2.2			\rightarrow	_	-	2.22	2.38		-	100	244	
	Mathematics II	B	2.28	2.1	1.94		-	\rightarrow	-	-	-+	-	\rightarrow	_		2.44	
		A	2.22	2.48	1.94		-	-		\dashv	\rightarrow	_	2.36	-	1.76	2.32	
	Engineering Physics II	B	2.24	2.16				-	-	-	-	$\overline{}$	2.38	-			
		A	2.31	2.34	2.18			-	-	-	-	\rightarrow	2.18	-	-		
- 1	Engineering Chemistry II	В	2.42	3.27	2.34	_		\rightarrow	-	-	-	$\overline{}$	2.16	-	\rightarrow	-	
II	Basic Electrical & Electronics	A	2.42	2.36	2.34	-	2.48	-+	_	2.38	-	\dashv	2.10	_	\rightarrow		
	Engineering	В	2.38	2.24			2.52	-	_	2.36	_	-	-	\rightarrow	-	-	
.		A	2.42	2.18	2.28	2.2	2.52	-	-	2.30	\rightarrow	2.28	2.2	-+	2.1	2.38	2.08
	Engineering Mechanics	В	2.34	2.18		2.26	-	_	_	\dashv	_		2.18	_	_	_	2.13
ı	Computer Aided Drafting and	A	_	2.38			$\neg +$	_	-	2.58	_	2.24	2.10	-+	2.12	2.24	2.13
	Modeling Laboratory	В		2.52			$\overline{}$		_	2.49	_	-	-	-	-	\dashv	-
-	Physics & Chemistry Laboratory II	A	_		2.36	\neg	\dashv	_	_	2.36	-	-	-		\dashv	_	\dashv
		В	_	_	2.38			_	_	2.3	-	\rightarrow		-+	-	-	\dashv

	Transforms And Partial	Λ	2.38	1.98	Т				T	1			1.96	_		2.24	1.04	٦				
	Differential Equation	В	2.32						-	_			1.92		 	2.18	_	⊣				
	Engineering Geology	A	2.34	2.16	2.42							_	2.68	2.68		2.68						
		В	2.48										2.59			2.59						
	Mechanics of Solids	A	2.32			2.18			×				1.92			2.24		1				
		В	2.2	2.36			1.98						.98			2.08		1				
	Mechanics of Fluids	A	2.22	_	_	2.28							2.12	2.28	2.35	2.32		1				
Ш		В	2.18	-		2.32							2.16	2.32	2.24	2.24		1				
	Surveying I	A	2.42	_		2.16							2.14			2.24		1				
		В		2.48		2.22							.22			2.22		1				
	Environmental Science and	Α		2.36					2.46	2					2.36			1				
	Engineering	В	2.48	_					2.42	2.05					2.22			1				
	S	A		2.36								1	.38	2.4	2.42	2.42		1				
	Survey Practical I	В	2.38										2.4	2.42	2.36		-	1				
	Computer Aided Puilding P	A	2.52									1	.32		2.36	2.38		1			-	
	Computer Aided Building Drawing	В	2.54	_	_							2	.34		2.36	2.36		1				
	Numerical Methods	Α	2.41	2.37	2.18							2	.32	2.34	2.18	2.36						
		В	2.44	2.29	2.24							2	.36	2.28	2.04	2.24						
	Construction Materials	A	2.49	2.42		2.16									2.02	2.16						
	1.50	В	2.15	2.26		2.18									1.86	2.02						
	Strength of Materials	A	2.28	2.26		2.22				_			\perp	_		2.41						
		В	2.2	2.02	226	2.2							_		2.27	2.27						
	Applied Hydraulic Engineering	A .B	2.12	2.17		2.26					_	_	26	1		2.18						
		A	2.18	2.03	2.48	2.18				-	\rightarrow	2	24			2.14				-		
IV	Surveying II	B	_	2.16		2.26				_	-		4		2.1	2.32						
		A		2.13		2.18			_	-	\rightarrow		\dashv	\rightarrow	_	2.18						
	Soil Mechanics	B				2.14	-+	-		_	_	_	36	_	_	2.52	=					
		A		2.48	2.42	2.18						2.	26	$-\downarrow$	$\overline{}$	2.48						
	Strength of Materials Laboratory	B		2.42		-	-			\dashv	_		_	\dashv	_	2.38						
1		A		2.48		-	-				-		+	-		2.24						
	Hydraulic Engineering Laboratory	B		2.46		-	-		-	+	-	\rightarrow	+		_	2.53						
ŀ		A		2.36		\rightarrow	-				-	-	+		_	2.44						
- 1	Survey Practical II	B	2.24	2.26	2.34	\rightarrow	_	-	-+	-			+	_	_	2.42				,		

100					•									v	·.		
- arr		Structural Analysis I	Α	2.22	2.24		2.18	2.18							2.56	2.46	
		Structural Allalysis I	В	2.12	2.18		2.22	2.24			-				2.5	2.22	
		Foundation Engineering	A B	2.18	2.1		2.28	2.2								2.44	_
		Environmental Fraincedure I	A	2.16	2.03		2.24	2.28	_		-	+-	2.24		-	2.34	\vdash
		Environmental Engineering I	В	2.09	2.01								2.18			2.22	
		Highway Engineering	A B	2.28	2.58	2.22			\rightarrow	_	_	-			-	2.16	-
	l _v	Design of Reinforced Concrete	A	2.34	2.34	2.42							2.26	2.36		2.22	+
	'	Elements	В	2.37	2.37	2.42		226					2.22	2.34	2.26	2.28	2.14
		Construction Techniques, Equipment and Practice	A B		2.54	2.42		2.26	-	_	-	-			2.36		
		Communication and Soft Skills-	Α	2.56	2.56	2.36		2.18		2.38			2.18			2.46	2.30
		Laboratory Based	В	2.48	2.48	2.32		2.16	:	2.36			2.22			2.48	2.22
		Soil Mechanics Laboratory	A B	2.54	2.48	2.34				_	-	-	2.56		2.28		<u> </u>
		Survey Camp	A	2.54	2.44	2.34		2.18	_			1	2.50		2.44		
			В		2.44	2.32		2.46							2.44		
		Design of Reinforced Concrete & Brick Masonry Structures	A B	2.47	2.62		2.32	\vdash		_	-	+		2.18		2.26	2.42
			A	2.42	1.93	2.44	2.38	2.28		2.42	-	+	_	2.22		2.22	2.28
		Structural Analysis II	В	2.23	1.67	2.22		2.4	_	2.48							2.36
		Design of Steel Structures	A B	2.34	2.3	2.18			_			-	2.18			2.36	2.48
		Railways, Airports and Harbour	A	2.18	2.03	2.42			\dashv	+	-		2.16	2.36		2.28	2.34
	VI	Engineering	В	2.22	2.08	2.46					1		2.24	2.32		2.12	
	V1	Environmental Engineering II	Α	2.16	2.32								2.16	2.18		_	_
			_	2.18	2.12			-		-	_	+	2.22	2.22		2.28	2.52
		Professional Ethics	$\overline{}$	2.24	2.42				-	+	+-		2.42			2.42	<u> </u>
		Environmental Engineering Laboratory	Α	2.52	2.46	2.36		2.46					2.46	2.26	2.24	2.36	2.44
				2.48	2.42	2.28		2.24		_		-	2.38	2.28	2.26	2.28	2.36
		Concrete and Highway Engineering Laboratory		2.54				2.46			+-	-		2.36	2.52	2.22	2.32

	Structural Dynamics and Earthquake	A	2.18					T			2.64	2.34		T-	_	2.36	т—
	Engineering	В	2.12					_	+	+	2.58	2.0		-	+		_
	Prestressed Concrete Structures	,A	2.22			2.52		+	+	+	2.50	2.22	_	2.32	+	2.42	-
		В	2.24			2.48				+-	+		_	2.32	_	2.28	
	Water Resources and Irrigation	Α	2.37	2.37	-			+			+	+	2.38	2.14	+	1.92	2.28
	Engineering	В	2.03	2.27					1			<u> </u>	2.42	2.14	+	1.92	+-
	Estimation and Quantity Surveying	A	2.12	2.32	2.44		- 7	_	1		_		2.46	2.37	-	2.42	2.38
VII	and Quantity Surveying	В	2.28	2.1	2.49			†		† —	_		2.32	2.27	_	2.42	2.44
	Traffic Engineering and Management	Α	2.48	2.48			2.38			2.46	_		2.52	2.21		2.30	2.44
	Bugineering and Management	В	2.52	2.37			2.44			2.34			_		_	-	_
	Municipal Solid Waste Management	Α	2.52	2.48	1	2.52	2.56			2.5		<u> </u>	2.47	.2.28	2.52		-
		В	2.44	2.44					1				2.42	2.46	2.42		_
	Computer Aided Design and Drafting	Α	2.52	2.46								_	2.46	2.40	2.42	2.48	-
	Laboratory	В	2.48	2.32					$\overline{}$				2.26		-	2.52	_
	Design Project	Α	2.52	2.46	2.36				2.52				2.46			2.52	2.44
		В	2.48	2.32	2.42				2.58				2.44		_		2.38
	Principles of Management	Α	2.56			2.48	2.62						2,77	2.34	2.46	2.38	2.24
	- morpros of Management	В	2.42			2.48	2.58							2.44	2.38	2.48	2.46
	Prefabricated Structures	Α	2.12	2.28		2.5	-							2.46	2.36	2.48	2.46
VIII	- Total of Structures	В	2.04	2.18		2.52								2.24		2.42	2.52
	Repair and Rehabilitation of Structures	Α	2.48			2.46						2.42	\neg	2.54	2.54	2.42	2.52
	-topair and remainment of Structures	В	2.44			2.56						2.5	\neg	2.58	2.58		
	-	Α	2.56	2.62	2.58				2.48				2.54	2.50		2.48	
	Project Work .	В	2.42	2.44	2.62				2.54				2.52			2.42	
- 1	ATTAINMENT LEVEL		2.35	2.33	2.31	2.29	2.34	2.51	2.45	2.27	2.36	2.31	2.30	2.33	2.30	2.32	2.34
ļ	PERCENTAGE		78	78	77	76	78	84	82	76	79	77	77	78	77	77	78
l	PERCENTAGE(80%)		63	62	61	61	62	67	65	60	63	62	61	62	61	62	62



DEPARTMENT OF CIVIL ENGINEERING

TD. 2004 PO ATTAINMENT 2015-2019 BATCH

	FOXTAINMENT 2			1	sairect As	sessment (20%)	
PO'S No	Method Assessment	Direct Assessment (50%)	End of Course Survey (20%)	Stadent Exit Survey (20%)	Rabrica (29%)	Indirect Assessment (20%)	% PO Attainment
ı	An ability to apply the fundamental knowledge of mathematics, science, and engineering.	63	18	19		19	22
2	An ability to design and conduct experiments, as well as to analyze and manyest data.	62	15	19		17	79
1 3	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, polytical, ethical, health and safety, manufacturability, and sustainability.	61	15	18	14	16	77
4	An ability to function on multidisciplinary teams.	61	17	20		19	80
5	An Ability to identify, formulates, and solves Civil Engineering problems in accordance with Indian standard codes of practice.	62	17	19	15	17	79
6	An ability to understand the role of Civil Engineers and ethical responsibility.	67	14	16		15	82
7	An ability to deliver effective verbal, written, and graphical communications	65	14	16		15	20
:	An ability to work on the basis of broad education necessary to understand the impact of engineering solutions in a global, economic, any commental, and societal context.	60	17	20		19	79
9	An ability to recognize the need for and an ability to engage in life-long learning	63	15	18		17	80
10	An ability to incorporate specific contemporary issues into the identification, formulation, and solution of a specific civil engineering problem.	62	16	18	14	16	78
11	An ability to use the techniques, skills, and modern civil engineering tools necessary for engineering practice.	61	16	19	14	16	77
12	An ability to accept and create innovations in providing solution for sestainable built environment.	6	15	19		17	79
	PROGRAMME SPECI	FIC OUTCOMES			-		
1	Ability to plan Analyze and Estimate all the civil engineering structures with professional ethics and managerical skills for the creation of infrastructures	61	15	19	18	18	79
2	Ability to use conceptual knowledge in soil mechanics, hydrology and water resources and identify the environmental issues to propose suitable solutions.	62	16	19	18	18	20
3	Proficiency to use modern surveying tools like total station and GPS, Hands on training on material testing and water quality testing methods	62	12	18	18	16	78

HODICTVII



DEPARTMENT OF CIVIL ENGINEERING

PO ATTAINMENT 2015-2019 BATCH

PO'S No	Method Assessment	TARGET	ACHIEVED
1	An ability to apply the fundamental knowledge of mathematics, science, and engineering.	70	82
2	An ability to design and conduct experiments, as well as to analyze and interpret data,	70	79
3	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.	70	77
4	An ability to function on multidisciplinary teams.	70	80
5	An Ability to identify, formulates, and solves Civil Engineering problems in accordance with Indian standard codes of practice.	70	79
6	An ability to understand the role of Civil Engineers and ethical responsibility.	70	82
7	An ability to deliver effective verbal, written, and graphical communications.	70	80
8	An ability to work on the basis of broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.	70	79
9	An ability to recognize the need for and an ability to engage in life-long learning.	70	80
10	An ability to incorporate specific contemporary issues into the identification, formulation, and solution of a specific civil engineering problem.	70	78
11	An ability to use the techniques, skills, and modern civil engineering tools necessary for engineering practice.	70	. 77
12	An ability to accept and create innovations in providing solution for sustainable built environment.	70	79
	PROGRAMME SPECIFIC OUTCOMES		
1	Ability to plan ,Analyze and Estimate all the civil engineering structures with professional ethics and managerical skills for the creation of infrastructures	70	79
2	Ability to use conceptual knowledge in soil mechanics, hydrology and water resources and identify the environmental issues to propose suitable solutions.	70	80
3	Proficiency to use modern surveying tools like total station and GPS, Hands on training on material testing and water quality testing methods	70	78



PRATHYUSHA ENGINEERING COLLEGE DPEARTMENT OF CIVIL ENGINEERING PO ATTAINMENT FOR COURSES (2016-20)

SEM	COURSE NAME	SEC	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	Technical English-I	A	2.41					2.39		1.82	1.88	2.18					
	Mathematics-I	A	2.25	2.28			2.42							2.34			
	Engineering Physics-I	A	2.39	2.18		2.28		,						1.93			
	Engineering Chemistry-I	A	2.42	2.13										2.2			
I	Computer Programming	A	2.34	2.67	1.18	2.24	1.86							2.24			
	Engineering Graphics	A	2.37	2.38								2.18					2
	Computer Practice Laboratory	A	2.56	2.5	2.38									2.36			•
	Engineering Practices Laboratory	A	2.36	2.4	2.39	2.41								2.28			
	Physics & Chemistry Laboratory I	Α	2.72	2.64											1 :	-	
	Technical English II	A		2.19	1.98						2.68	2.59		100			
	Mathematics II	A	2.21	2.34	1.94								-		2.2	2.45	
	Engineering Physics II	Α	2.08	2.48									2.36			L	
11	Engineering Chemistry II	А	2.31	2.34	2.18			-					2.52				
"	Basic Electrical & Electronics Engineering	A	2.43	2.36			2.38			2.38					-		
	Engineering Mechanics	Α	2.42	2.13	2.13	2.2						2.28	2.48		2.12	2.2	2.1
	Computer Aided Drafting and Modeling Laboratory	Α	2.57	2.38						2.58		.1 - 2					-
	Physics & Chemistry Laboratory II	٨	2.58	2.47	2.38				-	2.36		r r		-			

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	Transforms And Partial Differential Equation	A	2.32	1.98							2.4			2.04	1.5
	Engineering Geology	A	2.3	2.15	2.12	2.2					2.68	2.69		2.68	2.0
·	Mechanics of Solids	A	2.03	2.03	2.14	2.18	2.28				1.74			2.14	
ш	Mechanics of Fluids	Α	2.22	2.22	2.18	2.28					2.12	2.18	2.35	2.32	
111	Surveying I	А	2.42	2.44	2.42	2.14					2.04			2.25	
	Environmental Science and Engineering	Α	2.42	2.36	2.18			2.36	2.18				2.36	2.36	
	Survey Practical I	Α	2.42	2.36	2.32						2.12	2.22	2.42	2.42	
	Computer Aided Building Drawing	A	2.52	2.48	2.31						2.24		2.36	2.38	
	Numerical Methods	А	2.41	2.37	2.18						2.2	2.28	2.18	2.35	
	Construction Materials	А	2.49	2.42		2.16							2.02	2.16	
	Strength of Materials	A	2.28	2.26		2.28							2.41	2.42	
	Applied Hydraulic Engineering	Α	2.12	2.17	2.32	2.26					2.26			2.18	
IV	Surveying II	A	1.8	2.16		1.98							1.98	1.98	
	Soil Mechanics	A	2.38	2.52	2.24	2.4					2.36			2.52	
1	Strength of Materials Laboratory	Α	2.56	2.42	2.28									2.38	
	Hydraulic Engineering Laboratory	Α	2.52	2.48	2.52									2.53	
	Survey Practical II	Λ	2.28	2.36	2.22									2.42	

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-	Structural Analysis I	A	2.22	2.24		2.18	2.2				2		2.56	2.46	
	Foundation Engineering	A	2.1	2.1		2.24	2.02							2.45	
	Environmental Engineering I	A	2.13	2.1							2.14			2.08	
	Highway Engineering	A	2.28	2.58	2.38									2.16	
v	Design of Reinforced Concrete Elements	A	2.36	2.34	2.42						2.18	2.26		2.08	2.23
	Construction Techniques, Equipment and Practice	A		2.54	2.4		2.4						2.36		
	Communication and Soft Skills- Laboratory Based	A	2.56	2.56	2.36		2.34	2.18			2.18			2.16	2.36
	Soil Mechanics Laboratory	А	2.54	2.49	2.34						2.57		2.28		
	Survey Camp	A		2.44	2.38		2.42						2.46		
	Design of Reinforced Concrete & Brick Masonry Structures	A	2.47	2.62		2.32						2.24		2.26	2.42
	Structural Analysis II	A	2.34	1.93	2.18		2.38	2.18							2.52
	Design of Steel Structures	A	2.3	2.32	2.38						2.18			2.36	2.48
VI	Railways, Airports and Harbour Engineering	A	2.31	2.1	2.4						2.32	2.36		2.18	
VI	Environmental Engineering II	A	2.16	2.32						-	2.16	2.22		2.36	2.18
	Professional Ethics	A	2.24	2.42							2.18			2.42	
	Environmental Engineering Laboratory	Α	2.52	2.46	2.46		2.46				2.46	2.16	2,24	2.36	2.44
	Concrete and Highway Engineering Laboratory	A	2.54				2.5					2.36	2.17	2.14	2.14

																•	
	Structural Dynamics and Earthquake Engineering	A	2.18								2.0	64 2.2		T	T	2.36	
	Prestressed Concrete Structures	A	2.03			2.52				\top		+		2.28	+	2.28	2.2
	Water Resources and Irrigation Engineering	A	2.37	2.37		-			1	+		+	2.18	,		1.72	-
VII	Estimation and Quantity Surveying	A	2.12	2.32	2.52			1	-	+	+		2.46	2.37	-	2.42	+
V11	Traffic Engineering and Management	A	2.48	2.48			2.36		\vdash	2.46	-	-	2.40	2.51		2.42	2.38
	Municipal Solid Waste Management	A	2.32	2.48		2.48	2.56				\dagger		2.47	2.24	2.36		-
	Computer Aided Design and Drafting Laboratory	A	2.52	2.46					T .			+	2.46		2.50	2.17	
	Design Project	A	2.52	2.46	2.52				2.46				2.46			2.17	2.44
	Principles of Management	Α	2.56			2.46	2.51					-		2.28	2.36	2.32	2.24
ш	Prefabricated Structures	Α	2.12	2.28		2.56								2.46	2.50	2.18	2.46
	Repair and Rehabilitation of Structures	Α	2.28			2.46						2.42		2.38	2.34	2.10	2.40
	Project Work	Α	2.56	2.62	2.58				2.46				2.46	2.50	2.54	2.48	
	ATTAINMENT LEVEL		2.35	2.35	2.26	2.30	2.34	2.39	2.30	2.20	0.10					2.40	
	PERCENTAGE		78	78	75	77	78	80		2.30	2.40	2.31	2.30	2.29	2.29	2.29	2.33
Ī	PERCENTAGE(80%)		63	63	60	61	62	64	77	77	80	77	77	76	76	76	78
_				00	00	O1	02	04	61	61	64	62	61	61	61	61	62



DEPARTMENT OF MECHANICAL ENGINEERING

PO ATTAINMENT 2016-2020 BATCH

PO'S	PO ATTAINMENT 201			Indí	ect Assess	nent (20%)	
No	. Method Assessment	Direct Assessment (80%)	End of Course Survey	Student Exit Survey	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply the fundamental knowledge of mathematics, science, and engineering.	63,00	17	20		19	82
2	An ability to design and conduct experiments, as well as to analyze and interpret data.	63.00	15	19		17	80
3	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.	60.00	16	20	14	, 17	77
4	An ability to function on multidisciplinary teams.	61.00	17	20		19	80
5	An Ability to identify, formulates, and solves Civil Engineering problems in accordance with Indian standard codes of practice.	62.00	17	20	16	18	80
6	An ability to understand the role of Civil Engineers and ethical responsibility.	64.00	16	20		18	82
7	An ability to deliver effective verbal, written, and graphical communications.	61.00	17	20		19	80
8	An ability to work on the basis of broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.	61.00	17	20		19	80
9	An ability to recognize the need for and an ability to engage in life-long learning.	64.00	16	18		17	- 81
10	An ability to incorporate specific contemporary issues into the identification, formulation, and solution of a specific civil engineering problem.	62.00	16	19	15	17	79
11	An ability to use the techniques, skills, and modern civil engineering tools necessary for engineering practice.	61.00	16	19	15	. 17	78
12	An ability to accept and create innovations in providing solution for sustainable built environment.	61.00	17	20		19	80
	PROGRAMME SPECIFIC	OUTCOMES					
ı	Ability to plan, Analyze and Estimate all the civil engineering structures with professional ethics and managerical skills for the creation of infrastructures	61.00	18	20	15	18	79
2	Ability to use conceptual knowledge in soil mechanics, hydrology and water resources and identify the environmental issues to propose suitable solutions.	61.00	18	20	18	19	80
3	Proficiency to use modern surveying tools like total station and GPS, Hands on training on material testing and water quality testing methods	62.00	15	19	16	17	79

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DEPARTMENT OF MECHANICAL ENGINEERING

PO ATTAINMENT 2016-2020 BATCH

PO'S Method Assessment TARGET ACHIEVED No 1 An ability to apply the fundamental knowledge of mathematics, science, and engincering. 70 82 2 An ability to design and conduct experiments, as well as to analyze and interpret data. 70 80 An ability to design a system, component, or process to meet desired needs within 3 realistic constraints such as economic, environmental, social, political, ethical, health and 70 77 safety, manufacturability, and sustainability. 4 An ability to function on multidisciplinary teams. 70 80 An Ability to identify, formulates, and solves Civil Engineering problems in accordance 70 80 with Indian standard codes of practice. An ability to understand the role of Civil Engineers and ethical responsibility. 6 70 82 7 An ability to deliver effective verbal, written, and graphical communications. 70 80 An ability to work on the basis of broad education necessary to understand the impact of 8 70 80 engineering solutions in a global, economic, environmental, and societal context. An ability to recognize the need for and an ability to engage in life-long learning. 70 . 81 An ability to incorporate specific contemporary issues into the identification, formulation, 10 70 79 and solution of a specific civil engineering problem. An ability to use the techniques, skills, and modern civil engineering tools necessary for 11 70 78 engineering practice. An ability to accept and create innovations in providing solution for sustainable built 12 70 80 environment. PROGRAMME SPECIFIC OUTCOMES Ability to plan ,Analyze and Estimate all the civil engineering structures with 70 79 1 professional ethics and managerical skills for the creation of infrastructures Ability to use conceptual knowledge in soil mechanics, hydrology and water resources and 70 . 80 identify the environmental issues to propose suitable solutions. Proficiency to use modern surveying tools like total station and GPS, Hands on training 70 on material testing and water quality testing methods

DPEARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PO ATTAINMENT FOR COURSES (2013- 17)

SE M	COURSE NAME	SE C	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2	PO1 3	PO1 4
	MATHEMATICS	A	2	1.33		1.65	2.5							0.67		
	MATHEMATICS I	В	2.1	1.4		1.46	2.4							1.5		
	ENGINEERING	A	2.38	2.38	1.59											
	PHYSICS I	В	2.58	2.58	1.72											
	ENGG	A	2.46	2.46	1.64											
	CHEMISTRY I	В	2.58	2.58	1.72											
I	ENICC CD ADUICS	A	2	2		2								1		
	ENGG GRAPHICS	В	1.78	1.82		1.82								1.76		
	FUNDAMENTALS OF COMPUTING	A	1.79	2.68	2.68	2.23										
	AND PROGRAMMING	В	1.76	2.64	2.64	2.2										
	ENGINEERING	A		1.76	2.1		1.8									
	ENGLISH I	В		1.82	2.3		1.7									
		A	2.42	2.36	2.28	2.46										

	COMPUTER PRACTICES LABORATORY	В	2.36	2.37	2.28	2.1							
	ENGINEERING PRACTICES	A	2.14	2.18		2.22							
	LABORATORY	В	2.06	2.02		2.11							
	PHYSICS AND CHEMISTRY	A	2.6	2.6	2.31								
	LABORATORY - I	В	2.62	2.62	2.33								
	DILVEICE II	A	2.64	2.64	1.76							2.64	
	PHYSICS II	В	2.64	2.64	1.76							2.64	
	MATHEMATICS II	A	2.4	2.4	1.6							2.4	
	MATHEMATICS II	В	2.14	2.14	1.43							2.14	
	ENGG	A	1.34	1.34				1.34	1.34			1.75	
	CHEMISTRY II	В	1.27	1.27				1.27	1.27			1.68	
II	PROGRAMMING AND	A	2.26	2.34	2.14	2.36	2.16					1.52	
	DATASTRUCTUR ES I	В	2.12	2.1	2.08	2.04	2.04					1.56	
	DIGITAL PRINCIPLES AND	A	2.4	2.4	1.6							2.4	
	SYSTEM DESIGN	В	2.17	2.17	1.44							2.17	
	ENGINEERING	A	2.3	1.51.		1.68	1.72					1.67	
	ENG II	В	2.2	1.44		1.46	1.4					1.5	

	PHYSICS AND CHEMISTRY	A	2.35	2.35	2.57									
	LABORATORY - II	В	2.5	2.5	2.37									
	DIGITAL	A	2.42	2.36	2.28									
	LABORATORY	В	2.36	2.37	2.28									
	PROGRAMMING AND DATA	A	2.6	2.6	2.31	2.26								
	STRUCTURES LABORATORY I	В	2.62	2.62	2.33	2.14								
	ANALOG AND	A	2.35	2.35	1.57							2.35		
	DIGITAL COMMUNICATIO N	В	2.5	2.5	1.67							2.5		
	COMPUTER	A	2.64	2.2	2.35	1.76							2.64	
	ORGANIZATION AND ARCHITECTURE	В	2.56	2.13	1.99	1.71							2.56	
III	PROGRAMMING AND	A	1.52	2.13	1.67	1.98	1.52						1.88	
	DATASTRUCTUR ES II	В	1.43	1.63	1.52	1.77	1.76						1.82	
	DATABASE MANAGEMENT	A	1.79	2.68	2.68	2.23				2.04				
	SYSTEMS	В	1.76	2.64	2.64	2.2				1.96				
	ENVIRONMENTA L SCIENCE AND	A				2.32		1.16	1.8					
	ENGINEERING	В				2.68		1.34	1.52					

