

 <b>SILVER OAK UNIVERSITY</b> EDUCATION TO INNOVATION												
<b>Silver Oak University</b> College of Technology (01) Mechanical Engineering Department (012) Under Graduate (03)												
Effective From:2020-2021												
Sr No	Subject Code	Subject Name	Category	Teaching Scheme				Evaluation Scheme				Total Marks
				L.	T.	P.	Credit	CIE(TH)	CIE(PR)	ESE(TH)	ESE(PR)	
<b>Semester 1</b>												
1	1010273101	Mathematics-I	Basic Science	3	2	0	5	40	-	60	-	100
2	1010043111	Programming for Problem Solving	Engineering Science	3	0	2	4	40	20	60	30	150
3	1010033111	Basic Civil Engineering	Engineering Science	3	0	2	4	40	20	60	30	150
4	1010123111	Basic Mechanical Engineering	Engineering Science	3	0	2	4	40	20	60	30	150
5	1010043112	Engineering Workshop Practice	Engineering Science	0	0	4	2	-	40	-	60	100
6	1010153181	English	HSS	1	0	2	2	40	20	60	30	150
7	1010003196	Induction Programme (Prarambh+Connect)	#Mandatory	0	0	0	0	0	0	0	0	0
<b>Total</b>				<b>13</b>	<b>2</b>	<b>12</b>	<b>21</b>	<b>Total Marks</b>				<b>800</b>
<b>Semester 2</b>												
8	1010273102	Mathematics-II	Basic Science	3	2	0	5	40	-	60	-	100
9	1010253103	Physics	Basic Science	3	0	2	4	40	20	60	30	150
10	1010153182	Communication Skills	HSS	1	0	2	2	40	20	60	30	150
11	1010083111	Basic Electrical Engineering	Engineering Science	3	0	2	4	40	20	60	30	150
12	1010123112	Engineering Graphics & Design	Engineering Science	2	0	4	4	40	20	60	30	150
13	1010033196	Environmental Sciences	#Mandatory	3	0	0	0	40	-	60	-	100
<b>Total</b>				<b>15</b>	<b>2</b>	<b>10</b>	<b>19</b>	<b>Total Marks</b>				<b>800</b>
<b>Semester 3</b>												
14	1010273202	Partial Differential Equations, Probability and	Basic Science	3	2	0	5	40	-	60	-	100
15	1010343281	Economics and Management	HSS	2	0	0	2	40	-	60	-	100
16	1010123216	Engineering Thermodynamics	Professional Core Courses	3	0	2	4	40	20	60	30	150
17	1010123211	Engineering mechanics and Strength of Materi	Engineering Science	4	0	2	5	40	20	60	30	150
18	1010123212	Materials Technology	Engineering Science	2	0	2	3	40	20	60	30	150
19	1010123236	Workshop Technology-I	Professional Elective I	2	0	4	4	40	20	60	30	150
20	1010123237	Manufacturing Techniques	Professional Elective I	2	0	4	4	40	20	60	30	150
21	1010003296	Indian Constitution	#Mandatory	1	0	0	0	40	-	60	-	100
<b>Total</b>				<b>17</b>	<b>2</b>	<b>10</b>	<b>23</b>	<b>Total Marks</b>				<b>900</b>
<b>Semester 4</b>												
22	1010273207	Complex Variables and Numerical Methods	Basic Science	3	2	0	5	40	-	60	-	100
23	1010123217	Fundamental of Machine Design	Professional Core Courses	3	1	0	4	40	-	60	-	100
24	1010123218	Fluid Mechanics and Hydraulic Machines	Professional Core Courses	4	0	2	5	40	20	60	30	150
25	1010123219	Industrial Metrology	Professional Core Courses	3	0	2	4	40	20	60	30	150
26	1010123220	Workshop Technology-II	Professional Core Courses	3	0	2	4	40	20	60	30	150
27	1010343282	Aptitude Building and Professional Skills-I	HSS	0	1	0	1	-	*40	-	**60	100
<b>Total</b>				<b>16</b>	<b>4</b>	<b>6</b>	<b>23</b>	<b>Total Marks</b>				<b>750</b>

Semester 5												
