



**GARGI EDUCATION INSTITUTE'S
GARGI AGRICULTURE RESEARCH AND TRAINING
INSTITUTE NASHIK.**

Asia's First Wine, Brewing and Alcohol Technology College
Affiliated to Savitribai Phule Pune University

(Institute Id No. PU/NS/C/149/2009)

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F.Y BSC COMP SCIENCE

**CS-111: PROBLEMS SOLVING USING COMPUTER
AND 'C'**

Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.41	2.39	
CO-2	2.45	2.41	
CO-3	2.48	2.45	
Total	7.34/3=2.44	2.416666667	
50%	1.22	1.2	2.42

CS-112: DATABASE MANAGEMENT SYSTEM

Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.45	2.35	
CO-2	2.60	2.59	
CO-3	2.90	2.85	
Total	7.95/3=2.651	2.596666667	
50%	1.32	0.865	2.21



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**MTC - 111: MATRIX ALGEBRA
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.60	2.61	
CO-2	2.61	2.62	
CO-3	2.89	2.9	
Total	$8.1/3=2.7$	2.71	
50%	1.35	1.355	2.7

**MTC - 112: DISCRETE MATHEMATICS
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.35	2.36	
CO-2	2.38	2.39	
CO-3	2.80	2.82	
Total	$7.53/3=2.513$	$7.57/3=2.52$	
50%	1.25	1.26	2.51



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**ELC-111: SEMICONDUCTOR DEVICES AND BASIC
ELECTRONIC SYSTEM
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.55	2.54	
CO-2	2.56	2.55	
CO-3	2.63	2.61	
Total	$7.74/3=2.58$	2.566666667	
50%	1.29	1.28	2.57

**ELC - 112: PRINCIPAL OF DIGITAL ELECTRONICS
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.51	2.49	
CO-2	2.52	2.51	
CO-3	2.91	2.9	
Total	$7.94/3=2.647$	2.633333333	
50%	1.32	1.32	2.64



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**CSST-111: DESCRIPTIVE STATISTICS I
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.36	2.38	
CO-2	2.39	2.38	
CO-3	2.63	2.62	
Total	7.38/3=2.46	2.46	
50%	1.23	1.23	2.46

**CSST-112: MATHEMATICAL STATISTICS
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.61	2.59	
CO-2	2.62	2.58	
CO-3	2.86	2.84	
Total	8.09/3=2.69	2.67	
50%	1.34	1.33	2.67


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S.Y BSC COMPUTER SCIENCE

**CS-231 DATA STRUCTURES AND ALGORITHMS
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.52	2.51	
CO-2	2.54	2.53	
CO-3	2.58	2.57	
Total	2.546666667	2.536666667	
50%	1.27	1.268	2.538

**CS - 232 SOFTWARE ENGINEERING
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.55	2.51	
CO-2	2.58	2.53	
CO-3	2.59	2.57	
Total	2.573333333	2.536666667	
50%	1.28	1.26	2.54



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**MTC - 231 GROUP AND CODING THEORY
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	s
CO-1	2.61	2.62	
CO-2	2.63	2.64	
CO-3	2.62	2.65	
Total	2.62	2.636666667	
50%	1.31	1.31	2.62

**MTC - 232 NUMERICAL TECHNIQUES
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.64	2.51	
CO-2	2.63	2.53	
CO-3	2.62	2.57	
Total	2.63	2.536666667	
50%	1.31	1.26	2.57



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**ELC - 231 MICROCONTROLLER ARCHITECTURE &
PROGRAMMING
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.66	2.65	
CO-2	2.67	2.66	
CO-3	2.68	2.67	
Total	2.67	2.66	
50%	1.33	1.33	2.66

**ELC - 232 DIGITAL COMMUNICATION AND
NETWORKING
Total CO Attainment**

CO- Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.65	2.65	
CO-2	2.66	2.66	
CO-3	2.62	2.67	
Total	2.643333333	2.66	
50%	1.32	1.33	2.66



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**AECC - I ENVIRONMENT SCIENCE - I
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.62	2.61	
CO-2	2.63	2.62	
CO-3	2.64	2.63	
Total	2.63	2.62	
50%	1.31	1.31	2.62

**AECC - II LANGUAGE COMMUNICATION - I
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.43	2.42	
CO-2	2.48	2.47	
CO-3	2.45	2.44	
Total	2.453333333	2.443333333	
50%	1.22	1.22	2.44


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T.Y BSC COMPUTER SCIENCE

CS-354 FOUNDATION OF DATASCIENCE

Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.36	2.35	
CO-2	2.37	2.36	
CO-3	2.38	2.37	
Total	2.37	2.36	
50%	1.18	1.18	2.36

**CS-355 OBJECT ORIENTED PROGRAMMING
USING JAVA - I**

Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.39	2.38	
CO-2	2.33	2.32	
CO-3	2.34	2.33	
Total	2.353333333	2.343333333	
50%	1.17	1.17	2.34