	TRANSFORMS AND PARTIAL	A	2.34	2.34	1.56						2.34		
	DIFFERENTIAL EQUATIONS	В	2.06	2.06	1.37						2.06		
	PROGRAMMING AND DATA	A	2.24	2.24	2.29	2.38							
	STRUCTURE LABORATORY II	В	2.36	2.36	2.37	2.36							
	DATABASE	A	2.6	2.6	2.31	2.21							
	MANAGEMENT SYSTEMS LABORATORY	В	2.62	2.34	2.33	2.16							
	COMPUTER	A	2.6	2.6	2.31	1.73							
	NETWORKS	В	2.62	2.62	2.33	1.75							
	DESIGN AND ANALYSIS OF	A	1.84	2.58	2.21	2.58						1.84	
	ALGORITHMS	В	1.43	1.68	1.8	1.69						1.68	
	MICROPORCESSO R AND	A	2.35	2.35	1.57						2.35		
IV	MICROCONTROL LER	В	2.5	2.5	1.67						2.5		
	OPERATING	A	1.35	1.35		2.02	1.35				1.35		
	SYSTEMS	В	1.68	1.68	1.12						1.68		
	PROBABILITY	A	2.24	2.24	1.49	1.49							
	AND QUEING THEORY	В	2.36	2.36	1.57	2.36							

	SOFTWARE	A	1.79	2.68	2.68	2.23				1.89			
	ENGINEERING	В	1.76	2.64	2.64	2.2				1.86			
	NETWORKS	A	2.41	2.37	2.18	2.31	2.18						
	LABORATORY	В	2.45	2.29	2.04	2.33	2.04						
	MICROPROCESSO R AND	A	2.28	2.26	2.08	2.12							
	MICROCONTROL LER LABORATORY	В	2.19	2.02	1.98	2.04							
	OPERATING SYSTEMS	A	2.12	2.17	2.16	2.22	2.26						
	LABORATORY	В	2.08	2.03	2.04	2.08	2.08						
	COMPUTER	A	2.76	2.76	1.84							2.76	
	GRAPHICS	В	2.52	2.52	1.68							2.52	
	DISCRETE	A	2.56	1.99	2.13								
	MATHEMATICS	В	2.48	1.82	1.9								
V	THOERY OF	A	2.01	2.06	2.24		2.01				2.15		
	COMPUTATION	В	2.05	1.97	2.4		2.45				2.08		
	INTERNET	A	2.56	1.99	2.13						2.19	1.68	
	PROGRAMMING	В	2.48	1.82	1.9						2.17	2.13	
		A		1.76	2.1		2.28						

	OBEJCT ORIENTED DESIGN AND ANALYSIS	В		1.82	2.3		2.42								
	CASE TOOLS	A		2.34	2.18	2.1		2.26							
	LABORATORY	В		2.37	2.04	2.3		2.34							
	INTERNET	A	2.28	2.57	2.12	2.13							2.28	2.16	
	PROGRAMMING LABORATORY	В	2.12	2.5	2	1.9							2.16	2.08	
	COMPUTER	A	2.21	2.24	2.18	1.84	2							2.56	
	GRAPHICS LABORATORY	В	2.12	2.18	2.08	1.68								2.44	
	ARTIFICIAL	A	2.6	2.6	2.31	1.73			2.38					2.31	2.12
	INTELLIGENCE	В	2.62	2.34	2.33	1.75			2.32					2.33	1.96
	COMPLIER	A	2.3	1.84	2.02			2.53				2.18		2.76	2.14
	DESIGN	В	2.05	1.64	1.97			2.37				2.09		2.46	2.03
VI	DISTRIBUTED	A	1.55		2.32								2.32	2.32	
	SYSTEMS	В	1.79		2.38								2.68	2.68	
	DIGITAL PRINCIPLES AND	A	2.28	2.28	1.52								2.28		
	PRINCIPLES AND SYSTEM DESIGN	В	2.05	1.97	2.4										
		A	1.68	1.68	1.12					_					

	MOBILE COMPUTING	В	2.24	2.24	1.49								
	TOTAL QUALITY	A	2.36	2.36	1.57						2.36		
	MANAGEMENT	В	2.23	2.23	1.49						2.23		
	MOBILE APPLICATION	A	2.16	2.32	2.16	2.12					2.28		
	DEVELOPMENT LABORATORY	В	2.13	2.12	2.08	2							
	COMPILER	A	2.34	2.32	2.18	2.02							
	LABORATORY	В	2.23	2.13	2.01	1.97							
	COMMUNICATIO N AND SOFT	A	2.36	2.36	1.57						2.36		
	SKILLS - BASED LABORATORY	В	2.23	2.23	1.49						2.23		
	CRYPTOGRAPHY AND NETWORK	A		2.01		2.28	1.82						
	SECURITY	В		1.74		2.17	1.64						
	GRID AND CLOUD	A	1.51		1.76	2.36	1.72	2.27				1.51	2.27
VII	COMPUTING	В	1.38		1.69	2.19	1.38	2.18				1.38	2.07
VII	GRAPH THEORY	A	1.42	1.53	1.53	2.45	2.1						1.53
	AND APPLICATIONS	В	2.67	1.7	1.6	2.14	2.02						1.8
	RESOURSE MANAGEMENT	A	2.38	2.38									
	TECHNIQUES	В	2.58	2.58									

	INFORMATION RETRIVAL	A		2.41		2.31										
	TECHNIQUES	В		2.3		2.31										
	SERVICE ORIENTED	A					2.16		2.5						2.5	
	ARCHTIECTURE	В					2.02		2.27						1.97	
	SECURITY	A		2.18			2.21	2.28								
	LABORATORY	В		2.14			2.1	2.17								
	GRID AND CLOUD	A	2.03		2.12	1.76	2.28	1.94		2.28					2.24	2.21
	COMPUTING LABORATORY	В	2.17		2	1.69	2.08	1.86		2.21					2.14	2.07
	MULTICORE	A			1.64	2.52		2.46								
	ARCHITECTURE	В			1.72	2.43		2.28								
	HUMAN COMPUTER	A	1.93	2.42	1.93									2.03		
VIII	INTERACTION	В	2.1	1.74	1.86			2.23	2.2					1.96		
VIII	PROFESSION ETHICS FOR	A						2.26	2.4	2.6						
	ETHICS FOR ENGINEERING	В						2.37	2.8	2.8						
	PROJECT WORK	A	2.47	2.62	2.18	2.31	2.24			2.38					2.27	2.26
	PROJECT WORK	В	2.38	2.38	2.02	2.33	2.08			2.1					2.31	2.12
	ATTAINMENT LEVEL	Γ	2.20	2.21	1.92	2.09	2.00	2.13	2.03	2.20	2.00	1.96	2.14	2.32	2.20	2.05

PERCENTAGE	73	74	64	70	67	71	68	73	67	65	71	77	73	68
PERCENTAGE(80%)	58.6	58.8	51.2	55.6	53.2	56.8	54.2	58.7	53.3	52.2	57.1	61.8	58.7	54.6
	5	6	0	1	7	2	2	1	3	7	6	7	1	2

V. R. Kette
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

PO ATTAINMENT 2013-2017 BATCH

PO No	Method assessment	Direct assessment (80%)	Indirect Ass (20%				
			End of Course Survey (20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline.	58.65	16	20		18	77
2	An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution.	58.86	15	20		17	76

3	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.	51.20	16	20	18	18	69
4	An ability to design and conduct experiments, as well as to analyze and interpret data.	55.61	14	20		17	73
5	An ability to use current techniques, skills, and modern tools necessary for computing practice.	53.27	16	20	17	18	71
6	An ability to analyze the local and global impact of computing on individuals, organizations, and society.	56.82	14	20		17	74

7	Knowledge of contemporary issues.	54.22	17	20		18	73
8	An understanding of professional, ethical, legal, security and social issues and responsibilities.	58.71	14	20		17	76
9	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.	53.33	17	20		18	72
10	An ability to communicate effectively with a range of audiences.	52.27	18	19	17	18	70

11	Recognition of the need for and an ability to engage in continuing professional development.	57.16	18	20	19	76
12	An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects.	61.87	14	20	17	79
13	An ability to analyze the efficiency and the performance of the software with respect to meet the requirements and specifications of the expected outcome.	58.71	16	20	18	77
14	An ability to use simulation tools to get experimental results for the Real-Time system.	54.62	16	20	18	73

V. R. Le the

DPEARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PO ATTAINMENT FOR COURSES (2014- 18)

SE M	COURSE NAME	SE C	PO1	PO2	PO3	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
	MATHEMATICS I	A	2.38	2.66			2.04	2.52							1.68			
	MATHEMATICST	В	2.32	2.8			1.96	2.41							1.44			
	ENGINEERING	A	2.21	2.28	1.98	1.5 9												
	PHYSICS I	В	2.18		1.84	1.7												
	ENGG	A	2.38	2.12		1.6												
	CHEMISTRY I	В	2.31	2.02	1.78	1.7												
I	ENGG GRAPHICS	A	2.4	2.1			1.94								1.98			
	ENGG GRAPHICS	В	2.36	2			1.86								1.78			
	FUNDAMENTAL S OF	A	2.31	2.62	1.18	2.6	2.14											2.24
	COMPUTING AND PROGRAMMING	В	2.2	2.48	2.08	2.6	2.02											2.16
	ENGINEERING	A		2.37	2.12	2.1		1.96					2.16					
	ENGLISH I	В		2.16	2	2.3		1.82					2.08					

	COMPUTER PRACTICES	A	2.56	2.48	2.36	2.5							2.36
	LABORATORY	В	2.42	2.36	2.3	2.4							2.28
	ENGINEERING PRACTICES	A	2.34	2.38		2.4							
	LABORATORY	В	2.26	2.18		2.2							
	PHYSICS AND CHEMISTRY	A	2.71	2.62	2.42								
	LABORATORY - I	В	2.54	2.56	2.36								
	PHYSICS II	A	2.1	2.17	1.02	1.7 6						2.56	
	PH I SICS II	В	2.02	1.83	1.98	1.7 6						2.38	
	MATHEMATICS	A	2.21	2.34	1.92	1.6						2.42	
	П	В	2.1	2.1	1.74	1.4						2.23	
II	ENGG	A	2.08	2.48					1.96	1.98		2.32	
11	CHEMISTRY II	В	2.12	2.16					1.88	1.76		2.04	
	PROGRAMMING AND	A	2.31	2.32	2.18	1.6 7	2.16	1.98				2.12	2.36
	DATASTRUCTUR ES I	В	2.42	3.27	2.04	1.5 6	2.04	1.96				2	2.22
	DIGITAL PRINCIPLES AND	A	2.43	2.36	2.08	1.6						2.38	
	SYSTEM DESIGN	В	2.38	2.18	2	1.4 4						2.2	

	ENGRIEER DIG	A		2.1				1.06			2.10	2.00		
	ENGINEERING ENG II	11	2.4	2.1				1.86			2.18	2.08		
		В	2.34	2.02				1.78			2.1	2.11		
	PHYSICS AND CHEMISTRY	A	2.56	2.38	2.58									
	LABORATORY - II	В	2.56	2.52	2.48									
	DIGITAL	A	2.56	2.42	2.36									
	LABORATORY	В	2.52	2.36	2.3									2.38
	PROGRAMMING AND DATA	A	2.61	2.62	2.48	2.3								2.24
	STRUCTURES LABORATORY I	В	2.58	2.52	2.48	2.3								
	ANALOG AND DIGITAL	A	2.32	1.98	1.96	1.5 7						2.04		
	COMMUNICATIO N	В	2.16	1.6	1.72	1.6 7						2		
	COMPUTER	A	2.3	2.15	2.12	2.3	2.16						2.68	
III	ORGANIZATION AND ARCHITECTURE	В	2.48	2.04	2.02	1.9 9	1.98						2.59	
	PROGRAMMING AND	A	2.03	2.03	2.14	1.6 7	2.18	1.72					2.14	2.44
	DATASTRUCTUR ES II	В	1.64	2.3	2.02	1.5 2	2.08	1.68				_	2.08	2.32
		A	2.22	2.22	2.08	2.6 8	2.28			2.1				2.32

	DATABASE MANAGEMENT SYSTEMS	В	2.1	2.48	2.01	2.6 4	2.17				2.04				2.24
	ENVIRONMENTA L SCIENCE AND ENGINEERING	A B					2.14		2.04						
	TRANSFORMS AND PARTIAL	A	2.42	2.36	2.18	1.5 6	2.02		1.92	2.12			2.36		
	DIFFERENTIAL EQUATIONS	В	2.48	2.14	2.02	1.3 7							2.22		
	PROGRAMMING AND DATA	A	2.42	2.36	2.32	2.4 4									2.42
	STRUCTURE LABORATORY II	В	2.38	2.32	2.18	2.3									2.36
	DATABASE	A	2.52	2.48	2.31	2.4 6									2.38
	MANAGEMENT SYSTEMS LABORATORY	В	2.48	2.36	2.23	2.2									2.2
	COMPUTER	A	2.41	2.37	2.18	2.3	2.18								2.36
	NETWORKS	В	2.45	2.29	2.04	2.3	2.04								2.24
IV	DESIGN AND ANALYSIS OF	A	2.49	2.42	2.16	2.2	2.16							2.02	
I V	ALGORITHMS	В	2.12	2.15	2.02	1.8	2.02							1.86	
	MICROPORCESS OR AND	A	2.28	2.26	2.08	1.5 7							2.41		
	MICROCONTROL LER	В	2.19	2.02	1.98	1.6 7							2.27		

	OPERATING	A	2.12	2.17	2.16	2.1	2.26				2.18		
	SYSTEMS	В	2.08	2.03	2.04	2.1	2.08				2.14		
	PROBABILITY AND QUEING	A	1.8	2.16	1.98	1.4 9							
	THEORY	В	2.1	2.15	1.92	1.5 7	2.18						
	SOFTWARE	A	2.38	2.52	2.18	2.6	2.04			2.36			2.52
	ENGINEERING	В	2.32	2.48	2.02	2.6 4	2.07			2.24			2.48
	NETWORKS	A	2.56	2.42	2.28	2.4 6	2.36						
	LABORATORY	В	2.46	2.38	2.24	2.3	2.24						
	MICROPROCESS OR AND	A	2.52	2.48	2.5	2.4							
	MICROCONTROL LER LABORATORY	В	2.48	2.46	2.44	2.4							
	OPERATING	A	2.28	2.36	2.22	2.3	2.42						
	SYSTEMS LABORATORY	В	2.24	2.26	2.18	2.2	2.34						
	COMPUTER	A	2.21	2.24	2.18	1.8	2				2.56		
r	GRAPHICS	В	2.12	2.18	2.08	1.6 8					2.44		
	DISCRETE MATHEMATICS	A	2.1	2.1	2.02	2.1							

	В	2.08	2.03	1.98	1.9										
THOERY OF	A	2.13	2.1	2.08	2.2		2.14				2.14				
COMPUTATIO	В	2.09	2.01	2.01	2.4		1.96				2.1				
INTERNET	A	2.28	2.57	2.12	2.1						2.18	2.16			2.2
PROGRAMMIN	G B	2.12	2.5	2	1.9						2.16	2.08			2.08
OBEJCT ORIENTED	A		2.34	2.18	2.1		2.26								2.28
DESIGN AND ANALYSIS	В		2.37	2.04	2.3		2.34								2.14
CASE TOOLS	A		2.54	2,42	2.3		2.26								2.36
LABORATORY	В		2.52	2.4	2.3		2.34								2.3
INTERNET PROGRAMMIN	A	2.56	2.56	2.36	2.2						2.18	2.16			2.36
LABORATORY		2.48	2.48	2.28	2.2						2.06	2.08			2.22
COMPUTER	A	2.54	2.48	2.34	2.3	2						2.56			
GRAPHICS LABORATORY	В	2.44	2.44	2.32	2.2							2.44			
ARTIFICIAL	A	2.47	2.62	2.18	2.3	2.24			2.38				2.27	2.26	2.42
INTELLIGENCE	В	2.38	2.38		2.3	2.08			2.1				2.31	2.12	2.26
COMPLIER DESIGN	A	2.34	1.93	2.18	2.0			2.28					2.52	2.2	

		В	2.23	1 67	2.01	1.9			2.1					2.36	2 12	
			2.23	1.67	2.01	2.3			2.1					2.30	2.12	
	DISTRIBUTED	A	2.3	2.3	2.08	2.3							2.36	2.48		
	SYSTEMS	В	2.1	2.63	2.01	2.3							2.28	2.34		
	DIGITAL PRINCIPLES AND	A	2.31	2.1	1.96	1.5							2.36			
	SYSTEM DESIGN	В	2.22	2.08	1.86	2.4							2.22			
	MOBILE	A	2.16	2.32	2.16	1.1										
	COMPUTING	В	2.13	2.12	2.08	1.4 9										
	TOTAL QUALITY	A	2.24	2.42	2.18	1.5 7							2.42			
	MANAGEMENT	В	2.17	2.26	2.06	1.4 9							2.28			
	MOBILE APPLICATION	A	2.52	2.46	2.36	2.3						2.46				2.44
	DEVELOPMENT LABORATORY	В	2.48	2.32	2.24	2.3						2.24				2.36
	COMPILER	A	2.54	2.46	2.36	2.4										
	LABORATORY	В	2.36	2.4	2.32	2.3					2.22					
	COMMUNICATIO N AND SOFT	A	2.46	2.42	2.46						2.08	2.36				2.36
	SKILLS - BASED LABORATORY	В	2.4	2.3	2.32							2.24				2.1
VII		A		2.18			2.21	1.84								2.36

	CRYPTOGRAPHY AND NETWORK SECURITY	В		2.12			2.02	1.7								2.22
	GRID AND	A	2.03		2.12	1.7 6	2.28	1.94		2.28				2.24	2.21	
	CLOUD COMPUTING	В	2.17		2	1.6 9	2.08	1.86		2.21				2.14	2.07	
	GRAPH THEORY AND	A	2.37	2.37	2.18	1.5	2.14	1.72							2.1	
	APPLICATIONS	В	2.03	2.27	2.03	1.6	2.04	1.68							2.04	
	RESOURSE MANAGEMENT	A	2.12	2.32												
	TECHNIQUES	В	2.08	2.1												
	INFORMATION RETRIVAL	A		2.48			2.24									
	TECHNIQUES	В		2.37			2.12									
	SECURITY	A		2.48			2.48	2.56								2.42
	LABORATORY	В		2.44			2.38	2.38								2.38
	GRID AND CLOUD	A	2.46		2.44	2.3	2.44	2.52		2.46			2.46	2.48		2.34
	COMPUTING LABORATORY	В	2.38		2.36	2.2	2.38	2.32		2.24			2.38	2.34		2.2
	SERVICE ORIENTED	A						2.51		2.26				2.36		
III	ARCHTIECTURE	В						2.58		2.18	 	 		2.24		
	MULTICORE ARCHITECTURE	A			2.12	1.6 4	2.28		2.48							

	В			2.04	1.7 2	2.18		2.31									
HUMAN	A	2.28	2.46	2.12	1.9				2.32					2.24			
COMPUTER INTERACTION	В	2.14	2.26	2	1.8 6				2.26					2.18			
PROFESSION ETHICS FOR	A							2.32	2.42	2.36							
ENGINEERING	В							2.28	2.38	2.24							
DDOIECT WORK	A	2.56	2.62	2.42	2.4 6	2.44			2.46					2.48	2.36	2.48	2.56
PROJECT WORK	В	2.42	2.44	2.34	2.3	2.32			2.24					2.36	2.24	2.32	2.34
ATTAINMENT LE	VEL	2.31	2.31	2.12		2.15	2.09	2.20	2.20	2.24	2.07	2.18	2.21	2.22	2.30	2.19	2.31
PERCENTAGE		77	77	71		72	70	73	73	75	69	73	74	74	77	73	77
PERCENTAGE(80)%)	61.4 9	61.5 7	56.6 6		57.3 9	55.8 1	58.7 0	58.6 5	59.7 3	55.2 0	58.0 7	58.9 9	59.3 0	61.4	58.4 5	61.7

V. R. Ve the

PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING PO ATTAINMENT 2014-2018 BATCH

		Discord		Indire	ect Assessm	ent (20%)	
PO No	Method assessment	Direct assessment (80%)	End of Course Survey (20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline.	61.49	17	20	13	17	78
2	An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution.	61.57	15	20	13	16	77
3	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.	56.66	15	20	13	16	73
4	An ability to design and conduct experiments, as well as to analyze and interpret data.	57.39	13	20	14	16	73
5	An ability to use current techniques, skills, and modern tools necessary for computing practice.	55.81	15	20	12	16	72

6	An ability to analyze the local and global impact of computing on individuals, organizations, and society.	58.70	13	20	13	15	74
7	Knowledge of contemporary issues.	58.65	17	20	10	16	74
8	An understanding of professional, ethical, legal, security and social issues and responsibilities.	59.73	16	20	11	16	75
9	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.	55.20	17	20	11	16	71
10	An ability to communicate effectively with a range of audiences.	58.07	18	20	11	16	75
11	Recognition of the need for and an ability to engage in continuing professional development.	58.99	18	20	7	15	74
12	An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects.	59.30	14	20	7	14	73
		PROGRAMN	IE SPECIFIC O	UTCOMES			

1	To Analyze, Design and Develop computer programs / Applications in the areas related to Web-Technologies, Networking, Algorithms, Cloud Computing, Data analytics, Computer Vision, Cyber-Security and Intelligent Systems for efficient design of computer-based and Mobile-based systems of varying complexity	61.40	16	20	13	16	78
2	To use modern software tools (like NS2, MATLAB, OpenCV, etc) for designing, simulating, analyzing and generating experimental results for real-time problems and case studies	58.45	16	20	13	16	75
3	To Apply Software Engineering practices and strategies for developing Projects related to emerging technologies.	61.73	12	20	13	15	77

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DPEARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PO ATTAINMENT FOR COURSES (2015- 19)

SE M	COURSE NAME	SE C	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1	PO1 2	PSO 1	PSO 2	PSO 3
141	MATHEMATICS I	A	2.59	2.76		2.26	2.68					0	1	1.68	1		3
	MATHEMATICST	В	2.53	2.9		2.18	2.41							1.44			
	ENGINEERING	A	2.42	2.38	2.08												
	PHYSICS I	В	2.39	2.22	1.94												
	ENGG	A	2.59	2.26	2.06												
	CHEMISTRY I	В	2.52	2.12	1.88												
I	ENGG OD A DUUGG	A	2.61	2.2		2.16								1.98			
	ENGG GRAPHICS	В	2.57	2.1		2.08								1.78			
	FUNDAMENTALS OF COMPUTING	A	2.52	2.72	1.28	2.36											2.24
	AND PROGRAMMING	В	2.41	2.58	2.18	2.24											2.16
	ENGINEERING	A		2.47	2.22		1.96					2.16					
	ENGLISH I	В		2.26	2.1		1.82					2.08					
		A	2.77	2.58	2.46												2.36

	COMPUTER PRACTICES LABORATORY	В	2.63	2.46	2.4								2.2	28
	ENGINEERING PRACTICES	A	2.55	2.48										
	LABORATORY	В	2.47	2.28										
	PHYSICS AND CHEMISTRY	A	2.92	2.72	2.52									
	LABORATORY - I	В	2.75	2.66	2.46									
	PHYSICS II	A	2.31	2.27	1.12							2.56		
	FITISICS II	В	2.23	1.93	2.08							2.38		
	MATHEMATICS II	A	2.42	2.44	2.02							2.42		
	MATHEMATICS II	В	2.31	2.2	1.84							2.23		
	ENGG	A	2.29	2.58				1.96	1.98			2.32		
	CHEMISTRY II	В	2.33	2.26				1.88	1.76			2.04		
II	PROGRAMMING AND	A	2.52	2.42	2.28	2.38	1.98					2.12	2.3	36
	DATASTRUCTURE S I	В	2.63	3.37	2.14	2.26	1.96					2	2.2	22
	DIGITAL PRINCIPLES AND	A	2.64	2.46	2.18							2.38		
	SYSTEM DESIGN	В	2.59	2.28	2.1							2.2		
	ENGINEERING	A	2.61	2.2			1.86				2.18	2.08		
	ENG II	В	2.55	2.12			1.78				2.1	2.11		

	PHYSICS AND	A	2.77	2.48	2.68									
	CHEMISTRY LABORATORY - II	В	2.77	2.62	2.58									
	DIGITAL	A	2.77	2.52	2.46									
	LABORATORY	В	2.73	2.46	2.4									2.38
	PROGRAMMING AND DATA	A	2.82	2.72	2.58									2.24
	STRUCTURES LABORATORY I	В	2.79	2.62	2.58									
	ANALOG AND	A	2.53	2.08	2.06							2.04		
	DIGITAL COMMUNICATIO N	В	2.37	1.7	1.82							2		
	COMPUTER	A	2.51	2.25	2.22	2.38							2.68	
	ORGANIZATION AND ARCHITECTURE	В	2.69	2.14	2.12	2.2							2.59	
III	PROGRAMMING AND	A	2.24	2.13	2.24	2.4	1.72						2.14	2.44
	DATASTRUCTURE S II	В	1.85	2.4	2.12	2.3	1.68						2.08	2.32
	DATABASE MANAGEMENT	A	2.43	2.32	2.18	2.5				2.1				2.32
	SYSTEMS	В	2.31	2.58	2.11	2.39				2.04				2.24
	ENVIRONMENTA L SCIENCE AND	A				2.36		 2.04	2.24			_		
	ENGINEERING	В				2.24		1.92	2.12					

	TRANSFORMS AND PARTIAL	A	2.63	2.46	2.28					2.36		
	DIFFERENTIAL EQUATIONS	В	2.69	2.24						2.22		
	PROGRAMMING AND DATA	A	2.63	2.46	2.42							2.42
	STRUCTURE LABORATORY II	В	2.59	2.42	2.28							2.36
	DATABASE	A	2.73	2.58	2.41							2.38
	MANAGEMENT SYSTEMS LABORATORY	В	2.69	2.46	2.33							2.2
	COMPUTER	A	2.62	2.47	2.28	2.4						2.36
	NETWORKS	В	2.66	2.39	2.14	2.26						2.24
	DESIGN AND ANALYSIS OF	A	2.7	2.52	2.26	2.38					2.02	
	ALGORITHMS	В	2.33	2.25	2.12	2.24					1.86	
13.7	MICROPORCESSO R AND	A	2.49	2.36	2.18					2.41		
IV	MICROCONTROLL ER	В	2.4	2.12	2.08					2.27		
	OPERATING	A	2.33	2.27	2.26	2.48				2.18		
	SYSTEMS	В	2.29	2.13	2.14	2.3				2.14		
	PROBABILITY AND QUEING	A	2.01	2.26	2.08							
	THEORY	В	2.31	2.25	2.02	2.4						

	SOFTWARE	A	2.59	2.62	2.28	2.26				2.36				2.52
	ENGINEERING	В	2.53	2.58	2.12	2.29				2.24				2.48
	NETWORKS	A	2.77	2.52	2.38	2.58								
	LABORATORY	В	2.67	2.48	2.34	2.46								
	MICROPROCESSO R AND	A	2.73	2.58	2.6									
	MICROCONTROLL ER LABORATORY	В	2.69	2.56	2.54									
	OPERATING	A	2.49	2.46	2.32	2.64								
	SYSTEMS LABORATORY	В	2.45	2.36	2.28	2.56								
	COMPUTER	A	2.42	2.34	2.28	2.22						2.56		
	GRAPHICS	В	2.33	2.28	2.18							2.44		
	DISCRETE	A	2.31	2.2	2.12									
	MATHEMATICS	В	2.29	2.13	2.08									
V	THOERY OF	A	2.34	2.2	2.18		2.14				2.14			
	COMPUTATION	В	2.3	2.11	2.11		1.96				2.1			
	INTERNET	A	2.49	2.67	2.22						2.18	2.16		2.2
	PROGRAMMING	В	2.33	2.6	2.1						2.16	2.08		2.08
		A		2.44	2.28		2.26							2.28

	OBEJCT ORIENTED DESIGN AND ANALYSIS	В		2.47	2.14		2.34								2.14
	CASE TOOLS	A		2.64	2.52		2.26								2.36
	LABORATORY	В		2.62	2.5		2.34								2.3
	INTERNET PROGRAMMING	A	2.77	2.66	2.46						2.18	2.16			2.36
	LABORATORY	В	2.69	2.58	2.38						2.06	2.08			2.22
	COMPUTER GRAPHICS	A	2.75	2.58	2.44	2.22						2.56			
	LABORATORY	В	2.65	2.54	2.42							2.44			
	ARTIFICIAL	A	2.68	2.72	2.28	2.46			2.38				2.27	2.26	2.42
	INTELLIGENCE	В	2.59	2.48	2.12	2.3			2.1				2.31	2.12	2.26
	COMPLIER	A	2.55	2.03	2.28			2.28					2.52	2.2	
	DESIGN	В	2.44	1.77	2.11			2.1					2.36	2.12	
VI	DISTRIBUTED	A	2.51	2.4	2.18							2.36	2.48		
	SYSTEMS	В	2.31	2.73	2.11							2.28	2.34		
	DIGITAL PRINCIPLES AND	A	2.52	2.2	2.06							2.36			
	SYSTEM DESIGN	В	2.43	2.18	1.96							2.22			
		A	2.37	2.42	2.26										

	MOBILE COMPUTING	В	2.34	2.22	2.18											
	TOTAL QUALITY	A	2.45	2.52	2.28								2.42			
	MANAGEMENT	В	2.38	2.36	2.16								2.28			
	MOBILE APPLICATION	A	2.73	2.56	2.46							2.46				2.44
	DEVELOPMENT LABORATORY	В	2.69	2.42	2.34							2.24				2.36
	COMPILER	A	2.75	2.56	2.46											
	LABORATORY	В	2.57	2.5	2.42						2.22					
	COMMUNICATIO N AND SOFT	A	2.67	2.52	2.56						2.08	2.36				2.36
	SKILLS - BASED LABORATORY	В	2.61	2.4	2.42							2.24				2.1
	CRYPTOGRAPHY AND NETWORK	A		2.28		2.43	1.84									2.36
	SECURITY	В		2.22		2.24	1.7									2.22
	GRID AND CLOUD	A	2.24		2.22	2.5	1.94		2.28					2.24	2.21	
VII	COMPUTING	В	2.38		2.1	2.3	1.86		2.21					2.14	2.07	
VII	GRAPH THEORY	A	2.58	2.47	2.28	2.36	1.72								2.1	
	AND APPLICATIONS	В	2.24	2.37	2.13	2.26	1.68	_		_					2.04	
	RESOURSE MANAGEMENT	A	2.33	2.42												
	TECHNIQUES	В	2.29	2.2												

	INFORMATION RETRIVAL	A		2.58		2.46											
	TECHNIQUES	В		2.47		2.34											
	SECURITY	A		2.58		2.7	2.56										2.42
	LABORATORY	В		2.54		2.6	2.38										2.38
	GRID AND CLOUD COMPUTING	A	2.67		2.54	2.66	2.52		2.46					2.46	2.48		2.34
	LABORATORY	В	2.59		2.46	2.6	2.32		2.24					2.38	2.34		2.2
	SERVICE ORIENTED	A					2.51		2.26						2.36		
	ARCHTIECTURE	В					2.58		2.18						2.24		
	MULTICORE	A			2.22	2.5		2.48									
	ARCHITECTURE	В			2.14	2.4		2.31									
VIII	HUMAN COMPUTER	A	2.49	2.56	2.22				2.32					2.24			
VIII	INTERACTION	В	2.35	2.36	2.1				2.26					2.18			
	PROFESSION ETHICS FOR	A						2.32	2.42	2.36							
	ENGINEERING	В						2.28	2.38	2.24							
	PROJECT WORK	A	2.77	2.72	2.52	2.66			2.46					2.48	2.36	2.48	2.56
	I ROJECI WORK	В	2.63	2.54	2.44	2.54			2.24					2.36	2.24	2.32	2.34
	ATTAINMENT LEV	'EL	2.52	2.41	2.23	2.38	2.10	2.20	2.22	2.24	2.07	2.18	2.21	2.22	2.30	2.19	2.31

PERCENTAGE	84	80	74	79	70	73	74	75	69	73	74	74	77	73	77
PERCENTAGE(80%)	67.1 8	64.3 4	59.5 3	63.5 0	55.9 6	58.7 0	59.1 0	59.7 3	55.2 0	58.0 7	58.9 9	59.3 0	61.4 0	58.4 5	61.7
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												Н	IOD		

PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING PO ATTAINMENT 2015-2019 BATCH

Indirect Assessment (20%) Direct End of **Student Exit Indirect** PO No Method assessment assessment Course % **PO Rubrics** Survey Assessment (80%)Survey (20%)Attainment (20%)(20%)(20%)An ability to apply knowledge of 67.18 16 20 18 85 1 computing, mathematics, science and engineering fundamentals appropriate to the discipline. 2 64.34 15 20 17 **82** An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate 59.53 16 20 18 18 77 3 consideration for public health and safety, cultural, societal and environmental considerations.

