

MGM University, Chhatrapati Sambhajanagar

Name of Faculty: Faculty of Basic and Applied Science

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

Name of the Programme: M.Sc. Forensic Science

Programme Type (UG/PG): PG

Duration: 02 Years (04 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	MFS43MML501	Advanced Forensic Science	L	3	3	-	60	40	100		16	40
MM	MFS43MML502	Forensic Biology and Serology	L	3	3	-	60	40	100		16	40
MM	MFS43MML503	Forensic Physics	L	3	3	-	60	40	100		16	40
MM	MFS43MMP501	Advanced Forensic Science Lab	P	2	-	4	30	20	50		08	20
MM	MFS43MMP502	Forensic Biology and Serology Lab	P	2	-	4	30	20	50		08	20
MM	MFS43MMP503	Forensic Physics Lab	P	1	-	2	30	20	50		08	20
ME	MFS43MEL50X	\$Major Elective I	L	3	3	-	60	40	100		16	40
ME	MFS43MEL50X	\$Major Elective I Lab	P	1	-	2	30	20	50		08	20
RM	MFS43RML501	Research Methodology	L	4	4	-	60	40	100		16	40
Total = 28				22	16	12			750			

Note: \$Elective to be chosen from: Entrepreneurship in Forensic Science/ Digital and Cyber Forensic I

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

Course Category: MM-Major Mandatory, ME-Major Elective, OJT-On Job Training / Internship / Apprenticeship, RM-Research methodology, RP-Research project

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First Year - Semester II												
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	MFS43MML504	Fingerprint and Questioned Documents	L	3	3	-	60	40	100		16	40
MM	MFS43MML505	Forensic Chemistry and Toxicology	L	3	3	-	60	40	100		16	40
MM	MFS43MML506	Forensic Ballistics	L	3	3	-	60	40	100		16	40
MM	MFS43MMP504	Fingerprint and Questioned Documents lab	P	2	-	4	30	20	50		08	20
	MFS43MMP505	Forensic Chemistry and Toxicology Lab	P	2	-	4	30	20	50		08	20
MM	MFS43MMP506	Forensic Ballistics Lab	P	1	-	2	30	20	50		08	20
ME	MFS43MEL50X	\$Major Elective II	L	3	3	-	60	40	100		16	40
ME	MFS43MEL50X	\$Major Elective II Lab	P	1	-	2	30	20	50		08	20
OJT	MFS43JTI501	Internship/Apprenticeship	I	4	-	8	60	40	100		16	40
Total = 32				22	12	20			700			

Note: \$Elective to be chosen from: Forensic Medicine/ Digital and Cyber Forensic II

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

Course Category: MM-Major Mandatory, ME-Major Elective, OJT-On Job Training / Internship / Apprenticeship, RM-Research methodology, RP-Research project

Exit Option: PG Diploma in Forensic Science (after 3-year 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	MFS43MML6XX	*Paper 1 from opted specialization basket	L	3	3	-	60	40	100		16	40
MM	MFS43MML6XX	*Paper 2 from opted specialization basket	L	3	3	-	60	40	100		16	40
MM	MFS43MML6XX	*Paper 3 from opted specialization basket	L	3	3	-	60	40	100		16	40
MM	MFS43MMP6XX	*Paper 1 Lab	P	2	-	4	30	20	50		08	20
MM	MFS43MMP6XX	*Paper 2 Lab	P	2	-	4	30	20	50		08	20
MM	MFS43MMP6XX	*Paper 3 Lab	P	1	-	2	30	20	50		08	20
ME	MFS43MEL60X	\$Major Elective III	L	3	3	-	60	40	100		16	40
ME	MFS43MEP60X	\$Major Elective III Lab	P	1	-	2	30	20	50		08	20
RP	MFS43RPJ601	Research Project I	J	4	-	8	60	40	100		16	40
Total = 32				22	12	20			700			

Note:* To be chosen from specialisation basket. \$ME to be chosen from ME basket.

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

Course Category: MM-Major Mandatory, ME-Major Elective, OJT-On Job Training / Internship / Apprenticeship, 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	MFS43MML6XX	*Paper 4 from opted specialization basket	L	3	3	-	60	40	100		16	40
MM	MFS43MML6XX	*Paper 5 from opted specialization basket	L	3	3	-	60	40	100		16	40
MM	MFS43MML606	Forensic Report Writing	L	2	2	-	30	20	50		08	20
MM	MFS43MMP6XX	*Paper 4 Lab	P	2	-	4	30	20	50		08	20
MM	MFS43MMP6XX	*Paper 5 Lab	P	2	-	4	30	20	50		08	20
ME	MFS43MEL60X	\$Major Elective IV	L	3	3	-	60	40	100		16	40
ME	MFS43MEP60X	\$Major Elective IV Lab	P	1	-	2	30	20	50		08	20
RP	MFS43RPJ602	Research Project II	J	6	-	12	60	40	100		16	40
Total = 33				22	11	22			600			

Note:* To be chosen from specialisation basket. \$ME to be chosen from ME basket.