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**CS-356 THEORETICAL COMPUTER SCIENCE
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.55	2.54	
CO-2	2.33	2.31	
CO-3	2.34	2.33	
Total	2.406666667	2.393333333	
50%	1.20	1.19	2.39

**CS-3510 PYTHON PROGRAMMING
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.45	2.44	
CO-2	2.48	2.47	
CO-3	2.49	2.48	
Total	2.473333333	2.463333333	
50%	1.23	1.23	2.46



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**CS-3511 BLOCKCHAIN TECHNOLOGY
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.49	2.48	
CO-2	2.53	2.52	
CO-3	2.55	2.54	
Total	2.523333333	2.513333333	
50%	1.26	1.25	2.51

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MSC I COMPUTER SCIENCE

**CS-501-MJ ADVANCED OPERATING SYSTEM
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	1.53	1.52	
CO-2	1.54	1.53	
CO-3	0.00	0.02	
CO-4	1.56	1.55	
CO-5	1.57	1.56	
CO-6	0.00	0.03	
Total	1.033333333	1.035	
50%	0.51	0.51	1.02

**CS-502-MJ ARTIFICIAL INTELLIGENCE
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	1.63	1.62	
CO-2	1.64	1.63	
CO-3	0.00	0.08	
CO-4	1.67	1.66	
CO-5	1.68	1.67	
CO-6	0.00	0.09	
Total	1.103333333	1.125	
50%	0.55	0.56	1.11



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**CS-503-MJ PRINCIPAL OF PROGRAMMING
LANGUAGE
Total CO Attainment**

CO- Number	Direct Assessment	Indirect Assessment	Total
CO-1	1.72	1.71	
CO-2	1.73	1.72	
CO-3	0.00	0.08	
CO-4	1.78	1.77	
CO-5	1.82	1.81	
CO-6	0.79	0.78	
Total	1.306666667	1.311666667	
50%	0.65	0.655	1.305

**CS-512-MJ CLOUD COMPUTING
Total CO Attainment**

CO- Number	Direct Assessment	Indirect Assessment	Total
CO-1	1.85	1.84	
CO-2	1.86	1.85	
CO-3	0.00	0.05	
CO-4	1.84	1.83	
CO-5	1.87	1.86	
CO-6	0.78	0.77	
Total	1.366666667	1.366666667	
50%	0.68	0.68	1.36



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**CS-531-RM RESEARCH METHODOLOGY
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	1.53	1.52	
CO-2	1.54	1.53	
CO-3	0.00	0.06	
CO-4	1.56	1.55	
CO-5	1.85	1.84	
CO-6	0.00	0.07	
Total	1.08	1.095	
50%	0.54	0.54	1.08


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MSC II COMPUTER SCIENCE

**CS-601-MJ SOFTWARE
ARCHITECTURE AND
DESIGN PATTERN
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	1.62	1.61	
CO-2	1.65	1.64	
CO-3	0.00	0.09	
CO-4	1.68	1.67	
CO-5	1.67	1.66	
CO-6	0.00	0.08	
Total	1.103333333	1.125	
50%	0.55	0.56	1.11

**CS-602-MJ MACHINE
LEARNING
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	1.58	1.57	
CO-2	1.59	1.58	
CO-3	0.00	0.08	
CO-4	1.66	1.65	
CO-5	1.55	1.54	
CO-6	0.76	0.75	
Total	1.19	1.195	
50%	0.59	0.59	1.18



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**CS-603-MJ - INTERNET OF THINGS
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	1.87	1.86	
CO-2	1.78	1.77	
CO-3	0.00	0.05	
CO-4	1.82	1.81	
CO-5	1.75	1.74	
CO-6	0.00	0.07	
Total	1.203333333	1.216666667	
50%	0.60	0.6	1.2

**CS-614-MJ - SOFT COMPUTING
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	1.63	1.62	
CO-2	1.64	1.63	
CO-3	0.00	0.05	
CO-4	1.75	1.74	
CO-5	1.78	1.77	
CO-6	0.75	0.74	
Total	1.258333333	1.258333333	
50%	0.62	0.62	1.24


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DEPARTMENT: COMMERCE

FIRST YEAR BACHELOR OF COMMERCE

121: Compulsory English (FY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.33	2.21	
2	CO2	2.69	2.02	
3	CO3	2.71	2.33	
4	CO4	2.6	2.19	
5	CO5	2.19	2.15	
Attainment		2.504	2.18	
weightage		80%	20%	
total attainment		2.0032	0.436	2.4392

122: Financial Accounting (FY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assesment	Indirect Assesment	Total
1	CO1	2.48	2.02	
2	CO2	2.55	2.33	
3	CO3	2.85	2.1	
4	CO4	2.67	2.17	
5	CO5	2.88	2.04	
Attainment		2.686	2.132	
weight age		80%	20%	
total attainment		1.743	1.166	2.909