4	An ability to design and conduct experiments, as well as to analyze and interpret data.	63.50	14	20		17	81
5	An ability to use current techniques, skills, and modern tools necessary for computing practice.	55.96	16	20	17	18	74
6	An ability to analyze the local and global impact of computing on individuals, organizations, and society.	58.70	14	20		17	76
7	Knowledge of contemporary issues.	59.10	17	20		18	77
8	An understanding of professional, ethical, legal, security and social issues and responsibilities.	59.73	16	20		18	78

9	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.	55.20	17	20		18	74
10	An ability to communicate effectively with a range of audiences.	58.07	18	19	17	18	76
11	Recognition of the need for and an ability to engage in continuing professional development.	58.99	18	20	17	18	77
12	An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects.	59.30	14	20		17	76

PROGRAMME SPECIFIC OUTCOMES

1	To Analyze, Design and Develop computer programs / Applications in the areas related to Web-Technologies, Networking, Algorithms, Cloud Computing, Data analytics, Computer Vision, Cyber-Security and Intelligent Systems for efficient design of computer-based and Mobile-based systems of varying complexity	61.40	16	20	19	18	80
2	To use modern software tools (like NS2, MATLAB, OpenCV, etc) for designing, simulating, analyzing and generating experimental results for real-time problems and case studies	58.45	16	20	18	18	77
3	To Apply Software Engineering practices and strategies for developing Projects related to emerging technologies.	61.73	12	19	18	16	78

V. R. Kette

HOD

DPEARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PO ATTAINMENT FOR COURSES (2016- 20)

SE M	COURSE NAME	SE C	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
	MATHEMATICS I	A	2.69	2.85 9		2.33	2.75							1.68			
	WATTEWATICST	В	2.57	2.99 9		2.25	2.41							1.44			
	ENGINEERING	A	2.49	2.47 9	2.15												
	PHYSICS I	В	2.45	2.31	2.01												
	ENGG	A	2.69	2.35	2.13												
т .	CHEMISTRY I	В	2.6	2.21	1.95 6												
I	ENGC CD A DILICG	A	2.63	2.29		2.23								1.98			
	ENGG GRAPHICS	В	2.62	2.19		2.15								1.78			
	FUNDAMENTALS OF COMPUTING	A	2.68	2.81 9	1.35 6	2.43											2.24
	AND PROGRAMMING	В	2.47	2.67 9	2.25	2.31											2.16
	ENGINEERING	A		2.56 9	2.29		1.96					2.16					
	ENGLISH I	В		2.35	2.17		1.82					2.08					

	COMPUTER	A	2.89	2.67 9	2.53								2.36
	PRACTICES LABORATORY	В	2.75	2.55 9	2.47 6								2.28
	ENGINEERING PRACTICES	A	2.67	2.57 9									
	LABORATORY	В	2.59	2.37									
	PHYSICS AND CHEMISTRY	A	3.04	2.81	2.59								
	LABORATORY - I	В	2.87	2.75	2.53								
	PHYSICS II	A	2.43	2.36	1.19 6							2.56	
	PHISICSII	В	2.35	2.02	2.15							2.38	
	MATHEMATICS H	A	2.54	2.53	2.09							2.42	
	MATHEMATICS II	В	2.43	2.29 9	1.91 6							2.23	
11	ENGG	A	2.41	2.67 9				1.96	1.98			2.32	
II	CHEMISTRY II	В	2.45	2.35				1.88	1.76			2.04	
	PROGRAMMING AND	A	2.64	2.51	2.35	2.45	1.98					2.12	2.36
	DATASTRUCTURE S I	В	2.75	3.46 9	2.21	2.33	1.96					2	2.22
	DIGITAL	A	2.76	2.55 9	2.25							2.38	
	PRINCIPLES AND SYSTEM DESIGN	В	2.71	2.37 9	2.17							2.2	

	ENGINEERING	A	2.73	2.29			1.86			2.18	2.08		
	ENG II	В	2.67	2.21			1.78			2.16	2.11		
	PHYSICS AND	A	2.89	2.57	2.75								
	CHEMISTRY LABORATORY - II	В	2.89	2.71 9	2.65								
	DIGITAL	A	2.89	2.61 9	2.53								
	LABORATORY	В	2.85	2.55 9	2.47 6								2.38
	PROGRAMMING AND DATA	A	2.94	2.81 9	2.65 6								2.24
	STRUCTURES LABORATORY I	В	2.91	2.71 9	2.65								
	ANALOG AND DIGITAL	A	2.65	2.17 9	2.13						2.04		
	COMMUNICATIO N	В	2.49	1.79	1.89						2		
III	COMPUTER ORGANIZATION	A	2.63	2.34	2.29	2.45						2.68	
	AND ARCHITECTURE	В	2.81	2.23	2.19	2.27						2.59	
	PROGRAMMING AND	A	2.36	2.22 9	2.31	2.47	1.72					2.14	2.44
	DATASTRUCTURE S II	В	1.97	2.49 9	2.19	2.37	1.68					2.08	2.32

	DATABASE MANAGEMENT	A	2.55	2.41	2.25	2.57				2.1			2.32
	SYSTEMS	В	2.43	2.67 9	2.18	2.46				2.04			2.24
	ENVIRONMENTA L SCIENCE AND	A				2.43		2.04	2.24				
	ENGINEERING	В				2.31		1.92	2.12				
	TRANSFORMS AND PARTIAL	A	2.63	2.55	2.35						2.36		
	DIFFERENTIAL EQUATIONS	В	2.69	2.33	2.19						2.22		
	PROGRAMMING AND DATA	A	2.63	2.55	2.49 6								2.42
	STRUCTURE LABORATORY II	В	2.59	2.51	2.35								2.36
	DATABASE	A	2.73	2.67 9	2.48								2.38
	MANAGEMENT SYSTEMS LABORATORY	В	2.69	2.55	2.40								2.2
	COMPUTER	Α	2.62	2.56 9	2.35	2.47							2.36
	NETWORKS	В	2.66	2.48 9	2.21	2.33							2.24
IV	DESIGN AND ANALYSIS OF	A	2.7	2.61 9	2.33	2.45						2.02	
	ALGORITHMS	В	2.33	2.34 9	2.19	2.31						1.86	
	MICROPORCESSO R AND	A	2.49	2.45 9	2.25						2.41		

	MICROCONTROLL	В		2.21	2.15								
	ER	D	2.4	9	6						2.27		
		A		2.36	2.33						2.18		
	OPERATING	7.1	2.33	9	6	2.55					2.10		
	SYSTEMS	В		2.22	2.21						2.14		
			2.29	9	6	2.37					2.1 1		
	PROBABILITY	Α		2.35	2.15								
	AND QUEING		2.12	9	6								
	THEORY	В		2.34	2.09								
-	-		2.42	9	6	2.47							
		A		2.71	2.35								
	SOFTWARE		2.7	9	6	2.33				2.36			2.52
	ENGINEERING	В		2.67	2.19								
			2.64	9	6	2.36				2.24			2.4
١.	NETHORNS	A	2.00	2.61	2.45	2 - 5							
	NETWORKS		2.88	9	6	2.65							
	LABORATORY	В	2.70	2.57	2.41	2.52							
L.	N H CD ODD O CECCO		2.78	9	6	2.53							
	MICROPROCESSO	A	2.04	2.67	2.67								
	R AND		2.84	9	6								
	MICROCONTROLL	В	2.0	2.65	2.61								
-	ER LABORATORY		2.8	9	6				1				
	OPERATING	A	2.6	2.55	2.39	0.71							
	SYSTEMS		2.6		6	2.71							
	LABORATORY	В	2.56	2.45	2.35	2.62							
			2.56	9	6	2.63							
	COMPLETED	A	2.52	2.43	2.35	2.20					2.56		
	COMPUTER		2.53	9	6	2.29					2.56		
	GRAPHICS	В	2 44	2.37	2.25						2 4 4		
-	DICCDETE		2.44		6						2.44		
	DISCRETE	A	2.42	2.29	2.19								
Ŀ	MATHEMATICS		2.42	9	6								

		В	2.4	2.22	2.15										
_	THOERY OF	A	2.45	2.29	2.25		2.14				2.14				
	COMPUTATION	В	2.41	2.20	2.18		1.96				2.1				
	INTERNET	A	2.6	2.76 9	2.29						2.18	2.16			2.2
	PROGRAMMING	В	2.44	2.69 9	2.17 6						2.16	2.08			2.08
	OBEJCT ORIENTED	A		2.53 9	2.35		2.26								2.28
	DESIGN AND ANALYSIS	В		2.56 9	2.21		2.34								2.14
	CASE TOOLS	A		2.73 9	2.52		2.26								2.36
	LABORATORY	В		2.71 9	2.57		2.34								2.3
	INTERNET PROGRAMMING	A	2.77	2.75 9	2.53						2.18	2.16			2.36
	LABORATORY	В	2.69	2.67 9	2.45						2.06	2.08			2.22
	COMPUTER GRAPHICS	A	2.75	2.67 9	2.51	2.29						2.56			
	LABORATORY	В	2.65	2.63 9	2.49							2.44			
	ARTIFICIAL	A	2.68	2.81 9	2.35	2.53			2.38				2.27	2.26	2.42
	INTELLIGENCE	В	2.59	2.57 9	2.19	2.37			2.1				2.31	2.12	2.26
	COMPLIER DESIGN	A	2.55	2.12 9	2.35			2.28					2.52	2.2	

		В		1.86	2.18										
		Б	2.44	9	6			2.1					2.36	2.12	
	DISTRIBUTED	A	2.51	2.49 9	2.25							2.36	2.48		
	SYSTEMS	В	2.31	2.82	2.18							2.28	2.34		
	DIGITAL	A	2.52	2.29	2.13							2.36			
	PRINCIPLES AND SYSTEM DESIGN	В	2.43	2.27	2.03							2.22			
•	MOBILE	A	2.37	2.51	2.33										
	COMPUTING	В	2.34	2.31	2.25										
•	TOTAL QUALITY	A	2.45	2.61 9	2.35							2.42			
	MANAGEMENT	В	2.38	2.45	2.23							2.28			
,	MOBILE APPLICATION	A	2.73	2.65 9	2.53						2.46				2.44
	DEVELOPMENT LABORATORY	В	2.69	2.51	2.41						2.24				2.36
•	COMPILER	A	2.75	2.65	2.53										
	LABORATORY	В	2.57	2.59	2.49					2.22					
	COMMUNICATIO N AND SOFT	A	2.67	2.61	2.63					2.08	2.36				2.36
	SKILLS - BASED LABORATORY	В	2.61	2.49 9	2.49 6						2.24				2.1
'II		A		2.37		2.5	1.84								2.36

CRYPTOGRAPHY AND NETWORK SECURITY	В		2.31		2.31	1.7							2.22
GRID AND CLOUD	A	2.24		2.29	2.57	1.94	2.28				2.24	2.21	
COMPUTING	В	2.38		2.17	2.37	1.86	2.21				2.14	2.07	
GRAPH THEORY	A	2.58	2.56 9	2.35	2.43	1.72						2.1	
AND APPLICATIONS	В	2.24	2.46 9	2.20	2.33	1.68						2.04	
RESOURSE	A	2.33	2.51										
MANAGEMENT TECHNIQUES	В	2.29	2.29										
INFORMATION	A		2.67 9		2.53								
RETRIVAL TECHNIQUES	В		2.56 9		2.41								
SECURITY	A		2.67 9		2.77	2.56							2.42
LABORATORY	В		2.63		2.67	2.38							2.38
GRID AND CLOUD	A	2.67		2.61	2.73	2.52	2.46			2.46	2.48		2.34
COMPUTING LABORATORY	В	2.59		2.53	2.67	2.32	2.24			2.38	2.34		2.2
SERVICE ORIENTED	A					2.51	2.26				2.36		
ARCHTIECTURE	В					2.58	2.18	_			2.24		

MULTICORE	A			2.29 6	2.57		2.48									
ARCHITECTURE	В			2.21	2.47		2.31									
HUMAN	A	2.49	2.65 9	2.29				2.32					2.24			
COMPUTER INTERACTION	В	2.35	2.45 9	2.17				2.26					2.18			
PROFESSION ETHICS FOR	A						2.32	2.42	2.36							
ENGINEERING	В						2.28	2.38	2.24							
DDOIECT WORK	A	2.77	2.81	2.59	2.73			2.46					2.48	2.36	2.48	2.56
PROJECT WORK	В	2.63	2.63 9	2.51	2.61			2.24					2.36	2.24	2.32	2.34
ATTAINMENT LE	VEL	2.58	2.51	2.31	2.45	2.10	2.20	2.22	2.24	2.07	2.18	2.21	2.22	2.30	2.19	2.31
PERCENTAGE	3	86	84	77	82	74	73	74	75	69	73	74	74	77	73	77
PERCENTAGE(80)%)	68.8 0	66.9 8	61.5 4	65.3 7	58.3 4	60.0 8	60.1 8	61.7	58.1 3	59.1 0	59.2 4	60.1	62.2	59.7 8	62.6

V. R. Kette

HOD

PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

PO ATTAINMENT (2016- 20) BATCH

		Direct		Indirec	t Assessmen	t (20%)	
PO No	Method assessment	assessment (80%)	End of Course Survey (20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline.	68.80	18	20		19	88
2	An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution.	66.98	15	20		18	85
3	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.	61.54	16	20	18	18	79

4	An ability to design and conduct experiments, as well as to analyze and interpret data.	65.37	14	20		17	82
5	An ability to use current techniques, skills, and modern tools necessary for computing practice.	58.34	16	20	18	18	76
6	An ability to analyze the local and global impact of computing on individuals, organizations, and society.	60.08	14	20		17	77
7	Knowledge of contemporary issues.	60.18	17	20		18	79

8	An understanding of professional, ethical, legal, security and social issues and responsibilities.	61.73	16	20		18	80
9	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.	58.13	17	20		18	77
10	An ability to communicate effectively with a range of audiences.	59.10	19	19	17	18	77
11	Recognition of the need for and an ability to engage in continuing professional development.	59.24	19	20	17	19	78

12	An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects.	60.11	13	20		17	77
	PRO	OGRAMME SI	PECIFIC OUT	CCOMES			
1	To Analyze, Design and Develop computer programs / Applications in the areas related to Web-Technologies, Networking, Algorithms, Cloud Computing, Data analytics, Computer Vision, Cyber-Security and Intelligent Systems for efficient design of computer-based and Mobile-based systems of varying complexity	62.22	17	20	19	19	81
2	To use modern software tools (like NS2, MATLAB, OpenCV, etc) for designing, simulating, analyzing and generating experimental results for real-time problems and case studies	59.78	16	20	18	18	78

3	To Apply Software Engineering practices and strategies for developing Projects related to emerging technologies.	62.62	12	19	18	16	79
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						DEPA	ARTME	NT OF I	ECE- BA	TCH: 20	13-17:	PO ATT	AINME	NT	The same		18.4		-18 E . 6 In		4	
S.No.	SEM	Ref.No.	Course Code	Course Name	CO-A	со-в	со-с	CO-D	А	В	С	D	E	F	G	н	1	J	к	L	М	N
1	1	C2013.1.1	HS6151	Technical English – I	2.17	2 31	2.40	2.15	0.00	0.00	0.00	0.00	0.00	0.76	0.75	0.75	1.51	2 26	1.51	0.00	0.75	0.75
2	1	C2013.1.2	MA6151	Mathematics - I	2.07	2.31	2.30	2.16	2.21	2.24	2 23	2.21	0.00	0.00	0.00	0.00	0.00	0.00	1.48	1.48	2 22	2.22
3	1	C2013.1.3	PH6151	Engineering Physics – I	2 21	2.29	2 22	2 20	0.74	0.74	0.74	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.74	0 74	0.74
4	1	C2013.1.4	CY6151	Engineering Chemistry –	1 92	2 07	1.88	1.80	1.28	1.28	1.25	1.25	1 89	0.00	0.00	0 00	0.00	0.00	1.89	1.89	0 63	0 63
5	1	C2013.1.5	GE6151	Computer Programming	2.35	2.24	2.29	2.30	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.76	0.00	0.76	0.76	0 76	0.76
6	1	C2013.1.6	GE6152	Engineering Graphics	2.01	2.31	2.05	2.10	1.41	1.43	1.40	1.41	2.12	0.00	0.00	0.00	0.00	0.00	2.11	2.12	0.71	0.70
7	1	L2013.1.1	GE6161	Computer Practices Lab oratory	2.52	2.32	2.52	2 52	2.47	2.46	2.50	1.66	1.65	0.00	0.00	0.00	0.00	0.00	0.83	0.83	2.48	2.48
8	1	L2013.1.2	GE6162	Engineering Practices La boratory	2.52	2.64	2.50	2.52	1.70	1.70	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	1.69	1 69	0.85	0.85
9	-	L2013.1.3	GE6163	Physics and Chemistry L aboratory - I	2.52	2.49	2.52	2.52	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.84	1.68	2.52	1.68	1.68	0.84	0.84
10	- 11	C2013.2.1	HS6251	Technical English – II	2.22	2.44	2.39	2.52	2.39	2.44	2.44	2.45	0.00	0.00	0.00	0.00	0.00	0.00	1.62	1.62	2.44	2.44
11	- 11	C2013.2.2	MA6251	Mathematics - II	2.24	2.36	2.24	2.29	2.28	2.29	2.27	2.28	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.52	2.28	2.28
12	li .	C2013.2.3	PH6251	Engineering Physics – II	2.26	2 33	2.26	2.22	0.76	0.76	0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.75	0.75	0.75
13	11	C2013.2.4	CY6251	Engineering Chemistry –	2.04	2.08	1.89	2 13	2.04	2.03	2.02	2.05	1.36	1.36	0.00	0.00	0.00	0.00	2.04	2.04	2.04	2.04
14	11	C2013.2.5	EC6201	Electronic Devices	2.51	2.26	2.24	2.44	0.79	0.77	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.78
15	II .	C2013.2.6	EE6201	Circuit Theory	2.35	2.36	2.27	2.42	0.78	0.00	0.78	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.79
16	н	L2013.2.1	GE6262	Physics and Chemistry L aboratory - II	2.52	2.49	2.52	2.52	2.52	2.52	2.52	2.52	2.52	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	2.52
17	п	L2013.2.2	EC6211	Circuits and Devices Lab oratory	2.52	2.49	2.52	2.52	2.52	2.52	2.52	2.52	2.52	0.00	0.00	0.00	0.00	0.00	0.84	0.84	2.52	2.52
18	=	C2013.3.1	MA6351	Transforms and Partial D ifferential Equations	2.38	2.39	2.22	2.45	2.36	2.36	2.35	1.59	1.57	0.00	0.00	0.00	0.00	0.00	1.58	1.58	2.36	2.36
19	ш	C2013.3.2	EE6352	Electrical Engineering an d Instrumentation	2.16	2.17	1.69	1.89	1.98	1.93	1.87	1.92	1.28	1.27	0.00	0.00	0.00	0.00	1.27	1.27	1.91	1.91
20	111	C2013.3.3		Object Oriented Program ming and Data Structures	2.32	2.37	1.83	2.29	2.20	2.17	2.12	2.20	2.17	2.17	0.00	0.00	0.00	0.00	1.45	1.45	2.17	2 17
21	III	C2013.3.4	EC6302	Digital Electronics	2.33	2.36	2.36	2.52	2.39	2.41	2.42	2.44	2.42	2.42	0.00	0.00	0.00	0.00	1.62	1.62	2.42	2.42
22	_	C2013.3.5	EC6303	Signals and Systems	2.19	2.33	1.64	1.86	2.00	1.96	1.86	1.92	1.29	1.28	0.00	0.00	0.00	0.00	1.28	1.28	1 92	1.92
23	III	C2013.3.6	EC6304	Electronic Circuits- I	2.15	2.29	1.61	1.73	1.94	1.89	1.79	1.84	1.87	1.85	0.00	0.00	0.00	0.00	1.23	1.23	1 85	1.85
24	111	L2013.3.1	EC6311	Analog and Digital Circuit s Laboratory	2.52	2 49	2.50	2.52	2.51	2.51	2.51	2.51	2.51	0.00	0.00	0 00	0.00	0.00	0.84	0.84	2.51	2.51
25	111	L2013.3.2	EC6312	OOPS and Data Structur es Laboratory	2.52	2.49	2.52	2.52	2.52	2.52	2.52	1.68	1.68	1.68	0.00	0.00	0.00	0.00	0.84	0.84	2.52	2.52
26	IV	C2013.4.1	MA6451	Probability and Random Processes	2.20	2 25	2.24	2.46	2.29	2.31	2.33	2.35	1.54	1.55	0.00	0.00	0.00	0.00	1.55	1.55	2.33	2.33

PRATHYUSHA ENGINEERING COLLEGE MENT OF ECE- BATCH: 2013-17: PO ATTAINMENT

						DEPA	RTME	NT OF E	CE- BA	TCH: 20)13-17:	PO ATT	AINME	NT								
S.No.	SEM	Ref.No.	Course Code	Course Name	со-а	со-в	со-с	CO-D	Α	В	C	D	Ε	F	G	н	ı	J	к	L	м	N
27	IV	C2013 4.2	EC6401	Electronic Circuits II	2 41	2 34	2.36	2.42	2.39	2.38	2.39	2.39	2.39	1.59	0.00	0.00	0.00	0.00	1.59	1.59	2.39	2.39
28	IV	C2013.4.3	EC6402	Communication Theory	2.41	2.39	2.14	2 44	2.35	2.33	2.31	1.57	1.56	1.56	0.00	0.00	0.00	0.00	1.56	1 56	2.34	2.34
29	IV	C2013.4.4	EC6403	Electromagnetic Fields	2 43	2.32	2 29	2 44	2.37	2.36	2.37	2.38	2.37	2.37	0.00	0.00	0.00	0.00	2.37	2.37	2 37	2.37
30	IV	C2013.4.5	EC6404	Linear Integrated Circuits	2.21	2.24	1.97	2.11	2.13	2.11	2.08	2.11	1.40	1.40	0.00	0.00	0.00	0.00	1.40	1.40	2.10	2 10
31	IV	C2013.4.6	EC6405	Control System Engineer ing	2.27	2.31	2.36	2.40	2.34	2.35	2.36	2.36	1.57	1.57	0.00	0.00	0.00	0.00	1.57	1.57	2.36	2.36
32	IV	L2013.1.1	EC6411	Circuit and Simulation Int egrated Laboratory	2 52	2 49	2.52	2.50	2.51	2.51	2.51	2.51	1.67	1.67	0.00	0.00	0.00	0.00	1.67	1.67	2.51	2.51
33	IV	L2013.1.2	EC6412	Linear Integrated Circuit Laboratory	2.48	2.49	2.52	2.50	2.50	2.51	2.51	2.51	1.67	1.67	0.00	0.00	0.00	0.00	1.67	1.67	2.51	2 51
34	IV	L2013.1.3	EE6461	Electrical Engineering an d Control System	2.47	2 49	2.52	2.50	2.50	2.51	2.51	2.50	2.50	2.51	0.00	0.00	0.00	0.00	2.51	2.51	2.51	2.51
35	v	C2013.5.1	EC6501	Digital Communication	2.34	2.42	2.41	2.46	2.41	2.42	2.43	0.81	0.81	0.81	0.00	0.00	0.00	0.00	1.62	1.62	2.43	2.43
36	v	C2013.5.2	EC6502	Principles of Digital Sign al Processing	2.31	2.35	2.36	2.42	2.36	2.38	2.38	2.38	2.38	2.38	0.00	0.00	0.00	0.00	2.38	2.38	2.38	2.38
37	v	C2013.5.3	EC6503	Transmission Lines and Wave Guides	2.15	2.31	1.96	2.13	0.00	0.00	0.00	0.00	0.00	0.71	0.70	0.71	0.00	0.00	1.41	1.41	0.71	0.71
38	V	C2013.5.4	GE6351	Environmental Science a nd Engineering	2.48	2.46	2.52	2.50	2.49	2.49	2.50	2.50	2.50	2.50	0.00	0.00	0.00	0.00	2.50	2 50	2.50	2.50
39	v	C2013.5.5	EC6504	Microprocessor and Micr ocontroller	2.41	2.39	2.22	2.48	2.38	2.37	2.36	2.40	2.38	2.38	0.00	0.00	0.00	0.00	2.38	2.38	2.38	2.38
40	v	L2013.5.1	EC6511	Digital Signal Processing Laboratory	2.52	2.49	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	0.00	0.00	0.00	0.00	2.52	2.52	2.52	2.52
41	v	L2013.5.2	EC6512	Communication System Laboratory	2.52	2.49	2.52	2.52	2.52	2.52	2.52	2.52	0.00	0.00	0.00	0.00	0.00	0.00	1.68	1.68	2.52	2.52
42	v	L2013.5.3	EC6513	Microprocessor and Micr ocontroller Laboratory	2.52	2.49	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	0.00	0.00	0.00	0.00	2.52	2.52	2.52	2.52
43	VI	C2013.6.1	MG6851	Principles of Manageme nt	2.48	2.45	2.49	2.44	2.47	2.46	2.46	2.46	2.46	2.46	0.00	0.00	0.00	0.00	2.46	2.46	2.46	2.46
44	VI	C2013.6.2	CS6303	Computer Architecture	2.42	2.36	2.39	2.51	0.00	0.00	0.00	0.00	0.00	2.43	2.44	2.44	2.43	2.44	2.44	2.44	0.81	0.81
45	VI	C2013.6.3	CS6551	Computer Networks	2.43	2.38	2.29	2.37	2.37	2.35	2.34	2.36	2.36	2.35	0.00	0.00	0.00	0.00	2.35	2.35	2.35	2.35
46	VI	C2013.6.4	EC6601	VLSI Design	2.33	2.23	2.34	2.39	2.32	2.32	2.34	2.35	2.33	2.34	0.00	0.00	0.00	0.00	2.34	2.34	2.34	2.34
47	VI	C2013.6.5	EC6602	Antenna and Wave propagation	2.38	2.35	2.24	2.47	2.36	2.35	2.36	2 38	2.36	2.36	0.00	0.00	0.00	0.00	2.37	2.37	2.37	2.37
48	VI	C2013.6.6	EC 6001	Medical Electronics	2.27	2.31	2.17	2 18	2.23	2.22	2.20	2.21	2.22	2.21	0.00	0.00	0.00	0.00	2.21	2.21	2 21	2.21
49	VI	L2013.6.1	EC6611	Computer Networks Lab	2.52	2.49	2.52	2.52	0.00	0.00	0.00	0.00	0.00	2.52	0.00	2.52	2.52	2.52	2.52	2.52	0.84	0.84

