



SILVER OAK UNIVERSITY
EDUCATION TO INNOVATION

Silver Oak University

College Of Technology(01)

Department Of Aeronautical Engineering (001)

Under Graduate(03)

Effective From: 2020-2021

Sr No	Subject Code	Subject Name	Short Name for 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	1010273101	Mathematics-I	MATHS-I	Basic Science	3	2	0	5	5	40	-	60	-	100	
2	1010043111	Programming for Problem Solving	PPS	Engineering Science	3	0	2	5	4	40	20	60	30	150	
3	1010033111	Basic Civil Engineering	BCE	Engineering Science	3	0	2	5	4	40	20	60	30	150	
4	1010123111	Basic Mechanical Engineering	BME	Engineering Science	3	0	2	5	4	40	20	60	30	150	
5	1010043112	Engineering Workshop Practice	WP	Engineering Science	0	0	4	4	2	-	40	-	60	100	
6	1010153181	English	ENG	HSS	1	0	2	3	2	40	20	60	30	150	
7	1010003196	Induction Programme (Prarambh+Connect)	IP	#Mandatory	0	0	0	30	0	0	0	0	0	0	
Total					13	2	12	27	21	Total Marks					800
Semester 2															
1	1010273102	Mathematics-II	MATHS-II	Basic Science	3	2	0	5	5	40	-	60	-	100	
2	1010253103	Physics	PHY	Basic Science	3	0	2	5	4	40	20	60	30	150	
3	1010153182	Communication Skills	CS	HSS	1	0	2	3	2	40	20	60	30	150	
4	1010083111	Basic Electrical Engineering	BEE	Engineering Science	3	0	2	5	4	40	20	60	30	150	
5	1010123112	Engineering Graphics & Design	EGD	Engineering Science	2	0	4	6	4	40	20	60	30	150	
6	1010033196	Environmental Sciences	ES	#Mandatory	3	0	0	3	0	40	-	60	-	100	
Total					15	2	10	27	19	Total Marks					800
Semester 3															
1	1010273202	PDE, Probability and Statistics	PDE	Basic Science	3	2	0	5	5	40	-	60	-	100	
2	1010343281	Economics and Management	EM	HSS	2	0	0	2	2	40	-	60	-	100	
3	1010013217	Thermodynamics for Aeronautical Engineering	TAE	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
4	1010013211	Mechanics of Materials	MOM	Engineering Science	3	0	2	5	4	40	20	60	30	150	
5	1010013216	Fluid Mechanics and Machinery	FMM	Professional Core Course	4	0	2	6	5	40	20	60	30	150	
6	1010013212	Elements of Aeronautics	EOA	Engineering Science	3	0	2	5	4	40	20	60	30	150	
7	1010003296	Indian Constitution	IC	#Mandatory	1	0	0	1	0	40	-	60	-	100	
Total					19	2	8	29	24	Total Marks					900
Semester 4															
1	1010273207	Complex Variables and Numerical Methods	CVNM	Basic Science	3	2	0	5	5	40	-	60	-	100	
2	1010013218	Aerodynamics	AD	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
3	1010013219	Avionics	AVNICS	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
4	1010013220	Aircraft Structures -I	AS-I	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
5	1010013236	Mechanics of Machines	MOM	Professional Elective-I	3	0	2	5	4	40	20	60	30	150	
6	1010013237	Theory of Vibrations	TOV	Professional Elective-I	3	0	2	5	4	40	20	60	30	150	
7	1010013238	Control Systems	CS	Professional Elective-I	3	0	2	5	4	40	20	60	30	150	
8	1010343282	Aptitude Building & Professional skills-I	ABPS-I	HSS	0	1	0	1	1	-	40	-	60	100	
Total					15	3	8	26	22	Total Marks					800