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123: Business Economics (FY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.34	2.31	
2	CO2	2.23	2.22	
3	CO3	2.45	2.14	
4	CO4	2.63	2.03	
5	CO5	2.39	2.14	
Attainment		2.408	2.168	
weightage		80%	20%	
total attainment		1.604	1.184	2.788

124 B: computer concept & application (FY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.31	2.22	
2	CO2	2.29	2.13	
3	CO3	2.43	2.1	
4	CO4	2.49	2.29	
5	CO5	2.36	2.32	
Attainment		2.376	2.212	
weightage		80%	20%	
total attainment		1.588	1.206	2.794



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125 B: Banking & Finance (FY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.43	2.05	
2	CO2	2.68	2.02	
3	CO3	2.49	2	
4	CO4	2.66	2.16	
5	CO5	2.41	2.18	
Attainment		2.534	2.082	
weightage		80%	20%	
total attainment		1.667	1.141	2.808

126 C: Marketing & Salesmanship (FY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assessments	Indirect Assessment	Total
1	CO1	2.34	2.16	
2	CO2	2.22	2.17	
3	CO3	2.56	2.08	
4	CO4	2.39	2.2	
5	CO5	2.46	2.19	
Attainment		2.394	2.16	
weightage		80%	20%	
total attainment		1.597	1.18	2.777



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127 B: Marathi (FY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assessments	Indirect Assessment	Total
1	CO1	2.78	2.15	
2	CO2	2.67	2.31	
3	CO3	2.46	2.17	
4	CO4	2.65	2.06	
5	CO5	2.16	2.18	
Attainment		2.544	2.174	
weightage		80%	20%	
total attainment		1.672	1.187	2.859

127 C: Hindi (FY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assessments	Indirect Assessment	Total
1	CO1	2.63	2.07	
2	CO2	2.78	2.11	
3	CO3	2.28	2.25	
4	CO4	2.49	2	
5	CO5	2.67	2.16	
Attainment		2.57	2.118	
weightage		80%	20%	
total attainment		1.685	1.159	2.844



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241: BUSINESS COMMUNICATION (SY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.55	2.15	
2	CO2	2.35	2.1	
3	CO3	2.89	2	
4	CO4	2.8	2.37	
5	CO5	2.65	2.05	
Attainment		2.648	2.134	
weightage		80%	20%	
total attainment		1.724	1.167	2.891

242: CORPORATE ACCOUNTING (SY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.56	2.25	
2	CO2	2.41	2.37	
3	CO3	2.68	2.18	
4	CO4	2.74	2.07	
5	CO5	2.55	2.03	
Attainment		2.588	2.18	
weightage		80%	20%	
total attainment		1.694	1.19	2.884



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243: BUSINESS ECONOMICS (SY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.56	2.14	
2	CO2	2.49	2.33	
3	CO3	2.38	2.4	
4	CO4	2.67	2.1	
5	CO5	2.79	2.02	
Attainment		2.578	2.198	
weightage		80%	20%	
total attainment		1.689	1.199	2.888

244: BUSINESS MANAGEMENT (SY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.79	2.18	
2	CO2	2.16	2.09	
3	CO3	2.45	2.12	
4	CO4	2.55	2.49	
5	CO5	2.68	2.13	
Attainment		2.526	2.202	
weightage		80%	20%	
total attainment		1.663	1.201	2.864



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245: ELEMENTS OF COMPANY LAW (SY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.46	2.18	
2	CO2	2.69	2.22	
3	CO3	2.57	2.35	
4	CO4	2.66	2.02	
5	CO5	2.72	2.19	
Attainment		2.62	2.192	
weightage		80%	20%	
total attainment		1.71	1.196	2.906

246 A: BUSINESS ADMINISTRATION (SY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.56	2.07	
2	CO2	2.89	2.19	
3	CO3	2.45	2.06	
4	CO4	2.33	2.22	
5	CO5	2.51	2.16	
Attainment		2.548	2.14	
weightage		80%	20%	
total attainment		1.674	1.17	2.844



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246 B : BANKING & FINANCE (SY.B.COM)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.65	2.19	
2	CO2	2.49	2.33	
3	CO3	2.77	2.01	
4	CO4	2.66	2.21	
5	CO5	2.54	2.08	
Attainment		2.622	2.164	
weightage		80%	20%	
total attainment		1.711	1.182	2.893

246 E: COST & WORK ACCOUNTING (SY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.66	2.15	
2	CO2	2.39	2.06	
3	CO3	2.78	2.21	
4	CO4	2.48	2.14	
5	CO5	2.52	2.1	
Attainment		2.566	2.132	
weightage		80%	20%	
total attainment		1.683	1.166	2.849