						DEPA	RTMEN	IT OF E	CE- BAT	CH: 20:	13-17: F	O ATTA	INMEN	Т	47.5	3-7-1-		7.3				
S.No.	SEM	Ref.No.	Course Code	Course Name	CO-A	со-в	со-с	CO-D	Α	В	с	D	E	F	G	н	1	ı	к	L	м	N
50	VI	L2013.6.2	EC6612	VLSI Design Laboratory	2.52	2.49	2.52	2 52	2.52	2.52	2 52	2.52	0 00	0.84	0.00	0 00	0.00	0 00	1.68	1 68	2 5 2	2 52
51	VI	L2013.6.3		Communication and Soft Skills - Laboratory Based	2 52	2.49	2.52	2 52	2.52	2.52	2.52	2.52	0 00	0.84	0 00	0.00	0 00	0.00	1.68	1.68	2.52	2 52
52	VII	C2013.7.1	EC6701	RF and Microwave Engin eering	2.24	2 23	2.04	2.19	2.17	2.16	2.14	2.17	2.16	2.16	0.00	0.00	0.00	0.00	2.16	2.16	2 16	2.16
53	VII	C2013.7.2	EC6702	Optical Communication a nd Networks	2.21	2.07	2.32	1.85	2.11	2.09	2.09	2.03	2.08	2.07	0.00	0.00	0.00	0.00	2.07	2.07	2.07	2.07
54	VII	C2013.7.3	EC6703	Embedded and Real Time e Systems	2 49	2.43	2.48	2.51	2.48	2.47	2.48	2.48	2.48	2.48	0 00	0.00	0.00	0.00	2 48	2.48	2.48	2.48
55	VII	C2013.7.4	EC 6011	Electromagnetic Interference and Compatibility	2.39	2.28	2.16	2.35	2.30	2.27	2.27	2.30	2.28	2.28	0 00	0.00	0.00	0.00	2.29	2.29	2.28	2.29
56	VII	C2013.7.5	EC 6015	Radar and Navigational Aids	2 39	2.36	2.43	2.49	2.42	2.42	2 44	2.44	2.43	2.43	0.00	0.00	0.00	0.00	2.43	2 43	2.43	2.43
57	VII	C2013.7.6	EC 6004	Satellite Communication	2.38	2.42	2.48	2.52	2.45	2.47	2.48	2.48	2.47	2.47	0.00	0.00	0.00	0.00	2.47	2.47	2.47	2.47
58	VII	L2013.7.1	EC6711	Embedded Laboratory	2.52	2.49	2.52	2.52	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	2.52	2.52	2.52	2.52	0.84	0.84
59	VII	L2013.7.2	EC6712	Optical and Microwave L aboratory	2.53	2.49	2.52	2 52	2.52	2.52	2.52	0.84	0.84	0.84	0.00	0.00	0.00	0.00	1.68	1.68	2.52	2.52
60	VIII	C2013.8.1	EC6801	Wireless Communication	2.45	2.33	2.36	2.44	2.39	2.38	2.39	0.80	0.80	0.80	0.00	0.00	0.00	0.00	1.60	1.60	2.39	2.39
61	VIII	C2013.8.2	EC6802	Wireless Networks	2.36	2.40	2.46	2.32	2.39	2.39	2.39	2.37	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38
62	VIII	C2013.8.3	GE 6757	Total Quality Managemen	t 2.35	2.40	2.41	1.92	0.00	0.00	0.00	0.00	0.00	2.21	2.20	2.20	2.21	2.21	2.21	2.21	0.74	0.74
63	VIII	C2013.8.4	GE6075	Professional Ethics in Engineering	2.35	2.42	2.42	2.45	0.00	0.00	0.00	0.00	0.00	2.43	2.43	2.43	2.43	2.43	2.43	2.43	0.81	0.81
64	VIII	L2013.8.1	EC6811	Project Work	2.48	2.46	2.52	2.77	2.56	2.58	2.61	2.63	2.59	2.60	2.61	2.61	2.60	2.61	2.61	2.61	2.61	2.61
				Direct Attainment of Po	0				2.20	2.22	2.19	2.03	1.97	1.90	1.87	1.94	2.10	2.43	1.84	1.85	1.96	1.96
				Direct Attainment of PC (%)					73.28	74.06	73.03	67.65	65.57	63.37	62.50	64.63	70.15	81.02	61.48	61.67	65.48	65.4

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PRATHYUSHA ENGINEERING COLLEGE
DEPARTMENT OF ECE- BATCH: 2013-17: PO ATTAINMENT

	The second secon	DEP	AKTIVIE	NI OF	CE- DF	ATCH: 2	013-17	PUAL	IAIIVIVI	CIVI					
							PR	ROGRAM	OUTCOM	1ES					
		Α	В	С	D	E	F	G	Н	11	J	К	L	M	N
	Rubrics						85.00	95.00	75.00	_		85.00	85.00		
	Exit Survey(50%)	68.00	68.00	68.00	68.00	78.00	78.00	60.00	60.00	85.00	85.00	85.00	75.00	75.00	75.00
2013-1	Average Indirect Attainment	68.00	68.00	68.00	68.00	78.00	81.50	77.50	67.50	85.00	85.00	85.00	80.00	75.00	75.00
	DIRECT ATTAINMENT	73.28	74.06	73.03	67.65	65.57	63.37	62.50	64.63	70.15	81.02	61.48	61.67	65.48	65.48
	OVERALL PO ATTAINMEN	72.23	72.85	72.02	67.72	68.05	67.00	65.50	65.21	73.12	81.82	66.18	65.33	67.39	67.39

DEPARTMENT OF ECE- BATCH: 2014-18: PO ATTA
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		,			DE	PARTIV	IENT C	F ECE-	BATC	H: 201	4-18:	PO AT	TAIN	MENT	· · · · · · · · · · · · · · · · · · ·					Market Committee		-11-	
S.N o.	SEM	Ref.No.	Course Code	Course Name	CO-A	со-в	со-с	CO-D	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1		
1	- 1	C2013.1.1	HS6151	Technical English – I	2.06	2.23	2 26	1.68	0.00	0.00	0.00	0.00	0.00	0.67	0.67	0.66	1.34	2.00	1.33	0.00	1.33	1 33	1.33
2	1	C2013.1.2	MA6151	Mathematics – I	1.86		2.22	2 10	2.19	2.28	2.20	2.19	0.00	0.00	0.00	0.00	0.00	0 00	1.47	1.47	2.21	2.21	2.21
3		C2013.1.3	PH6151	Engineering Physics – I	2.05		2.16	2 17	0.75	0.76	0.74	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.74	1.49	1 49	1 49
4	- (C2013.1 4	CY6151	Engineering Chemistry – I	2 04		1 92			1.41	1.35	1.36	2 07	0.00	0.00	0.00	0.00	0.00	2.05	2 0 5	1.37	1.37	1.37
5	- 1	C2013 1.5	GE6151	Computer Programming	2.42	2.78	2.37		0.00	0.00	0.81	0.81	0.82	0.00	0.00	0.00	0.81	0.00	0.81	0.81	1.63	1 63	1.63
6	1	C2013 1.6	GE6152	Engineering Graphics	2.38	2.87	2.35	2 32	1.65	1.67	1.61	1.62	2.46	0.00	0.00	0.00	0.00	0.00	2.45	2 45	1.63	1.63	163
7	1	L2013.1.1	GE6161	Computer Practices Laboratory	2 50	3 00	2.50	2 37	2.59	2.61	2.52	1.68	1.71	0.00	0.00	0.00	0 00	0.00	0.85	0.85	2.55	2.55	2.55
8		L2013.1.2	GE6162	Engineering Practices Laborator	2.50	3 00	2 50	2.37	1.73	1.74	1.68	1.68	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1 70	1 70	1.70
9		L2013.1.3	GE6163	Physics and Chemistry Laborato ry - I	2.50	3.00	2.50	2 37	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.85	1.70	2.55	1.70	1.70	1.70	1.70	1.70
10	- 0	C2013.2.1	HS6251	Technical English – II	1.94		2.44	2 37	2.40	2.52	2.43	2.43	0.00	0.00	0.00	0.00	0.00	0.00	1.63	1.63	2.45	2 45	2.45
11	ll l	C2013.2.2	MA6251	Mathematics – II	2.19	2 66	2.33	2.15		2.37	2.29	2.28	0.00	0.00	0.00	0.00	0 00	0.00	1.54	1.54	2.31	2.31	2.31
12	Н	C2013.2.3	PH6251	Engineering Physics – II	2.17	2.74	2.11	2.17		0.78	0.74	0 75	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.76	1.51	1.51	1.51
13	11	C2013.2.4	CY6251	Engineering Chemistry – II	2.08		1.89	2.16		2.16	2.09	2.14	1.42	1.42	0.00	0.00	0.00	0.00	2.13	2.13	2.13	2.13	2 13
14	11	C2013.2.5	EC6201	Electronic Devices	2.17		2 35	2.22	0.78	0.79	0.00	0.77	0 00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55
15	11	C2013.2.6	EE6201	Circuit Theory	2.22	2 64	2 22	2.12	0 77	0.00	0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	1.51	1.51
16	П	L2013.2.1	GE6262	Physics and Chemistry Laborato ry - II	2.50	3.00	2.50	2 38	2.59	2.62	2.52	2.53	2.57	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	2.55	2.55
17	II	L2013.2.2	EC6211	Circuits and Devices Laboratory	2.50	3.00	2.50	2.37	2.59	2.61	2.52	2.52	2.56	0.00	0.00	0.00	0.00	0.00	0.85	0.85	2.55	2.55	2.55
18	EU	C2013.3.1	MA6351	Transforms and Partial Differenti al Equations	2.26	2.80	2.32	2.11	2.37	2.40	2.30	1.53	1.56	0.00	0.00	0.00	0.00	0.00	1.55	1.55	2.33	2.33	2.33
19	10	C2013.3.2	EE6352	Electrical Engineering and Instrumentation	1.96	1.98	1.76	1.90	1.90	1.89	1.86	1.89	1.26	1.25	0.00	0.00	0.00	0.00	1.25	1.25	1.88	1.88	1.88
20	Ш	C2013.3.3	EC6301	Object Oriented Programming a nd Data Structures	2.05	2.48	1.86	2.06	2.11	2.13	2.04	2.08	2.09	2.09	0.00	0.00	0.00	0.00	1.39	1.39	2.08	2.08	2.08
21	-01	C2013.3.4	EC6302	Digital Electronics	2.02	2.64	2.46	2.24		2.42	2.37	2.34	2.37	2.37	0.00	0.00	0.00	0.00	1.58	1.58	2.36	2.36	2.36
22	111	C2013.3.5	EC6303	Signals and Systems	2.29	2.63	1.72	1.93	2.14	2.11	1.98	2.04	1.38	1.37	0.00	0.00	0.00	0.00	1.36	1.36	2.05	2.04	2.05
23	111	C2013.3.6	EC6304	Electronic Circuits- I	1.74	2.40	1.56	1 69	1.85	1.87	1.74	1.79	1.81	1.80	0.00	0.00	0.00	0.00	1.20	1.20	1.80	1.80	180
24	10	L2013.3.1	EC6311	Analog and Digital Circuits Labo ratory	2.50	3.00	2 50	2.38	2.59	2.62	2.52	2.53	2.57	0.00	0.00	0.00	0.00	0.00	0.85	0.85	2.55	2.55	2.55
25	10	L2013.3.2	EC6312	OOPS and Data Structures Lab oratory	2.50	3.00	2.50	2.37	2.59	2.61	2.52	1.68	1.71	1.70	0.00	0.00	0.00	0.00	0.85	0.85	2.55	2.55	2.55
26	IV	C2013.4.1	MA6451	Probability and Random Processes	2.12	2.67	2.33	2.09	2.30	2.35	2.27	2.25	1.53	1.53	0.00	0.00	0.00	0.00	1.52	1.52	2.28	2.28	2.28
27	IV	C2013.4.2		Electronic Circuits II	2.31	2.57	2 41	2 17	2.37	2.38	2.33	2.31	2.35	1.56	0.00	0.00	0.00	0.00	1.56	1.56	2.34	2.34	2.34
28	IV	C2013.4.3	EC6402	Communication Theory	2.43	2 77	2 30	2.20	2.42	2.42	2.34	1.56	1.59	1.58	0.00	0.00	0.00	0.00	1.58	1.58	2.37	2.37	2.37
29	IV	C2013.4.4	EC6403	Electromagnetic Fields	2.20	2.52	2 30	2.09	2.28	2.30	2.24	2.23	2.26	2.26	0.00	0.00	0.00	0.00	2.25	2.25	2.25	2.25	2.25
30	IV	C2013.4.5	EC6404	Linear Integrated Circuits	2.00	2.22	1 88	1.79	1.97	1.96	1.90	1.91	1.29	1.28	0.00	0.00	0.00	0.00	1.28	1.28	1.92	1.92	1.92
31	IV	C2013.4.6		Control System Engineering	2 21	2.70	2.45	2.21	2.39	2.44	2.37	2.35	1.59	1.59	0.00	0.00	0.00	0.00	1.59	1.59	2.38	2.38	2.38
32	IV	L2013.1.1		Circuit and Simulation Integrate discontinuous	2.50	3.00	2 50	2 38	2.59	2.62	2.52	2.53	1.71	1.71	0.00	0.00	0.00	0.00	1.70	1.70	2.55	2.55	2.55
33	IV	L2013.1.2		Linear Integrated Circuit Laborat ory	2.29	3.00	2.50	2.37	2.54	2.60	2.50	2.50	1.69	1 69	0.00	0.00	0.00	0.00	1.68	1.68	2.53	2.53	2.53
34	IV	L2013.1.3	EE6461	Electrical Engineering and Contr	2.50	3.00	2.50	2.37	2.59	2.61	2.52	2.52	2.56	2.55	0.00	0.00	0.00	0.00	2.55	2.55	2.55	2.55	2.55
35	v	C2013.5.1	EC6501	Digital Communication	2.42	2.97	2.50	2.37	2.56	2.60	2.51	0.84	0.85	0.85	0.00	0.00	0.00	0.00	1.69	1.69	2.53	2.53	2.53
36	v	C2013.5.2		Principles of Digital Signal Processing	2.42	2.84	2.50	2.34	2.53	2.55	2.48	2.47	2.51	2.50	0.00	0.00	0.00	0.00	2.50	2.50	2.50	2.50	2.50

					DE	PARTM	ENT O	F ECE-	BATC	H: 201	14-18:	PO AT	TAIN	MENT	2/10/2019						and the same of		
S.N o.	SEM	Ref.No.	Course Code	Course Name	CO-A	со-в	со-с	CO-D	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
37	v	C2013.5.3	EC6503	Transmission Lines and Wave Guides	2.05	2.75	2.01	2.08	0.00	0.00	0.00	0.00	0.00	0 73	0.73	0.73	0.00	0.00	1.46	1 46	146	1.46	1.46
38	v	C2013.5.4	GE6351	Environmental Science and Engi neering	2.45	2.87	2.50	2.35	2.54	2.56	2.49	2.48	2.52	2.51	0.00	0.00	0.00	0.00	2.50	2.51	2 5 1	2.51	2.51
39	v	C2013.5.5	EC6504	Microprocessor and Microcontro ller	2,45	2.93	2.36	2.37	2.53	2.55	2.45	2.47	2.50	2.49	0 00	0.00	0.00	0.00	2.48	2.49	2 49	2 49	2 49
40	v	L2013.5.1	EC6511	Digital Signal Processing Labor atory	2.50	3.00	2.50	2.37	2.59	2.61	2.52	2.52	2.56	2.55	0.00	0.00	0.00	0.00	2.55	2.55	2.55	2.55	2.55
41	v	L2013.5.2	EC6512	Communication System Laborat ory	2 50	3.00	2.50	2.37	2.59	2.61	2.52	2.52	0.00	0.00	0 00	0.00	0.00	0.00	1.70	1.70	2.55	2.55	2.55
42	v	L2013.5.3	EC6513	Microprocessor and Microcontro ller Laboratory	2.50	3.00	2.50	2.37	2.59	2.61	2.52	2.52	2.56	2.55	0 00	0.00	0.00	0.00	2.55	2.55	2.55	2.55	2.55
43	VI	□2013.6.1	MG6851	Principles of Management	2.45	2.96	2.48	2.35		2.58	2.49	2.50	2.53	2.53	0.00	0.00	0.00	0.00	2.52	2.52	2.52	2.52	2.52
45	VI VI	C2013.6.2	CS6303	Computer Architecture	2.48	2.88	2 46	2.37	0.00	0.00	0.00	0.00	0.00	2.52	2.51	2.51	2.51	2.51	2.51	2.51	1.68	1.67	1.67
45	VI	C2013 6.3	CS6551	Computer Networks	2.45	2.97	2.29	2.35		2.53	2.42	2.45	2.48	2.47	0.00	0.00	0.00	0.00	2.46	2.47	2 47	2.46	2.46
47	VI	C2013.6.4 C2013.6.5	EC6601	VLSI Design Antenna and Wave propagation	2.32	2.74	2.45	2.35	2.46	2.50	2.44	2.44	2.46	2 46	0.00	0.00	0.00	0.00	2.45	2.45	2.45	2.45	2.45
48	VI	C2013.6.6	EC 6001	Medical Electronics	2 32	201	2 27									0.00	0.00	0.00	2.20	2.20	2.39	2.39	2.39
49	VI	L2013.6.1	EC6611	Computer Networks Laboratory	2.50	2.94 3.00	2.50	2.21	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00 2.55	2.55	0.00 2.55	2.39	2.39	1.70	1.70	1.70
50	VI	L2013.6.2	EC6612	VLSI Design Laboratory	2.50	3.00	2.50	2.37	2.59	2.61	2.52	2.52	0.00	0.85	0.00	0.00	0.00	0.00	1.70	170	2.55	2.55	2.55
51	VI	L2013.6.3	GE6674	Communication and Soft Skills - Laboratory Based	2.50	3.00	2.50	2.37	2.59	2.61	2.52	2.52	0.00	0.85	0.00	0.00	0.00	0.00	1.70	1.70	2.55	2.55	2.55
52	VII	C2013.7.1	EC6701	RF and Microwave Engineering	2.14	2.53	2.15	2.15	2.24	2.27	2.20	2.22	2.23	2.23	0.00	0.00	0.00	0.00	2.23	2.23	2.23	2.23	2.23
53	VII	C2013.7.2	EC6702	Optical Communication and Net works	2.31	2.34	2.43	1.91	2.25	2.23	2.21	2.15	2.21	2.20	0.00	0.00	0.00	0.00	2.19	2.19	2.20	2.19	2.19
54	VII	C2013.7.3	EC6703	Embedded and Real Time Syste ms	2.38	2 70	2.45	2.27	2.45	2.47	2.41	2.40	2.43	2.43	0.00	0.00	0.00	0.00	2.42	2.42	2.42	2.42	2.42
55	VII	C2013.7.4	EC 6011	Electromagnetic Interference and Compatibility	2.13	2.35	2.14	2.05	2.17	2.18	2.13	2.13	2.15	2.15	0.00	0.00	0.00	0.00	2.14	2.14	2.14	2.14	2.14
56	VII	C2013.7.5 C2013.7.6	EC 6004	Radar and Navigational Aids	2.40	2.91	2.50	2.35	2.54	2.58	2.49	2.49	2.52	2.52	0.00	0.00	0.00	0.00	2.51	2.51	2.51	2.51	2.51
58	VII	L2013.7.6	EC 6004 EC6711	Satellite Communication	2.28	2.57 3.00	2.50 2.50	2.13	2.37	2.39	2.35	2.31	2.35	2.35	0.00	0.00	0.00	0.00	2.34	2.34	2.34	2.34	2.34
59	VII	L2013.7.1 L2013.7.2	EC6711	Embedded Laboratory Optical and Microwave Laborato	2.50	3.00	2.50	2.38	2.59	2.61	2.52	0.00	0.00	0.85	0.00	0.00	0.00	2.55 0.00	2.55 1.70	2.55 1.70	1.70 2.55	2.55	2.55
60	VIII	C2013.8.1	EC6801	Wireless Communication	2.38	2 69	2.40	2.29	2.44	2.45	2.39	0.80	0.81	0.80	0.00	0.00	0.00	0.00	1.61	161	2.41	241	
61	VIII	C2013.8.2		Wireless Networks	2.38	2.96	2.45	2.26	2.51	2.54	2.44	2.44	2.48	2.48	2.46	2.46	2.47	2.47	2.47	2.47	2.41	2.41	2.41
62	VIII	C2013.8.3	GE 6757	Total Quality Management	2.33	2.73	2,40	2.37	0.00	0.00	0.00	0.00	0.00	2.45	2.44	2.45	2.47	2.47	2.47	2.47	1.63	1.63	1.63
63	VIII	C2013.8.4	GE6075	Professional Ethics in	2.29	2.87	2.40	2 32	0.00	0.00	0.00	0.00	0.00	2.46	2.44	2.45	2.45	2.45	2.45	2.45	1.63	163	1.63
64	VIII	L2013.8.1	EC6811	Project Work	3.00	2.93	3.00	2.40	2.83	2.79	2.76	2.69	2.77	2.75	2.74	2.74	2.75	2.75	2.74	2.75	2.75	2.75	2.75
	Direct Attainment of PO								2.256	2.306	2.2024	2.034	2.01	1.93	1.931	1.995	2.159	2.47469	1.87513			1	2.184
				Direct Attainment of PO (%)					75.18	76.87	73.414	67.81	67	64.4	64.37	66.49	71.98	82.4896	62.5045	62.8339	72.83	72 813	72.80

Contd...

PRATHYUSHA ENGINEERING COLLEGE
DEPARTMENT OF ECE- BATCH: 2014-18: PO ATTAINMENT

						110111.2	014 10		174114141						
							PROGR	RAM OUT	COMES						
Parameters	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Rubrics						85.00	85.00				85.00	85.00			
Exit Survey(50%)	73.00	73.00	73.00	73.00	85.00	85.00	65.00	65.00	85.00	85.00	85.00	80.00	80.00	80.00	80.00
Average Indirect Attainment	73.00	73.00	73.00	73.00	85.00	85.00	75.00	65.00	85.00	85.00	85.00	82.50	80.00	80.00	80.00
DIRECT ATTAINMENT	75.18	76.87	73.41	67.81	67.01	64.43	64.37	66.49	71.98	82.49	62.50	62.83	72.83	72.81	72.81
OVERALL PO ATTAINMENT	74.75	76.10	73.33	68.85	70.60	68.54	66.49	66.19	74.58	82.99	67.00	66.77	74.26	74.25	74.25

