

CO-PO-PSO Mapping B.E. Biotechnology

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
FE	I	Chemistry	824101.1	2	2					2					2			
			824101.2	2	2	2		2		2					2			
			824101.3	2						2					2			
			824101.4	2	2	2				2					2			
			824101.5	2	2	2		2							2			
			824101	2	2	2		2		2					2			
FE	I	Engineering Graphics	824104.1	3	3	3		3					3					
			824104.2	3	2	3		3					2					
			824104.3	3	3	3		3					3					
			824104.4	2	2	3		3					3					
			824104	2.75	2.5	3		3					2.8					
FE	I	English	824103.1	2							2		2					
			824103.2	2				2			2		2					
			824103.3	2									2					
			824103.4	2										2				
			824103	2				2			2		2	2				
FE	I	Mathematics - I	824102.1	3	3	2												
			824102.2	3	2	3												
			824102.3	3	3	2												
			824102.4	3	2	2												
			824102	3	2.5	2.25												
FE	I	Chemistry Lab	824106.1	3	2	3			2	2					2			
			824106.2	3	2	2			2	2					2			
			824106.3	3	2	2			2	2					2			
			824106.4	3	2	3			2	2					2			
			824106	3	2	2.5			2	2					2			
FE	I	Engineering Graphics Lab	824108.1	3	3	3		3					3					
			824108.2	3	2	3		3					2					

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
			824203.7	3	2													
			824203	3	2.28													
FE	II	Programming for Problem Solving	824204.1	3	2	2	1		2	1					2			
			824204.2	3	2	2	1		2	1					2			
			824204.3	3	2	2	1		2	1					2			
			824204.4	3	2	2	1		2	1					2			
			824204.5	3	2	2	1		2	1					2			
			824204.6	3	2	2	1		2	1					2			
			824204	3	2	2	1		2	1					2			
FE	II	Physics Lab	824205.1	3	3	3	3	3			1	1	2	2	2			
			824205.2	3	3	3	3	3					2		1			
			824205.3	3	2	2	2	1				1	1					
			824205.4	3	2	1	3	3					2		1			
			824205.5	3	2	1	1	2					1					
			824205.6	3	3	3	3	3			1	1	2	2	2			
			824205	3	2.5	2.17	2.5	2.5			1	1	1.666	2	1.5			
FE	II	Basic Electrical and Electronics Engineering Lab.	824206.1	2	2													
			824206.2	3	3													
			824206.3	3	2													
			824206.4	2	2													
			824206.5	2	2													
			824206.6	2	2													
			824206	2.33	2.16													
FE	II	Programming for Problem Solving Lab	824207.1	3	2	2	1		2	1					2			
			824207.2	3	2	2	1		2	1					2			
			824207.3	3	2	2	1		2	1					2			

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
			824207.4	3	2	2	1		2	1					2			
			824207.5	3	2	2	1		2	1					2			
			824207.6	3	2	2	1		2	1					2			
			824207	3	2	2	1		2	1					2			
SE	III	Microbiology	824304.1	2	2	2			2					3			2	
			824304.2		2		2				2					3		
			824304.3	2				3					2					2
			824304.4		3					3					2		2	
			824304.5			2			3			3		3		2		
			824304	2	2.33	2	2	3	2.5	3	2	3	2	3	2	2.5	2	2
SE	III	Biology	824301.1	2			2				2			2			2	
			824301.2		2				2				2			2		
			824301.3	3		2				2				2			2	
			824301.4		2			2				2			2			2
			824301.5	2	2		2			2				2			2	
			824301	2.333	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SE	III	Bioprocess Calculations	824302.1	2	2	2		2				2				3		2
			824302.2	2			2				2			2			2	
			824302.3		2				2				2			2		2
			824302.4	2			2			2					3			3
			824302.5		3				3				3			3		
			824302	2	2.33	2	2	2	2.5	2	2	2	2.5	2	3	2.667	2	2.33
SE	III	Unit Operations	824303.1	3				2					2			2		2
			824303.2	2		2				2				2			2	
			824303.3	2			2					2			2			2
			824303.4		2				2				2			2		
			824303.5	3			3				2				2			2

