

SHRI VISHWAKARMA SKILL UNIVERSITY
(Enacted by the Act 25 of 2016, State of Haryana)
DUDHOLA, PALWAL



B. Voc. (Solar Technology)
Batch 2020-23

Semester-I															
Category	Codes	Subject Name	Credits			Marks							Hrs		
						Theory			Practical			Total			
			T	P	TO	I	E	TO	I	E	TO	(T+P)	T	P	TO
General Education Component	MTH-501	Applied Mathematics	4		4	30	70	100	-	-	-	100	60	-	60
	ENG-501 ENG-501L	Communication Skills	3	1	4	15	35	50	35	15	50	100	45	30	75
	EE-501 EE-501L	Basics of Electrical & Electronics Engg.	3	1	4	15	35	50	35	15	50	100	45	30	75
	CSE-501L	Fundamental of Computers	0	2	2	-	-	-	70	30	100	100	-	60	60
	IMS-501 IMS-501L	Fundamentals of Industrial Management & Safety	3	1	4	15	35	50	35	15	50	100	45	30	75
		Total		13	5	18	75	175	250	175	75	250	500	195	150
Skill Education Component	ST-501 ST-501L	Solar Radiation	3	1	4	15	35	50	35	15	50	100	45	30	75
	ME-503 ME-503L	Measurement and Metrology	3	1	4	15	35	50	35	15	50	100	45	30	75
	ME-501L	Engineering Graphics and Drawing	0	4	4	-	-	-	70	30	100	100	-	120	120
	Total		6	6	12	30	70	100	140	60	200	300	90	180	270
Grand Total			19	11	30	105	245	350	315	135	450	800	285	330	615

***NOTE-** EGD & FOC will be considered as special case (sessional will be held) but they will be considered as practical subject only.

Semester-II																
Category	Code	Subject Name	Credits			Marks							Hrs			
						Theory			Practical			Total				
			T	P	TO	I	E	TO	I	E	TO	(T+P)	T	P	TO	
General Education Component	MC-501	MOOCs (Solar Photovoltaics: Principles, Technologies and Materials)	2	0	2	30	70	100	0	0	0	100	30	0	30	
	EM-501	Entrepreneurship	2	0	2	30	70	100	0	0	0	100	30	0	30	
		Total	4	0	4	60	140	200	0	0	0	200	60	0	60	
SKILL Education Component	OJT-501	OJT	0	24	24	-	-	0	245	105	350	350	0	1080	1080	
		Total	0	24	24	0	0	0	245	105	350	350	0	1080	1080	
Grand Total			4	24	28	60	140	200	245	105	350	550	60	1080	1140	

*Note: Relevant MOOC /Online Course will be offered as per the availability

Semester-III															
Category	Subject Name	Credits			Marks								Hrs		
					Theory			Practical			Total				
		T	P	TO	I	E	TO	I	E	TO	(T+P)	T	P	TO	
General Education Component	Thermodynamics	3	-	3	30	70	100	-	-	-	100	45	-	45	
	Solar PV Energy Conversion-I	3	2	5	15	35	50	35	15	50	100	45	60	105	
	Sustainable Chemistry	3	1	4	15	35	50	35	15	50	100	45	30	75	
	Energy Storage systems	3	1	4	15	35	50	35	15	50	100	45	30	75	
	Solar Thermal Energy Conversion-1	3	1	4	30	70	100	-	-	-	100	60	-	60	
	Total	15	5	20	105	245	350	105	45	150	500	240	120	360	
Skill Education Component	Power Electronics	3	1	4	15	35	50	35	15	50	100	45	30	75	
	PV Module design and Fabrication	3	1	4	15	35	50	35	15	50	100	45	30	75	
	Software (CAD/Labview)	0	4	4	-	-	-	70	30	100	100	-	120	120	
	Total	6	6	12	30	70	100	140	60	200	300	90	180	270	
Grand Total		21	11	32	145	315	450	245	104	350	800	330	300	630	

Semester-IV															
Category	Subject Code	Subject Name	Credits			Marks							Hrs		
						Theory			Practical			Total			
			T	P	TO	I	E	TO	I	E	TO	(T+P)	T	P	TO
General Education Component		*MOOC/ Online Course-III	2	0	2	30	70	100	0	0	0	100	30	0	30
		Value Education & Professional ethics (MOOC/ Online Course-IV)	2	0	2	30	70	100	0	0	0	100	30	0	30
	Total		4	0	4	60	140	200	0	0	0	200	60	0	60
Skill Education Component	OJT-601	On Job Training (OJT)	0	24	24	0	0	0	245	105	350	350	0	1080	1080
	Total		0	24	24	0	0	0	245	105	350	350	0	1080	1080
Grand Total			4	24	28	60	140	200	245	105	350	550	60	1080	1140

*Note: Relevant MOOC/Online Course will be offered as per the availability

Job Role: Level 6

Semester-V															
Category	Subject Name	Credits			Marks								Hrs		
					Theory			Practical			Total				
		T	P	TO	I	E	TO	I	E	TO	(T+P)	T	P	TO	
General Education Component	Material Science for Solar Application	3	1	4	15	35	50	35	15	50	100	45	30	75	
	Solar Thermal Technology-II	3	1	4	15	35	50	35	15	50	100	45	30	75	
	Industry 4.0	3	1	4	15	35	50	35	15	50	100	45	30	75	
	Operation and maintenance of solar systems	3	1	4	15	35	50	35	15	50	100	45	30	75	
	Object oriented Programming & C++	3	1	4	15	35	50	35	15	50	100	45	30	75	
	Total	15	5	20	75	175	250	175	75	250	500	225	150	375	
Skill Education Component	Major Project	0	4	4	-	-	-	70	30	100	100	0	120	120	
	Solar PV Module 2	3	1	4	15	35	50	35	15	50	100	45	30	75	
	Software (Design)		2	2	15	35	50	35	15	50	100	-	60	60	
	Total	3	7	10	30	70	100	140	60	200	300	45	210	255	
Grand Total		18	12	30	105	245	350	315	135	450	800	300	360	630	

Semester-VI															
Category	Subject Code	Subject Name	Credits			Marks							Hrs		
						Theory			Practical			Total			
			T	P	TO	I	E	TO	I	E	TO	(T+P)	T	P	TO
General Education Component		*MOOC/ Online Course-V	2	0	2	30	70	100	0	0	0	100	30	0	30
		Consumer Affairs (MOOC/ Online Course-VI)	2	0	2	30	70	100	0	0	0	100	30	0	30
	Total		4	0	4	60	140	200	0	0	0	200	60	0	60
Skill Education Component	OJT-701	On Job Training (OJT)	0	24	24	0	0	0	245	105	350	350	0	1080	1080
	Total		0	24	24	0	0	0	245	105	350	350	0	1080	1080
Grand Total			4	24	28	60	140	200	245	105	350	550	60	1080	1140

*Note: Relevant MOOC /Online Course will be offered as per the availability

Job Roles: Level-7

Manager Customer Quality : ASC/Q6304

Manager Manufacturing Quality