					EPART	MENT C	F ECE-	BATC	4: 2015	-19: PC	ATTA	NMEN	r									
S.No.	SEM	Ref.No.	Course Code	Course Name	CO-A	со-в	co-c	PO1	POZ	FO3	PO4	POS	PO6	PO7	POS	P09	PO10	PO11	PO12	PSO1	P502	P503
1		C2013.1.1	HS6151	Technical English – I	2 36	2 19	2 23	0.00	0.00	0.00	0.00	0.00	0.75	0.75	0.75	1.49	2.24	1 49	0.00	1.49	149	1 49
2	1	C2013.1.2	MA6151	Mathematics – I	2 10	2.19	2.18	2.16	2.18	2 17	2 17	0.00	0.00	0.00	0.00	0.00	0.00	1.45	1.45	2.17	2 1 7	2.17
3		C2013.1.3	PH6151	Engineering Physics – I	1 93	199	1 94	0.65	0.65	0.65	0.65	0.00	0.00	0.00	0 00	0.00	0.00	0.65	0.65	1.30	130	1.30
4		C2013 1 4	CY6151	Engineering Chemistry – I	2 08	1.93	1.89	1.31	129	1 29	1.29	193	0.00	0.00	0.00	0.00	0.00	194	1.94	1.29	1.29	1.29
5	- 1	C2013.1.5	GE6151	Computer Programming	2 29	2.32	2 34	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.78	0.00	0.79	0.78	1.55	1.55	1.55
€	1	C2013.1 6	GE6152	Engineering Graphics	2 31	2.28	2 37	1.55	1.55	1.56	155	2 3 3	0.00	0.00	0.00	0.00	0.00	2.33	2.33	1.55	1.55	1.55
7	- (L2013 1 1	GE6161	Computer Practices Laboratory	2 50	2.50	2.50	2.50	2.50	2.50	166	166	0.00	0.00	0.00	0.00	0.00	0.83	0.83	2.50	2.50	2.50
8	1	L2013.1 2	GE6162	Engineering Practices Laboratory	2 50	2.50	2.50	1.66	1.66	1.66	166	0.00	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	1.66	1.66
9	- 1	L2013 1 3	GE6163	Physics and Chemistry Laboratory - I	2 50	2.50	2.50	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83	1.66	2.50	1.66	1.66	1.66	1.66	1.66
10	- ti	C2013.2 1	HS6251	Technical English – II	1 94	2 39	2 44	2.26	2.36	2.35	2.32	0 0 0	0.00	0 00	0.00	0.00	0.00	1.56	1.56	2.34	2.34	2.34
11	- 11	C2013.2.2	MA6251	Mathematics – II	2 15	2 13	2 18	2.15	2.15	2.16	2.16	0.00	0.00	0.00	0.00	0.00	0 0 0	1.44	1.44	2.16	2.16	2.16
12	- 0	C2013.2.3	PH6251	Engineering Physics – II	2 06	2.13	2 06	0.69	0.70	0.69	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.69	1.39	1.39	1.39
13	11	C2013.2.4	CY6251	Engineering Chemistry – II	2.02	1.83	1.87	1 90	1.87	1.88	188	1.25	1.25	0.00	0 00	0.00	0.00	1.88	1.88	1.88	1.88	1.88
14	11	C2013.2.5	EC6201	Electronic Devices	2.14	2.12	2.11	0.71	0.71	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	141	1 41
15	Tr.	C2013 2.6	EE6201	Circuit Theory	2 22	2 12	2 17	0.72	0.00	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44
16	11	L2013.2.1	GE6262	Physics and Chemistry Laboratory - II	2 50	2 50	2.50	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	0.00	0 00	2.50	2.50	2.50	2.50	2.50
17	H	L2013.2.2	EC6211	Circuits and Devices Laboratory	2.50	2.50	2 50	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	0.00	0.00	0.83	0.83	2.50	2.50	2.50
18	ш	C2013.3.1	MA6351	Transforms and Partial Differential Equation	2.29	2.43	2 29	2.34	2.35	2.33	1.56	1.56	0.00	0 00	0.00	0.00	0.00	1.56	1.56	2.34	2.34	2.34
19	101	C2013.3.2	EE6352	Electrical Engineering and Instrumentation	2.02	1.88	1.78	1.89	1.85	1.84	1.86	1.23	1.23	0.00	0.00	0.00	0.00	1.24	1.24	1.85	1.85	1.85
20	ш	C2013.3.3	EC6301	Object Oriented Programming and Data Structures	2.26	2.30	1.94	2.17	2.14	2.08	2.13	2.12	2.11	0.00	0 0 0	0.00	0.00	1.41	1.41	2.11	2.11	2.11
21	101	C2013.3.4	EC6302	Digital Electronics	2.14	2.36	2.42	2.31	2.36	2.36	2.34	2.36	2.35	0.00	0.00	0.00	0.00	1.57	1.57	2.35	2.35	2.35
22	101	C2013.3.5	EC6303	Signals and Systems	2.41	2.41	1.74	2.19	2.11	2.01	2.10	1.38	1.38	0.00	0.00	0.00	0.00	1.38	1.38	2.07	2.07	2.07
23	101	C2013.3.6	EC6304	Electronic Circuits- I	2.02	2.31	1 63	1.99	1.98	1.86	1.94	1.93	1.91	0.00	0.00	0.00	0.00	1.28	1.28	1.92	1.92	1.92
24	111	12013.3.1	EC6311	Analog and Digital Circuits Laboratory	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	0.00	0.00	0.83	0.83	2.50	2.50	2.50
25	101	L2013.3.2	EC6312	OOPS and Data Structures Laboratory	2.50	2.50	2.50	2.50	2.50	2.50	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.83	0.83	2.50	2.50	2.50
26	IV	C2013.4.1	MA6451	Probability and Random Processes	2.27	2.28	2.31	2.29	2.29	2.30	2.29	1.53	1.53	0.00	0.00	0.00	0.00	1.53	1.53	2.30	2.30	2.30
27	IV	C2013.4.2	EC6401	Electronic Circuits II	2.45	2.37	2.47	2.43	2.42	2.44	2.43	2.43	1.62	0.00	0.00	0.00	0.00	1.62	1.62	2.43	2.43	2.43
28	IV	C2013.4.3	EC6402	Communication Theory	2.45	2 43	2 27	2.38	2.36	2.34	1.57	1.57	1.57	0.00	0.00	0.00	0.00	1.57	1.57	2.35	2.35	2.35
29	IV	C2013.4.4	EC6403	Electromagnetic Fields	2.41	2.37	2 42	2.40	2.39	2.40	2.40	2.40	2.40	0.00	0.00	0.00	0.00	2.40	2.40	2.40	2.40	2.40
30	IV	C2013.4.5	EC6404	Linear Integrated Circuits	2 30	2.36	2.16	2.27	2.26	2.23	2.26	1.50	1.50	0.00	0.00	0.00	0.00	1.50	1.50	2.25	2.25	2.25
31	IV	C2013.4.6	EC6405	Control System Engineering	2.41	2.36	2.47	2.41	2.41	2.43	2.42	1.61	1.62	0.00	0.00	0.00	0.00	1.61	1.61	2.42	2.42	2.42
32	IV	L2013.1.1	EC6411	Circuit and Simulation Integrated Laborator	2.50	2.50	2.50	2.50	2.50	2.50	2.50	1.66	1.66	0.00	0.00	0.00	0.00	1.66	1.66	2.50	2.50	2.50
33	IV	L2013.1.2	EC6412	Linear Integrated Circuit Laboratory	2.2901	2.50	2.50	2.43	2.47	2.47	2.46	1.64	1.64	0.00	0.00	0.00	0.00	1.64	1.64	2.46	2.46	2.46
34	IV	L2013.1.3	EE6461	Electrical Engineering and Control System	2.496	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	0.00	2.50	2.50	2.50	2.50	2.50
35	v	C2013.5.1	EC6501	Digital Communication	2.3824	2 40	2 44	2.41	2.42	2.42	0.81	0.81	0.81	0.00	0.00	0.00	0.00	1.61	1.61	2.42	2.42	2.42
36	V	C2013.5.2	EC6502	Principles of Digital Signal Processing	2.3197	2.43	2.47	2.41	2.43	2.44	2.43	2.43	2.43	0.00	0.00	0.00	0.00	2.43	2.43	2.43	2.43	2.43
37	V	C2013.5.3	EC6503	Transmission Lines and Wave Guides	1.9568	2.28	1.97	0.00	0.00	0.00	0.00	0.00	0.69	0.69	0.69	0.00	0.00	138	1.38	1.38	1.38	1.38
38	v	C2013.5 4	GE6351	Environmental Science and Engineering	2.3824	2.33	2.32	2.34	2.33	2.33	2.33	2.33	2.33	0.00	0.00	0.00	0.00	2.33	2.33	2.33	2.33	2.33
39	v	C2013.5.5	EC6504	Microprocessor and Microcontroller	2.4305	2.28	2.33	2.35	2.32	2.33	2.33	2.33	2.33	0.00	0.00	0.00	0.00	2.33	2.33	2.33	2.33	2.33
40	v	L2013 5 1	EC6511	Digital Signal Processing Laboratory	2.496	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	0.00	2.50	2.50	2.50	2.50	2.50
41	v	L2013.5.2	EC6512	Communication System Laboratory	2.496	2.50	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	1.66	1.66	2.50	2.50	2.50
42	v	L2013.5.3	EC6513	Microprocessor and Microcontroller Laborat	2.496	2.50	2 50	2.50	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	0.00	2.50	2.50	2.50	2.50	2.50
43	VI	C2013.6.1	MG6851	Principles of Management	2.4094	2 43	2 45	2.43	2.44	2.44	2.44	2.44	2.44	0.00	0.00	0.00	0.00	2.44	2.44	2.44	2.44	2 44
44	VI VI	C2013.6.2	CS6303	Computer Architecture	2.4108	2.41	2 41	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	2.41	2.41	2.41	2.41	1.61	1.61	1.61
45	VI	C2013.6.2	CS6551	Computer Networks	2.4094	2.43	2.15	2.33	2.31	2.26	2.30	2.29	2.28	0.00	0.00	0.00	0.00	2.29	2.29	2.29	2.29	2.29
46	VI	C2013.6.4	EC6601	VLSI Design	2.2562	2.23	2.39	2.29	2.31	2.33	2.31	2.32	2.32	0.00	0.00	0.00	0.00	2.32	2.32	2.32	2.32	2.29
47	_	C2013.6.5	EC6602	Antenna and Wave propagation	2.3815	2.45	2.38	2.40	2.41	2.40	2.40	2.41	2.40	0.00	0.00	0.00	0.00	_		_	_	_
4/	VI	CZU13.0.5	200002	Interna and wave propagation	2.3013	2.77	1 2.55	2.70	4.74	2.70	2.70	4.71	2.70	0.00	0.00	0.00	0.00	2.40	2.40	2 40	2.40	2.40

43	Vi	C2013.6.6	EC 6001	Medical Electronics	2.2947	2.47	2.25	2.34	2.35	2.31	2.33	2.33	2.32	0.00	0.00	0.00	0.00	2.33	2.33	2.33	2.33	2.33
49	VI	L2013.6.1	EC6611	Computer Networks Laboratory	2.496	2 50	2.50	0.00	0.00	0.00	0.00	0.00	2.50	0.00	2.50	2.50	2.50	2.50	2.50	1.66	1.66	1.66
50	VI	L2013 6.2	EC6612	VLSI Design Laboratory	2.496	2 50	2.50	2.50	2.50	2.50	2.50	0 0 0	0.83	0.00	0.00	0.00	0.00	166	1.66	2.50	2.50	2.50
51	VI	L2013.6.3	GE6674	Communication and Soft Skills - Laboratory Based	2.496	2 50	2 50	2.50	2 50	2.50	2.50	0.00	0.83	0.00	0.00	0.00	0.00	166	1.66	2 50	2 50	2.50
52	VII	C2013.7.1	EC6701	RF and Microwave Engineering	2.0102	2 23	2.07	2 10	2 14	2 10	2.11	2.12	2 1 1	0.00	0.00	0.00	0.00	2 1 1	2 1 1	2 1 1	2.11	2 11
53	VII	C2013 7.2	EC6702	Optical Communication and Networks	2.321	198	2 29	2.20	2 15	2.21	2.19	2 19	2.20	0.00	0.00	0.00	0.00	2 19	2 19	2 19	2 19	2.19
54	VII	C2013.7.3	EC6703	Embedded and Real Time Systems	2.4773	2 39	2 36	2.41	2.39	2.39	2.39	2 39	2.39	0.00	0.00	0.00	0.00	2.39	2.39	2.39	2.39	2.39
55	VII	C2013.7.4	EC 6011	Electromagnetic Interference and Compatibility	2.32	2 21	2 30	2.28	2 26	2.28	2 27	2 27	2 27	0.00	0.00	0.00	0.00	2.27	2.27	2.27	2.27	2.27
56	VII	C2013.7.5	EC 6015	Radar and Navigational Aids	2.4661	2.39	2.47	2 44	2.43	2.45	2.44	2.44	2.44	0.00	0.00	0.00	0 00	2 44	2.44	2.44	2.44	2 44
57	VII	C2013.7.6	EC 6004	Satellite Communication	2.3288	2 19	2.50	2.34	2 34	2.39	2.36	2.36	2.37	0.00	0.00	0.00	0.00	2.37	2.37	2 37	2.37	2 3
58	VII	L2013.7.1	EC6711	Embedded Laboratory	2.496	2 50	2.50	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	2.50	2.50	2.50	2.50	1.66	1.66	1.66
59	VII	L2013.7.2	EC6712	Optical and Microwave Laboratory	2.496	2 50	2 50	2.50	2.50	2 50	0.83	0.83	0.83	0.00	0.00	0.00	0.00	1.66	1.66	2.50	2.50	2.50
60	VIII	C2013.8.1	EC6801	Wireless Communication	2.3759	2.24	2.32	2.31	2.29	2.31	0.77	0.77	0.77	0.00	0.00	0.00	0.00	1.53	1.53	2.30	2.30	2.30
61	VIII	C2013.8.2	EC6802	Wireless Networks	2.3787	2 45	2 42	2.42	2.43	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2 42	2.42	2.42	2 4 2	2.42	2.42
62	VIII	C2013.8.3	GE 6757	Total Quality Management	2.3347	2.32	2 40	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	2.36	2 36	2.36	2 36	1 5 7	1.57	1.57
63	VIII	C2013.8.4	GE6075	Professional Ethics in Engineering	2.2719	2 35	2 40	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	2.36	2.36	2.36	2 36	1.57	1.57	1.57
64	VIII	L2013.8.1	EC6811	Project Work	3	2.93	3.00	2.98	2.97	2.98	2.98	2.98	2 98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
				Direct Attainment of PO				2.1904	2.21634	2.1864	2.0194	1.9738	1 9029	1.9215	1.97909	2.14548	2.4729	1.8414	1.84712	2.14446	2.14445	2 144

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PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF ECE- BATCH: 2015-19: PO ATTAINMENT

Parameters	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Average(Indirect Attainment through Surveys) (50%)				95.00	95.00	95.00	95.00	95.00			95.00	95.00			
Exit Survey(50%)	95.00	85.00	85.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	92.50	87.50	85.00	85.00	85.00
Average Indirect Attainment	95.00	85.00	85.00	90.00	90.00	90.00	90.00	90.00	87.00	85.00	92.50	87.50	85.00	85.00	85.00
DIRECT ATTAINMENT	73.01	73.88	72.88	67.31	65.79	63.43	64.05	65.97	71.52	82.43	61.38	61.57	71.48	71.48	71.48
OVERALL PO ATTAINMENT	77.41	76.10	75.30	71.85	70.63	68.74	69.24	70.78	74.61	82.94	67.60	66.76	74.19	74.19	74.19

PRATHYUSHA ENGINEERING COLLEGE

					ARTMEN				2016-2												
S.No.	Year	Ref.No.	Course Code	Course Name	CO-A	CO-8	co-c	PO1	POZ	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO2
1	- 1	C2013.1.1	HS6151	Technical English – I	2 18	2 93	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.73	0.73	1.45	2.18	1.45	0.00		0.73
2	1	C2013.1.2	MA6151	Mathematics - I	2.38	2 92	0 00	2.25	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.50	_	0.75
3	- 1	C2013.1.3	PH6151	Engineering Physics – I	2 26	2 88	0 00	0.73	0.73	0.73	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.73	0.73	0.73
4	1.	C2013.1.4	CY6151	Engineering Chemistry – I	2 35	2 83	0.00	1.47	1.47	1.47	1.47	2.20	0.00	0.00	0.00	0.00	0.00	2.20	2.20	0.73	0.73
5	- 1	C2013.1.5	GE6151	Computer Programming	2.36	2 83	0 00	0.00	0.00	0.73	0.73	0.73	0.00	0.00	0.00	0.73	0.00	0.73	0.73	0.00	0.00
6	- 1	C2013.1.6	GE6152	Engineering Graphics	2 40	2 92	0.00	1.51	1.51	1.51	1.51	2.26	0.00	0.00	0.00	0.00	0.00	2 26	2.26	0.75	0.75
7	1	12013 1 1	GE6161	Computer Practices Laboratory	2.40	3 00	0 00	2.30	2.30	2.30	1.53	1.53	0.00	0.00	0.00	0.00	0.00	0.77	0.77	0.77	0.77
8	- (L2013.1.2	GE6162	Engineering Practices Laboratory	2 30	3 00	0 00	1.50	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.75	0.75
9	1	L2013 1.3	GE6163	Physics and Chemistry Laboratory - I	2 38	3 00	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.76	1.52	2.28	1.52	1.52	0.76	0.76
10	п	C2013.2.1	H\$6251	Technical English – II	2.37	2 95	0.00	2.26	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	1.51	1.51	0.75	0.75
11	- 11	C2013.2.2	MA6251	Mathematics – II	2 35	2 80	0.00	2.19	2.19	2.19	2.19	0.00	0.00	0.00	0.00	0.00	0.00	1.46	1.46	0.73	0.73
12	-11	C2013.2.3	PH6251	Engineering Physics – II	2 38	2.60	0 00	0.71	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.71
13	11	C2013.2.4	CY6251	Engineering Chemistry – II	2.28	2.52	0.00	2.04	2.04	2.04	2.04	1.36	1.36	0.00	0.00	0.00	0.00	2.04	2.04	0.68	0.68
14	- 11	C2013.2.5	EC6201	Electronic Devices	2 38	2.84	0 00	0.74	0.74	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.74
15	н	C2013.2.6	EE6201	Circuit Theory	2 32	2.84	0 00	0.73	0.00	0.73	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.73
16	11	L2013.2.1	GE6262	Physics and Chemistry Laboratory - II	2.40	2.93	0 00	2.27	2.27	2.27	2.27	2.27	0.00	0.00	0.00	0.00	0.00	2.27	2.27	0.76	0.76
17		L2013.2.2	EC6211	Circuits and Devices Laboratory	2 40	2 9	0.00	2.28	2.28	2.28	2.28	2.28	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.76
18	101	C2013.3.1	MA6351	Transforms and Partial Differential Equations	2.28	2 81	0 00	2.20	2.20	2.20	1.46	1.46	0.00	.0.00	0.00	0.00	0.00	1.46	1.46	0.73	0.73
19	=	C2013.3.2	EE6352	Electrical Engineering and Instrumentation	2.25	2 7	0.00	2.12	2.12	2.12	2.12	1.41	1.41	0.00	0.00	0.00	0.00	1.41	1.41	0.71	0.71
20	111	C2013.3.3	EC6301	Object Oriented Programming and Data	2.21	2 8	0.00	2.14	2.14	2.14	2.14	2.14	2.14	0.00	0.00	0.00	0.00	1.43	1.43	0.71	0.71
21	111	C2013.3.4	EC6302	Digital Electronics	2.40	2.9	0.00	2.26	2.26	2.26	2.26	2.26	2.26	0.00	0.00	0.00	0.00	1.51	1.51	0.75	0.75
22	Ш	C2013.3.5	EC6303	Signals and Systems	2 30	2.9	0 00	2.23	2.23	2.23	2.23	1.49	1.49	0.00	0.00	0.00	0.00	1.49	1.49	1.49	1.49
23	ш	C2013.3.6	EC6304	Electronic Circuits- 1	2 1:	2 2 8	7 0 00	2.12	2.12	2.12	2.12	2.12	2.12	0.00	0.00	0.00	0.00	1.42	1.42	1.42	1.42
24	ш	L2013.3.1	EC6311	Analog and Digital Circuits Laboratory	2 4	2 9	7 0 00	2.28	2.28	2.28	2.28	2.28	0.00	0.00	0.00	0.00	0.00.	0.76	0.76	0.76	0.76
25		L2013.3.2	EC6312	OOPS and Data Structures Laboratory	2 4	2 9	7 0 00	2.28	2.28	2.28	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.76
26	v	C2013.4.1	MA6451	Probability and Random Processes	2.3	5 2.7	5 0.00	2.17	2.17	2.17	2.17	1.45	1.45	0.00	0.00	0.00	0.00	1.45	1.45	0.72	0.72
27	١٧	C2013.4.2	EC6401	Electronic Circuits II	2 3	6 28	0 0	2 19	2.19	2.19	2.19	2.19	1.46	0.00	0.00	0.00	0.00	1.46	1.46	0.73	0.73
28	IV	C2013.4.3	EC6402	Communication Theory	2 3	0 2.9	3 0.00	0 2.22	2.22	2.22	1.48	1.48	1.48	0.00	0.00	0.00	0.00	1.48	1.48	0.74	0.74
29	IV	C2013.4.4	EC6403	Electromagnetic Fields	2 2	5 28	5 0 0	0 2.17	2.17	2.17	2.17	2.17	2.17	0.00	0.00	0.00	0.00	2.17	2.17	0.72	0.72
30	IV	C2013.4.5	EC6404	Linear Integrated Circuits	2 3	1 28	3 0 0	0 2.18	2.18	2.18	2.18	1.46	1.46	0.00	0.00	0.00	0.00	1.46	1.46	1.46	1.46
31	IV	C2013 4.6	EC6405	Control System Engineering	2.3	2 28	7 0 0	0 2.21	2.21	2.21	2.21	1.47	1.47	0.00	0.00	0.00	0.00	1.47	1.47	1.47	1.47
32	IV	L2013.1.1	EC6411	Circuit and Simulation Integrated Laboratory	2 3	7 29	7 00	0 2.27	2.27	2.27	2.27	1.51	1.51	0.00	0.00	0.00	0.00	1.51	1.51	0.76	0.76
33	ıv	L2013.1.2	EC6412	Linear Integrated Circuit Laboratory	2.3	7 29	7 00	0 2.27	2.27	2.27	2.27	1.51	1.5	0.00	0.00	0.00	0 00	1.51	1.51	0.76	0.76
34	ıv	L2013.1.3	EE6461	Electrical Engineering and Control System	2.3	7 2.9	7 00	0 2.27	2.27	2.27	2.27	2.2		_	-	0.00	+	_	2.27	0.76	0.76
-			220.0	Laboratory		1	1			1	1			2.0	0.50	0.00	0.00	1 4.27	1 2.27	0.76	0.76

35	v	C2013.5.1	EC6501	Digital Communication	231	2.86	0.00	2.20	2.20	2.20	0.73	0.73	0.73	0.00	0.00	0.00	0.00	1.46	1.46	0.73	0.73
36	v	C2013.5 2	EC6502	Principles of Digital Signal Processing	2.37	2.91	0.00	2.24	2.24	2.24	2.24	2.24	2.24	0.00	0.00	0.00	0.00	2.24	2.24	0.75	0.75
37	v	C2013.5.3	EC6503	Transmission Lines and Wave Guides	2 12	2.80	0 00	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	1.40	1.40	0.70	0.70
38	v	C2013.5.4	GE6351	Environmental Science and Engineering	2 37	2 92	0 00	2.25	2.25	2.25	2.25	2.25	2.25	0.00	0.00	0.00	0.00	2.25	2.25	0.75	0.73
39	v	C2013.5.5	EC6504	Microprocessor and Microcontroller	2 34	2 83	0.00	2.20	2 20	2.20	2.20	2.20	2.20	0.00	0.00	0.00	0.00	2.20	2.20	1.52	1.52
40	v	L2013.5.1	EC6511	Digital Signal Processing Laboratory	2 40	2 97	0.00	2.28	2.28	2.28	2.28	2.28	2.28	0.00	0.00	0.00	0.00	2.28	2.28	0.76	0.76
41	v	L2013.5.2	EC6512	Communication System Laboratory	2.40	2.97	0 00	2.28	2.28	2.28	2.28	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.52		0.76
42	v	L2013.5.3	EC6513	Microprocessor and Microcontroller Laboratory	2 40	2.97	0 00	2.28	2.28	2.28	2.28	2 28	2.28	0.00	0.00	0.00	0.00	2.28	2.28	0.76	0.74
43	VI	C2013.6.1	MG6851	Principles of Management	2 32	2 92	0 00	2.23	2.23	2.23	2.23	2.23	2.23	0.00	0.00	0.00	0.00	2.23	2.23	0.74	0.73
44	Vi	C2013 6.2	CS6303	Computer Architecture	2.33	2 79	0 00	0.00	0.00	0.00	0.00	0.00	2.18	2.18	2.18	2.18	2.18	2.18	2.18	0.73	0.71
45	VI	C2013 6.3	CS6551	Computer Networks	2.27	2 72	0 00	2.12	2.12	2.12	2.12	2.12	2.12	0.00	0.00	0.00	0.00	2.12	2.12		0.72
46	VI	C2013.6.4	EC6601	VLSI Design	2.25	2 83	0.00	2.16	2.16	2.16	2.16	2.16	2.16	0.00	0.00	0.00	0.00	2.16	2.16	0.72	1.49
47	VI	C2013.6.5	EC6602	Antenna and Wave propagation	2.31	2.95	0.00	2.24	2.24	2.24	2.24	2.24	2.24	0.00	0.00	0.00	0.00	2.24	2.24	1.49	1.45
48	VI	C2013.6.6	EC 6001	Medical Electronics	2 16	2 95	0 00	2.17	2.17	2.17	2.17	2.17	2.17	0.00	0.00	0.00	0.00	2.17	2.17	1.45	0.76
49	٧ı	L2013.6.1	EC6611	Computer Networks Laboratory	2.39	2.97	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.00	2.28	2.28	2.28	2.28	2.28	0.76	0.76
50	VI	L2013.6.2	EC6612	VLSI Design Laboratory	2 40	2 97	0.00	2.28	2.28	2.28	2.28	0.00	0.76	0.00	0.00	0.00	0.00	1.52	1.52	0.76	0.76
51	vı	L2013.6.3	GE6674	Communication and Soft Skills - Laboratory	2.40	2 97	0.00	2.28	2.28	2.28	2.28	0.00	0.76	0.00	0.00	0.00	0.00	1.52	2.08	0.69	0.69
52	VII	C2013.7.1	EC6701	RF and Microwave Engineering	2.22	2 67	0.00	2.08	2.08	2.08	2.08	2.08	2.08	0.00	0.00	0.00	0.00	2.08	1.93	0.64	0.64
53	VII	C2013.7.2	EC6702	Optical Communication and Networks	2 2	2.29	0.00	1.93	1.93	1.93	1.93	1.93	1.93	0.00	0.00	0.00	0.00	1.93	2.15	0.72	0.72
54	VII	C2013.7.3	EC6703	Embedded and Real Time Systems	2.3	2 69	0.00	2.15	2.15	2.15	2.15	2.15	2.15	0.00	0.00	0.00	0.00	2.15	2.10	0.72	0.72
55	VII	C2013.7.4	EC 6011	Electromagnetic Interference and Compatibility	2 2	2.6	0.00	2.10	2.10	2.10	2.10	2.10	2.10	0.00	0.00	0:00	0.00	2.10	2.05	0.68	0.68
56	VII	C2013.7.5	EC 6015	Redar and Navigational Aids	2 3	2.49	0.0	2.05	2.05	2.05	2.05	2.05	2.05	0.00	0.00	0.00	0.00	2.05	2.06	0.69	0.69
57	VII	C2013.7.6	EC 6004	Satellite Communication	2 3	6 25	0.0	_	2.06	2.06	2.06	2.06	2.06	0.00	0.00	0.00	2.28	2.28	2.28	0.76	0.76
58	VII	L2013.7.1	EC6711	Embedded Laboratory	2.4	0 2.9	0.0	-	0.00	0.00	0.00	0.00	2.28	2.28	0.00	0.00	0.00	1.52	1.52	0.76	0.76
59	VII	L2013.7.2	EC6712	Optical and Microwave Laboratory	2 4	0 2.9	0.0	-	_	2.28	0.76	0.76	0.76	+	0.00	0.00	0.00	1.45	1.45	0.73	0.73
60	VIII	C2013.8.1	EC6801	Wireless Communication .	2 3	5 27	7 0.0	_	2.18	2.18	0.73	0.73	0.73	0.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20
61	VIII	C2013.8.2	EC6802	Wireless Networks	2 2	4 2.9	5 0.0	-	2.20	2.20	2.20	2.20	2.20	+		2.21	2.21	2.21	2.21	0.74	0.74
62	VIII	C2013.8.3	GE 6757	Total Quality Management	2.3	3 28	+	+	+	0.00	0.00	0.00	2 2 1	-	2.21	2.21	2.21	2.20	2.20	0.74	0.73
63	VIII	C2013.8.4	GE6075	Professional Ethics in Engineering	2.2	-	+	+	1 1/0	0.00	0.00	0.00	_	_	-	1.90	1.90	1.90	1.90	1.90	1.90
64	VIII	L2013.8.1	EC6811	Project Work	1.5	5 29	3 0 0	0 1.90	1.90	1.90	1.90	1.90	1.90	1.90							
				Direct Attainment of PO				112.6	9 111.9	112 6	9 105.9	84 46	82.8	0 15.1		18.96	19.72			54 03	54.03
				Direct Attainment of PO (%)				0.86	0.86	0.86	0.86	0.86	0.85	0.8	0.85	0.86	0.86	0.86	0.86	0.86	0.86
								86.09	9 86 09	86.09	86 00	85.6	85.4	5 84.9	5 85.50	85.81	85.91	85.91	85.92	85.90	85 90