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Semester 5															
1	1010013316	Fundamentals of Turbomachinery	FTM	Professional Core Course	4	1	0	5	5	40	20	60	30	150	
2	1010013317	CAD/CAM	CADCAM	Professional Core Course	0	0	4	4	2	-	40	-	60	100	
3	1010013318	Aircraft Structures-II	AS-II	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
4	1010013319	Aircraft Systems and Instruments	ASI	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
5	1010013336	Theory of Elasticity	TOE	Professional Elective-II	3	0	2	5	4	40	20	60	30	150	
6	1010013337	Advance Aerodynamics	ADAERO	Professional Elective-II	3	0	2	5	4	40	20	60	30	150	
7	1010013361	Aircraft Manufacturing Process	AMP	Open Elective - I	2	0	2	4	3	40	20	60	30	150	
8	1010013362	Aircraft Materials	AM	Open Elective - I	2	0	2	4	3	40	20	60	30	150	
9	1010013391	Internship -I	INT-I	Project	0	0	0	0	1	-	40	-	60	100	
10	1010343381	Aptitude Building & Professional skills-II	ABPS-II	HSS	0	1	0	1	1	-	40	-	60	100	
11	1010003391	Problem Based Learning-I	PBL-I	Project	0	0	2	2	1	-	40	-	60	100	
Total					15	2	14	31	25	Total Marks					1150
Semester 6															
1	1010013320	Computational Fluid Dynamics	CFD	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
2	1010013321	Flight Dynamics	FD	Professional Core Course	4	1	0	5	5	40	20	60	30	150	
3	1010013322	Fundamentals of Jet Propulsion	FJP	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
4	1010013338	Aircraft Navigation & Guidance	ANG	Professional Elective-III	3	0	2	5	4	40	20	60	30	150	
5	1010013339	UAV Design	UAV	Professional Elective-III	3	0	2	5	4	40	20	60	30	150	
6	1010013340	Finite Element Method	FEM	Professional Elective-III	3	0	2	5	4	40	20	60	30	150	
7	1010013363	Wind Tunnel Techniques	WTT	Open Elective - II	3	0	2	5	4	40	20	60	30	150	
8	1010013364	Theory of Heat Transfer	THT	Open Elective - II	3	0	2	5	4	40	20	60	30	150	
9	1010013392	Internship -II	INT-II	Project	0	0	0	0	1	-	40	-	60	100	
10	1010343382	Aptitude building & Professional skills-III	ABPS-III	HSS	0	1	0	1	1	-	40	-	60	100	
11	1010003392	Problem Based Learning-II	PBL-II	Project	0	0	2	2	1	-	40	-	60	100	
Total					16	2	10	28	24	Total Marks					1050
Semester 7															
1	1010013416	Aviation Management	AM	Professional Core Course	2	0	0	2	2	40	-	60	-	100	
2	1010013417	Aircraft Design	AD	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
3	1010013436	Electronics and Programming for UAVs	EP-UAV	Professional Elective-IV	3	0	2	5	4	40	20	60	30	150	
4	1010013437	Helicopter Engineering	HE	Professional Elective-IV	3	0	2	5	4	40	20	60	30	150	
5	1010013438	Rockets and Missiles	RM	Professional Elective-IV	3	0	2	5	4	40	20	60	30	150	
6	1010013461	Industrial Engineering	IE	Open Elective - III	3	0	2	5	4	40	20	60	30	150	
7	1010123461	Introduction to AI ML	I-AIML	Open Elective - III	3	0	2	5	4	40	20	60	30	150	
8	1010123464	Automation and Control	AC	Open Elective - III	3	0	2	5	4	40	20	60	30	150	
9	1010013491	Project- I	PROJ-I	Project	0	0	6	6	3	-	40	-	60	100	
10	1010343481	Employability Enhancement & Job Skills	EEJS	HSS	0	1	0	1	1	-	40	-	60	100	
Total					11	0	12	23	18	Total Marks					750
Semester 8															
1	1010013492	Project-II	PROJ-II	Project	0	0	20	20	10	-	40	-	60	100	
Total					0	0	20	20	10	Total Marks					100