

U.P. TECHNICAL UNIVERSITY, LUCKNOW

REVISED STUDY AND EVALUATION SCHEME

B.Tech. First Year (Common to all Branches)

EFFECTIVE FROM THE SESSION: 2004-05

B.Tech. Oil Technology

Year: 1 Semester- I

S.No	Course No.	Subject	Periods			Evaluation Schemes				Subject Total
						Sessional Exam.			Exam. ESE	
			L	T	P	CT	TA	Total		
THEORY SUBJECTS										
1.	TAS-101/ TAS-102	Physics/Chemistry	03	01	00	30	20	50	100	150
2.	TAS-103	Professional Communication	03	01	00	30	20	50	100	150
3.	TAS-104	Mathematics-I	03	01	00	30	20	50	100	150
4.	TEE-101/ TME-101	Electrical Engineering/ Mechanical Engineering	03	01	00	30	20	50	100	150
5.	TEC-101/ TIT-101	Electronics Engineering/ Information Technology	03	01	00	30	20	50	100	150
PRACTICAL / DESIGN / DRAWING										
6.	TAS-151/ TAS-152	Physics/ Chemistry	0	0	02	10	10	20	30	50
7.	TEE-151/ TME-151	Electrical Engineering/ Mechanical Engineering	0	0	02	10	10	20	30	50
8.	TCS-151/ TWS-151	Computer Programming Lab / Workshop Practice	0	1	02	10	10	20	30	50
9.	TCE-151	Engineering Graphics	0	0	03	10	10	20	30	50
10.	GP 101	General Proficiency	-	-	-	-	-	50	-	50
		Total	15	6	9	-	-	350	650	1000

B.Tech. Oil Technology

Year: 1 Semester- II

S.No	Course No.	Subject	Periods			Evaluation Schemes				Subject Total
						Sessional Exam.			Exam. ESE	
			L	T	P	CT	TA	Total		
THEORY SUBJECTS										
1.	TES-201	Environmental Studies	03	01	00	30	20	50	100	150
2.	TAS-202/ TAS-201	Chemistry/ Physics	03	01	00	30	20	50	100	150
3.	TAS-204	Mathematics-II	03	01	00	30	20	50	100	150
4.	TME-201/ TEE-201	Mechanical Engineering/ Electrical Engineering	03	01	00	30	20	50	100	150
5.	TIT-201/ TEC-201	Information Technology/ Electronics Engineering	03	01	00	30	20	50	100	150
PRACTICAL / DESIGN / DRAWING										
6.	TAS-252/ TAS-251	Chemistry/ Physics	0	0	02	10	10	20	30	50
7.	TME-251/ TEE-251	Mechanical Engineering/ Electrical Engineering	0	0	02	10	10	20	30	50
8.	TWS-251/ TCS-251	Workshop Practice / Computer Programming Lab	0	1	02	10	10	20	30	50
9.	TAS-253	Communication Lab (English)	0	0	03	30*	20*	50	-	50
10.	GP 201	General Proficiency	-	-	-	-	-	50	-	50
		Total	15	6	9	-	-	410	590	1000

CT - Cumulative test, TA -Teacher Assessment, ESE - End Semester Examination

- - Day to day evaluation

Sl. No.	Course Code	Subject	Periods			Evaluation Scheme				Subject Total
			L	T	P	Sessionals			ESE	
THEORY SUBJECTS			L	T	P	CT	TA	Total	ESE	
1.	* TAS – 301	Mathematics – III	3	1	0	30	20	50	100	150
2.	**T CY – 301	Chemistry – I	3	1	0	30	20	50	100	150
3.	***T CH – 307	Fluid Flow and Solid Handling	3	1	0	30	20	50	100	150
4.	TOT – 301	Chemistry of Oils & Allied Products	3	1	0	30	20	50	100	150
5.	***TME-307	Mechanics of Solids	3	1	0	30	20	50	100	150
Practicals										
6.	***TCH-357	Fluid Mechanics lab	0	0	3	10	10	20	30	50
7.	** TCY – 351	Chemistry – I Lab.	0	0	3	10	10	20	30	50
8.	TOT- 351	Oil Analysis Lab	0	0	6	20	20	40	60	100
9.	GP-301	General Proficiency						50	-	50
Grand Total										1000

* Common to all engineering and chemical Technology Branches; ** Common to Chemical Engineering and Chemical Technology; *** Common to all Branches of Chemical Technology

S. No.	Course code	Subject	Periods			Evaluation Scheme				Subject Total
			L	T	P	Sessionals			Exam.	
						CT	TA	Total	ESE	
THEORY SUBJECTS										
1.	**T AS-401	Computer Based Numerical Methods	3	1	0	30	20	50	100	150
2.	**TCY-401	Chemistry-II	3	1	0	30	20	50	100	150
3.	**TCH-401	Heat Transfer Operations	3	1	0	30	20	50	100	150
4.	**TCH-407	Industrial Fuels and Process Calculations	3	1	0	30	20	50	100	150
5.	TOT-401	Sources, Composition, & Characteristics of Oils, Fats & Waxes	3	1	0	30	20	50	100	150
Practicals										
6.	** TAS-451	Numerical Techniques Lab	0	0	3	10	10	20	30	50
7.	**TCY-451	Chemistry-II Lab	0	0	3	10	10	20	30	50
8.	TOT-451	Oil Characterization Lab	0	0	6	20	20	40	60	100
9.	GP-401	General Proficiency						50	--	50
Grand Total										1000

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**Common to Chemical Engineering and Chemical Technology Branches.

