

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



SYLLABUS

For

**MASTER OF TECHNOLOGY (M.Tech)
ADVANCE PRODUCTION SYSTEM**

Course Code : MTAPS

Department of Mechanical Engineering

Faculty of Engineering

Duration of Course	: 2 Years
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 : Mechanical Engineering

Scheme of Course : M.Tech in Advance Production System

Course Code : MTAPS

Semester/Year :- 1 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 (H= D+G)		
						End Sem.		Internal		Total (D= A+B+C)	End Sem.		Internal		Total (G= E+F)	
						Max (A)	Min	MST (B)	TW (C)		Max (E)	Min				
MTAPS-0101	Advance Mathematics	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0102	Advances in Manufacturing Technology	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0103	Computer Integrated Manufacturing	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0104	Computer Aided Process Planning	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0105	Manufacturing Automation And Mechatronics	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0106	Lab-I Advances in Manufacturing Technology	-	-	6	6	-	-	-	-	-	90	36	60	150	150	-
MTAPS-0107	Lab-II Computer Integrated Manufacturing	-	-	6	6	-	-	-	-	-	90	36	60	150	150	-
Total		15	05	12	32	350	-	100	50	500	180	-	120	300	800	



Swami Vivekanand University, Sagar (M.P.)

Scheme of Examination



Faculty of Engineering

Department : Mechanical Engineering

Scheme of Course : M.Tech in Advance Production System Course Code : MTAPS

Semester/Year :- 2 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 (H=D+G)		
						End Sem.		Internal		Total (D=A+B+C)	End Sem.		Internal		Total (G=E+F)	
						Max (A)	Min	MST (B)	TW (C)		Max (E)	Min				
MTAPS-0201	Supply Chain Management	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0202	FMS And FEA	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0203	Operation Management	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0204	Robotics and Automated material Handling	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0205	Reliability and total productive maintenance	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0206	Lab-III FMS And FEA	-	-	6	6	-	-	-	-	-	90	36	60	150	150	-
MTAPS-0207	Lab-IV Robotics and Automated material Handling	-	-	6	6	-	-	-	-	-	90	36	60	150	150	-
	Total	15	05	12	32	350	-	100	50	500	180	-	120	300	800	



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Faculty of Engineering

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Course Code : MTAPS

Semester/Year :- 3 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 (H=D+G)		
						End Sem.		Internal		Total (D=A+B+C)	End Sem.		Internal		Total (G=E+F)	
						Max (A)	Min	MST (B)	TW (C)		Max (E)	Min				
MTAPS-0301	Elective – I (Refer Table Below)	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0302	Elective – II (Refer Table Below)	3	1	-	4	70	28	20	10	100	-	-	-	-	100	3 Hrs
MTAPS-0303	Seminar	-	-	4	4	-	-	-	-	-	-	-	100	100	100	-
MTAPS-0304	Dissertation Part-I (Literature Review/Problem Formulation/Synopsis)	-	-	8	8	-	-	-	-	-	120	48	80	200	200	
	Total	6	2	12	20	140	-	40	20	200	120	-	180	300	500	

Elective I

MTAPS– 0301(A) CNC Machine

MTAPS – 0301 (B) MIS And ERP

Elective II

MTAPS – 0302 (A) Flexible Competitive Mfg. System

MTAPS – 0302 (B) Total Quality Management



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Scheme of Examination



Faculty of Engineering

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Semester/Year :- 4 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 (H= D+G)			
						End Sem.		Internal		Total (D= A+B+C)	End Sem.			Internal		Total (G= E+F)
						Max (A)	Min	MST (B)	TW (C)		Max (E)	Min				
MTAPS-0401	Dissertation Part- II	-	-	20	20	-	-	-	-	-	300	120	200	500	500	-
	Total	-	-	20	20	-	-	-	-	-	300	120	200	500	500	