

MGM University, Chhatrapati Sambhajinagar

Name of Faculty: Faculty of Basic and Applied Sciences

Name of the College/Institute/Department/School: University Department of Basic and Applied Sciences

Name of the Programme: M.Sc. Statistics

Programme Type (UG/PG): PG

Duration: 2 Years (4 semesters)

First Year - Semester I												
Course Category	Course Code	Course Title	Nature of Course	No. of Credits	Teaching (Contact hrs/ week)		Evaluation Scheme (Marks)			Minimum Passing (Marks)		
					L	P	Internal	External	Total	Internal	External	Total
MM	MSS43MML501	Distribution Theory	L	4	4	-	60	40	100	-	16	40
MM	MSS43MML502	Sampling Methods	L	4	4	-	60	40	100	-	16	40
MM	MSS43MML503	Regression Analysis	L	4	4	-	60	40	100	-	16	40
MM	MSS43MMP501	Data analysis using SPSS	P	2	-	4	30	20	50	-	08	20
ME	MSS43MEL50X	\$Major Elective I	L	4	4	-	60	40	100	-	16	20
RM	MSS43RML501	Research Methodology	L	4	4		60	40	100	-	16	40
Total= 24				22	19	04			550			

Note: \$Major Elective I: To be chosen from Statistical Computing (R Programming)/Computer Graphics

Nature of Course: L- Lecture, P-Practical, S-Seminar, J-Project, I-Internship, D-Dissertation,

Course Category: MM-Major Mandatory, ME-Major Elective, MI-Minor, OE-Generic / Open electives, VSC-Vocational skill course, SEC-Skill Enhancement course, AEC-Ability Enhancement course, IKS-Indian Knowledge system, VEC-Value Education course, OJT-On Job Training / Internship / Apprenticeship, FP-Field project, CEP-Community engagement and service, CC-Co – curricular course, RM-Research methodology, RP-Research project

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First Year - Semester II												
Nature of Course	Course Code	Course Title	Nature of Course	No. of Credits	Teaching (Contact hrs/ week)		Evaluation Scheme (Marks)			Minimum Passing (Marks)		
					L	P	Internal	External	Total	Internal	External	Total
MM	MSS43MML504	Probability Theory	L	4	4	-	60	40	100	-	16	40
MM	MSS43MML505	Parametric Inference	L	4	4	-	60	40	100	-	16	40
MM	MSS43MML506	Stochastic Processes	L	4	4	-	60	40	100	-	16	40
MM	MSS43MMP502	Data Base Management Systems	P	2	-	4	30	20	50	-	08	20
ME	MSS43MEL50X	\$Major Elective II	L	4	4	-	60	40	100	-	16	20
OJT	MSS43RML502	On Job Training	I	4	-	8	60	40	100	-	16	40
Total= 28				22	16	12			550			

Note: \$Major Elective II: To be chosen from Demography/ Statistical Methods in Epidemiology and Ecology

Nature of Course: L- Lecture, P-Practical, S-Seminar, J-Project, I-Internship, D-Dissertation,

Course Category: MM-Major Mandatory, ME-Major Elective, MI-Minor, OE-Generic / Open electives, VSC-Vocational skill course, SEC-Skill Enhancement course, AEC-Ability Enhancement course, IKS-Indian Knowledge system, VEC-Value Education course, OJT-On Job Training / Internship / Apprenticeship, FP-Field project, CEP-Community engagement and service, CC-Co – curricular course, RM-Research methodology, RP-Research project

Exit option: PG Diploma (44 Credits) after Three Year UG Degree

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Second Year - Semester III												
Course Category	Course Code	Course Title	Nature of Course	No. of Credits	Teaching (Contact hrs/ week)		Evaluation Scheme (Marks)			Minimum Passing (Marks)		
					L	P	Internal	External	Total	Internal	External	Total
MM	MSS43MML601	Industrial Statistics	L	4	4	-	60	40	100	-	16	40
MM	MSS43MML602	Operations Research-I	L	4	4	-	60	40	100	-	16	40
MM	MSS43MML603	Design of Experiments	L	4	4	-	60	40	100	-	16	40
MM	MSS43MMP601	Statistical Techniques for Research Methods	P	2	-	4	30	20	50	-	08	20
ME	MSS43MEL60X	\$Major Elective III	L	4	4	-	60	40	100	-	16	40
RP	MSS43RPJ5601	Research Project –I	J	4	-	8	60	40	100	-	16	40
Total=28				22	16	12			550			

Note: \$Major Elective III: To be chosen from Time Series Analysis /Statistical Methods in Finance

Nature of Course: L - Lecture, P-Practical, S-Seminar, J-Project, I-Internship, D-Dissertation,

Course Category: MM-Major Mandatory, ME-Major Elective, MI-Minor, OE-Generic / Open electives, VSC-Vocational skill course, SEC-Skill Enhancement course, AEC-Ability Enhancement course, IKS-Indian Knowledge system, VEC-Value Education course, OJT-On Job Training / Internship / Apprenticeship, FP-Field project, CEP-Community engagement and service, CC-Co – curricular course, RM-Research methodology, RP-Research project

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Second Year - Semester IV												
Course Category	Course Code	Course Title	Nature of Course	No. of Credits	Teaching (Contact hrs/ week)		Evaluation Scheme (Marks)			Minimum Passing (Marks)		
					L	P	Internal	External	Total	Internal	External	Total
MM	MSS43MML604	Reliability and Survival Analysis	L	4	4		60	40	100	-	16	40
MM	MSS43MML605	Operations Research-II	L	4	4		60	40	100	-	16	40
MM	MSS43MML606	Multivariate Analysis	L	4	4		60	40	100	-	16	40
ME	MSS43MML602	\$Major Elective IV	L	4	4		60	40	100	-	16	40
RP	MSS43RPJ602	Research Projects	J	6	-	12	60	40	100	-	16	40
Total=28				22	16	12			500			

Note: \$Major Elective IV: To be chosen from Clinical Trials/ Decision Theory

Nature of Course: L- Lecture, P-Practical, S-Seminar, J-Project, I-Internship, D-Dissertation,

Course Category: MM-Major Mandatory, ME-Major Elective, MI-Minor, OE-Generic / Open electives, VSC-Vocational skill course, SEC-Skill Enhancement course, AEC-Ability Enhancement course, IKS-Indian Knowledge system, VEC-Value Education course, OJT-On Job Training / Internship / Apprenticeship, FP-Field project, CEP-Community engagement and service, CC-Co – curricular course, RM-Research methodology, RP-Research project

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Annexure I

Elective for Year I

Course Code	Course Title	Nature of Course
MSS43MEL501	Statistical Computing (R Programming)	L
MSS43MEL502	Computer Graphics	L
MSS43MEL503	Demography	L
MSS43MEL504	Statistical Methods in Epidemiology and Ecology	L

Elective Basket for Year II

Course Code	Course Title	Nature of Course
MSS43MEL601	Time Series Analysis	L
MSS43MEL602	Statistical Methods in Finance	L
MSS43MEL603	Clinical Trials	L
MSS43MEL604	Decision Theory	L