



SILVER OAK UNIVERSITY
EDUCATION TO INNOVATION

Silver Oak University

College of Technology

Department of Chemical Engineering

Diploma in Chemical Engineering

Effective From: 2024-25

Sr No	Subject Code	Subject Name	Short Name Subject	Category	Teaching Scheme					Evaluation Scheme				
					L.	T.	P.	Contact Hours	Credit	CIE (TH)	CIE (PR)	ESE (TH)	ESE (PR)	Total Marks
Semester 1														
1	2010272101	Elementary Mathematics	EM	Basic Science	3	2	0	5	5	50	-	50	-	100
2	2010252103	Fundamentals of Physics	FOP	Basic Science	3	0	2	5	4	50	25	50	25	150
3	2010152181	General English	GE	HSS	2	0	2	4	3	50	25	50	25	150
4	2010262105	Applied Chemistry	AC	Basic Science	3	0	2	5	4	50	25	50	25	150
5	2010002196	Induction Programme	IP	Mandatory Course	0	0	0	0	0	-	50	-	50	100
6	2010032196	Environmental Science	ES	Mandatory Course	2	1	0	3	0	50	-	50	-	100
7	3000833181	Universal Human Values	UHV	VAC	2	0	0	2	2	50	-	50	-	100
Total					15	3	6	24	18	Total Marks				850
Semester 2														
1	2010272102	Advanced Mathematics	AM	Basic Science	3	2	0	5	5	50	-	50	-	100
2	2010252104	Advanced Physics	AP	Basic Science	3	0	2	5	4	50	25	50	25	150
3	2010122111	Engineering Graphics	EG	Engineering Science	2	0	4	6	4	50	25	50	25	150
4	2010122112	Engineering Workshop Practice	EWS	Engineering Science	0	0	4	4	2	-	50	-	50	100
5	2010152182	Professional Development and Communication	PDC	HSS	1	0	2	3	2	50	25	50	25	150
6	2010042112	Introduction to Application Software & Computer Peripherals	IASCP	Engineering Science	3	0	2	5	4	50	25	50	25	150
7	2010122113	Engineering Mechanics	EM	Engineering Science	3	0	2	5	4	50	25	50	25	150
Total					15	2	16	33	25	Total Marks				950
Semester 3 (2020-21)														
1	1010022216	Fluid Flow Operation	FFO	Professional Core Course	3	0	2	5	4	40	20	60	30	150

2	1010022217	Material & Energy Balance Computations	MEBC	Professional Core Course	3	1	0	4	4	40	0	60	0	100
3	1010022218	Chemical Process Technology	CPT	Professional Core Course	3	0	2	5	4	40	20	60	30	150
4	1010022219	Mechanical Operations	MO	Professional Core Course	3	0	2	5	4	40	20	60	30	150
5	1010022220	Chemical Engineering Thermodynamics	CET	Professional Core Course	3	2	0	5	5	40	0	60	0	100
Total					15	3	6	24	21	Total Marks				650
Semester 4														
1	1010022221	Process Heat Transfer	PHT	Professional Core Course	3	1	2	6	5	40	20	60	30	150
2	1010022222	Mass Transfer	MT	Professional Core Course	3	1	2	6	5	40	20	60	30	150
3	1010022223	Utilities & Instrumentation in Chemical Plant	UICP	Professional Core Course	3	0	2	5	4	40	20	60	30	150
4	1010022236	Petrochemical Technology	PCT	Professional Elective-I	3	0	0	3	3	40	0	60	0	100
5	1010022237	Petroleum Refining	PR	Professional Elective-I	3	0	0	3	3	40	0	60	0	100
6	1010022238	Polymer Technology	POT	Professional Elective-II	3	0	0	3	3	40	0	60	0	100
7	1010022239	Dye & Pigment Technology	DPT	Professional Elective-II	3	0	0	3	3	40	0	60	0	100
8	1010022240	Fertilizer Technology	FT	Professional Elective-III	3	0	0	3	3	40	0	60	0	100
9	1010022241	Sugar & Food Technology	SFT	Professional Elective-III	3	0	0	3	3	40	0	60	0	100
10	1010002291	Problem Based Learning-I	PBL-I	Project/Seminar	0	0	2	2	1	0	40	0	60	100
Total					18	2	8	28	24	Total Marks				850
Semester 5														
1	1010022391	Internship	Internship	Project/Seminar	0	0	0	0	1	0	40	0	60	100
2	1010022316	Separation Technology	ST	Professional Core Course	3	0	2	5	4	40	20	60	30	150
3	1010022317	Chemical Reaction Engineering	CRE	Professional Core Course	3	0	2	5	4	40	20	60	30	150

4	1010022318	Plant Economics & Industrial Management	PEIM	Professional Core Course	3	1	0	4	4	40	0	60	0	100
5	1010022336	Pollution Control & Effluent Treatment	PCET	Professional Elective-IV	3	0	2	5	4	40	20	60	30	150
6	1010022337	Safety & Hazard Management in Chemical Industries	SHMCI	Professional Elective-IV	3	0	2	5	4	40	20	60	30	150
7	1010022338	Paper & Pulp Technology	PPT	Professional Elective-V	3	0	0	3	3	40	0	60	0	100
8	1010022339	Nanotechnology	NT	Professional Elective-V	3	0	0	3	3	40	0	60	0	100
9	1010022361	Clean Technology in Process Industries	CTPI	Open Elective-I	3	0	0	3	3	40	0	60	0	100
10	1010022362	Pharmaceutical Technology	PT	Open Elective-I	3	0	0	3	3	40	0	60	0	100
11	1010002391	Problem Based Learning-II	PBL-II	Project/Seminar	0	0	2	2	1	0	40	0	60	100
Total					18	1	8	27	24	Total Marks				950
Semester 6														
1	1010022392	Project	Project	Project/Seminar	0	0	24	24	12	0	40	0	60	100
2	1010342381	Employability Enhancement & Job Skills		HSS	0	1	0	1	1	0	40	0	60	100
Total					0	1	24	25	13	Total Marks				200