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361: BUSINESS REGULATORY FRAMEWORK (TY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.65	2.19	
2	CO2	2.75	2.06	
3	CO3	2.45	2.15	
4	CO4	2.31	2.22	
5	CO5	2.33	2.29	
Attainment		2.498	2.182	
weightage		80%	20%	
total attainment		1.649	1.191	2.84

362: ADVANCED ACCOUNTING (TY.B.COM)

CO Attainment				
Sr.No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.51	2.22	
2	CO2	2.49	2.16	
3	CO3	2.72	2.09	
4	CO4	2.45	2.05	
5	CO5	2.35	2.12	
Attainment		2.504	2.128	
weightage		80%	20%	
total attainment		1.652	1.164	2.816



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363 A: INDIAN & GLOBAL ECONOMICS (TY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.69	2.19	
2	CO2	2.5	2.46	
3	CO3	2.41	2.39	
4	CO4	2.39	2.4	
5	CO5	2.61	2.06	
Attainment		2.52	2.3	
weightage		80%	20%	
total attainment		1.66	1.25	2.91

364: AUDITING & TAXATION (TY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.39	2.09	
2	CO2	2.45	2.16	
3	CO3	2.66	2.25	
4	CO4	2.71	2.13	
5	CO5	2.31	2.05	
Attainment		2.504	2.136	
weightage		80%	20%	
total attainment		1.652	1.168	2.82



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365 A: BUSINESS ADMINISTRATION- II (TY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessments	Indirect Assessments	Total
1	CO1	2.41	2.08	
2	CO2	2.72	2.16	
3	CO3	2.55	2.06	
4	CO4	2.49	2.22	
5	CO5	2.31	2.03	
Attainment		2.496	2.11	
weightage		80%	20%	
total attainment		1.648	1.155	2.803

365 B : BANKING & FINANCE- II (TY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.46	2.19	
2	CO2	2.53	2.25	
3	CO3	2.71	2.31	
4	CO4	2.53	2.12	
5	CO5	2.44	2.08	
Attainment		2.534	2.19	
weightage		80%	20%	
total attainment		1.667	1.195	2.862



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365 E: COST & WORK ACCOUNTING - II (TY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.5	2.16	
2	CO2	2.75	2.04	
3	CO3	2.68	2.13	
4	CO4	2.35	2.06	
5	CO5	2.55	2.2	
Attainment		2.566	2.118	
weightage		80%	20%	
total attainment		1.683	1.159	2.842

366 A: BUSINESS ADMINISTRATION- III (TY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.69	2.13	
2	CO2	2.75	2.21	
3	CO3	2.55	2.03	
4	CO4	2.43	2.11	
5	CO5	2.33	2.17	
Attainment		2.55	2.13	
weightage		80%	20%	
total attainment		1.675	1.165	2.84



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366 B: BANKING & FINANCE- III (TY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.66	2.13	
2	CO2	2.49	2.21	
3	CO3	2.58	2.06	
4	CO4	2.47	2.17	
5	CO5	2.35	2.02	
Attainment		2.51	2.118	
weightage		80%	20%	
total attainment		1.655	1.159	2.814

366 E : COST & WORK ACCOUNTING - III (TY.B.COM)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.39	2.07	
2	CO2	2.55	2.19	
3	CO3	2.48	2.12	
4	CO4	2.61	2.21	
5	CO5	2.33	2.01	
Attainment		2.472	2.12	
weightage		80%	20%	
total attainment		1.636	1.16	2.796




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DEPARTMENT: COMMERCE

FIRST YEAR MASTER OF COMMERCE

221: FINANCIAL ANALYSIS & CONTROL (M.COM - I)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.35	2.15	
2	CO2	2.48	2.07	
3	CO3	2.38	2.12	
4	CO4	2.97	2.21	
Attainment		2.545	2.1375	
weightage		80%	20%	
total attainment		1.6725	1.16875	2.84125

222 A: Industrial Economics (M.COM - I)

CO Attainment				
Sr.No	CO Number	Direct Assessments	Indirect Assessment	Total
1	CO1	2.37	2.15	
2	CO2	2.78	2.02	
3	CO3	2.62	2.21	
4	CO4	2.59	2.35	
Attainment		2.59	2.1825	
weightage		80%	20%	
total attainment		1.695	1.19125	2.88625



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233- Ethics & Professional Values (M.COM - I)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.41	2.08	
2	CO2	2.69	2.18	
3	CO3	2.73	2.24	
4	CO4	2.57	2.38	
5	CO5	2.68	2	
Attainment		2.616	2.176	
weightage		80%	20%	
total attainment		1.708	1.188	2.896

234- Elements of Knowledge Management (M.COM - I)