INDIRECT ATTAINMENT

		11	NDIRE	CT ATT	MNIA	ENT								
					PRO	GRAM (OUTCO	MES-201	6-20					
PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
80.00	80.00	80.00	75.00	89.00				88.00	91.00	86.00		80.00	80.00	80.00
75.00	74.00	84.00				74.00				92.00	88.00	81.00	84.00	75.00
							91.00	91.00	91.00					
90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
					90.00	90.00	85.00				90.00			90.00
75.00	75.00	75.00		96.00	8									
							75.00	75.00			90.00			
								-	83.00	83.00	83.00			
73.20	77.00	78.00	76.40	82.00	89.00					94.00	96.00	83.00	88.00	77.00
75.00	75.00	75.00	85.00	90.00	85.00	80.00				95.00	85.00	85.00	90.00	85.00
							85.00	80.00		95.00	90.00			
85.00	85.00	85.00	85.00							95.00	75.00	75.00	85.00	75.00
										95.00	95.00			
90.00	90.00	90.00	90.00	95.00		75.00				1.	95.00	95.00	95.00	
80.40	80.75	82.13	83.57	90.33	88.50	81.80	85.20	84.80	88.75	91.67	88.82	84.14	87.43	81.71
81.00	82.00	74.00	71.00	87.00	84.00	68.00	64.00	89.00	92.00	93.00	84.00	90.00	83.00	81.00
80.70	81.38	78.06	77.28	88.67	86.25	74.90	74.60	86.90	90.38	92.33	86.41	87.07	85.21	81.36
86.09	86.09	86.09	86.00	85.66	85.45	84.95	85.50	85.81	85.91	85.91	85.92	85.90	85.90	85.90
85.01	85.15	84.48	84.25	86.26	85.61	82.94	83.32	86.03	86.80	87.19	86.01	86.14	85.76	84.99
	75.00 75.00 75.00 75.00 75.00 75.00 85.00 80.40 80.40 80.70 86.09	80.00 80.00 75.00 74.00 90.00 90.00 75.00 75.00 75.00 75.00 75.00 75.00 85.00 85.00 90.00 90.00 80.40 80.75 81.38 86.09 86.09	PO1 PO2 PO3 80.00 80.00 80.00 75.00 74.00 84.00 90.00 90.00 90.00 75.00 75.00 75.00 73.20 77.00 78.00 75.00 75.00 75.00 85.00 85.00 85.00 90.00 90.00 90.00 80.40 80.75 82.13 81.00 82.00 74.00 86.09 86.09 86.09	PO1 PO2 PO3 PO4 80.00 80.00 75.00 75.00 74.00 84.00 90.00 90.00 90.00 90.00 75.00 75.00 75.00 75.00 75.00 73.20 77.00 78.00 76.40 75.00 75.00 85.00 85.00 85.00 85.00 90.00 90.00 90.00 90.40 80.75 82.13 83.57 81.00 82.00 74.00 71.00 80.70 86.09 86.09 86.09 86.00	PO1 PO2 PO3 PO4 PO5 80.00 80.00 75.00 89.00 75.00 74.00 84.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 96.00 75.00 75.00 75.00 76.40 82.00 82.00 75.00 75.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 95.00 85.00	PO1 PO2 PO3 PO4 PO5 PO6 80.00 80.00 80.00 75.00 89.00	PO1 PO2 PO3 PO4 PO5 PO6 PO7 80.00 80.00 75.00 89.00 74.00 75.00 74.00 84.00 74.00 74.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 75.00 75.00 75.00 96.00 76.40 82.00 89.00 89.00 75.00 75.00 75.00 85.00 85.00 85.00 80.00 85.00 85.00 85.00 95.00 75.00 75.00 80.40 80.75 82.13 83.57 90.33 88.50 81.80 81.00 82.00 74.00 71.00 87.00 84.00 68.00 80.70 81.38 78.06 77.28 88.67 86.25 74.90 86.09 86.09 86.00 85.66 85.45 84.95	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 80.00 80.00 75.00 89.00 .	PO1	PO1	PO1	PROID FOOD PROID FOOD PROID FOOD PROID FOOD PROID POID POID POID POID POID POID POID P	PROID FOOD POOD POOD	

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PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF EEE PO ATTAINMENT 2013-2017 BATCH

		Direct A	ssessment			INDIRE	CT	
PO N		Direct Assessment (100%)	Direct Assessment (80%)	EOC(20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline.	67	54	15	18		17	70
2	An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution.	64	51	15	19		19	70
3	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.	66	53	16	18		17	70
4	An ability to design and conduct experiments, as well as to analyze and interpret data.	66	53	16	17		16	70
5	An ability to use current techniques, skills, and modern tools necessar for computing practice.	y 71	57	17	16		17	73
6	An ability to analyze the local and global impact of computing on individuals, organizations, and society.	73	58	16	18		17	76
7	Knowledge of contemporary issues.	62	49	16	17	18	17	66
8	An understanding of professional, ethical, legal, security and social issues and responsibilities.	76	61	17	18		18	79
9	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.	73	59	17	18		17	76
10	An ability to communicate effectively with a range of audiences.	72	57	16	16		16	73
11	Recognition of the need for and an ability to engage in continuing professional development.	64	51	13	18	18	16	68
12	An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects.	69	55	15	18		17	72
13	An ability to understand the mathematical and physical foundations of electrical engineering and how they are applied in complex electrical and electronic system through simulation, experimentation and interpretation of data.	61	49	16	18		17	66
14	An ability to design electrical /electronic system (or) device for any given process with realistic constraints.	60	48	15	18		16	65

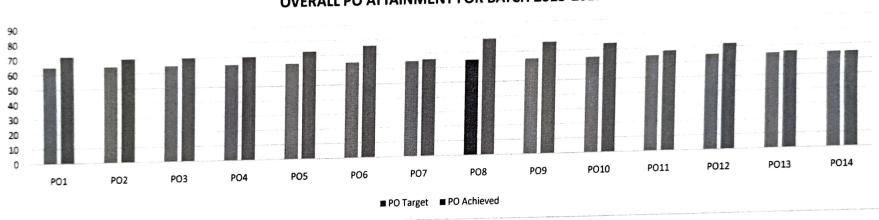




PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF EEE OVERALL PO ATTAINMENT 2013-2017 BATCH

										2010	PO11	PO12	PO13	PO14
PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	65	65	65	65
PO Target	65	65	65	65	65	65	65	65	65	65	68	72		65
PO Achieved	72	70	70	70	73	76	66	79	76	74	08]	72	301	

OVERALL PO ATTAINMENT FOR BATCH 2013-2017







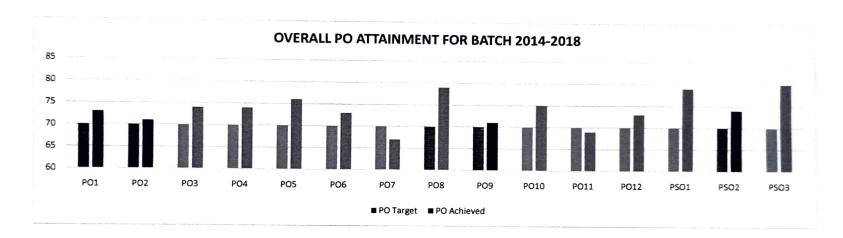
	ESTD. 2001 PO A		T 2014-2018	BATCH	111	+(20%)		
			(80%)		Indirec	((20 70)	Indirect	% PO
O No.	Method assessment	Direct Assessment (100%)	Direct Assessment (80%)	EOC(20%)	Student Exit Survey (20%)	Rubrics (20%)	Assessment (20%)	Attainment
1	An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline.	69	55	17	18		18	73
2	An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution.	66	53	17	18		18	71
3	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.	70	56	18	18		18	74
4	An ability to design and conduct experiments, as well as to analyze	68	55	16	19		17	72
5	and interpret data. An ability to use current techniques, skills, and modern tools necessary for computing practice.	72	58	17	18		18	76
6	An ability to analyze the local and global impact of computing on individuals, organizations, and society.	68	55	18	18	19	18	73 67
7	Knowledge of contemporary issues.	61	49	17		17		79
8	An understanding of professional, ethical, legal, security and social	76	61	17	18		18	
9	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common	66	53	18	18		18	71
10	goal. An ability to communicate effectively with a range of audiences.	70	56	18	18	19	18	74
10	Recognition of the need for and an ability to engage in continuing	64	51	17	18		18	69
12	An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team,	68	54	18	19		19	73
13	An ability to understand the mathematical and physical foundations of electrical engineering and how they are applied in complex electrical and electronic system through simulation, experimentation and interpretation of data.	78	62	17	17		17	79
14	An ability to design electrical /electronic system (or) device for any given process with realistic constraints.	72	57	16	17		17	74
15	Ability to design, analyse and solve complex engineering problems in Renewable Energy	78	63	17	17		17	80





PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF EEE OVERALL PO ATTAINMENT 2014-2018 BATCH

-															
PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	25.04		2000
PO Target	70							100	F 0 9	PO10	PUII	PO12	PSO1	PSO2	PSO3
rorarget	70	70	70	70	70	70	70	70	70	70	70	70			
DO Ashis								70	/0	70	70	70	70	70	70
PO Achieved	73	71	74	74	76	73	67	79	74	75					
				- ' '	, 0	/3	07	/9	71	/5	69	73	79	74	80



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PO ATTAINMENT 2015-2019 BATCH

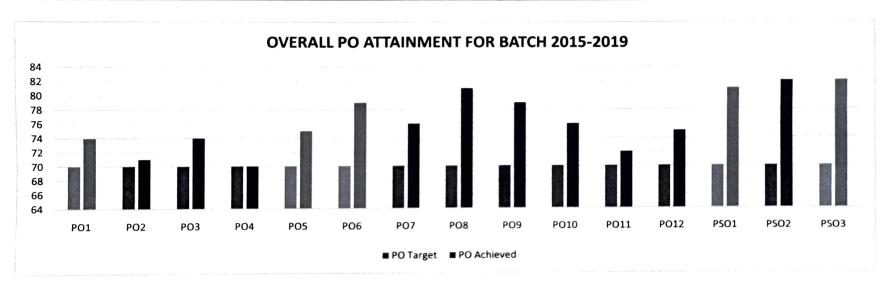
		DIR	ECT			INDIR	ECT	
PO No	Method assessment	Direct Assessment (100%)	Direct Assessment (80%)	EOC(20%)	EXIT SURVEY(20 %)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline.	71	57	16	18		17	74
2	An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution.	68	54	15	18		16	71
3	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.	72	57	16	18		17	74
4	An ability to design and conduct experiments, as well as to analyze and interpret data.	67	54	14	18		16	70
5	An ability to use current techniques, skills, and modern tools necessary for computing practice.	73	58	15	18		17	75
6	An ability to analyze the local and global impact of computing on individuals, organizations, and society.	77	62	16	18		17	79
7	Knowledge of contemporary issues.	74	59	16	17	19	17	76
8	An understanding of professional, ethical, legal, security and social issues and responsibilities.	80	64	17	16	17	17	81
9	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.	77	61	16	18		17	79
10	An ability to communicate effectively with a range of audiences.	73	58	16	18	19	18	76
11	Recognition of the need for and an ability to engage in continuing professional development.	68	55	16	16	19	17	72
	An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects.	73	59	15	18		17	75
	Ability to apply concepts of Electrical and Electronics Engineering in the analysis, design, and development of Complex electrical and electronic systems using modern tools such as LabVIEW.	79	63	17	19		18	81
	Ability to design, develop and implement electrical and electronics and allied interdisciplinary projects to meet the demands of industry with realistic constraints.	79	63	18	19		19	82
	Ability to design, analyse and solve complex engineering problems in Renewable Energy	80	64	17	19		18	82





PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF EEE OVERALL PO ATTAINMENT 2015-2019 BATCH

РО	PO1		PO2		PO3	PO4		PO5	PO6		PO7	PO8		PO9	PO:	10	PO11	PO12	PSO1	PSO2	PS	О3
PO Target		70		70	70		70	70		70	70		70	7(0	70	70	7	0 7	0 7	0	70
PO Achieve		74		71	74		70	75		79	76		81	79	9	76	72		5 8	1 8	2	82







PO ATTAINMENT 2016-2020 BATCH

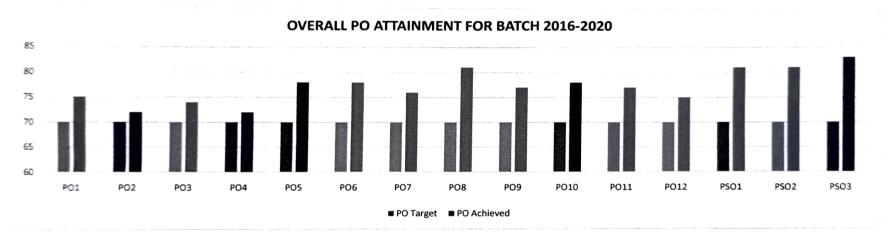
		PO ATT?	and the second s	2016-2020 BA ECT		INDIR	ECT		
PO	No	Method assessment	Direct Assessment (100%)	Direct Assessment (80%)	EOC(20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1		An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline.	70	56	16	18		18	75
2		An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution.	68	54	15	18		18	72
3		An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.	70	56	16	18		18	74
4		An ability to design and conduct experiments, as well as to analyze and interpret data.	68	55	14	18		18	72
5		An ability to use current techniques, skills, and modern tools necessary for computing practice.	75	60	15	18		18	78
6		An ability to analyze the local and global impact of computing on individuals, organizations, and society.	75	60	16	18		18	78
7		Knowledge of contemporary issues.	72	57	16	17	19	18	76
8		An understanding of professional, ethical, legal, security and social issues and responsibilities.	79	63	17	17		17	81
9	- 1	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.	74	59	17	18		18	77
10		An ability to communicate effectively with a range of audiences.	75	60	16	17	19	18	78
11		Recognition of the need for and an ability to engage in continuing professional development.	73	59	18	19		19	77
12	1	An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects.	71	57	17	18	18	18	75
13	i	Ability to apply concepts of Electrical and Electronics Engineering in the analysis, design, and development of Complex electrical and electronic systems using modern tools such as LabVIEW.	79	63	17	17		17	81
14	a	Ability to design, develop and implement electrical and electronics and allied interdisciplinary projects to meet the demands of industry with realistic constraints.	79	63	16	18		18	81
15		Ability to design, analyse and solve complex engineering problems in Renewable Energy	81	65	18	17		18	83





PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF EEE OVERALL PO ATTAINMENT 2016-2020 BATCH

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PO Target	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
PO Achieved	75	72	74	72	78	78	76	81	77	78	77	75	81	81	83



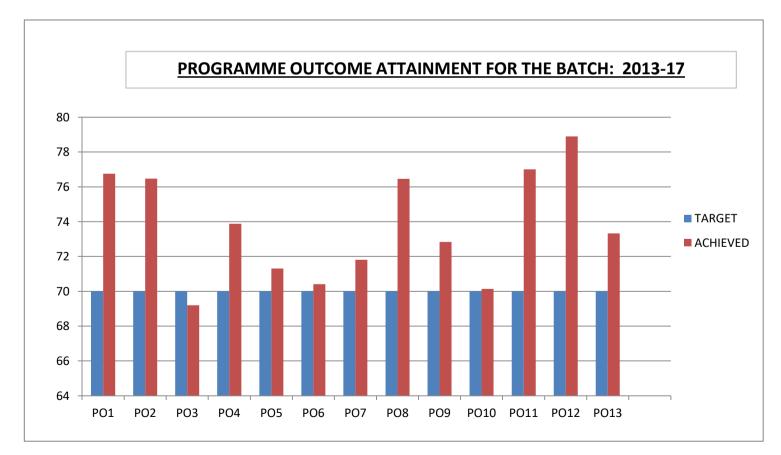
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SUMMARY GRAPH FOR PROGRAMME OUTCOMES (BATCH: 2015-19)

ESTD. 2001

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
TARGET	70	70	70	70	70	70	70	70	70	70	70	70	70
ACHIEVED	77	76	69	74	71	70	72	76	73	70	77	79	73







SUMMARY OF PROGRAMME OUTCOMES (BATCH: 2015- 2019)

POs No	PROGRAMME OUTCOMES	TARGET	ACHIEVED
1	An ability to apply knowledge of computing, mathematics including discrete mathematics as well as probability and queuing theory, science, and engineering;	70	77
2	An ability to design and conduct experiments, as well as to analyze and interpret data;	70	76
3	An ability to design, implement, and evaluate a software or a software/hardware system, component, or process to meet desired needs within realistic constraints such as memory, runtime efficiency, as well as appropriate constraints related to economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability considerations;	70	69
4	An ability to function on multi-disciplinary teams;	70	74
5	An ability to identify, formulate, and solve engineering problems;	70	71
6	An understanding of professional, ethical, legal, security and social issues and responsibilities;	70	70
7	An ability to communicate effectively with a range of audiences;	70	72
8	An ability to analyze the local and global impact of computing on individuals, organizations, and society;	70	76
9	A recognition of the need for, and an ability to engage in lifelong learning and continuing professional development;	70	73
10	A knowledge of contemporary issues;	70	70
11	An ability to use the techniques, skills, and modern engineering tools necessary for practice as a it professional;	70	77
12	Graduates are able to participate and succeed in competitive examination like GRE, GATE, TOEFL, GMAT, SCJP, RHC, OCP etc.	70	79
13	The use of current application software; the design and use of operating systems; and the analysis, design, testing, and documentation of computer programs for the use in information engineering technologies.	70	73



PRATHYUSHA ENGINEERING COLLEGE

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PO ATTAINMENT FOR COURSES (2015- 2019)

SEM	COURSE NAME	SEC	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
	MATHEMATICS I	A	2.36	1.33		1.66	2.5							0.67	
	ENGINEERING PHYSICS I	A	2.18	2.38	1.59										
	ENGG CHEMISTRY I	A	2.6	2.46	1.64										
	ENGG GRAPHICS	A	1.66	2		1.7								1	
I	COMPUTER PROGRAMING	A	1.79	2.68	1.66	2.58									
	TECHNICAL ENGLISH-I	A		1.76	2.1		1.8								
	COMPUTER PRACTICES LABORATORY	A	2.42	2.36	2.28	2.46									
	ENGINEERING PRACTICES LABORATORY	A	1.78	2.18		2.22									
	PHYSICS AND CHEMISTRY LABORATORY - I	A	2.6	2.6	1.7										
	ENGG PHYSICS II	A	2.64	1.66	2.58									1.7	
	MATHEMATICS II	A	2.4	2.4	1.6									2.58	
	ENGG CHEMISTRY II	A	2.37	1.34				1.34	1.34					1.7	

	PROGRAMMING AND	A	2.02	2.34	2.14	2.36	2.16					2.58	
	DATASTRUCTURES I												
II	DIGITAL PRINCIPLES AND SYSTEM DESIGN	A	2.62	2.4	1.6							2.4	
	TECHNICAL ENGLISH-II	A	2.3	1.51.		1.68	1.72					1.67	
	PHYSICS AND CHEMISTRY LABORATORY - II	A	2.35	2.35	2.57								
	DIGITAL LABORATORY	A	2.42	2.36	2.28								
	PROGRAMMING AND DATA STRUCTURES LABORATORY I	A	1.66	2.18	2.31	2.26							
	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	A	2.35	2.6	1.57							2.35	
	COMPUTER ARCHITECTURE	A	2.64	1.66	2.35	1.76							1.7
	PROGRAMMING AND DATASTRUCTURES II	A	2.37	2.13	1.67	1.98	1.52						2.58
	DATABASE MANAGEMENT SYSTEMS	A	2.02	2.68	2.68	2.23				2.04			
III	ENVIRONMENTAL SCIENCE AND ENGINEERING	A	2.62			2.32		1.16	1.8				
	ANALOG AND DIGITAL COMMUNICATION	A	1.66	2.34	1.56							2.34	
	PROGRAMMING AND DATA STRUCTURE LABORATORY II	A	2.24	2.24	2.29	2.38							
	DATABASE MANAGEMENT SYSTEMS LABORATORY	A	2.6	2.6	2.31	2.21							

	_										_	_	
	COMPUTER NETWORKS	A	2.6	2.6	2.31	1.73							
	DESIGN AND ANALYSIS OF ALGORITHMS	A	1.84	1.66	2.21	2.58							1.84
	MICROPORCESSOR AND MICROCONTROLLER	A	2.35	2.37	1.57							1.7	
	OPERATING SYSTEMS	A	1.35	2.02		2.02	1.35					2.58	
IV	PROBABILITY AND QUEING THEORY	A	2.24	2.62	1.49	1.49							
	SOFTWARE ENGINEERING	A	1.79	2.68	2.68	2.23				1.89			
	NETWORKS LABORATORY	A	2.41	2.37	2.18	2.31	2.18						
	MICROPROCESSOR AND MICROCONTROLLER LABORATORY	A	2.28	2.26	2.08	2.12							
	OPERATING SYSTEMS LABORATORY	A	2.37	2.17	2.16	2.22	2.26						
	COMPUTER NETWORKS	A	2.02	2.76	1.84							2.76	
	GRAPHICS AND MULTIMEDIA	A	2.62	1.99	2.13								
	OBJECT ORIENTED ANALYSIS AND DESIGN	A	2.01	2.06	2.24		2.01				2.15		
	DIGITAL SIGNAL PROCESSING	A	2.36	1.99	2.13						2.19	1.68	
V	WEB PROGRAMMING	A	2.18	1.76	2.1		2.28						

	WIRELESS COMMUNICATION	A	2.6	1.56	2.18	2.1		2.26					
	NETWORKS LABORATORY	A	1.66	2.57	2.12	2.13						2.28	2.16
	CASE TOOLS LABORATORY	A	2.28	2.57	2.12	2.13							
	WEB PROGRAMMING LABORATORY	A	2.21	2.24	2.18	1.84	2						2.15
	DISTRIBUTED SYSTEMS	A	2.6	2.6	2.31	1.73			2.38				2.19
	MOBILE COMPUTING	A	2.3	2.37	2.02			2.53			2.18		2.76
	ARTIFICIAL INTELLIGENCE	A	1.55	2.02	2.32							2.32	2.32
	COMPILER DESIGN	A	2.28	2.62	1.52							2.28	
VI	SOFTWARE ARCHITECTURES	A	1.68	1.68	1.12								
	TOTAL QUALITY MANAGEMENT	A	2.36	2.36	1.57							2.36	
	MOBILE APPLICATION DEVELOPMENT LABORATORY	A	2.16	2.32	2.16	2.12						2.28	
	COMPILER LABORATORY	A	2.36	1.56	2.18	2.02							
	COMMUNICATION AND SOFT SKILLS - BASED LABORATORY	A	2.18	2.36	1.57							2.36	
	INFORMATION MANAGEMENT	A	2.6	2.01		2.28	1.82						

	GRID AND CLOUD COMPUTING	A	1.66		1.76	2.36	1.72		2.27						1.51
	CRYPTOGRAPHY AND NETWORK SECURITY	A	1.42	1.53	1.53	2.45	2.1								
VII	DATA WARE HOUSING AND DATA MINING	A	2.38	2.38											
VII	GRID AND CLOUD COMPUTING	A	1.7	2.41	1.7	2.31									
	C# AND .NET PROGRAMMING	A	2.58	1.7	2.58		2.16		2.5						1.82
	SECURITY LABORATORY	A	1.7	2.58			2.21	1.82							1.72
	GRID AND CLOUD COMPUTING LABORATORY	A	2.58	1.7	2.12	1.76	2.28	1.72		2.28					2.1
	PROFESSIONAL ETHICS	A	1.7	2.58	1.64	2.52		2.1							
VIII	SERVICE ORIENTED ARCHITECTURE	A	1.7	1.7	1.93									2.03	
V 111	SOFTWARE PROJECT MANAGEMENT	A	2.58	2.58				2.26	2.4	2.6					
	CYBER FORENICS	A	2.47	2.62	2.18	2.31	2.24			2.38					2.27
	ATTAINMENT LEVE	L	2.19	2.21	1.92	2.13	2.02	2.00	2.01	2.23	2.04	1.96	2.17	2.32	2.09
	PERCENTAGE		73	74	64	71	67	67	67	74	68	65	72	77	70
	PERCENTAGE(80%))	58.49	58.91	51.20	56.71	53.79	53.45	53.56	59.38	54.40	52.27	57.96	61.87	55.63

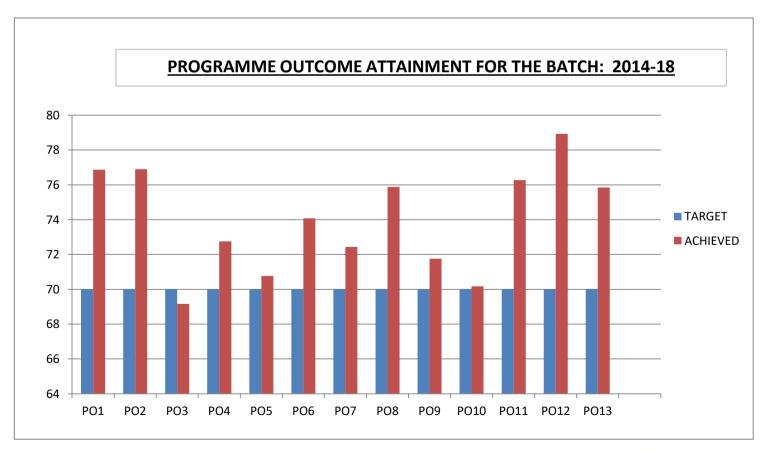
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SUMMARY GRAPH FOR PROGRAMME OUTCOMES (BATCH: 2014-18)

ESTD. 2001

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
TARGET	70	70	70	70	70	70	70	70	70	70	70	70	70
ACHIEVED	77	77	69	73	71	74	72	76	72	70	76	79	76







SUMMARY OF PROGRAMME OUTCOMES (BATCH: 2014-18)

POs No	PROGRAMME OUTCOMES	TARGET	ACHIEVED
1	An ability to apply knowledge of computing, mathematics including discrete mathematics as well as probability and queuing theory, science, and engineering;	70	77
2	An ability to design and conduct experiments, as well as to analyze and interpret data;	70	77
3	An ability to design, implement, and evaluate a software or a software/hardware system, component, or process to meet desired needs within realistic constraints such as memory, runtime efficiency, as well as appropriate constraints related to economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability considerations;	70	69
4	An ability to function on multi-disciplinary teams;	70	73
5	An ability to identify, formulate, and solve engineering problems;	70	71
6	An understanding of professional, ethical, legal, security and social issues and responsibilities;	70	74
7	An ability to communicate effectively with a range of audiences;	70	72
8	An ability to analyze the local and global impact of computing on individuals, organizations, and society;	70	76
9	A recognition of the need for, and an ability to engage in lifelong learning and continuing professional development;	70	72
10	A knowledge of contemporary issues;	70	70
11	An ability to use the techniques, skills, and modern engineering tools necessary for practice as a it professional;	70	76
12	Graduates are able to participate and succeed in competitive examination like GRE, GATE, TOEFL, GMAT, SCJP, RHC, OCP etc.	70	79
13	The use of current application software; the design and use of operating systems; and the analysis, design, testing, and documentation of computer programs for the use in information engineering technologies.	70	76



PRATHYUSHA ENGINEERING COLLEGE

DEPARTMENT OF IT

PO ATTAINMENT 2014-2018 BATCH

				Indire	ct Assessmen	at (20%)	
PO No	Method assessment	Direct assessmen t (80%)	End of Course Survey (20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply knowledge of computing, mathematics including discrete mathematics as well as probability and queuing theory, science, and engineering;	58.62	16	20		18	77
2	An ability to design and conduct experiments, as well as to analyze and interpret data;	59.37	15	20		18	77
3	An ability to design, implement, and evaluate a software or a software/hardware system, component, or process to meet desired needs within realistic constraints such as memory, runtime efficiency, as well as appropriate constraints related to economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability considerations;	51.20	16	20	18	18	69
4	An ability to function on multi-disciplinary teams;	55.60	14	20		17	73
5	An ability to identify, formulate, and solve engineering problems;	53.27	15	20	17	17	71

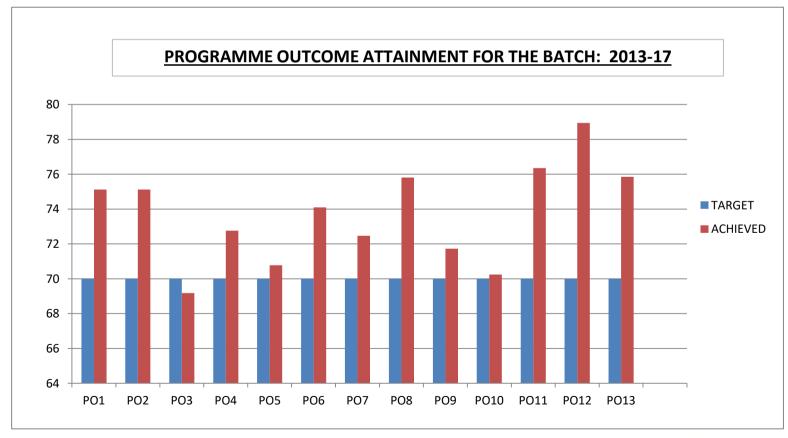
6		57.17	14	20		17	74
	An understanding of professional, ethical, legal, security and social issues and responsibilities;					- 1	, .
7	An ability to communicate effectively with a range of audiences;	54.22	16	20		18	72
8	An ability to analyze the local and global impact of computing on individuals, organizations, and society;	58.71	14	20		17	76
9	A recognition of the need for, and an ability to engage in life-long learning and continuing professional development;	53.33	17	20		18	72
10	A knowledge of contemporary issues;	52.27	18	19	17	18	70
11	An ability to use the techniques, skills, and modern engineering tools necessary for practice as a it professional;	57.16	18	20		19	76
12	Graduates are able to participate and succeed in competitive examination like GRE, GATE, TOEFL, GMAT, SCJP, RHC, OCP etc.	61.87	14	20		17	79
13	The use of current application software; the design and use of operating systems; and the analysis, design, testing, and documentation of computer programs for the use in information engineering technologies.	58.18	15	20		18	76



SUMMARY GRAPH FOR PROGRAMME OUTCOMES (BATCH: 2013-17)

