SWAMIVIVEKANANDUNIVERSITY,SAGAR(M.P.)

SCHEME

For

Master of Technology

M.Tech in Aerospace Engineering

SubjectCode:MTASD

DepartmentofAerospace Engineering

FacultyofEngineering

DurationofCourse : 2Years

ExaminationMode : Semester

ExaminationSystem : Grading

SwamiVivekanandUniversity, Sagar, Madhya Pradesh

Swami Vivekanand University, Sagar (M.P)

Scheme of Examination

Faculty of Engineering — Department of Aerospace Engineering

Scheme of Course: M.Tech in AerospaceStructure & Design Course Code: MTASD Semester: 1st Sem

Sr No	Subject Code	Subject	Lecture Scheme				Distribution of Marks									
							Theory					Practical				
							End Sem		Internal			End Sem		Internal		
			L	T	P	C	Max (a)	Min (b)	MST (c)	TW (d)	Total (e=a+c+d)	Max (f)	Min (g)	LW (h)	Total (i=f+h)	Grand Total (j=e+i)
1	MTASD -0101	Mathematical Methods in Aerospace Engineering	3	1	-	4	70	28	20	10	100					100
2	MTASD -0102	Elements of Aerospace Engineering	3	1	-	4	70	28	20	10	100					100
3	MTASD -0103	Advanced Solid Mechanics	3	1	-	4	70	28	20	10	100					100
4	MTASD -0104	Finite Element Method	3	1	-	4	70	28	20	10	100					100
5	MTASD -0105	Elective I	3	1	-	4	70	28	20	10	100					100
6	MTASD -0106	Elective II	3	1	-	4	70	28	20	10	100					100
7	MTASD -0107	Aerospace Structure Lab (Laboratory-I)	-	-	6	6	-	-	-	-	-	90	36	60	150	150
8	MTASD -0108	Seminar	-	-	2	2	-	-	-	-	-	-	-	50	50	50
Total			18	6	8	32	420		120	60	600	90		110	200	800

Swami Vivekanand University, Sagar (M.P)

Scheme of Examination

Faculty of Engineering — Department of Aerospace Engineering

Scheme of Course: M.Tech in Aerospace Structure & Design — Course Code: MTASD — Semester: 2nd Sem

Sr No	Subject Code	Subject	Lecture Scheme				Distribution of Marks									
							Theory					Practical				
							End Sem		Internal		Total (e=a+c+d)	End Sem		Internal	Total (i=f+h)	Grand Total (j=e+i)
			L	T	P	C	Max (a)	Min (b)	MST (c)	TW (d)		Max (f)	Min (g)	LW (h)		
1	MTASD -0201	Structural Dynamics	3	1	-	4	70	28	20	10	100					100
2	MTASD -0202	Mechanics of Composite Materials	3	1	-	4	70	28	20	10	100					100
3	MTASD -0203	Elective III	3	1	-	4	70	28	20	10	100					100
4	MTASD -0204	Elective IV	3	1	-	4	70	28	20	10	100					100
5	MTASD -0205	Elective V	3	1	-	4	70	28	20	10	100					100
6	MTASD -0206	Elective VI	3	1	-	4	70	28	20	10	100					100
7	MTASD -0207	Aero Computing Lab (Laboratory-II)	-	-	6	6	-	-	-	-	-	90	36	60	150	150
8	MTASD -0208	Seminar	-	-	2	2	-	-	-	-	-	-	-	50	50	50
Total			18	6	8	32	420		120	60	600	90		110	200	800

Swami Vivekanand University, Sagar (M.P)

Scheme of Examination

Faculty of Engineering — Department of Aerospace Engineering

Scheme of Course: M.Tech in Aerospace Structure & Design — Course Code: MTASD — Semester: 3rd Sem

Sr No	Subject Code	Subject	Lecture Scheme				Distribution of Marks									
							Theory					Practical				Grand Total (j=e+i)
							End Sem		Internal		Total (e=a+c+d)	End Sem		Internal	Total (i=f+h)	
			L	T	P	C	Max (a)	Min (b)	MST (c)	TW (d)		Max (f)	Min (g)	LW (h)		
1	MTASD -0301	Seminar	-	-	4	4	-	-	-	-	-			100	100	100
2	MTASD -0302	Project Work-Phase I	-	-	16	16	-	-	-	-	-	240	96	160	400	400
Total			-	-	20	20						240		260	500	500

Swami Vivekanand University, Sagar (M.P)

Scheme of Examination

Faculty of Engineering — Department of Aerospace Engineering

Scheme of Course: M.Tech in Aerospace Structure & Design — Course Code: MTASD — Semester: 4th Sem

Sr No	Subject Code	Subject	Lecture Scheme				Distribution of Marks									
							Theory					Practical				
							End Sem		Internal		Total (e=a+c+d)	End Sem		Internal	Total (i=f+h)	Grand Total (j=e+i)
			L	T	P	C	Max (a)	Min (b)	MST (c)	TW (d)		Max (f)	Min (g)	LW (h)		
1	MTASD -0401	Project Work- Phase II	-	-	20	20	-	-	-	-	-	300	120	200	500	500
Total			-	-	20	20						300		200	500	500

Swami Vivekanand University, Sagar (M.P)

Scheme of Examination

List of Elective:

Subject Code	Subject Name
MTASD-0501	Aero elasticity
MTASD-0502	Continuum Mechanics
MTASD-0503	Multi-Rigid Body Dynamics
MTASD-0504	Energy Methods In Structural Mechanics
MTASD-0505	Advanced Finite Element Method
MTASD-0506	Molecular Dynamics And Materials Failure
MTASD-0507	Fracture Mechanics And Fatigue
MTASD-0508	Stochastic Mechanics And Structural Reliability
MTASD-0509	Elastic Wave Propagation In Solids
MTASD-0510	Aerospace Materials And Processes
MTASD-0511	Operations Research
MTASD-0512	Structural Acoustics And Noise Control
MTASD-0513	Linear Algebra and Perturbation Methods
MTASD-0514	Mechanics Of Aerospace Structures
MTASD-0515	Introduction to Robotics
MTASD-0516	Smart Materials And Structures