

# **SHRI VISHWAKARMA SKILL UNIVERSITY**

(Enacted by the Act 25 of 2016, State of Haryana)

**DUDHOLA, PALWAL**



**B. Voc. (Mechanical-Manufacturing) with Hero MotoCorp and Anand**

**2020-23**

B.Voc Mechanical Manufacturing (Batch 2019-22) onwards															
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	Fundamentals 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-502L	Fundamentals of CNC Machines	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

B.Voc Mechanical Manufacturing (Batch 2019-22) onwards															
Semester-II															
Category	Subject Code	Subject Name	Credits			Marks						Hrs			
						Theory			Practical						
			T	P	TO	I	E	TO	I	E	TO	(T+P)	T	P	TO
Geneal Education Component	*OET-503	*MOOC/ Online Course-I (Manufacturing Technology I &II)	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**

Machining Supervisor (ASC/Q3505) /

Assembly Line Supervisor (ASC/Q3602) /

Heat Treatment Shop Supervisor (ASC/Q3902) /

QA Standards Incharge (ASC/Q6305) /

Painting Supervisor (ASC/Q3305)

**B.Voc Mechanical Manufacturing (Batch 2019-22) onwards****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-501 EE-501L	Basic Electrical and Electronics Engineering	3	1	4	15	35	50	35	15	50	100	45	30	75
	IMS-601	Quality Control and Reliability Engineering	4	0	4	30	70	100	-	-	-	100	60	-	60
	ME-603 ME-603L	Automobile Engineering	3	1	4	15	35	50	35	15	50	100	45	30	75
	EVS - 601	EVS	4	0	4	30	70	100	-	-	-	100	60	-	60
	Total		17	3	20	105	245	350	105	45	150	500	255	90	345
	ME-601L	CAD Lab	0	4	4				70	30	100	100	0	120	120

Skill Education Component	MTE - 601 MTE-601L	Basics of Mechatronics	3	1	4	15	35	50	35	15	50	100	45	30	75
	ME-602L	CNC Machines Programming	0	4	4				35	15	50	50		120	120
	Total		3	9	12	15	35	50	140	60	200	250	45	270	315
	Grand Total		20	12	32	120	280	400	245	105	350	750	300	360	660

### B.Voc Mechanical Manufacturing (Batch 2019-22) onwards

#### 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
Skill Education Component		*MOOC/ Online Course-III	2	0	2	30	70	100	0	0	0	100	30	0	30
		Value Education and 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

	OJ T- 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	14 0	200	245	105	350	550	60	1080	1140

Note: \* Relevant MOOC/online course will be offered as per the availability.

#### Job Roles: Level-6

Assembly Line Machine Setter (ASC/Q3603) /

Machine Setter / Master Technician (ASC/Q3506) /

Manager Heat Treatment/Metallurgist (ASC/Q3903) /

Manager Supplier Quality (ASC/Q6302) /

Manager Customer Quality (ASC/Q6304) /

Painting & Surface Treatment Shift- In Charge (ASC/Q3306)

B.Voc Mechanical Manufacturing (Batch 2019-22) onwards															
Semester-V															
Category	Subje ct Code	Subject Name	Credits			Marks						Hrs			
						Theory			Practical		Total				
			T	P	TO	I	E	TO	I	E	TO	(T+ P)	T	P	TO
General Educati on Compo nent	MSE -701 MSE- 701L	Material Science and Heat Treatment	3	1	4	15	35	50	35	15	50	100	45	30	75
	ME- 605 ME- 605L	Hydraulics and Pneumatics	3	1	4	15	35	50	35	15	50	100	45	30	75

	IMS-701	Work Study and Ergonomics	4	0	4	30	70	100	-	-	-	100	60	-	60
	RA-602 RA-602L	Industrial Robotics and Material Handling Systems	3	1	4	15	35	50	35	15	50	100	45	30	75
	CSE-701 CSE-701L	Industry 4.0	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	ETP-701L	Project	0	4	4	-	-	-	70	30	100	100	0	120	120
	ME-702 ME-702L	Computer Integrated Manufacturing Systems	3	1	4	15	35	50	35	15	50	100	45	30	75
	ME-703L	AUTO CAD – II/ Solid works/ Catia	0	4	4	-	-	-	35	15	50	50	-	120	120
	Total		3	9	12	15	35	50	140	60	200	250	45	270	315
	Grand Total		19	13	32	105	245	350	280	120	400	750	285	390	675

## B.Voc Mechanical Manufacturing (Batch 2019-22) onwards

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**

Manager-Manufacturing Quality (ASC/Q6306)