CO Attainment				
Sr.No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.44	2.07	
2	CO2	2.78	2.17	
3	CO3	2.67	2.28	
4	CO4	2.89	2	
5	CO5	2.51	2.15	
Attainment		2.658	2.134	
weightage		80%	20%	
total attainment		1.729	1.167	2.896



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421- Capital Market & Financial Services (M.COM-II)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.45	2.1	
2	CO2	2.36	2.25	
3	CO3	2.49	2.19	
4	CO4	2.75	2.04	
Attainment		2.5125	2.145	
weightage		80%	20%	
total attainment		1.65625	1.1725	2.82875

422 A- Industrial Economics Development (M.COM-II)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.77	2.13	
2	CO2	2.68	2.31	
3	CO3	2.54	2.19	
4	CO4	2.75	2.12	
Attainment		2.685	2.1875	
weightage		80%	20%	
total attainment		1.7425	1.19375	2.93625



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427- Recent Advances in Cost Auditing & Cost System (M.COM - II)

CO Attainment				
Sr.No	CO Number	Direct Assessment	Indirect Assessments	Total
1	CO1	2.75	2.06	
2	CO2	2.46	2.18	
3	CO3	2.67	2	
4	CO4	2.62	2.34	
5	CO5	2.45	2.1	
Attainment		2.59	2.136	
weightage		80%	20%	
total attainment		1.695	1.168	2.863

428- Project Work/ Case study (M.COM-II)

CO Attainment				
Sr.No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.75	2.06	
2	CO2	2.46	2.18	
3	CO3	2.67	2	
4	CO4	2.62	2.34	
5	CO5	2.45	2.1	
Attainment		2.59	2.136	
weightage		80%	20%	
total attainment		1.695	1.168	2.863



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433- Recent Advances in Business Administration (M.COM-II)

CO Attainment				
Sr.No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.78	2.17	
2	CO2	2.45	2.18	
3	CO3	2.67	2.3	
4	CO4	2.34	2.05	
5	CO5	2.71	2.14	
Attainment		2.59	2.168	
weightage		80%	20%	
total attainment		1.695	1.184	2.879

434- Project Work/ Case study (M.COM - II)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.64	2.12	
2	CO2	2.56	2.1	
3	CO3	2.76	2.19	
4	CO4	2.66	2.22	
5	CO5	2.46	2.02	
Attainment		2.616	2.13	
weightage		80%	20%	
total attainment		1.708	1.165	2.873


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DEPARTMENT: WBAT

FIRST YEAR BACHELOR OF SCIENCE

WBAT-111: Basic Microbiology Paper I (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	1.35	1	
2	CO2	1.54	1.5	
3	CO3	1.25	1	
Attainment		1.38	1.1666667	
weightage		80%	20%	
total attainment		1.104	0.2333333	1.337333333

WBAT-112: Industrial Microbiology Paper I (FY.B. Sc)

CO AttainmentB9:F16				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	1.45	1.5	
2	CO2	1.45	1.5	
3	CO3	1.35	1	
Attainment		1.42	1.333333333	
weightage		80%	20%	
total attainment		1.133333333	0.266666667	1.4



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DEPARTMENT: WBAT

FIRST YEAR BACHELOR OF SCIENCE

WBAT-111: Basic Microbiology Paper I (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	1.35	1	
2	CO2	1.54	1.5	
3	CO3	1.25	1	
Attainment		1.38	1.1666667	
weightage		80%	20%	
total attainment		1.104	0.2333333	1.33733333

WBAT-112: Industrial Microbiology Paper I (FY.B. Sc)

CO AttainmentB9:F16				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	1.45	1.5	
2	CO2	1.45	1.5	
3	CO3	1.35	1	
Attainment		1.42	1.33333333	
weightage		80%	20%	
total attainment		1.13333333	0.26666667	1.4



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WBAT-113: Introduction to Botany (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	0.67	1	
2	CO2	0.67	1	
3	CO3	0.77	1	
Attainment		0.70	1	
weightage		80%	20%	
total attainment		0.562666667	0.2	0.76267

WBAT-114: Plant Development and Anatomy (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	0.77	1	
2	CO2	0.77	1	
3	CO3	0.77	1	
Attainment		0.77	1	
weightage		80%	20%	
total attainment		0.616	0.2	0.816



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WBAT-115: Basic Biochemistry Paper I (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.80	3	
2	CO2	2.80	3	
3	CO3	2.61	2.5	
Attainment		2.74	2.833333333	
weightage		80%	20%	
total attainment		2.189333333	0.566666667	2.756

WBAT-116: Metabolic Pathways Paper (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	1.16	1	
2	CO2	1.16	1	
3	CO3	1.93	1.5	
Attainment		1.42	1.166666667	
weightage		80%	20%	
total attainment		1.133333333	0.233333333	1.36667



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WBAT-117: Wine Technology (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	0.77	1	
2	CO2	1.74	1.5	
3	CO3	2.41	2	
Attainment		1.64	1.5	
weightage		80%	20%	
total attainment		1.312	0.3	1.612