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
			824303	2.5	2	2	2.5	2	2	2	2	2	2	2	2	2	2	2
SE	III	Bioprocess Industrial Economics & Management	824305.1	2		2						2			2			2
			824305.2	2			2			2			2				2	
			824305.3	2		1			1			2			2			1
			824305.4	3				3			3			3			3	
			824305.5		3				3				3			2		2
			824305	2.25	3	1.5	2	2	2	2	2	2	2.5	3	2	2	2.5	1.67
SE	III	Unit Operations Lab	324306.1	2			2				2			2			2	
			324306.2		2				3				2			2		
			324306.3	2			2			2				2			2	
			324306.4		2			2				2			2			3
			324306.5	2			2			3				2			2	
			324306	2	2		2	2	3	2.5	2	2	2	2	2	2	2	3
SE	III	Microbiology Lab	324307.1	2				2				2			2			2
			324307.2		2				2				2			2		
			324307.3	2			3				2				2			
			324307.4		2				3				2			2		2
			324307.5	3			2				2			2			2	
			324307	2.333	2		2.5	2	2.5		2	2	2	2	2	2	2	2
SE	III	Good Manufacturing practises Lab	324308.1	2			2				2			2			2	
			324308.2		2				2				2			2		
			324308.3	3		2				2				2			2	
			324308.4		2			2				2			2			2
			324308.5	2	2		2			2				2			2	

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
			324308	2.333	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SE	IV	Process Heat Transfer	824402.1	2				2				2			2			2
			824402.2			2			2				2			2		
			824402.3	3			3				3				3			
			824402.4		2					2			2			2		2
			824402.5	3			2				2			2			2	
			824402	2.667	2	2	2.5	2	2	2	2.5	2	2	2	2.5	2	2	2
SE	IV	Immunology	824403.1	2				2				2				2		2
			824403.2		2		2			2				2			2	
			824403.3	2					2			2				3		2
			824403.4			2				2				2			2	
			824403.5	3			2					2			2			2
			824403	2.333	2	2	2	2	2	2		2		2	2	2.5	2	2
SE	IV	Biochemistry	824404.1	3					3				3			3		
			824404.2		2					2				2			2	
			824404.3	2				2				2			2			2
			824404.4	3			3						2			3		
			824404.5		2		3	2			2			3			3	
			824404	2.667	2		3	2	3	2	2	2	2.5	2.5	2	3	2.5	2
SE	IV	Intellectual Property Rights & Entrepreneurship	824405.1	2			2				2				2			3
			824405.2		2			3			2			2			3	
			824405.3	2			3					2			2			2
			824405.4		3				2				2				2	
			824405.5	2				2			2				3			3
			824405	2	2.5		2.5	2.5	2		2	2	2	2	2.333		2.5	2.67

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
SE	IV	Biostatistics	424401.1	2	2			2				2				2		2
			424401.2				2			2				2			2	
			424401.3		2				2				2			2		2
			424401.4	2			2				3				2		2	
			424401.5		2			2				2				2	2	
			424401	2	2		2	2	2	2	3	2	2	2	2	2	2	2
SE	IV	Process Heat Transfer Lab	424406.1	2			2				2			2			2	
			424406.2		2				2				2			2		
			424406.3	3		2				2				2			2	
			424406.4		2			2				2			2			2
			424406.5	2	2		2			2				2			2	
			424406	2.333	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SE	IV	Immunology Lab	424407.1	2			2				2				2			2
			424407.2		2			2			3			2			2	
			424407.3	2			2					2			3			2
			424407.4		2				1				3				2	
			424407.5	1				2			2				2			2
			424407	1.667	2		2	2	1		2.33	2	3	2	2.333		2	2
SE	IV	Biochemistry Lab	424408.1	2	1	2			2					2			2	
			424408.2		2		2				2					2		
			424408.3	2				2					2					2
			424408.4		2					2					2		2	
			424408.5			2			3			3		3		3		
			424408	2	1.67	2	2	2	2.5	2	2	3	2	2.5	2	2.5	2	2

