

CURRICULUM FOR M. Sc. IN BIOSTATISTICS

1ST YEAR

Semester I						
Syllabus Ref. No.	Subject	Credits	Teaching hours	Marks		
	Theory			Internal Assessment	Semester Exam	Total
MBS 101 T	Basic Mathematics and Introduction to Statistical Methods	4	4	20	80	100
MBS 102 T	Epidemiology	4	4	20	80	100
MBS 103 T	Health Economics	4	4	20	80	100
MBS 104 T	Demography	4	4	20	80	100
MBS 105 T	Health Care System and Policies & Health Surveys	4	4	20	80	100
	Practical					
MBS 101 P	Basic Mathematics and Introduction to Statistical Methods	2	4	10	40	50
MBS 102 P	Epidemiology	2	4	10	40	50
MBS 103 P	Health Economics	2	4	10	40	50
MBS 104 P	Demography	2	4	10	40	50
	Total	28	36	140	560	700

Semester II

Syllabus Ref. No.	Subject	Credits	Teaching hours	Marks		
				Internal Assessment	Semester Exam	Total
Theory						
MBS 106 T	Research Methodology-I	4	4	20	80	100
MBS 107 T	Sampling Techniques in Health	4	4	20	80	100
MBS 108 T	Estimation and Testing of Hypothesis	4	4	20	80	100
MBS 109 T	Applied Multivariate Analysis	4	4	20	80	100
Practical						
MBS 106 P	Research Methodology-I	2	4	10	40	50
MBS 107 P	Sampling Techniques in Health	2	4	10	40	50
MBS 108 P	Estimation and Testing of Hypothesis	2	4	10	40	50
MBS 109 P	Applied Multivariate Analysis	2	4	10	40	50
MBS 110	Seminar	1	2	50	0	50
	Total	25	34	170	480	650

2ND YEAR

Semester III							
	Syllabus Ref. No.	Subject	Credits	Teaching hours	Marks		
	Theory				Internal Assessment	Semester Exam	Total
	MBS 111 T	Biostatistics and Research Methodology-II	4	4	20	80	100
	MBS 112 T	Survival Analysis	4	4	20	80	100
	MBS 113 T	Design of Experiment and Clinical Trial	4	4	20	80	100
		Core Elective course**	4	4	20	80	100
	MBS 114 T	Non parametric Test					
	MBS 115 T	Advance Statistical Computing					
	MBS 116 T	Time Series Analysis					
	MBS 117 T	Operations Research					
	MBS 118	Dissertation/Project*	6	12	50	-	50
		Practical					
	MBS 111 P	Biostatistics and Research Methodology-II	2	4	10	40	50
	MBS 112 P	Survival Analysis	2	4	10	40	50
	MBS 113 P	Design of Experiment and Clinical Trial	2	4	10	40	50
		*Core Electives	2	4	10	40	50
	MBS 114 P	Non parametric Test					
	MBS 115 P	Advance Statistical Computing					
	MBS 116 P	Time Series Analysis					
	MBS 117 P	Operations Research					
	MBS 119	Seminar	1	2	50	0	50
		Total	31	46	220	480	700

Semester IV							
	Syllabus Ref. No.	Subject	Credits	Teaching hours	Marks		
	Theory				Internal Assessment	Semester Exam	Total
		General elective **	4	4	100	-	100
	GE 001 T	Pursuit of Inner Self Excellence (POISE)					
	GE 002 T	Bioethics, Biosafety, IPR & Technology Transfer					
	GE 003 T	Disaster management and mitigation resources					
	GE 004 T	Human rights					
	MBS 118	Dissertation / Project*	18	36	-	200	200
	Practical						
	MBS 120 P	Educational Tour / Field Work/Industrial Visit/Hospital Visit*	2	0	50	-	50
		Total	24	40	150	200	350