***Common to Chemical Technology Branches.

S.No.	Course Code	Subject	Evaluation Scheme							
			Period			Sessionals			Exam.	Sub Total
THEORY SUBJECTS			L	T	P	TA	CT	Total	ESE	
1.	*THU – 501	Industrial Economics & Principles of Management	3	1	0	30	20	50	100	150
2.	**TCH – 506	Mass Transfer Operations –I	3	1	0	30	20	50	100	150
3.	TOT – 501	Essential Oils & Cosmetics	3	1	0	30	20	50	100	150
4.	TOT – 502	Post Harvest Technology of Oil bearing Materials	3	1	0	30	20	50	100	150
5.	TOT – 503	Technology of Soaps & Fat Splitting	3	1	0	30	20	50	100	150
Practicals										
6.	TOT – 551	Analysis of Soap Products	0	0	6	20	20	40	60	100
7.	TOT – 552	Oil & Allied Products Formulation Lab	0	0	6	20	20	40	60	100
8.	GP – 501	General Proficiency						50		50
									Grand Total	1000

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***Common to Chemical Technology Branches.

B.Tech. Oil Technology

Year: III Semester- VI

S.No.	Course Code	Subject	Evaluation Scheme							
			Period			Sessionals			Examination	Sub Total
THEORY SUBJECTS			L	T	P	TA	CT	Total	ESE	
1.	***TCH-606	Chemical Engineering Thermodynamics	3	1	0	30	20	50	100	150
2.	**TCH-607	Mass Transfer Operations –II	3	1	0	30	20	50	100	150
3.	TOT – 601	Solvent Extraction of Oilseeds and Oil Bearing Materials	3	1	0	30	20	50	100	150
4.	TME-609	Machine Design	3	1	0	30	20	50	100	150
5.	TOT – 602	Refining of Oils	3	1	0	30	20	50	100	150
Practicals										
6.	***TCH–655	Chemical Engineering Operations lab	0	0	3	10	10	20	30	50
7.	TOT – 651	Detergent Product Preparation and Analysis Lab	0	0	6	20	20	40	60	100
8.	TOT– 652	Seminar	0	0	3	50	-	50	-	50
9.	GP – 601	General Proficiency						50	-	50
									Grand Total	1000

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***Common to Chemical Technology Branches.

			Evaluation Scheme							
S.No	Course Code	Subject	Periods			Sessionals			Exam.	Sub Total
THEORY SUBJECTS			L	T	P	TA	CT	Total	ESE	
1	TOT-701	Modified oils and fats	3	1	0	30	20	50	100	150
2.	TOT – 702	Surfactants & Synthetic Detergents	3	1	0	30	20	50	100	150
3.	***TCH-706	Instrumentation and Process Control	3	1	0	30	20	50	100	150
4.	***TCH-707	Chemical Reaction Engineering	3	1	0	30	20	50	100	150
5.	##TOE-39	Open Elective – Oil Technology	3	1	0	30	20	50	100	150
Practicals										
6	TOT-751	Oil Processing Lab	0	0	6	20	20	40	60	100
7.	TOT-752	Project(Term Work)	0	0	3	25	25	50		50
8.	TOT-753	Industrial Training	0	0	3	25	25	50		50
9	GP-701	General Proficiency	0	0	3			50		50
									Grand Total	1000

*Common to all Engineering and Chemical Technology Branches.

**Common to Chemical Engineering and Chemical Technology Branches.

***Common to Chemical Technology Branches.

For Branches other than Oil Technology

			Evaluation Scheme							
S.No	Course Code	Subject	Periods			Sessionals			Examination	Sub Total
THEORY SUBJECTS			L	T	P	CT	TA	Total	ESE	
1.	TOT-011 TOT-012 TOT-013 TOT-014	Elective Petroleum& Its Products Packaging of oils,Fats and Allied Products Technological Advances in Perfumery& Cosmetics Environmental Aspects in Oil & Allied Industries	3	1	0	30	20	50	100	150
2.	TOT-801	Advanced Quality Control Techniques	3	1	0	30	20	50	100	150
3.	TOT-802	Advanced Oil Chemistry & Oleochemicals	3	1	0	30	20	50	100	150
4.	TOT-803	Biotechnology applied to Oils & Fats	3	1	0	30	20	50	100	150
5.	***TCH-806	Industrial Safety and Hazard Management	3	1	0	30	20	50	100	150
Practicals										
6.	TOT-851	Project	0	0	12	25	25	50	100	150
7.	TOT-852	Industrial Tour						50		50
8.	GP-801	General Proficiency						50		50
									Grand Total	1000

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U.P. TECHNICAL UNIVERSITY LUCKNOW



Syllabus of

B.Tech. I Year (I & II Semester)
[Common to all Branches]

Effective from the Session : 2004-05