

# **SWAMI VIVEKANAND UNIVERSITY, SIRONJA, SAGAR (M.P.)**



## **SCHEME**

**For**

**BACHELOR OF TECHNOLOGY (B.Tech.)  
Mechanical Engineering (ME)  
Course Code : BTME**

Department of Mechanical Engineering  
Faculty of Engineering

Duration of Course : 4 Year
Examination Mode : Semester
Examination System : Grading

Swami Vivekanand University, Sironja Sagar (M.P.)  
2016-2017





# Swami Vivekanand University, Sagar (M.P.)

## Scheme of Examination



Faculty of Engineering

Department of Mechanical Engineering

Scheme of Course : B.Tech. - Mechanical Engineering Course Code : BTME

Semester :- 4<sup>th</sup> Sem

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			Total Credit	Distribution of Marks											Duration of Theory Exam
		L	T	P		Theory					Practical					Grand Total (I= D+H)	
						End Sem.		Internal		Total (D= A+B+C)	End Sem.		Internal		Total (H= E+F+G)		
						Max (A)	Min	MST (B)	TW (C)		Max (E)	Min	LW (F)	PQ (G)			
<b>BT-0401</b>	<b>Mathematics III</b>	3	1	-	4	70	22	20	10	100	-	-	-	-	-	100	3 Hrs
<b>BTME-0402</b>	<b>Material Science and Metallurgy</b>	3	1	-	4	70	22	20	10	100	-	-	-	-	-	100	3 Hrs
<b>BTME-0403</b>	<b>Theory of M/C and Mechanism</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME -0404</b>	<b>Thermal Engg and gas dynamics</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME-0405</b>	<b>Fluid Mechanics</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME-0406</b>	<b>Dot Net</b>	-	-	2	2	-	-	-	-	-	30	10	10	10	50	50	-
<b>BTME-0407</b>	<b>Self study (Internal Assessment)</b>	-	-	2	2	-	-	-	-	-	-	-	-	50	50	50	-
<b>BTME-0408</b>	<b>Seminar / Group Discussion (Internal Assessment)</b>	-	-	2	2	-	-	-	-	-	-	-	-	50	50	50	-
	<b>Total</b>	15	05	12	32	350	-	100	50	500	120	-	40	140	300	800	



# Swami Vivekanand University, Sagar (M.P.)

## Scheme of Examination



Faculty of Engineering

Department of Mechanical Engineering

Scheme of Course : B.Tech. - Mechanical Engineering Course Code : BTME

Semester :- 5<sup>th</sup> Sem

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			Total Credit	Distribution of Marks											Duration of Theory Exam
		L	T	P		Theory					Practical					Grand Total (I= D+H)	
						End Sem.		Internal		Total (D= A+B+C)	End Sem.		Internal		Total (H= E+F+G)		
						Max (A)	Min	MST (B)	TW (C)		Max (E)	Min	LW (F)	PQ (G)			
<b>BTME-0501</b>	<b>Entrepreneurship and Management Concepts.</b>	3	1	-	4	70	22	20	10	100	-	-	-	-	-	100	3 Hrs
<b>BTME-0502</b>	<b>Turbo Machinery</b>	3	1	-	4	70	22	20	10	100	-	-	-	-	-	100	3 Hrs
<b>BTME-0503</b>	<b>Mechanical Measurement &amp; control</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME-0504</b>	<b>Machine Component Design</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME -0505</b>	<b>Dynamics of Machines</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME-0506</b>	<b>RDBMS Lab</b>	-	-	2	2	-	-	-	-	-	30	10	10	10	50	50	-
<b>BTME-0507</b>	<b>Self study (Internal Assessment)</b>	-	-	2	2	-	-	-	-	-	-	-	-	50	50	50	-
<b>BTME-0508</b>	<b>Seminar / Group Discussion (Internal Assessment)</b>	-	-	2	2	-	-	-	-	-	-	-	-	50	50	50	-
	<b>Total</b>	15	05	12	32	350	-	100	50	500	120	-	40	140	300	800	