ESTD. 2001

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
TARGET	70	70	70	70	70	70	70	70	70	70	70	70	70
ACHIEVED	75	75	69	73	71	74	72	76	72	70	76	79	76







SUMMARY OF PROGRAMME OUTCOMES (BATCH: 2013-17)

POs No	PROGRAMME OUTCOMES	TARGET	ACHIEVED
1	An ability to apply knowledge of computing, mathematics including discrete mathematics as well as probability and queuing theory, science, and engineering;	70	75
2	An ability to design and conduct experiments, as well as to analyze and interpret data;	70	75
3	An ability to design, implement, and evaluate a software or a software/hardware system, component, or process to meet desired needs within realistic constraints such as memory, runtime efficiency, as well as appropriate constraints related to economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability considerations;	70	69
4	An ability to function on multi-disciplinary teams;	70	73
5	An ability to identify, formulate, and solve engineering problems;	70	71
6	An understanding of professional, ethical, legal, security and social issues and responsibilities;	70	74
7	An ability to communicate effectively with a range of audiences;	70	72
8	An ability to analyze the local and global impact of computing on individuals, organizations, and society;	70	76
9	A recognition of the need for, and an ability to engage in lifelong learning and continuing professional development;	70	72
10	A knowledge of contemporary issues;	70	70
11	An ability to use the techniques, skills, and modern engineering tools necessary for practice as a it professional;	70	76
12	Graduates are able to participate and succeed in competitive examination like GRE, GATE, TOEFL, GMAT, SCJP, RHC, OCP etc.	70	79
13	The use of current application software; the design and use of operating systems; and the analysis, design, testing, and documentation of computer programs for the use in information engineering technologies.	70	76



PRATHYUSHA ENGINEERING COLLEGE

DEPARTMENT OF IT

ESTD. 2001

PO ATTAINMENT 2013-2017 BATCH

DO N		Direct		Ind	irect Assessment	(20%)	
PO No	Method assessment	assessment (80%)	End of Course Survey (20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply knowledge of computing, mathematics including discrete mathematics as well as probability and queuing theory, science, and engineering;	56.86	17	20		18	75
2	An ability to design and conduct experiments, as well as to analyze and interpret data;	57.57	15	20		18	75
3	An ability to design, implement, and evaluate a software or a software/hardware system, component, or process to meet desired needs within realistic constraints such as memory, runtime efficiency, as well as appropriate constraints related to economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability considerations;	51.20	16	20	18	18	69
4	An ability to function on multi-disciplinary teams;	55.60	14	20		17	73
5	An ability to identify, formulate, and solve engineering problems;	53.27	16	20	17	18	71

6	An understanding of professional, ethical, legal, security and social issues and responsibilities;	57.17	14	20		17	74
7	An ability to communicate effectively with a range of audiences;	54.22	17	20		18	72
8	An ability to analyze the local and global impact of computing on individuals, organizations, and society;	58.71	14	20		17	76
9	A recognition of the need for, and an ability to engage in life-long learning and continuing professional development;	53.33	17	20		18	72
10	A knowledge of contemporary issues;	52.27	18	19	17	18	70
11	An ability to use the techniques, skills, and modern engineering tools necessary for practice as a it professional;	57.16	18	20		19	76
12	Graduates are able to participate and succeed in competitive examination like GRE, GATE, TOEFL, GMAT, SCJP, RHC, OCP etc.	61.87	14	20		17	79
13	The use of current application software; the design and use of operating systems; and the analysis, design, testing, and documentation of computer programs for the use in information engineering technologies.	58.18	15	20		18	76



PRATHYUSHA ENGINEERING COLLEGE DPEARTMENT OF MECHANICAL ENGINEERING

-				ENTD 2001		PO ATT	AINMENT I	OR COUR	SES (2016	- 20)							
SI	EM COURSE NAME	S		01 PO)2 PO3			P06	PO7	PO8	PO9	PO10	POII	PO12	PSO1	PSO2	PSO3
	Technical English-I	L	A 2.	08		-		2.18		1.78	2.04	2.16	7011	7012	P301	PSO2	PSO3
			B 2.	42				2.32		2.1	1.94	1.96					
	Mathematics-I	-	A 2.:	21 2.2	8		1.98			7.1	1.74	2.03					
		_	B 2.1	18 2.13	2		1.84					1.96					
	Engineering Physics-I	-	A 2.3	38 2.16	5							1.70		1.92			
			B 2.3	1 2.02	2									1.86			
	Engineering Chemistry-I		A 2	4 2.1										1.98			
			B 2.3	6 2										1.78			
ı	Computer Programming		A 2.3	1 2.62	1.18	2.14								1.76			2.24
			B 2.2	2.48	2.08	2.32											2.16
	Engineering Graphics		A 2.41	2.37	2.12		1.96					2.16					1.10
			B 2.48	2.16	2		1.82				†						
	Computer Practice Labora		A 2.56									2.08					-
	Computer Fractice Labora	ory 1	3 2.42	2.36	2.3				1								2.36
	Engineering Practices	1	2.34	2.38													2.28
	Laboratory	E	2.26	2.18							-						-
	Physics & Chemistry	A	2.71	2.62	2.42	_					-			-		-	-
	Laboratory	В	2.54	2.56	2.36				-								
		A		2.17					-							-	
	Technical English II	В	2.1		1.02	-			+					2.56		-	
		A	2.02	1.83	1.98	-			-	*	-			2.38		-	-
	Mathematics II	В	2.48	2.34	1.92	-		-	-		-			2.42		-	-
		+	2.48	2.1	1.74	-	-	-	-					2.23			
	Engineering Physics II	A	2.08	2.48	<u> </u>	-		1.96	1.98					2.32			
		В	2.12	2.16	-	-	-	1.98	2.32		-			2.04			-
	Engineering Chemistry II	A	2.31	2.32	2.18	2.16	1.98							2.12			2.36
1		В	2.42	3.27	2.04	2.24	1.96							2			2.22
	Basic Electrical & Electronics	A	2.43	2.36	2.08									2.38			
ľ	Engineering	В	2.38	2.18	2							п		2.2			
,	Engineering Mechanics	A	2.4	2.1			1.86					2.18		2.08			
	singineering Mechanics	В	2.34	2.02			1.78					2.1		2.11			
C	Computer Aided Drafting and	A	2.56	2.38	2.58				*	11	12.		1				
	fodeling Laboratory	В	2.56	2.52	2.48											_	_
PI	hysics & Chemistry	A	2.56	2.42	2.36								.00	_		+	-
	aboratory	В		 			-								-	+	
П			2.52	2.36	2.3		-		-					-	-	_	2.38
Tr	ansforms And Partial	A	2.32	1.98	1.96								-	2.04	-		
Di	fferential Equation	В		7													
-			2.16	1.6	1.72		-						-	2	-	-	_
Com	ength of Materials	A	2.3	2.15	2.12	2.16					2.31		-		2.68		
Suc	engin of Materials	В															
		-	2.48	2.04	2.02	1.98					2.28			-	2.59		-
Eng	incering Thermodynamics	A	2.03	2.03	2.14	2.18	1.72								2.14		2.4
_		В	2.48	2.3	2.02	2.18	1.68								2.08		2.3
	d Mechanics and	A	2.22	2.22	2.08	2.28					2.32						2.3
Mac	hinery	В	2.1	2.48	2.01	1.98					2.04						2.2
		A		2	2.01	2.14		2.04	2.04	2.24							
1anu	ıfacturing Technology I	В				2.14		2,04	2.04	2.24		-			_	_	

,															
	Electrical Drives and (Control	A 2.4	2 22									2.36		
		Control	B 2.4			_							2.22		 2.42
	Manufacturing Techno Lab I	logy	A 2.42											2.01	 2.36
			В 2.38	2.32						rer comme				2.04	
	Fluid Mechanics a Machinery	nd	A 2.52	2.48	2.31				-						 2.38
	Laboratory		В												
	Electrical Engineeri	ng -	A 2.48												
_	Laboratory		В 2.48	2.36	2.23										2.2
	Statistics and Numerical Methods		A 2.41	2.37	2.18	2.18		7							2.36
	Wethods		B 2.45	2.29	2.04	2.04		1	1						2.24
	Kinematics of Machinery		A 2.49	2.42	2.16	1.98			1					2.02	
			B 2.48	2.15	2.02	2.02				-				1.86	
	Manufacturing Technolog	gy	A 2.28	2.26	2.08	2.02		2.32	_				2.41	1.00	
	П		B 2.19	2.02	1.98				-						
	Engineering Materials and	i	A 2.12	2.17	2.16	2.26		2.37	-				2.27		_
	Metallurgy	F	3 2.0	08 2.03	2.04	2.38							2.14		
IV	Environmental Science &	A	2.48	2.16	1.98	2.50							2.14		
	Engineering	В		2.15		-		-							
	Thermal Engineering	A		2.52	1.92	2.18									
	Thermal Engineering	В			2.18	1.98	2.38			 2.12	2.36				 2.52
	Manufacturing Technology	A	2.56	2.48	2.02	2.47	2.32			2.32	2.24				2.48
	Lab - II	В		2.42	2.28	2.36		-							
	Thermal Engineering	A	2.46	2.38	2.24	2.24									
	Laboratory-I	В		2.48	2.5	-									
	Carried Charles	A	2.48	2.46	2.44				1						
	Strength of Materials Laboratory		2.28	2.36	2.22	2.42									
-		В	2.24	2.26	2.18	1.98									
	Computer Aided Design	A	2.21	2.24	2.18	2.42							2.56	2.34	
-		В	2.12	2.18	2.08								2.44	2.44	
	Heat & Mass Transfer	A		2.1	2.02		2.48			-			2.44	2.44	
		В		2.03	1.98		2.48								
r	Assistant Charles Till	A	2.13	2.1	2.08		2.14								
1	esign of Machine Elements	В	2.09	2.01	2.01						-	2.14			
		A	2.28				1.96		-		-	2.1			
M	etrology and Measurement	В		2.57	2.12			2			-	2.18	2.16		2.2
-			2.48	2.5	2					1	1	2.16	2.08		2.08
Dy	namics of Machines	A	2.28	2.34	2.18		2.26								2.28
-		В	2.28	2.37	2.04		2.34								2.14
	ofessional Ethics in	A		2.54	2,42		2.26								2.36
En	gincering	В		2.52	2.4		2.34		ā						
-		A	2.56	2.56	2.36		2.54			1		2.10	1		2.3
Dyi	namics Laboratory	В	2.48		.14					-		2.18	2.16		2.36
The	emal Engineering	A	2.54	2.48	2.28					-	-	2.06	2.08		2.22
	rmal Engineering pratory II	-	2.57	2.48	2.34	2,29				-			2.56		 -
-		В													<u> </u>
Me	trology & Measurements	A							2						
1	Laboratory	В	2.44	2.44	2.32								2.44		

	Design of Transmission Systems	A		2.62	2.18													
		В		2.38		2.26	2.47		2.38									
	Principles of Management	A	2.34	1.93	2.02	2.08	2.38		2.1		-	-			2.27	2.26	2.42	
		В	2.23	1.67	2.18			2.28				_	-		2.31	2.12	2.26	-
	Automobile Engineering	A		2.3	2.01			2.1							2.52	2.2	-	-
		В		2.63	2.01									2.36	2.36	2.12	-	-
	Finite Element Analysis	A	2.31	2.1	1.96									2.28	2.48	+	-	-
		В	2.22	2.08	1.86									2.36	2.34	-	-	-
VI	Gas Dynamics and Jet Propulsion	A	2.16	2.32	2.16									2.22		+	+	-
		В	2.13	2.12	2.08													
	Unconventional Machining Processes	A	2.24	2.42	2.18													
		В	2.48	2.26	2.06									2.42				
	CAD / CAM Laboratory	Α	2.52	2.46	2.36									2.28				
		В	2.48	2.32	2.24								2.46				2.4	4
	Design & Fabrication Project	A	2.54	2.46									2.24				2.3	
	- Toject	В	2.36	2.46	2.36													
	Communication Skills -	A	2.46	2.42	2.32							2.22						
	Laboratory based	В	2.4	2.3	2.32							2.08	2.36				2.	36
	Power Plant Engineering	A		2.18	2.32	2.21							2.24				. 2	1.1
	Tower Flant Engineering	В					1.84										2	.36
	Mechatronics	A	2.03	2.12		2.42	1.7										2	.22
	Nicenationics	В	2.17		2.12	1.94	1.94		2.28						2.	24 2	.21	
	Computer Integrated Manufacturing Systems	A	2.37	2.37	2	2.08	1.86		2.21						2	.14 2	.07	
	Manufacturing Systems	В	2.03	2.27	2.18	2.14	1.72			-							2.1	
	T. 10	A	2.12	2.32	2.03	2.34	1.68			-							2.04	
	Total Quality Management	В	2.48	2.1														
VII	Process Planning & Cost	A	2.40	2.48		224												
VII	Estimation	В		2.37		2.24		2.43										
		А		2.48		2.48	2.56	2.29										
	Maintenance Engineering	В		2.44									_	_				2.42
		А	2.32	2.44		2.38	2.38	2.34					-					2.38
	Mechatronics Lab	В	2.32					2.3					-	_		2.28	2.32	
		А	2.05					2.4	-				-			2.28	2.32	
	Comprehension	В	2.02						2.43				-					
	Simulation & Analysis	A							2.43		2.28		-					
	Laboratory	В	2.46		2.44	2.44	2.52		2.46		2.29				2.46	2.48		2.34
		A	2.38		2.36	2.52	2.32	-	2.24				_		2.38	2.34		2.2
	Engineering Economics	В					2.51		2.26		-					2.36		
							2.58		2.18							2.24		
	Production Planning & Control	Α			2.12	2.28		2.48										
VIII		В			2.04	2.38		2.31										
	Advanced I.C. Engines	Α		2.46	2.12				2.32						2.24			
		В		2.26	2				2.26						2.18			
	PROJECT WORK	Α	2.56	2.62	2.42	2.44			2.46						2.48	2.36	2.48	2.
		В	2.42	2.44	2.34	2.32			2.24						2.36			
	ATTAINMENT LEVE		2.34	2.30	2.13	2.22	2.12	2.24	2.25	2.06	2.19	2.1	3	2.21	2.36	2.24	2.32	_
	PERCENTAGE		78	77	71	74	71	75	75	69	73	7	-	74	75	76	74	_
	PERCENTAGE(80%)		62.42	61.35	56.86	59.25	56.47	59,62	60.01	-	58.5	_	_	58.99	59.70		-	-





PRATHYUSHA ENGINEERING COLLEGE DPEARTMENT OF MECHANICAL ENGINEERING

PO ATTAINMENT FOR COURSES (2015- 19)

	7			D. 2001		PO A	TTAINN	MENT F	OR C	OURSE	ES (201	5- 19)												
М	COURSE NAME	SEC	POI	PO2	F	203	PO4	PO5		PO6	PO7	1	08	PO9	P	010	PO11	PO12	PSO	I F	PSO2	PSO3	1	
Т	ochnical English-I	A	2,28	-	-		1.96					1	80.9	2.36	1 :	2.16					2.34		1	
+		В	2.42	+	-		2.1		_		-	1	1.96	1.84	1	1.96		1.86	1	1			1	
1	Mathematics-I	A	2.56	2.2	8			1.98	3		-	+		-	+	2.03		-	+	-			4	
+		В	2.18	2.3		-		1.84	4		+	+		-	+	1.96		+	-	-		-	4	
	Engineering Physics-I	B	2.38	2.1				-	-		+-	+		1	+			1.93		-	1.98	+	\dashv	
		A	2.56	2.0			-	-	-		-	-		+	+			1.8				+	\dashv	
	Engineering Chemistry-I	В	2.4	2.:				-	-		+-	+		+	+			1.9	78		1	+	\dashv	
		A	2.36		62	2.36	2.14	+			+	_		1,	36		-	1.	10	-	1	2.3	24	
I	Computer Programming	В	2.2	_	.48	2.08	2.36	_			\top	_			.36		1	\top	1		1	2	46	
		A	2.2		.37	2.36	2.30	1 2	.36			_		1	.50	2.16								
	Engineering Graphics	В	1	_	1.16	2			1.82							2.08	1							
		A	2.56		2.48	2.36																	2.36	
	Computer Practice Laborator	В	2.50	6	2.36	2.3																	2.28	
	Engineering Practices	A			2.38																			1
	Laboratory	В	2.2	6	2.18								2.3	6								1		1
	Physics & Chemistry	A	2.7	11	2.62	2.42							2.0	08						1	_			7
	Laboratory	В	2.5	54	2.56	2.36														1	_	-		4
		A	2.:	56	2.36	1.02							_				\perp		2.56	+	-			4
	Technical English II	E	2.0	02	1.83	1.98							_				_		2.38	+	-+			+
	ма с п	A	2.	21	2.34	1.92											\rightarrow		2.42	2	-		2.36	\dashv
	Mathematics II	F	3 2	.1	2.1	2.36										-	-+		2.2			-	+-	\dashv
	C Dhumina II		A 2	.08	2.48					_	1.96	2.36	i -				-		2.3			-	+	\dashv
	Engineering Physics II	1	B 2	.56	2.16					_	2.36	1.70	5		-	-			2.0			1	+	7
	Tarina Chamista: II		A 2	.56	2.32	2.36		2.16	1.98	8		-	-		+	-				12		-		.36
	Engineering Chemistry II		В 2	2.42	3.27	2.04		2.04	1.9	6		-	-		+	-	_			2		+	1	2.42
П	Basic Electrical & Electro	nics	A 2	2.43	2.36	2.08	-			_		+	-		+	-		+-		2.38	-	+	+	
	Engineering		В :	2.38	2.18	2						_	\rightarrow		+	-		+		2.2	-	+	+	2.36
			A	2.4	2.1				1.3	86		+	+		+		2.18	+-	+	2.08	+	_	+	
	Engineering Mechanics		В	2.34	2.02				1.	78		_	\rightarrow		+		2.1	+	-+	2.11	+	+	$\overline{}$	
	Computer Aided Drafting	and	A	2.56	2.38	2.5	8			_		+	-		+			+	+	(4)	1	_	_	
	Modeling Laboratory		В	2.56	2.52	2.4	18		-			+			+			+	-+		+	_	-	
	Physics & Chemistry		A	2.56	2.42	2.3	36					+			\rightarrow		-	+	-		+	_		2.3
	Laboratory II		В	2.52	2.36	2	.3					_			-		-	+		-	-	1		2.
			Α	2.32	1.98	1.	96					_		-			-	-		2.0	4	-		1
	Transforms And Partial Differential Equation	r		_																1.	2			
	Differential Equation		В	2.16	1.6		.72		-		-	-		+		-	1	_		+		2.68		
			A	2.56	2.15	5 2	.12	2.16	_		-	-		+		-	+	-		1	1			
	Strength of Materials		В																			2.59	1_	+
				2.48	2.0	4	2.02	1.98			+			+								2.14	1	\perp
	Engineering Thermodyn	namics	A	2.03	2.0	3	2.14	2.18		1.72	+			+								2.08		_
	Engineering Filermouy		В	1.64	2.	3	2.02	2.08	+	1.68	+		-	+		1								_
	Fluid Mechanics and		A	2.22	2.3	22	2.08	2.28	3		+		1	-		2.	1							
1	Machinery		В	2.56	2.	48	2.01	2.17	7								4							

1	III Manufacturing Technology	, A		1	T	2,14			2.04	224			T		T		
	Wandacturing Technology	В				2.02			1.92	2.24							
	Electrical Drives and Contro	A	2.42	2,36	2.18				1.92	2.12		-		2.36			
		В	2.48	2.14	2.02									2.22			
	Manufacturing Technology Lab I	Λ		2.36	2.32								,				2.42
		В	+	2.32	2.18												2.36
	Fluid Mechanics and Machinery	A	2.52	2.48	2.31							2.36					2.38
	Laboratory	В	-	-	-												
	Electrical Engineering	A	-	-	-												
	Laboratory	В	2.48	2.36	2.23												
	Statistics and Numerical	A	2.41	2.37	2.18	2.18										2.34	2.2
	Methods	В	2,45	2.29	2.04	2.04											2.24
	Vinematics of Mashines	A	2.49	2.42	2,16	2.16					-				2.02		2.24
	Kinematics of Machinery	В	2.12	2.15	2.02	2.02									2.48		
	Manufacturia - Tabada	A	2.28	2.26	2.08				1					2.41	2.40		
	Manufacturing Technology -	В	2.19	2.02	1.98				1					2.27	1		
	Engineering Materials and	A	2.12	2.17	2.16	2.26			_					2.27		1	
	Metallurgy	В	2.08	2.03	2.04	2.08								2.14			
	Environmental Science &	A	2.46	2.16	1.98												
V	Engineering	В	2.1	2.15	1.92	2.18					1						
		A	2.38	2.52	2.18	2.04	6					2.36			1		2.52
	Thermal Engineering	В	2.32	2.48	2.02	2.07						2.24					2.48
	Manufacturing Technology	A	2.56	2.42	2.28	2.36					2.00	2.21					2
	Lab - II	В	2.46	2.38	2.24	2.24				1							
		A	2.52	2.48	2.5	2.24											
	Thermal Engineering Laboratory-I	В															
		A	2.48	2.46	2.44	2.42									1		
	Strength of Materials Laboratory	В	2.24	2.26	2.18	2.34											
\dashv														2.50	5		
-	Computer Aided Design	A	2.21	2.24	2.18	2								2.4			
-		В	2.12	2.18	2.08					_					-		
	Heat & Mass Transfer	A	2.1	2.1	2.02				-	_							
		В	2.08	2.03	1.98				-			_	214				
	Design of Machine Elements	A	2.46	2.1	2.08		2.14		_				2.14				
ľ	Design of Machine Elements	В	2.09	2.01	2.01		1.96				-	_	2.1	-			2.3
		Α	2.28	2.57	2.12		4						2.18			_	2.0
1	Metrology and Measurement	В	2.12	2.5	2								2.16	2.	80	_	
-		A		2.34	2.18	*	2.26						_	-		_	2.3
r	Dynamics of Machines	В		2.37	2.04		2.34						_	-			2.
-		A		2.54	2,42		2.26										2.
	Professional Ethics in	В					2.34									-	2
			251	2.52	2.4		2.54						2.1	8 2	.16		2
D	ynamics Laboratory	A	2.56	2.56	2.36								2.0	6 2	.08		2
Ĺ		В	2.48	2.48	2.28										2.56		
TI	hermal Engineering	A	2.54	2.48	2.34	2											
Li	aboratory II	В						-	_								
1	Metrology & Measurements	Α									_				2.44		
1 1	Laboratory	В	2.44	2.44	2.32												

	Design of Transmission	A 1																
	Systems	A	2.47	2.62	2.18	2.24												
		В	2.56	2.38	2.02	2.08			2.38						2.27	2.26	2.42	_
	Principles of Management	Α	2.34	1.93	2.18	2,00			2,1			2.36			2.38	2.12	2.32	
		В	2.23	1.67	2.01			2.28							2.52	2.2		_
	Automobile Engineering	A	2.46	2.3	2.08			2.1	-						2.36	2.34		
		В	2.56	2.63	2.01									2.36	2.48		-	
	Finite Element Analysis	Α	2.46	2.1										2.28	2.34	1	-	
	- mie Element Analysis	В	2.22		1.96								_	2.36				
VI	Gas Dynamics and Jet	A	2.56	2.08	1.86 2.16						-			2.22		-	-	_
VI	Propulsion	В		2.12														_
	Unconventional Machining	A	2.23		2.08									_	_		_	
	Processes	В	2.24	2.42	2.18									2.42				_
		-	2.17	2.26	2.06									2.28				\dashv
	CAD / CAM Laboratory	A	2.52	2.46	2.36								2.4	6			2.4	14
		В	2.48	2.32	2.24					×			2.2	4			2.3	36
	Design & Fabrication Project	A	2.54	2.46	2.36													
		В	2.36	2.4	2.32							2.22						
	Communication Skills -	A	2.46	2.42	2.46				8			2.36	2.3	36			2	.36
	Laboratory based	В	2.03	2.3	2.32								2.	24			2	2.32
	D DI F - : . :	A		2.18		2.21	1.84										2	2.36
	Power Plant Engineering	В		2.12		2.02	1.7										- 2	2.22
		A	2.46		2.12	2.28	1.94		2.28						2.	24 2.	21	
	Mechatronics	В	2.56		2	2.08	1.86		2.21						2	.38 2	.07	
	Ct Interested	A	2.37	2,37	2.18	2.14	1.72										2.1	
	Computer Integrated Manufacturing Systems	В			2.03	2.04	1.68									2	.04	
		A	2.03	2.27	2.03	2.04	1.00											
	Total Quality Management	В	2.12	2.32														
			2.56	2.1														
VII	Process Planning & Cost Estimation	A		2.48		2.24												-
	Estimation	В		2.37	-		2.56					_						2.42
	Maintenance Engineering	Α		2.48		2.48				<u> </u>	-	-						2.38
		В		2.44		2.38	2.38	-	-		-	-			_		221	2.36
	Mechatronics Lab	Α							-		-	_	-		-		2.21	
	Michigan onics Euro	В							1		-					_		
		Α									_	_				-	2.21	
	Comprehension	В																-
	Simulation & Analysis	Α	2.46	1	2.44	2.44	2.52		2.46						2.46	2.48		2.34
	Simulation & Analysis Laboratory	В			2.36	2.38	2.32		2.24						2.38	2.34		2.3
	-		2.38		2.30	2.50	2.51		2.26							2.46		
	Engineering Economics	A							2.18							2.24		
		В					2.58	2.48	2.16									
	Production Planning & Control	A			2.12	2.28				_	_	_						
VIII		В			2.04	2.18		2.31		-	_	-			2.24			
V 111		A	2.28	2.46	2.12			ļ.	2.32	_		_			2.18			+
	Advanced I.C. Engines	В	2.14	2.26	2				2.26			+			_			+
		A	2.56	2,62	2.42	2.44			2.46						2.48	2.36	2.48	
	PROJECT WORK	В		2.44	2.34	2.32			2.24						2.36	2.24	2.32	
	ATTAINMENT LEVE		2.42	2.44	2.15	2.17	2.07	2.25	2.20	(5) 6	2	.23	2.18	2.21	2.23	2.35	2.21	_
					72	72	69	75	73	71		74	73	74	74	78	74	-
	PERCENTAGE		79	77			55.13	59.96	_	_	7 5	9.52	58.15	58.99	59.47	62.77	59.0	06 6
	PERCENTAGE(80%)	1	62.88	61.40	57.34	57.93	33.13	37.50	33.0									/





PRATHYUSHA ENGINEERING COLLEGE

DPEARTMENT OF MECHANICAL ENGINEERING

SEM	COURSE NAME	SEC	POI POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POI	PO12	PSO1	PSO2	PSO3	
SE.M	COURSE NAME	A	2 38					2.16	-	1.78	1.78	2.16						
	Technical English-l	В	2 42			-		2.1		2.08		1.96						
		A	2.21	2.28			1.98					2.03						_
	Mathematics-l	В	2 18	2.12			2.16					1,96				-	-	_
		A	2.38	2.16										1.93	-	-	-	_
	Engineering Physics-I	В	2.31	2.02										1.8	5	+	+	
	Engineering Chemistry-l	Α	2.4	2.1									_	1.9		-	+	
	Engineering Chemistry-	В	2.36	2								_		1.7	8		2	24
1	Computer Programming	A	2.31	2.16	1.18	2.14				-			-	-	-	-	-	16
•	Conquies Programming	В	2.2	2.48	2.08	2.02				-	_	-			-		-	
	Engineering Graphics	A		2.37	2.12		1.96			-	_	2.		_	-	_	-	-
	Engineering Original	В		2.16	2		1.82			-		2.	08	-	_	-	1	2.36
	Computer Practice Laboratory	A	2.56	2.16	2.36				-	-		_	-	-	_	_		2.28
		В	2.42	2.36	2.3					+		-	-	-				4.40
	Engineering Practices	A	2.34	2.38					-	-			-		_			
	Laboratory	В	2.26	2.18					-	_			_					
	Physics & Chemistry	A	2.71	2.62	2.42				-	+-		-	-		_			
	Laboratory	В	2.54	2.56	2.36				-	-			_		2.56			
	Technical English II	A	2.1	2.17	1.02				+	+-			_		2.38			
		В	2.02	1.83	1.98	-			-	+					2.42			
	Mathematics II	A	2.21	2.34	1.92		-		+	+			_		2.23			
		В	2.1	2.1	1.74				-	_	-				2.32			
	Engineering Physics II	A	2.08	2.48				1.98	1.98						2.04			
		В	2.12	2.16				1.88	1.70	5					2.12			2.36
	Engineering Chemistry II	A	2.31	2.32	2.18	2.16	1.98	-		_					2			2.22
п	Lightsoning Carrier,	В	2.42	3.27	2.04	2.04	1.96	-		_					2.38			
**	Basic Electrical & Electronics	A	2.43	2.36	2.08			-	-	_		-			2.2			
	Engineering	В	2.38	2.18	2			-	+	-			2.10		2.08			
	Engineering Mechanics	A	2.4	2.1			1.86	-		-	-		2.18		2.11			
	Eliginoting Mechanics	В	2.34	2.02			1.78	-	+	-			2.1		2.11			
	Computer Aided Drafting and	A	2.56	2.38	2.58			_		_	-							
	Modeling Laboratory	В	2.56	2.52	2.48					-				-				1
	Physics & Chemistry	A	2.56	2.42	2.36				-	_				-	-			2.38
	Laboratory II	В	2.52	2.36	2.3	,								-	1	-		2.30
		A	2.32	1.98	1.96									-	2.04	-	1	-
	Transforms And Partial Differential Equation	В													2			
		ь	2.16	1.6	1.72					-				1	<u> </u>	2.68		
		A	2.3	2.15	2.12	2.16				-		-	-	+		1		
	Strength of Materials	В														2.59		
		-	2.48	2.04	2.02	1.98										2.14		2.4
	Engineering Thermodynamic	A	2.02	2.02	2.14	1.98										2.08		2.3
		В	1.64	2.3	2.02	2.08	1.68					1 21						2.3
	Fluid Mechanics and	A	2.38	2.22	2.08	2.28		_				2.1	+					2.
	Machinery	В	2.38	2.48	2.01	2.17						2.04	-					
Ш	Manufacturing Technology I	A				1.98				2.04	2.24	-	+	_				
	Manufacturing Technology I	В				2.02				2.02	2.12							