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
SE	IV	Lab Environmental Biotechnology	424409.1	2			2				2			2			2	
			424409.2		2				3				2			2		
			424409.3	2			2			2				2			2	
			424409.4		2			2				2			2			3
			424409.5	2			2			3				2			2	
			424409	2	2		2	2	3	2.5	2	2	2	2	2	2	2	3
TE	V	Enzyme Engineering	824503.1	3			3				3			2				2
			824503.2		3				3				3			3		
			824503.3	3			3					3			3		3	
			824503.4			2				2				2				2
			824503.5	2				2			2				2		2	
			824503	2.667	3	2	3	2	3	2	2.5	3	3	2	2.5	3	2.5	2
TE	V	Reaction Engineering	824502.1	3			3				3				3			2
			824502.2		2				2				3			3		
			824502.3	3			2					3			2		2	
			824502.4			2			2				2			2		2
			824502.5	2			2				2			2				
			824502	2.667	2	2	2.33		2		2.5	3	2.5	2	2.5	2.5	2	2
TE	V	Molecular Biology	824501.1	2				2				2				2		2
			824501.2		2		2			2				2			2	
			824501.3	2				2				2				2		2
			824501.4			2				2				2			2	
			824501.5	2			2					2			2			2
			824501	2	2	2	2	2		2		2		2	2	2	2	2

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
TE	V	Professional Elective Course –I Food Biotechnology	824541.1	2			2				2				2			2
			824541.2		2			2			2			3			3	
			824541.3	2			2					2				3		2
			824541.4		2				2				2				3	
			824541.5	2				2			3				2			2
			824541	2	2		2	2	2		2.33	2	2	3	2	3	3	2
TE	V	Open Elective Course – I Biofuel and Alcohol Technology	824551.1	2				2				2			2			2
			824551.2		2				2				2			2		
			824551.3	2			3				2				2			
			824551.4		2				3				2			2		2
			824551.5	3			2				2			2			2	
			824551	2.333	2		2.5	2	2.5		2	2	2	2	2	2	2	2
TE	V	Lab Molecular Biology	524506.1	2				2				2			2			2
			524506.2			2			2				2			2		
			524506.3	3			3				3				3			
			524506.4		2					2			2			2		2
			524506.5	3			2				2			2			2	
			524506	2.667	2	2	2.5	2	2	2	2.5	2	2	2	2.5	2	2	2
TE	V	Lab Reaction Engineering	524507.1	2			2				2			2				2
			524507.2		2				3				2			2		
			524507.3	2			2			2				2				2
			524507.4		2			2				2			2			3

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
			524507.5	2			2			3				2			2	
			524507	2	2		2	2	3	2.5	2	2	2	2	2	2	2	3
TE	V	Lab Pharmaceutical Biotechnology	524508.1	2			2				2			2			2	
			524508.2		2				2				2			2		
			524508.3	3		2				2				2			2	
			524508.4		2			2				2			2			2
			524508.5	2	2		2			2				2			2	
			524508	2.333	2	2	2	2	2	2	2	2	2	2	2	2	2	2
TE	V	Minor Project (Stage – D)	524509.1	2			2				2			2			2	
			524509.2		2				2				2			2		
			524509.3	3		2				2				2			2	
			524509.4		2			2				2			2			2
			524509.5	2	2		2			2				2			2	
			524509	2.333	2	2	2	2	2	2	2	2	2	2	2	2	2	2
TE	VI	Genetic Engineering	824601.1	3					3				2			2		
			824601.2		2					2				2			2	
			824601.3	2				2				2			2			2
			824601.4			2	3				2		2			3		
			824601.5		2				2			2			2			2
			824601	2.5	2	2	3	2	2.5	2	2	2	2	2	2	2.5	2	2
TE	VI	Mass Transfer	824602.1	2				2				2				2		2
			824602.3		2		2			2				2			2	
			824602.2	2				2				2				2		2
			824602.4			2				2				2			2	

