



VASANTDADA SUGAR INSTITUTE, PUNE

Department of Alcohol Technology and Biofuels

ATTAINMENT LEVEL		
1	2	3
40	60	80

Course Outcome - Program Outcome Attainment Matrix

Academic Year: 2023-24

		Program: MSc WBAT				Sem: I					
		Course: Vineyard Technology					Course Code: WT 1.1				
		PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00	
Achieved PO	3.00	1.49	1.00	1.47	1.99	1.99	0.99	2.00	0.99	0.99	
% Achievement of PO	100.00	75.00	100.00	75.00	99.37	99.37	99.37	100.00	99.37	99.37	
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
		Course: Microbiology of Alcohol, Beer & Wine					Course Code: WT 1.2				
		PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00	
Achieved PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00	
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
		Course: Biochemistry of Alcohol, Beer & Wine					Course Code: WT 1.3				
		PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00	
Achieved PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00	
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
		Course: Practicals based on Microbiology					Course Code: WT 1.4				
		PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
Target for PO	3.00	2.00	1.50	1.50	2.25	1.75	1.00	2.00	1.00	1.00	
Achieved PO	3.00	2.00	1.50	1.50	2.25	1.75	1.00	2.00	1.00	1.00	
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
		Course: Research Methodology					Course Code: WT 1.5				
		PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00	
Achieved PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00	
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
		Course: Practicals based on Research Methodology					Course Code: WT 1.6				
		PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
Target for PO	2.75	1.50	1.50	1.50	1.75	2.25	1.25	2.00	1.00	1.00	
Achieved PO	2.75	1.50	1.50	1.50	1.75	2.25	1.25	2.00	1.00	1.00	
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	

[Signature]
Academic Incharge

[Signature]
Head of the Department

[Signature]
Principal



Principal



VASANTDADA SUGAR INSTITUTE, PUNE

Department of Alcohol Technology and Biofuels

ATTAINMENT LEVEL

1	2	3
40	60	80

Course Outcome - Program Outcome Attainment Matrix

Academic Year: 2023-24

Program: MSc WBAT

Sem: II

Course: Alcohol Technology-I

Course Code: WT 2.1

PO's

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
Achieved PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Course: Brewing Technology-I

Course Code: WT 2.2

PO's

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
Achieved PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Course: Enology-I

Course Code: WT 2.4

PO's

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
Achieved PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Course: Chemical and Plant Engineering-I

Course Code: WT 2.5

PO's

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
Achieved PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Course: Practicals Based Chemical and Plant Engineering-I

Course Code: WT 2.6

PO's

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	2.80	2.20	1.33	1.33	2.00	1.80	1.00	1.50	1.20	1.00
Achieved PO	2.75	2.20	1.33	1.33	1.80	1.80	1.00	1.50	1.20	1.00
% Achievement of PO	98.21	100.00	100.00	100.00	90.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Amrta
Academic Incharge

Skonde
Head of the Department

Rameshwar
Principal



Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307



VASANTDADA SUGAR INSTITUTE, PUNE

Department of Alcohol Technology and Biofuels

ATTAINMENT LEVEL

1	2	3
40	60	80

Course Outcome - Program Outcome Attainment Matrix

Academic Year: 2023-24

Program: MSc WBAT

Sem: III

Course: Alcohol Technology-II

Course Code: WT 3.1

PO's

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
Achieved PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Course: Brewing Technology II

Course Code: WT 3.2

PO's

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
Achieved PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Course: Enology-II

Course Code: WT 3.4

PO's


CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
Achieved PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

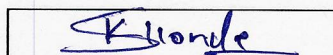
Course: Practicals Based on Marketing of alcoholic beverages

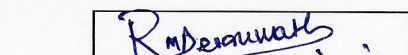
Course Code: WT 3.6

PO's

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	1.50	1.00	1.50	2.00	2.00	1.00	2.00	1.00	1.00
Achieved PO	3.00	1.42	1.00	1.34	1.92	1.92	0.96	2.00	0.96	0.96
% Achievement of PO	100.00	75.00	100.00	75.00	96.02	96.02	96.02	100.00	96.02	96.02
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00


Academic Incharge


Head of the Department


Principal



Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307



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Department of Alcohol Technology and Biofuels

ATTAINMENT LEVEL		
1	2	3
40	60	80

Course Outcome - Program Outcome Attainment Matrix

Academic Year: 2023-24

	Program: MSc WBAT					Sem: IV				
	Course: Industrial Waste Treatment					Course Code: WT 4.1				
	PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	1.50	1.00	1.50	2.00	2.25	1.25	2.00	1.00	1.00
Achieved PO	3.00	1.50	1.00	1.50	2.00	2.25	1.25	2.00	1.00	1.00
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	Course: Business Management					Course Code: WT 4.2				
	PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	2.75	1.50	1.00	1.50	1.75	2.00	1.50	2.00	1.00	1.50
Achieved PO	2.75	1.50	1.00	1.50	1.75	2.00	1.50	2.00	1.00	1.50
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	Course: Chemical and Plant Engineering-II					Course Code: WT 4.3				
	PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	2.75	1.75	1.50	2.00	2.50	2.00	1.00	3.00	1.25	1.75
Achieved PO	2.75	1.75	1.50	2.00	2.50	2.00	1.00	3.00	1.25	1.75
% Achievement of PO	100.00	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	Course: Project/In Plant Training					Course Code: WT 4.4				
	PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	2.80	1.33	2.00	2.75	2.80	1.00	2.25	1.20	1.00
Achieved PO	3.00	2.75	1.00	2.00	2.60	2.80	1.00	2.25	1.20	1.00
% Achievement of PO	100.00	98.21	75.00	100.00	94.55	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	Course: Alcohol Technology-III/Brewing Technology-III/Enology-III					Course Code: WT 4.5.1				
	PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	1.50	1.00	2.00	2.25	2.00	1.25	3.00	1.00	1.25
Achieved PO	3.00	1.35	1.00	1.56	2.03	1.85	1.18	3.00	0.93	1.18
% Achievement of PO	100.00	75.00	100.00	75.00	90.23	92.67	94.14	100.00	92.67	94.14
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	Course: Practicals based on Alcohol Technology					Course Code: WT 4.5.2				
	PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	2.20	2.00	1.75	2.00	2.00	1.00	1.50	1.20	1.00
Achieved PO	3.00	2.20	2.00	1.75	1.80	2.00	1.00	1.50	1.20	1.00
% Achievement of PO	100.00	100.00	100.00	100.00	90.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	Course: Practicals based on Brewing Technology					Course Code: WT 4.6.2				
	PO's									
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	2.80	2.20	2.00	1.40	2.00	1.80	1.00	1.50	1.20	1.00



Achieved PO	2.75	2.20	2.00	1.40	1.80	1.80	1.00	1.50	1.20	1.00
% Achievment of PO	98.21	100.00	100.00	100.00	90.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Course: Practicals based on Enology										
Course Code: WT 4.7.2										
PO's										
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Target for PO	3.00	2.60	2.00	2.00	2.00	1.80	1.00	1.50	1.20	1.00
Achieved PO	3.00	2.60	2.00	2.00	1.80	1.80	1.00	1.50	1.20	1.00
% Achievment of PO	100.00	100.00	100.00	100.00	90.00	100.00	100.00	100.00	100.00	100.00
Attainment Level of PO	3.00	3.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

[Signature]
Academic Incharge

[Signature]
Head of the Department

[Signature]
Principal



Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307