1				A 242		T		T	Γ	1	T					——т		
		Electrical Drives and Con	trol -	2.42	2.36	2.18	-	-		-					2.36			
		Manufacturing Technolog	-	2.48	2.14	2.02	-								2.02			
		Lab I	E		2.32	2.32		-										2.02
		Fluid Mechanics and			2.48	2.18	-			-								2.36
		Machinery Laboratory	В	-	2.40	2.31	-	-			-							2.38
			A		1		-			-	-	-						
1		Electrical Engineering Laboratory	1						-	 		-						
-			В	2.48	2.36	2.23												
		Statistics and Numerical	A	2.41	2.37	2.38	2.18											2.02
1	1	Methods	В	2.45	2.29	2.04	2.04											2.36
	1	Kinematics of Machinery	A	2.49	2.42	2.38	2.16					1				200		2.24
1	L		В	2,12	2.15	2.02	2.02					+				2.02		
		Manufacturing Technology -	A	2.28	2.26	2.08					1				2.41	1.86		
	111		В	2.38	2.02	1.98									2.27			
		ngineering Materials and	A	2.12	2.17	2.16	2.26			 	-	1			2.18			
	M	letallurgy	В	2.08	2.03	2.04	2.08								2.14			
IV		nvironmental Science &	A	1.8	2.16	1.98												
1,	En	ngineering	В	2.1	2.15	1.92	2.18				-							
	7	15	A	2.38	2.52	2.18	2.04						226					2.52
	1 he	ermal Engineering	В	2.32	2.48	2.02	2.07			1.0	-		2.36					2.48
		nufacturing Technology	A	2.56	2.42	2.28	2.36				1		2.24					2.48
	Lab - II		В	2.46	2.38	2.24	2.24		<u> </u>									
		rmal Engineering	А	2.52	2.48	2.5	2.24											
		oratory-I	В								-							-
	C		А	2.48	2.46	2.44	2.42					_						
		ngth of Materials oratory	В	2.24	2.26	2.18	2.34					-						
	+-		A	2.21								1			2.56			
	Com	puter Aided Design	В		2.24	2.18	. 2						1		2.44	1		
	-		-	2.12	2.18	2.08				1		_			2.44			
	Heat	& Mass Transfer	A	2.1	2.1	2.02												
			В	2.08	2.03	1.98				-	-	+						_
	Desig	n of Machine Elements	A	2.13	2.1	2.08		2.14			-			2.14		-	-	
	Desig	07 1/2011110 2101101110	В	2.09	2.01	2.01		1.96		-		×,		2.1			-	+
			Α	2.28	2.57	2.12				8	-		-	2.18	2.16	+	+	2.2
	Metro	logy and Measurement	В	2.12	2.5	2								2.16	2.08			2.08
			A		2.34	2.18		2.26			1					_	-	2.28
v	Dynan	nics of Machines	В		2.37	2.04		2.34										2.1-
}			A		2.54	2,42		2.26										2.3
	Profess Engine	sional Ethics in	_					2.34										2.3
		B	В		2.52	2.4		2.34						2.18	2.16			2.3
1	Dynam	nics Laboratory	A	2.56	2.56	2.36								2.06	2.08			2.2
1	,	,	В	2.48	2.48	2.28					-				2.56			
-	Therma	al Engineering	A	2.54	2.48	2.34	2				-	+	+					
I	aborat	tory II	В						·			-	-	_				
-		logy & Measurements	A								-		-	-	2.44			
	Man-	TOPY OF IVICASOFCHICIES								I	1		1	-1	2.44			

	Design of Transmission Systems	A	2.47	2.62	2.18	2.24												
	Systems	В	2 38	2.38	2.02	2.08			2.38						2.27	2.26	2.42	
	Principles of Management	A	2.34	1.93	2.18	2.00			2.1						2.31	2.12	2.26	
		В	2.23	1.67	2.01			2.28					_	-	2.52	2.2		1
	Automobile Engineering	A	2.3	2.3	2.08			2.1	-			_	_		2.36	2.12		1
		В	2.1	2.63	2.01									.36	2.48	-	-	1
	Finite Element Analysis	A	2.31	2.1	1.96						-	_		2.28	2.34	-	-	1
		В	2.22	2.08	1.86						-			2.36		-	-	1
VI	Gas Dynamics and Jet Propulsion	A	2.16	2.32	2.16							-		2.22		1	1	1
	Tropulsion	В	2.13	2.12	2.08								_			-	1	1
	Unconventional Machining Processes	A	2.24	2.42	2.18						_		_	2.42		1	1	7
	Flocesses	В	2.17	2.26	2.06									2.42			1	-
	CAD / CAM Laboratory	A	2.52	2.46	2.36								2.46	2.28		1	2.44	-
		В	2.48	2.32	2.24								2.24				2.36	\neg
	Design & Fabrication Project	A	2.54	2.46	2.36						-		-			_	2.30	\dashv
	s engir te i abrication Project	В	2.36	2.4	2.32							2.22			_	_		\dashv
	Communication Skills -	A	2.46	2.42	2.46								2.36				2.30	
	Laboratory based	В	2.4	2.3	2.32								2.24		+		2.1	
	D- DI - D	A		2.18		2.21	1.84				_		-		-		2.3	
	Power Plant Engineering	В		2.12	1								-		1	-	2.2	\dashv
		A	2.03	2.12	2.12	2.02	1.7						-		2.2	4 2.2		
	Mechatronics	В	2.17		2.12	2.28	1.94		2.28						2.1			
	Computer Integrated	A	2.17	2.5	2.5		1.86	2.5	2.21		2.5				2.1	2.0		.5
	Manufacturing Systems	В	2.03	2.27	2.03	2.5	1.68	2.5	2.5		2.5						04	.,,
		A	2.12	2.32	2.03	2.04	1.08								+	2.	04	
	Total Quality Management	В	2.08	2.1	1										_		_	
	Process Planning & Cost	A	2.08	2.48		2.24									_			
VII	Estimation Cost	В		2.48	<u> </u>	2.12		<u> </u>							_		_	
		A		2.48		2.48	2.56				-			-	+	_		
	Maintenance Engineering	В												-	_	-		2.42
		A		2.44		2.38	2.38		-					-	+	-		2.38
	Mechatronics Lab	В														_	-	-
		A			-	-			-		-	-		+				
	Comprehension				-				-					+	_			
		В							-					+-	_			
	Simulation & Analysis Laboratory	Α	2.46		2.44	2.44	2.52		2.46					2.	46	2.48		2.34
Ser production	Laboratory	В	2.38		2.36	2.38	2.32		2.24					2.	38	2.34		2.2
	Engineering Economics	Α					2.51		2.26							2.36		
		В					2.58		2.18							2.24		
	Production Planning &	A			2.12	2.28		2.48										
VIII	Control	В			2.04	2.18		2.31										
	Advanced I C F	Α	2.28	2.46	2.12				2.32	,				1	2.24			
	Advanced I.C. Engines	В	2.14	2.26	2				2.26				<u> </u>	_	2.18			
1		A						-	_			-	-	_				-
	PROJECT WORK	В	2.56	2.62	2.42	2.44		-	2.46	-	-	-	-	-	2.48	2.36	2.48	2
-	ATTAINMENT LEVEL	-	2.42	2.44	2.34	2.32			2.24	-		-	-		2.36	2.24	2.32	1 3
H	PERCENTAGE	-	2.31	2.29	2.13	2.17	2.09	2.20	2.20	2.06	2.08	2.13	2.21	-	2.23	2.30	2.23	1:
1		-	77	76	71	72	70	73	73	69	69	71	74		74	77	74	
- 1	PERCENTAGE(80%)	- 1	61.56	61.08	56.93	57.89	55.80	58.64	58.65	54.80	55.47	56.73	58.9	0	59.58	61.40	59.52	6





PRATHYUSHA ENGINEERING COLLEGE DPEARTMENT OF MECHANICAL ENGINEERING

PO ATTAINMENT FOR COURSES (2013-17)

		-			-				LS (2013-)	. ,							
SEM	COURSE NAME	SEC	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	Technical English-I	A	2.38					2.35		1.78	1.78	2.16		A DESCRIPTION OF THE PERSON OF			
	Temperature English	В	2.42					2.1		2.08	1.84	1.96		October 1999			
	Mathematics-I	A	2.21	2.28			1.98					2.03		And the second s			
		В	2.18	2.12			1.84					1.96					
	Engineering Physics-I	A	2.38	2.16										1.92			
		В	2.31	2.02										1.86			
	Engineering Chemistry-I	A	2.4	2.1			The second secon							1.98			
		В	2.36	2										1.78			
I	Computer Programming	A	2.31	2.62	1.18	2.14	1.86						-		2.24		
		В	2.2	2.48	2.08	2.02	1.96								2.16		
	Engineering Graphics	A		2.37	2.12		1.96					2.16					
1		В		2.16	2	-	1.82					2.08					
or and	Computer Practice Laboratory	A	2.56	2.48	2.36												2.36
1	Service Commission of the Comm	В	2.42	2.36	2.3												2.28
	Engineering Practices	A	2.34	2.38													
I	aboratory	В	2.26	2.18													
	hysics & Chemistry	A	2.71	2.62	2.42												
L	aboratory	В	2.54	2.56	2.36												
Ι.	echnical English II	A	2.1	2.17	1.02									2.56			
1	ecumear Lugiisii ii	В	2.02	1.83	1.98									2.38			
		A	2.21	2.34	1.92									2.42			
M	athematics II	В	2.1	2.1	1.74									2.23			
		A	2.08	2.48				1.96	1.98					2.32			
En	gineering Physics II	В	2.12	2.16				1.88	1.76					2.04			
	THE PARTY OF THE P	A	2.31	2.32	2.18	2.16	1.98							2.12			2
Eng	gineering Chemistry II	В	2.42	3.27	2.04	2.04	1.96							2			2
Date	ic Electrical & Electronics	A				2.04	1.70				1			2.38			
	ineering	В	2.43	2.36	2.08						+	1		2.2			
		-	2.38	2.18	2				-			-		2.0			
Eng	ineering Mechanics	A	2.4	2.1			1.86		-	2.18	-	2.18					
-		В	2.34	2.02			1.78			2.04		2.1	-	2.1	1		
Com	puter Aided Drafting and	A	2.56	2.38	2.58				-	2.16	-				-		
	eling Laboratory	В	2.56	2.52	2.48				-	2.02			-		-		
	ics & Chemistry	A	2.56	2.42	2.36												
II		В	2.52	2.36	2.3												

								annessa ann ann ann ann ann ann ann ann ann									
	To Control Desired	A	2.32	1.98	1.96								2	2.04			
	Transforms And Partial Differential Equation	В												2			
		<u> </u>	2.16	1.6	1.72	216								2	2.68		
	Second of Materials	A	2.3	2.15	2.12	2.16											
	Strength of Materials	В	2.48	2.04	2.02	1.98									2.59		
		A	2.03	2.03	2.14	2.18	1.72								2.14		2.44
	Engineering Thermodynamics	В	1.64	2.03	2.02	2.08	1.68								2.08		2.32
	The state of the s	A			2.02		1.08				2.1						2.32
	Fluid Mechanics and Machinery	В	2.22	2.22		2.28											2.24
		A	2.1	2.48	2.01	2.17					2.04						
Ш	Manufacturing Technology I	В			-	2.14			2.04	2.24							
		A		0.00		2.02			1.92	2.12				226			
	Electrical Drives and Control	В	2.42	2.36	2.18									2.36			
			2.48	2.14	2.02								-	2.22			2 12
	Manufacturing Technology Lab I	A	2.42	2.36	2.32												2.42
	Fluid Mechanics and	В	2.38	2.32	2.18												2.36
	Machinery	A	2.52	2.48	2.31												2.38
	Laboratory	В															
	Electrical Engineering	A															
	Laboratory	В	2.48	2.36	2.23												2.2
	Statistics and Numerical	A	2.41	2.37	2.18	2.18											2.36
	Methods	В	2.45	2.29	2.04	2.04											2.24
		A	2.49	2.42	2.16	2.16									2.02		
	Kinematics of Machinery	В				2.02									1.86		
		A	2.12	2.15	2.02	2.02								2.41	1.80		
	Manufacturing Technology –	В													-		-
			2.19	2.02	1.98	226		-						2.27		+	-
	Engineering Materials and Metallurgy	A	2.12	2.17	2.16	2.26		-		-				-	_		-
	rictantingy	В	2.08	2.03	2.04	2.08		-						2.14	-		-
	Environmental Science &	Α	1.8	2.16	1.98									-			
	Engineering	В	2.1	2.15	1.92	2.18											
	Thermal Engineering	Α	2.18	2.52	2.18	2.04						2.36					2.5
	Thermal Engineering	В	2.04	2.48	2.02	2.07						2.24					2.4
	Manufacturing Technology	Α	2.16	2.42	2.28	2.36							2.18				
	Lab - II	В				2.24											
	Thermal Engineering	A	2.02	2.38	2.24	2.24							1				
	Laboratory-I	В						-		-							
			2.48	2.46	2.44									-		+	
	Strength of Materials Laboratory	A	2.28	2.36	2.22	2.42				2.18		-	-	+-	_	_	-
		В	2.24	2.26	2.18	2.34		8	100	2.04							

	Computer Aided Design	A	2.21	2.24	2.18	2				2.16				2.56					
		В	2.12	2.18	2.08					2.02				2.44				-	
	Heat & Mass Transfer	A	2,1	2.1	2.02					2.02				2					
		В	2.08	2.03	1.98		-							•		2.18			
	Design of Machine Elements	A	2.13	2.1	2.08		2.14						2.14					\rightarrow	
		В	2.09	2.01	2.01		1.96						2.1		-	2.18		_	
	Metrology and Measurement	A	2.28	2.57	2.12								2.18	2.16	-			2	
		В	2.12	2.5	2								2.16	2.08	-			.08	
V	Dynamics of Machines	A		2.34	2.18		2.26								-	-		2.28	
		В		2.18	2.04		2.34							-	_			2.14	
	Professional Ethics in	A		2.04	2,42		2.26							-		_	_	2.36	
	Engineering	В		2.16	2.4		2.34							-	_			2.36	
	Di.a I ab	A	2.56	2.02	2.36								2.18			_	-	2.22	1
	Dynamics Laboratory	В	2.48	2.48	2.28								2.06					4.44	1
	Thermal Engineering	A	2.54	2.48	2.34	2							-	2.5	56				1
	Laboratory II	В			3								-						7
	Metrology & Measurements	A									-		-	\ ,	.72				7
	Laboratory	В	2.44	2.44	2.32							1		1	12	2.27	2.26	2.42	
	Design of Transmission	A	2.47	2.62	2.18	2.24			2.38	-			_		_	1.72	2.32	2.26	
	Systems	В	2.38	2.38	2.02	2.08			2.1		2.18	+	_			2.52	2.4		
		A	2.34	1.93	2.18			2.28			2.18				_	1.72	2.12		
	Principles of Management	В	2.23	1.67	2.62			2.1			-			_	226	2.48	2.12		
		A	2.3	2.3	2.08										2.36	2.34			
	Automobile Engineering	В	2.1	2.63	2.01								-	-	2.28	2.34	1	1	
		A		2.62	1.96										2.36		1		
	Finite Element Analysis	В	2.62	2.08	1.86										2.22		1	_	_
			2.22	2.32	2.16											+	_	_	
Т	Gas Dynamics and Jet	A		2.12	2.08											-	+-	-	
	Propulsion	В	2.13												2.42	+	-	-	
	Unconventional Machining	A	2.24	2.42	2.18	-									2.28	-	-	-	-
	Processes	В	2.17	2.26	2.06		+							1.72			-		2.
		A	2.52	2.46	2.36		-							2.24					2
	CAD / CAM Laboratory	В	2.08	2.32	2.24				_					to .					
		A	2.14	2.46	2.36								2.22						-
	Design & Fabrication Project	В	2.36	2.4	2.32								2.08	2.36					_
1		A		2.42	2.46								2.00	2.24	1				
	Communication Skills - Laboratory based		2.62	2.3	2.32					-				2.24					

		A	1	2.18	T	2.21	1.84									2.36	
	Power Plant Engineering	В		2.12		2.02	1.7									2.22	
		A			2.12	2.28	1.94		2.28					2.2	2.21		4
	Mechatronics	В	2.17	-	2	2.08	1.86		1.72	-				2.1	4 2.07		4
	Computer Integrated	A	2.37	2.37	2.18	2.14	1.72								2.17		\dashv
	Manufacturing Systems	В	2.03	2.27	2.03	2.04	1.68								2.04		
	Total Quality Management	A	2.12	2.32													
	Total Quality Management	В	2.08	2.1													
VII	Process Planning & Cost	A		2.48		2.24									_		
VII	Estimation	В		2.37		2.12											
	M.:	A		2.48		2.48	1.72									2.4	
	Maintenance Engineering	В		2.44		2.38	2.38										.38
		A	2.62	2.46	2.36								2.46				.44
	Mechatronics Lab	В	2.48	2.32	2.24								1.72				2.36
		A	2.52	2.46	2.36								2.46				2.4
	Comprehension	В	2.48	2.32	2.24		0.						2.24				2.3
ŀ	Simulation & Analysis	A	2.46		2.44	2.44	2.52		2.46					2.46	2.48		2.3
	Laboratory	В	2.38		2.36	2.38	2.32		2.24					2.38	2.34	-	
_		A	2.50	/			2.51		2.26						2.36		_
E	Engineering Economics	В					2.08		2.18						2.24		
-		A			2.12	2.28		2.48				2.18					
	Production Planning & Control	В			2.04	2.18		2.31			×						
ıı	, condict		2.28	2.46	2.12	2.10			2.32					2.24		-	
A	dvanced I.C. Engines	A	6750,001		2				2.26			2.18		2.18			_
		В	2.14	2.26					2.46					2.48	2.36	2.48	_
DE	ROJECT WORK	A	2.62	2.62	2.42	2.44								2.36	2.24	2.32	-
FR	COJECT WORK	В	2.42	2.44	2.34	2.32		2.18	2.24	2.09	1.94	2.14	2.16	2.22	2.24	2.23	1
	ATTAINMENT LEVEL		2.30	2.29	2.14	2.17	2.00			70	65	71	72	74	75	74	
	PERCENTAGE		77	76	71	72	67	73	71		51.82	56.93	57.67	59.26	59.66	59.44	- 1
-	PERCENTAGE(80%)		61.26	61.07	57.07	57.89	53.31	58.20	56.95	55.60	31.82	30.73				X	,

HOD/MECH



PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF MECHANICAL ENGINEERING PO ATTAINMENT 2016-2020 BATCH

			NWIENT 2016-20	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	irect Assessme	nt (20%)	
DO	Mahadaha	Direct			irect /ssessme		
PO N	o Method assessment	(80%)	End of Course Survey (20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline.	62.42	18	20		19	81
2	An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution.	61.35	16	20		19	80
3	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.	1	16	20	18	18	75
4	An ability to design and conduct experiments, as well as to analyze and interpret data.	59.25	16	20		18	77
5	An ability to use current techniques, skills, and modern tools necessary for computing practice.	56.47	18	20	17	18	75
6	An ability to analyze the local and global impact of computing on individuals, organizations, and society.		13	20		17	76
7	Knowledge of contemporary issues.	60.01	14	20		17	77
8	An understanding of professional, ethical, legal, security and social issues and responsibilities.	54.93	19	20		20	74
9	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.		18	20		19	78
10	An ability to communicate effectively with a range of audiences.	56.7	17	19	18	19	76
11	Recognition of the need for and an ability to engage in continuing professional development.	58.99	16	20	17	18	77
12	An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects.		17	20		19	78
	member and reader in a team, to manage projects.		AMME SPECIFIC C	OUTCOMES			
1	To Analyze, Design and Develop computer programs / Applications in the areas related to Web-Technologies, Networking, Algorithms, Cloud Computing, Data analytics, Computer Vision Cyber-Security and Intelligent Systems for efficient design of computer-based and Mobile-based systems of varying complexity	- 1 1	19	20	19	20	81
2	To use modern software tools (like NS2 MATLAB, OpenCV, etc) for designing simulating, analyzing and generating experimenta results for real-time problems and case studies	,	19	20	18	19	78
3	To Apply Software Engineering practices and strategies for developing Projects related to emerging technologies.	61.7	19	20	18	20	82





PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF MECHANICAL ENGINEERING PO ATTAINMENT 2015-2019 BATCH

	ESTD, 2001	AND DESCRIPTION OF THE PARTY OF	NMENT 2015-20	The second state of the second		. (2021)	
		Direct		Indi	rect Assessme	nt (20%)	
PO No	Method assessment	assessmen t (80%)	End of Course Survey (20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline.	62.88	18	20		19	82
2	An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution.	61.40	17	20		19	80
3	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.	57.34	16	20	18	18	75
4	An ability to design and conduct experiments, as well as to analyze and interpret data.	57.93	16	20	1	18	76
5	An ability to use current techniques, skills, and modern tools necessary for computing practice.	55.13	16	20	17	18	73
6	An ability to analyze the local and global impact of computing on individuals, organizations, and society.	59.96	14	20		17	77
7	Knowledge of contemporary issues.	58.61	17	20	1	18	77
8	An understanding of professional, ethical, legal, security and social issues and responsibilities.	57.07	16	20	- v - v - v - g	18	75
9	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.	59.52	16	20		18	78
10	An ability to communicate effectively with a range of audiences.	58.15	18	19	17	18	76
11	Recognition of the need for and an ability to engage in continuing professional development.	58.99	18	20	17	18	77
12	An understanding of engineering and managemen principles and apply these to one's own work, as a	59.47	14	20		17	77
	member and leader in a team, to manage projects.	PROGE	RAMME SPECIFIC	OUTCOMES		ge " c"	
				#1, #1, 14, 14, 14, 14, 14, 14, 14, 14, 14, 1			
1	To Analyze, Design and Develop compute programs / Applications in the areas related to Wel Technologies, Networking, Algorithms, Clour Computing, Data analytics, Computer Vision Cyber-Security and Intelligent Systems for efficient design of computer-based and Mobile-base systems of varying complexity	d d i,	16	20	19	18	81
2	To use modern software tools (like NS2 MATLAB, OpenCV, etc) for designing simulating, analyzing and generating experimenta results for real-time problems and case studies	g.,	18	20	18	19	78
3	To Apply Software Engineering practices an strategies for developing Projects related to emerging technologies.	62.48	18	19	18	18	81

HOD/MECH



PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF MECHANICAL ENGINEERING

PO ATTAINMENT 2014-2018 BATCH

	ESTD. 2001	The second secon	NIVIENT 2014-20	the same that the same of the			
		Direct		Ind	irect Assessme	ent (20%)	
PO No	Method assessment	assessmen t (80%)	End of Course Survey (20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline.	61.56	16	20		18	80
2	An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution.	61.08	15	20		17	79
3	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.	56.93	16	20	18	18	75
4	An ability to design and conduct experiments, as well as to analyze and interpret data.	57.89	14	20		17	75
5	An ability to use current techniques, skills, and	55.80	16	20	17	18	73
6	modern tools necessary for computing practice. An ability to analyze the local and global impact of computing on individuals, organizations, and	58.64	14	20		17	76
7	Society. Knowledge of contemporary issues.	58.65	17	20		18	77
8	An understanding of professional, ethical, legal, security and social issues and responsibilities.	54.80	16	20		18	73
9	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.	55.47	17	. 20		18	74
10	An ability to communicate effectively with a range of audiences.	56.73	18	19	17	18	75
11	Recognition of the need for and an ability to engage in continuing professional development.	58.99	18	20	17	18	77
12	An understanding of engineering and management	59.58	14	20		17	77
	member and leader in a team, to manage projects.	In the second	AMME SPECIFIC O	OUTCOMES			
4							80
1	To Analyze, Design and Develop computer programs / Applications in the areas related to Web-Technologies, Networking, Algorithms, Cloud Computing, Data analytics, Computer Vision, Cyber Security and Intelligent Systems for efficient design of computer-based and Mobile-based systems of varying complexity		16	20	19	18	80
	To use modern software tools (like NS2, MATLAB OpenCV, etc) for designing, simulating analyzing and generating experimental results for real-time problems and case studies	·	16	20	18	18	77
3	To Apply Software Engineering practices and strategies for developing Projects related to emerging technologies.	61.73	17	19	18	18	80

HOD/MECH



PRATHYUSHA ENGINEERING COLLEGE DEPARTMENT OF MECHANICAL ENGINEERING PO ATTAINMENT 2013-2017 BATCH

		TOATIA	INMENT 2013-2	017 BATCH			
PO N	o Method assessment	Direct		Ind	irect Assessme	nt (200/)	
	- moscosinent	assessmen	End of Course Survey	Study 171	A Set Assessine		
		t (80%)	(20%)	Student Exit Survey (20%)	Rubrics (20%)	Indirect Assessment (20%)	% PO Attainment
1	An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline. An ability to apply the discipline.	61.26	15	19		17	78
2	An ability to analyze a problem, and identify and formulate the computing requirements appropriate to its solution.	61.07	15	20		17	79
3	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.	57.07	16	19	16	17	74
4	An ability to design and conduct experiments, as well as to analyze and interpret data.	57.89	14	20		17	75
5	An ability to use current techniques, skills, and modern tools necessary for computing practice	53.31	16	20	16	17	71
6	An ability to analyze the local and global impact of computing on individuals, organizations, and society.	58.20	14	20		17	75
7	Knowledge of contemporary issues.	56.95	17	20		18	75
8	An understanding of professional, ethical, legal, security and social issues and responsibilities.	55.60	16	19		18	73
9	An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.	51.82	. 17	20		18	70
10	An ability to communicate effectively with a range of audiences.	56.93	18	20	17	18	75
11	Recognition of the need for and an ability to engage in continuing professional development.	57.67	18	19	17	18	76
12	An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects.	59.26	14	20		17	76
	member and leader in a team, to manage projects.	PROGRAM	ME SPECIFIC OUT	COMES			
1	To Analyze, Design and Develop computer programs / Applications in the areas related to Web-Technologies, Networking, Algorithms, Cloud Computing, Data analytics, Computer Vision, Cyber-Security and Intelligent Systems for efficient design of computer-based and Mobile-based systems of varying complexity	61.15	16	20	19	18	80
2	To use modern software tools (like NS2, MATLAB, OpenCV, etc) for designing, simulating, analyzing and generating experimental results for real-time problems and case studies	59.44	16	19	18	18	77
3	To Apply Software Engineering practices and strategies for developing Projects related to emerging technologies.	62.13	12	20	18	17	79