# Swami Vivekanand University, Sagar (M.P.)

## Scheme of Examination



Faculty of Engineering

Department of Mechanical Engineering

Scheme of Course : B.Tech. - Mechanical Engineering Course Code : BTME

Semester :- 6<sup>th</sup> Sem

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			Total Credit	Distribution of Marks											Duration of Theory Exam
		L	T	P		Theory					Practical					Grand Total (I= D+H)	
						End Sem.		Internal		Total (D= A+B+C)	End Sem.		Internal		Total (H= E+F+ G)		
						Max (A)	Min	MST (B)	TW (C)		Max (E)	Min	LW (F)	PQ (G)			
<b>BTME-0601</b>	<b>Operations Management</b>	3	1	-	4	70	22	20	10	100	-	-	-	-	-	100	3 Hrs
<b>BTME-0602</b>	<b>Power Plant Engg</b>	3	1	-	4	70	22	20	10	100	-	-	-	-	-	100	3 Hrs
<b>BTME-0603</b>	<b>Metal Cutting and CNC machines</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME-0604</b>	<b>IC engines</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME -0605</b>	<b>Heat and Mass Transfer</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME-0606</b>	<b>Computer Aided Engg</b>	-	-	2	2	-	-	-	-	-	30	10	10	10	50	50	-
<b>BTME-0607</b>	<b>Self study (Internal Assessment)</b>	-	-	2	2	-	-	-	-	-	-	-	-	50	50	50	-
<b>BTME-0608</b>	<b>Seminar / Group Discussion (Internal Assessment)</b>	-	-	2	2	-	-	-	-	-	-	-	-	50	50	50	-
	<b>Total</b>	15	05	12	32	350	-	100	50	500	120	-	40	140	300	800	



# Swami Vivekanand University, Sagar (M.P.)

## Scheme of Examination



Faculty of Engineering

Department of Mechanical Engineering

Scheme of Course : B.Tech. - Mechanical Engineering Course Code : BTME

Semester :- 7<sup>th</sup> Sem

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			Total Credit	Distribution of Marks											Duration of Theory Exam
		L	T	P		Theory					Practical					Grand Total (I= D+H)	
						End Sem.		Internal		Total (D= A+B+C)	End Sem.		Internal		Total (H= E+F+G)		
						Max (A)	Min	MST (B)	TW (C)		Max (E)	Min	LW (F)	PQ (G)			
<b>BTME-0701</b>	<b>Elective –I (Refer Table Below )</b>	3	1	-	4	70	22	20	10	100						100	3 Hrs
<b>BTME-0702</b>	<b>Elective –II (Refer Table Below)</b>	3	1	-	4	70	22	20	10	100						100	3 Hrs
<b>BTME-0703</b>	<b>Mechanical Vibration &amp; Noise Engineering</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME-0704</b>	<b>Automobile Engg</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME -0705</b>	<b>O R &amp; Supply Chain</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME-0706</b>	<b>Minor Project and seminar</b>	-	-	4	4	-	-	-	-	-	60	20	20	20	100	100	-
<b>BTME-0707</b>	<b>Industrial Training (2 Week)</b>	-	-	2	2	-	-	-	-	-	30	10	10	10	50	50	-
	<b>Total</b>	15	05	12	32	350	-	100	50	500	180	-	60	60	300	800	

**ME 701 Elective –I**

**BTME-0701(A) Design of Heat Exchanger**  
**BTME-0701(B) Computer Aided Engineering and FEM**  
**BTME-0701(C) Industrial Robotics**  
**BTME-0701(D) Work Study & Ergonomics**

**ME 702 Elective II**

**BTME-0702 (A) Renewable Energy System**  
**BTME-0702 (B) Project management**  
**BTME-0702 (C) Total Quality Management and SQC**  
**BTME-0702 (D) MIS, ERP and e- Business**



# Swami Vivekanand University, Sagar (M.P.)

## Scheme of Examination



Faculty of Engineering

Department of Mechanical Engineering

Scheme of Course : B.Tech. - Mechanical Engineering Course Code : BTME

Semester :- 8<sup>th</sup> Sem

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			Total Credit	Distribution of Marks											Duration of Theory Exam
		L	T	P		Theory					Practical					Grand Total (I= D+H)	
						End Sem.		Internal		Total (D= A+B+C)	End Sem.		Internal		Total (H= E+F+G)		
						Max (A)	Min	MST (B)	TW (C)		Max (E)	Min	LW (F)	PQ (G)			
<b>BTME-0801</b>	<b>Elective –III (Refer Table Below)</b>	3	1	-	4	70	22	20	10	100	-	-	-	-	-	100	3 Hrs
<b>BTME-0802</b>	<b>Machine Design</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME-0803</b>	<b>Refrigeration &amp; Air Conditioning</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME-0804</b>	<b>CAD/CAM/CIM</b>	3	1	2	6	70	22	20	10	100	30	10	10	10	50	150	3 Hrs
<b>BTME -0805</b>	<b>Major Project</b>	-	-	8	8	-	-	-	-	-	120	40	40	40	200	200	-
<b>BTME-0806</b>	<b>Seminar and Group Discussion ( Only Internal</b>	-	-	2	2	-	-	-	-	-	-	-	50	-	-	50	-
	<b>Total</b>	12	4	16	32	280	-	80	40	400	210	-	120	70	350	800	

**BTME 801 Elective –III**

**BTME-0801(A) Energy Management & Audit.**

**BTME-0801 (B) Tools Design and Machine Tools**

**BTME-0801(C) Reliability & Maintenance**

**BTME-0801(D) Simulation & Process Modeling.**