28	1010123316	Heat Transfer	Professional Core Courses	3	0	2	4	40	20	60	30	150
29	1010123317	Kinematics and theories of Machines	Professional Core Courses	3	0	2	4	40	20	60	30	150
30	1010123318	Mechanical System Design-I	Professional Core Courses	3	1	0	4	40	-	60	-	100
31	1010123336	Computer Aided Design and FEA	Professional Elective II	3	0	2	4	40	20	60	30	150
32	1010123337	Computational Fluid Dynamics	Professional Elective II	3	0	2	4	40	20	60	30	150
33	1010123361	Smart Manufacturing	Open Elective I	3	0	2	4	40	20	60	30	150
34	1010123362	Control Engineering	Open Elective I	3	0	2	4	40	20	60	30	150
35	1010123391	Summer Internship	Project	0	0	0	1	-	40	-	60	100
36	1010343381	Aptitude Building and Professional Skills-II	HSS	0	1	0	1	-	*40	-	**60	100
37	1010003391	Problem Based Learning-I	Project	0	0	2	1	-	40	-	60	100
<b>Total</b>				<b>15</b>	<b>2</b>	<b>10</b>	<b>23</b>	<b>Total Marks</b>				<b>1000</b>
Semester 6												
38	1010123320	Dynamics of Machinery	Professional Core Courses	3	0	2	4	40	20	60	30	150
39	1010123321	Refrigeration and Air Conditioning	Professional Core Courses	3	0	2	4	40	20	60	30	150
40	1010123338	Oil Hydraulics and Pneumatics	Professional Elective III	3	0	2	4	40	20	60	30	150
41	1010123339	I. C. Engine & Automobile Engineering	Professional Elective III	3	0	2	4	40	20	60	30	150
42	1010123319	Operation Research and DOE	Professional Core Courses	3	0	2	4	40	20	60	30	150
43	1010123363	Industrial Robotics & Automation	Open Elective II	3	0	2	4	40	20	60	30	150
44	1010123364	Fundamentals of Python Programming	Open Elective II	3	0	2	4	40	20	60	30	150
45	1010123365	Industrial Engineering and Quality Control	Open Elective III	3	0	0	3	40	-	60	-	100
46	1010123366	Quality and Reliability Engineering	Open Elective III	3	0	0	3	40	-	60	-	100
47	1010123367	Industrial Safety and Maintenance Engineering	Open Elective III	3	0	0	3	40	-	60	-	100
48	1010123392	Winter Internship	Project	0	0	0	1	-	40	-	60	100
49	1010343382	Aptitude Building and Professional Skills-III	HSS	0	1	0	1	-	*40	-	**60	100
50	1010003392	Problem Based Learning-II	Project	0	0	2	1	-	40	-	60	100
<b>Total</b>				<b>18</b>	<b>1</b>	<b>12</b>	<b>26</b>	<b>Total Marks</b>				<b>1150</b>
Semester 7												
51	1010123416	Mechanical System Design-II	Professional Core Courses	3	1	0	4	40	-	60	-	100
52	1010123417	Computer Aided Manufacturing	Professional Core Courses	3	0	2	4	40	20	60	30	150
53	1010123436	Power Plant Engineering	Professional Elective V	3	0	0	3	40	-	60	-	100
54	1010123437	Renewable Energy Engineering	Professional Elective V	3	0	0	3	40	-	60	-	100
55	1010123461	Introduction to AI ML	Open Elective IV	3	0	2	4	40	20	60	30	150
56	1010123462	Energy Conservation and Management	Open Elective IV	3	0	2	4	40	20	60	30	150
57	1010123491	Project-I	Project	0	0	6	3	-	40	-	60	100
58	1010343481	Employability Enhancement & Job Skills	HSS	0	1	0	1	-	*40	-	**60	100
<b>Total</b>				<b>12</b>	<b>1</b>	<b>10</b>	<b>19</b>	<b>Total Marks</b>				<b>700</b>
Semester 8												
59	1010123492	Project-II	Project	0	0	20	10	-	40	-	60	100
<b>Total</b>				<b>0</b>	<b>0</b>	<b>20</b>	<b>10</b>	<b>Total Marks</b>				<b>100</b>