WBAT-118: Sensory Evaluation of wine paper I (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.03	2	
2	CO2	2.03	2	
3	CO3	1.93	2	
Attainment		2.00	2	
weightage		80%	20%	
total attainment		1.597333333	0.4	1.99733



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WBAT-121: Basic Microbiology Paper II (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.80	2.5	
2	CO2	2.80	2.5	
3	CO3	2.03	2	
Attainment		2.54	2.333333333	
weightage		80%	20%	
total attainment		2.034666667	0.466666667	2.50133

WBAT-122: Industrial Microbiology Paper II (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.61	2.5	
2	CO2	2.61	2.5	
3	CO3	2.41	2	
Attainment		2.54	2.333333333	
weightage		80%	20%	
total attainment		2.034666667	0.466666667	2.50133



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WBAT-123: Plant Physiology (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	0.87	1	
2	CO2	0.87	1	
3	CO3	0.77	1	
Attainment		0.84	1	
weightage		80%	20%	
total attainment		0.669333333	0.2	0.86933

WBAT-124: Applied Botany (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	1.61	1.5	
2	CO2	1.61	1.5	
3	CO3	1.64	1.5	
Attainment		1.62	1.5	
weightage		80%	20%	
total attainment		1.296	0.3	1.596



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WBAT-125: Basic Biochemistry Paper II (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.22	2	
2	CO2	2.22	2	
3	CO3	1.83	2.5	
Attainment		2.09	2.166666667	
weightage		80%	20%	
total attainment		1.672	0.433333333	2.10533

WBAT-126: Metabolic Pathways Paper II (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.61	2.5	
2	CO2	2.61	2.5	
3	CO3	1.74	1.5	
Attainment		2.32	2.166666667	
weightage		80%	20%	
total attainment		1.856	0.433333333	2.28933



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WBAT-127: Introduction to Beer, Wine and Alcohol Technology (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.03	2	
2	CO2	2.03	2	
3	CO3	2.03	2	
Attainment		2.03	2	
weightage		80%	20%	
total attainment		1.624	0.4	2.024

WBAT-128: Sensory evaluation of wine paper-II (FY.B. Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.70	2.5	
2	CO2	2.70	2.5	
3	CO3	2.70	2.5	
Attainment		2.70	2.5	
weightage		80%	20%	
total attainment		2.16	0.5	2.66




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DEPARTMENT: WINE TECHNOLOGY

SECOND YEAR BACHELOR OF SCIENCE (2022-23)

SEM - III

WBAT- 231: YEAST TECHNOLOGY PAPER -I (S.Y.B.Sc.)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.19	2.03	
2	CO2	1.96	1.9	
3	CO3	1.85	1.8	
Attainment		2	1.91	
weightage		80%	20%	
total attainment		1.6	0.382	1.982

WBAT-232: FERMENTATION TECHNOLOGY PAPER-I (S.Y.B.Sc.)

CO Attainment				
Sr. No.	CO Number	Direct Assesment	Indirect Assesment	Total
1	CO1	1.96	1.9	
2	CO2	1.96	1.9	
3	CO3	1.85	1.8	
Attainment		1.92	1.87	
weight age		80%	20%	
total attainment		1.536	0.374	1.91



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WBAT- 233: BREWING TECHNOLOGY PAPER-I (S.Y.B.Sc.)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.19	2.04	
2	CO2	1.62	1.5	
3	CO3	1.85	1.8	
Attainment		1.89	1.78	
weightage		80%	20%	
total attainment		1.512	0.356	1.868

WBAT-234 ALCOHOL TECHNOLOGY PAPER-II (S.Y.B.Sc.)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.54	2.5	
2	CO2	2.08	1.95	
3	CO3	1.85	1.8	
Attainment		2.16	2.08	
weightage		80%	20%	
total attainment		1.728	0.416	2.144



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WBAT- 235: BIOCHEMISTRY PAPER-III (S.Y.B.Sc)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.54	2.5	
2	CO2	2.42	2.4	
3	CO3	2.31	2.2	
Attainment		2.42	2.37	
weightage		80%	20%	
total attainment		1.936	0.474	2.41

WBAT- 236: VINEYARD TECHNOLOGY PAPER -I (S.Y.B.Sc.)

CO Attainment				
Sr. No.	CO Number	Direct Assessments	Indirect Assessment	Total
1	CO1	2.08	1.95	
2	CO2	1.73	1.7	
3	CO3	1.73	1.6	
Attainment		1.85	1.75	
weightage		80%	20%	
total attainment		1.48	0.35	1.83



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WBAT-237: ENVIRONMENTAL AWARENESS (S.Y.B.Sc.)

