

## OILS OLEOCHEMICALS AND SURFACTANTS TECHNOLOGY

### Semester III

Sr. No.	Course Code	Course Title	Faculty	Hours/week (L + T)	Marks	Credits
1	GET 1104	Engineering Mechanics and Strength of Materials	Gen Engg.	2+1	50	3
2	GET 1105	Electrical and Electronics Engineering	Gen Engg.	2+1	50	3
3	CHT 1341	Physical Chemistry	Chem.	3+1	100	4
4	OLT 1101	Chemistry of Oils	DNB	3+1	100	4
5	BST 1101	General Microbiology	DBT-ICT CEB	2+1	50	3
6	BST 1103	Biochemistry	DBT-ICT CEB	2+1	50	3
		<b>TOTAL</b>		<b>20</b>	<b>400</b>	<b>20</b>
5	GEP 1106	Electrical and Electronics Engineering Laboratory	Gen Engg.	4	50	2
6	CHP 1342	Physical Chemistry Laboratory	Chem.	4	50	2
7	OLP 1201	Analysis of Oilseeds and Oils	JTW	4	50	2
		<b>Total Practicals</b>		<b>12</b>	<b>150</b>	<b>6</b>
				32	550	26

### Semester IV

Sr. No.	Course Code	Subjects	Faculty	Hours/week (L + T)	Marks	Credits
1	CET 1105	Transport Phenomena	CE	3+1	100	4
2	DYT 1411	Colour Chemistry and Introduction	DYES/ NS	3+1	100	4
3	OLT 1102	Chemistry of Surfactants	VF/ Dr. Koshti	3+1	100	4
4	PYP 1203	Colour Physics & Colour Harmony	Physics/ VDD	2+1	50	3
5	OLT 1103	Nutrition	VF/ PRK	2+1	50	3
		<b>TOTAL</b>		<b>18</b>	<b>400</b>	<b>18</b>
6	OLP 1202	Analysis of raw materials of oils and Soap industry	JTW	4	50	2
7	PYP 1203	Colour Physics Lab (BY PHYSICS)	Physics/ VDD	4	50	2
8	OLP 1203	Processing of Oils and Fats	APP	4	50	2
		<b>Total Practicals</b>		<b>12</b>	<b>50</b>	<b>6</b>
				30	550	24

### Semester V

Sr. No.	Course Code	Subjects	Faculty	Hours/week (L + T)	Marks	Credits
1	CET 1406	Chemical Engineering Operations	CE	2+1	50	3
2	CET 1212	Chemical Reaction Engineering	CE	2+1	50	3
3	OLT 1104	Technology of Edible Fat Production	JTW	3+1	50	4
4	OLT 1105	Technology of Oil and Fat Production	APP	2+1	50	3
5	OLT 1106	Cosmetics Science I	SAM	2+1	50	3
6.	OLT 1107	Chemistry of Oils and Lipids	DNB/ SAM	2+1	50	3
		<b>TOTAL</b>		<b>18</b>	<b>400</b>	<b>18</b>
7.	OLP 1204	Processing of Oleochemicals and Waxes	APP	8	100	4
8.	OLP 1205	Pr 6: Analysis of Surfactants	JTW	4	50	2
9.	OLP 1206	Microbiology and Biochemistry Lab I	VF	4	50	2
		<b>Total Practicals</b>		16	200	8
				<b>34</b>	<b>500</b>	<b>26</b>

### Semester VI

Sr. No.	Course Code	Subjects	Faculty	Hours/week (L + T)	Marks	Credits
1	CET 1713	Instrumentation and process Control	CE	2+1	50	3
2	OLT 1108	Production and Applications of Surfactants, Soaps and Detergents	SAM	3+1	100	3
3	OLT 1109	Cosmetics Science II	SAM	2+1	50	4
4	OLT 1110	Technology of Oleochemicals	DNB	2+1	50	3
5	OLT 1111	Technology of Perfumery Chemicals	VF/ AVJ	2+1	50	3
6	OLT 1112	<b>Elective-I:</b> Nanotechnology and Its Innovations in Chemical Industry	VF/ Dr. Smita Jadhav	2+1	50	3
		<b>TOTAL</b>		<b>18</b>	<b>400</b>	<b>18</b>
6	CEP 1108	Chemical Engineering Laboratory	CE	4	50	2
7	OLP 1207	Evaluation and testing of soaps and detergents	JTW	8	100	4
8	OLP 1208	<b>Pr 9:</b> Cosmetics formulations	APP	4	50	2
		<b>Total Practicals</b>		16	200	8
				<b>34</b>	<b>550</b>	<b>27</b>

### Semester VII

Sr. No.	Course Code	Subjects	Faculty	Hours/week (L + T)	Marks	Credits
1	CET	Project Economics	CE	2+1	50	3
2	CET	Industrial psychology and Human Resource Management	CE	2+1	50	3
3	OLT 1113	<b>Spl 16:</b> Genetic Engineering	VF/	2+1	50	3
4	OLT 1114	<b>Spl 17:</b> Nutraceuticals	JTW	2+1	50	3
5	OLT 1115	<b>Spl 18:</b> Essential Oils, Natural products and their Applications	SAM	2+1	50	3
6	OLT 1116	<b>Elective-II:</b> Byproducts utilization and waste management	DNB/ APP	2+1	50	3
		<b>TOTAL</b>		<b>18</b>	<b>350</b>	<b>18</b>
6	OLP 1209	<b>Pr 10:</b> Processing of Soaps, Surfactants and Detergents	APP	8	100	4
7	OLP 1210	<b>Pr 11:</b> Microbiology and Biochemistry Lab II	VF	4	50	2
8	OLP 1211	<b>Seminar</b>	ALL Faculty	4	50	2
		<b>Total Practicals</b>		16	200	8
				<b>34</b>	<b>500</b>	<b>26</b>

### Semester VIII

Sr. No.	Course Code	Subjects	Faculty	Hours/week (L + T)	Marks	Credits
1	CET	Industrial Management	CE	2+1	50	3
2	CET	Value Education	CE	2+1	50	3
	CET	Design and Analysis of Experiments	CE	2+1	50	3
	OLT 1117	<b>Spl 16:</b> Petroleum Technology	VF	2+1	50	3
3	OLT 1118	<b>Spl 17:</b> functional fluids and performance chemicals	APP	2+1	50	3
4	OLT 1119	<b>Elective-III:</b> Lesser known oils and waxes	DNB/ APP	2+1	50	3
		<b>TOTAL</b>		<b>18</b>	<b>300</b>	<b>18</b>
6	OLP 1213	<b>Pr12:</b> Triboapplications Laboratory	APP	4	50	2
7	OLP 1214	Experimental Project	All Faculty	12	150	6
		<b>Total Practicals</b>		16	200	8
				<b>34</b>	<b>500</b>	<b>26</b>