

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



B.Voc. Mechatronics
2020-23

Semester-I															
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	ENG-501 ENG-501L	Communication Skills	3	1	4	15	35	50	35	15	50	100	45	30	75
	ME-505 ME-505L	Workshop Technology	3	1	4	15	35	50	35	15	50	100	45	30	75
	MTH-501	Applied Mathematics	4	0	4	30	70	100	-	-	-	100	60	-	60
	CSE-501 CSE-501L	Fundamental of Computers	3	1	4	15	35	50	35	15	50	100	45	30	75
	IMS-501 IMS-501L	Fundamental of Industrial Management and Safety	3	1	4	15	35	50	35	15	50	100	45	30	75
	Total		16	4	20	90	210	300	140	60	200	500	240	120	360
Skill Education Component	ME-506L	Basics of Mechatronics	0	4	4	-	-	-	70	30	100	100	0	120	120
	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		3	9	12	15	35	50	175	75	250	300	45	270	315
	Grand Total		19	13	32	105	245	350	315	135	450	800	285	390	675

Semester-II															
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	OET- 502	* MOOC/ Online Course-1 (Industrial Automation & Control)	2	0	2	30	70	100	0	0	0	100	30	0	30
	OMS -501	Entrepreneurship (MOOC/ Online Course-II)	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	On Job Training (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

Job Roles: Level-5(Sr. Maintenance Technician)

Semester-III															
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	PHY-601 PHY-601L	Applied Physics	3	1	4	15	35	50	35	15	50	100	45	30	75
	EE-603 EE-603L	Electrical Machines & Control systems	2	2	4	15	35	50	35	15	50	100	30	60	90
	ME-605 ME-605L	Hydraulics and Pneumatics	3	1	4	15	35	50	35	15	50	100	45	30	75
	ECE-601 ECE-601L	Digital and Power Electronics	3	2	5	15	35	50	35	15	50	100	45	60	105
	EVS-601	EVS	4	0	4	30	70	100	-	-	-	100	60	-	60
	Total		15	6	21	90	210	300	140	60	200	500	225	180	405
Skill Education Component	ME-606L	Plant Maintenance and Safety	0	4	4	-	-	-	70	30	100	100	0	120	120
	ECE-604 ECE-604L	Microcontroller and Programmable Logic Controller	3	1	4	15	35	50	35	15	50	100	45	30	75
	ME-607L	Fundamental of CNC Machines Programming	0	4	4	-	-	-	70	30	100	100	0	120	120
	Total		3	9	12	15	35	50	175	60	250	300	45	270	315
	Grand Total		18	15	32	105	245	350	315	120	450	750	270	450	720

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	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(Assistant Supervisor)

Semester-V															
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	ECE-702 ECE-702L	Sensors and Transducers	2	1	3	15	35	50	35	15	50	100	30	30	60
	CSE-701 CSE-701L	Industry 4.0	3	1	4	15	35	50	35	15	50	100	45	30	75
	IMS-704	Leadership & Quality Management	4	0	4	30	70	100	-	-	-	100	60	-	60
	MTE-701 MTE-701L	Applied Mechatronics	3	1	4	15	35	50	35	15	50	100	45	30	75
	ME-705 ME-705L	Manufacturing Automation & Ergonomics	3	1	4	15	35	50	35	15	50	100	45	30	75
	Total		15	4	20	90	210	300	140	60	200	500	225	120	345
Skill Education Component	EE-703L	PLC and SCADA	0	4	4	-	-	-	70	30	100	100	0	120	120
	MTE-702 MTE-702L	Design of Mechatronics	3	1	4	15	35	50	35	15	50	100	45	30	75
	ETP-701	Project	0	4	4	-	-	-	70	30	100	100	-	120	120
	Total		3	9	12	15	35	50	175	75	250	300	45	270	315
	Grand Total		18	13	32	105	245	350	315	135	450	800	270	390	660

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	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 (Supervisor)