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
TE	VI	Lab Genetic Engineering	624606.1	2			2				2				2			2
			624606.2		2			2			3			2			2	
			624606.3	2			2					2			3			2
			624606.4		2				1				3				2	
			624606.5	1				2			2				2			2
			624606	1.667	2		2	2	1		2.33	2	3	2	2.333		2	2
TE	VI	Lab Mass Transfer	624607.1	2			2				2			2			2	
			624607.2		2				2				2			2		
			624607.3	3		2				2				2			2	
			624607.4		2			2				2			2			2
			624607.5	2	2		2			2				2			2	
			624607	2.333	2	2	2	2	2	2	2	2	2	2	2	2	2	2
TE	VI	Lab Bioprocess Engineering	624608.1	2	1	2			2					2			2	
			624608.2		2		2				2					2		
			624608.3	2				2					2					2
			624608.4		2					2					2		2	
			624608.5			2			3			3		3		3		
			624608	2	1.67	2	2	2	2.5	2	2	3	2	2.5	2	2.5	2	2
TE	VI	Minor Project	624609.1	2	2	2			2					3			2	
			624609.2		2		2				2					3		
			624609.3	2				3					2					2
			624609.4		3					3					2		2	
			624609.5			2			3			3		3		2		
			624609	2	2.33	2	2	3	2.5	3	2	3	2	3	2	2.5	2	2

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BE	VII	Bioinformatics	724701.1	2				2				2			2		3	
			724701.2			2				2				2				3
			724701.3	2				2				2				2		
			724701.4		2			1			2			3			2	
			724701.5	2			3			2					2			2
			724701	2	2	2	3	1.67		2	2	2		2.5	2	2	2.5	2.5
BE	VII	Professional Elective Course - III Crop Improvement	724721.1	2	2			2								2		2
			724721.2				2			2				2			2	
			724721.3		2				2				2			2		2
			724721.4	2			2				3				2		2	
			724721.5		2			2				2				2	2	
			724721	2	2		2	2	2	2	3	2	2	2	2	2	2	2
BE	VII	Professional Elective Course - IV Analytical Methods in Biotechnology	724731.1	2				2								2		2
			724731.2		2		2			2				3			2	
			724731.3	2				2				2				2		3
			724731.4			2				2				2			2	
			724731.5	3			3					2			2			2
			724731	2.333	2	2	2.5	2		2		2		2.5	2	2	2	2.33
BE	VII	Open Elective Course - III Bioprocess Optimization and Plant Design	724741.1	2		2			2					2			2	
			724741.2		3		2				2					2		

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BE	VIII	Open Elective Course - IV Agricultural Biotechnology	824843.1	2			2				2				2			2
			824843.2		2			2			3			2			2	
			824843.3	2			2					2			3			2
			824843.4		2				1				3				2	
			824843.5	1				2			2				2			2
			824843	1.667	2		2	2	1		2.33	2	3	2	2.333		2	2
BE	VIII	Lab Downstream Processing	824806.1	2	2	2			2					3			2	
			824806.2		2		2				2					3		
			824806.3	2				3					2					2
			824806.4		3					3					2		2	
			824806.5			2			3			3		3		2		
			824806	2	2.33	2	2	3	2.5	3	2	3	2	3	2	2.5	2	2
BE	VIII	Lab Bioprocess Industries	824805.1	2			2				2			2			2	
			824805.2		2				2				2			2		
			824805.3	3		2				2				2			2	
			824805.4		2			2				2			2			2
			824805.5	2	2		2			2				2			2	
			824805	2.333	2	2	2	2	2	2	2	2	2	2	2	2	2	2
BE	VIII	Project (Stage-II)	824807.1	2				2				2			2			2
			824807.2			2			2				2			2		
			824807.3	3			3				3				3			

Class	Semester	Name of the Subject	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
			824807.4		2					2			2			2		2
			824807.5	3			2				2			2			2	
			824807	2.667	2	2	2.5	2	2	2	2.5	2	2	2	2.5	2	2	2