CO Attainment				
Sr. No.	CO Number	Direct Assessments	Indirect Assessment	Total
1	CO1	1.85	1.8	
2	CO2	1.04	1.0	
3	CO3	1.04	0.98	
Attainment		1.31	1.26	
weightage		80%	20%	
total attainment		1.048	0.252	1.3

WBAT- 238: ENGLISH COMMUNICATION (S.Y.B.Sc)

CO Attainment				
Sr. No.	CO Number	Direct Assessments	Indirect Assessment	Total
1	CO1	2.42	2.3	
2	CO2	1.85	1.8	
3	CO3	1.73	1.7	
Attainment		2	1.93	
weightage		80%	20%	
total attainment		1.6	0.386	1.986



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DEPARTMENT: WINE TECHNOLOGY

SECOND YEAR BACHELOR OF SCIENCE (2022-23)

SEM - IV

WBAT- 241: YEAST TECHNOLOGY (S.Y.B.Sc.)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.42	2.3	
2	CO2	2.30	2.3	
3	CO3	1.85	1.8	
Attainment		2.19	2.13	
weightage		80%	20%	
total attainment		1.752	0.426	2.178

WBAT- 242: FERMENTATION TECHNOLOGY-II (S.Y.B.Sc)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.19	2.06	
2	CO2	2.19	2.08	
3	CO3	1.50	1.5	
Attainment		1.96	1.88	
weightage		80%	20%	
total attainment		1.568	0.376	1.944



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WBAT- 243: WINE TECHNOLOGY-I (S.Y.B.Sc.)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.42	2.3	
2	CO2	2.19	2.1	
3	CO3	2.08	1.98	
Attainment		2.23	2.13	
weightage		80%	20%	
total attainment		1.784	0.426	2.21

WBAT-244: WINE TECHNOLOGY-II (S.Y.B.Sc.)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.65	2.6	
2	CO2	2.42	2.4	
3	CO3	2.31	2.2	
Attainment		2.46	2.4	
weightage		80%	20%	
total attainment		1.968	0.48	2.448



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WBAT- 245: WASTE TREATMENT-I (S.Y.B.Sc.)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.08	1.98	
2	CO2	1.85	1.8	
3	CO3	1.62	1.6	
Attainment		1.85	1.79	
weightage		80%	20%	
total attainment		1.48	0.358	1.838

WBAT- 246: WINE TECHNOLOGY- II (S.Y.B.Sc.)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	1.38	1.3	
2	CO2	1.04	1.0	
3	CO3	0.92	0.9	
Attainment		1.11	1.07	
weightage		80%	20%	
total attainment		0.888	0.214	1.102



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WBAT- 247: ENVIRONMENTAL AWARENESS (S.Y.B.Sc.)

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	1.85	1.8	
2	CO2	1.96	1.9	
3	CO3	1.50	1.5	
Attainment		1.77	1.73	
weightage		80%	20%	
total attainment		1.416	0.346	1.762

WBAT-248: ENGLISH COMMUNICATION (S.Y.B.Sc.)

CO Attainment				
Sr. No	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.77	2.7	
2	CO2	2.65	2.6	
3	CO3	2.19	2.1	
Attainment		2.54	2.47	
weightage		80%	20%	
total attainment		2.032	0.494	2.526

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DEPARTMENT: SCIENCE(WINE TECHNOLOGY)

FIRST YEAR MASTER OF WINE, BREWING AND ALCOHOL TECHNOLOGY

SEM-I

WT-1.1: Viticulture

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	3.00	2.9	
2	CO2	3.00	2.9	
3	CO3	2.94	2.9	
4	CO4	2.94	2.8	
5	CO5	2.81	2.8	
6	CO6	2.88	2.8	
Attainment		2.93	2.85	
weightage		80%	20%	
total attainment		2.34	0.57	2.91

WT-1.2 Microbiology of alcohol, beer and wine

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.44	2.5	
2	CO2	2.06	2	
3	CO3	1.94	2	
4	CO4	1.75	2	
5	CO5	1.88	2.2	
6	CO6	1.88	2.1	
Attainment		1.99	2.13	
weightage		80%	20%	
total attainment		1.6	0.43	2.03



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WT-1.3 Biochemistry of alcohol, beer and wine

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.44	2	
2	CO2	2.31	2.4	
3	CO3	2.44	2.5	
4	CO4	2.31	2.4	
5	CO5	2.13	2.2	
6	CO6	2.13	2.2	
Attainment		2.29	2.83	2.4
weightage		80%	20%	
total attainment		1.83	0.57	

WT-1.5 Fermentation Technology

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.91	2.9	
2	CO2	2.54	2.5	
3	CO3	2.87	2.5	
Attainment		2.77	2.63	
weightage		80%	20%	2.75
total attainment		2.22	0.53	



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SEM-II

WT-2.1 Alcohol Technology-I

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.00	2	
2	CO2	2.38	2.4	
3	CO3	1.88	2	
4	CO4	1.88	2	
5	CO5	1.69	1.9	
6	CO6	1.63	1.9	
Attainment		1.91	2.03	
weightage		80%	20%	
total attainment		1.53	0.41	1.94

WT-2.2 Brewing Technology-I

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.19	2	
2	CO2	2.44	2.4	
3	CO3	2.25	2	
4	CO4	2.25	2	
5	CO5	2.13	2	
6	CO6	2.06	2	
Attainment		2.22	2.07	
weightage		80%	20%	
total attainment		1.78	0.41	2.19



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WT-2.3 Enology-I

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.44	2.4	
2	CO2	2.56	2.4	
3	CO3	2.38	2.4	
4	CO4	2.13	2	
5	CO5	2.19	2	
6	CO6	2.06	2	
Attainment		2.29	2.2	2.27
weightage		80%	20%	
total attainment		1.83	0.44	

WT-2.5 Chemical and Plant Engineering

CO Attainment				
Sr. No.	CO Number	Direct Assessment	Indirect Assessment	Total
1	CO1	2.88	2.5	
2	CO2	2.69	2.5	
3	CO3	2.63	2.5	
Attainment		2.73	2.5	
weightage		80%	20%	2.68
total attainment		2.18	0.5	




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DEPARTMENT: WBAT

MASTER OF SCIENCE PART-II

WT 3.1 ALCOHOL TECHNOLOGY II

Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.59	2.36	
CO-2	2.35	2.3	
CO-3	2.43	2.4	
CO-4	2.10	2.1	
CO-5	2.02	2.01	
CO-6	1.54	1.51	
Total	13.03/6=2.17	12.68/6=2.11	
50%	1.08	1.05	2.13

WT. 3.2 BREWING TECHNOLOGY II

Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.43	2.4	
CO-2	2.51	2.5	
CO-3	2.43	2.4	
CO-4	2.59	2.5	
CO-5	2.51	2.5	
CO-6	2.03	2.03	
Total	14.5/6 = 2.41	14.33/6 = 2.38	
50%	1.20	1.19	2.39



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WT.3.3 ENOLOGY II Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.43	2.4	
CO-2	2.51	2.5	
CO-3	2.51	2.5	
CO-4	2.59	2.5	
CO-5	2.59	2.5	
CO-6	2.43	2.4	
Total	15.06/6= 2.51	14.8/6 =2.46	
50%	1.25	1.23	2.48

WT 3.5 MARKETING OF ALCOHOLIBEVERAGES.

Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	3.00	2.5	
CO-2	2.67	2.6	
CO-3	1.54	1.5	
Total	7.21/3 = 2.40	6.6/3= 2.2	
50%	1.20	1.1	2.3



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WT 4.1 INDUSTRIAL WASTE TREATMENT AND ENVIRONMENTAL MANAGEMENT Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.36	2.3	
CO-2	2.44	2.4	
CO-3	2.36	2.3	
CO-4	2.52	2.5	
CO-5	2.44	2.4	
CO-6	1.97	1.98	
Total	14.09/6 = 2.34	13.88/6 = 2.31	
50%	1.17	1.15	2.32

WT.4.2 BUSINESS MANAGEMENT Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	2.76	2.7	
CO-2	2.68	2.6	
CO-3	2.68	2.6	
CO-4	2.84	2.8	
CO-5	2.68	2.6	
CO-6	2.68	2.6	
Total	16.32/6 = 2.72	15.9/6 = 2.65	
50%	1.36	1.32	2.68



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**WT4.3 CHEMICAL AND PLANT ENGINEERING II
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	1.10	1.1	
CO-2	1.02	1	
CO-3	0.86	0.8	
CO-4	0.63	0.6	
CO-5	0.71	0.7	
CO-6	0.94	0.9	
Total	$5.26/6 = 0.87$	$5.10/6 = 0.85$	
50%	0.43	0.42	0.85

**WT.4.5.1. ALCOHOL TECHNOLOGY III
Total CO Attainment**

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	0.71	0.7	
CO-2	0.71	0.7	
CO-3	0.78	0.75	
Total	$2.2/3 = 0.73$	$2.15/3 = 0.72$	
50%	0.36	0.36	0.72



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WT. 4.6.1. BREWING TECHNOLOGY III

Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	1.29	1.25	
CO-2	1.29	1.25	
CO-3	1.21	1.2	
Total	$3.79/3 = 1.26$	$3.7/3 = 1.23$	
50%	0.63	0.61	1.24

WT.4.7.1. ENOLOGY III

Total CO Attainment

CO-Number	Direct Assessment	Indirect Assessment	Total
CO-1	0.78	0.75	
CO-2	0.71	0.71	
CO-3	0.63	0.6	
Total	$2.12/3 = 0.70$	$2.06/3 = 0.68$	
50%	0.35	0.34	0.69



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