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

Course Category: MM-Major Mandatory, ME-Major Elective, OJT-On Job Training / Internship / Apprenticeship, RM-Research methodology, RP-Research project

Award of 2 Years-4 Sem M.Sc. Forensic Science Degree[with specialization] (80-88 credits) after Three Year UG Degree

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Annexure I

Elective for Year I

Course Code	Course Title	Nature of Course
MFS43MEL501	Entrepreneurship in Forensic Science	L
MFS43MEJ501	Entrepreneurship in Forensic Science Project	P
MFS43MEL502	Digital and Cyber Forensic I	L
MFS43MEP502	Digital and Cyber Forensic I Lab	P
MFS43MEL503	Digital and Cyber Forensic II	L
MFS43MEP503	Digital and Cyber Forensic II Lab	P
MFS43MEL504	Forensic Medicine	L
MFS43MEP504	Seminar	P

Elective Basket for Year II

Course Code	Course Title	Nature of Course
MFS43MEL601	Forensic Entomology	L
MFS43MEP601	Forensic Entomology Lab	P
MFS43MEL602	Forensic Multimedia analysis	L
MFS43MEP602	Forensic Multimedia analysis Lab	P
MFS43MEL603	Electronically Printed and Security Documents	L
MFS43MEP603	Electronically Printed and Security Documents Lab	P
MFS43MEL604	Explosives and Fire-arson investigation	L
MFS43MEP604	Explosives and Fire-arson investigation Lab	P
MFS43MEL605	Wildlife and environmental forensics	L
MFS43MEP605	Wildlife and environmental forensics Lab	P
MFS43MEL606	Vulnerability assessment and penetration testing	L
MFS43MEP606	Vulnerability assessment and penetration testing Lab	P

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Specialization for Year II

Specialization	Paper No	Course Code	Course Title	Nature of Course
Question Documents and Fingerprints	Paper 1	MFS43MML601	Electronically Printed and Security Documents	L
	Paper 1 Lab	MFS43MMP601	Electronically Printed and Security Documents Lab	P
	Paper 2	MFS43MML602	Handwriting and Signature Analysis	L
	Paper 2 Lab	MFS43MMP602	Handwriting and Signature Analysis Lab	P
	Paper 3	MFS43MML603	Fingerprint Development, Comparison and AFIS	L
	Paper 3 Lab	MFS43MMP603	Fingerprint Development, Comparison and AFIS Lab	P
	Paper 4	MFS43MML604	Forensic photography of questioned documents	L
	Paper 4 Lab	MFS43MMP604	Forensic photography of questioned documents Lab	P
	Paper 5	MFS43MML605	Biometrics	L
	Paper 5 Lab	MFS43MMP605	Biometrics Lab	P
Forensic Physics and Ballistics	Paper 1	MFS43MML606	Forensic Physics and impression evidence analysis	L
	Paper 1 Lab	MFS43MMP606	Forensic Physics and impression evidence analysis Lab	P
	Paper 2	MFS43MML607	Forensic Audio and Video analysis	L
	Paper 2 Lab	MFS43MMP607	Forensic Audio and Video analysis Lab	P
	Paper 3	MFS43MML608	Advances in forensic Physics and ballistics	L
	Paper 3 Lab	MFS43MMP608	Advances in forensic Physics and ballistics Lab	P
	Paper 4	MFS43MML609	Instrumentation and techniques in Forensic physics and ballistics	L
	Paper 4 Lab	MFS43MMP609	Instrumentation and techniques in Forensic physics and ballistics Lab	P
	Paper 5	MFS43MML610	Forensic Engineering	L
	Paper 5 Lab	MFS43MMP610	Forensic Engineering Lab	P
Forensic Chemistry and Toxicology	Paper 1	MFS43MML611	Advanced Forensic Toxicology	L
	Paper 1 Lab	MFS43MMP611	Advanced Forensic Toxicology	P
	Paper 2	MFS43MML612	Instrumentation in Forensic Chemistry and Toxicology	L
	Paper 2 Lab	MFS43MMP612	Instrumentation in Forensic Chemistry and Toxicology Lab	P
	Paper 3	MFS43MML613	Forensic Pharmacology and Pharmaceutical Drugs analysis	L
	Paper 3 Lab	MFS43MMP613	Forensic Pharmacology and Pharmaceutical Drugs analysis Lab	P
	Paper 4	MFS43MML614	Explosives and Fire-arson investigation	L
	Paper 4 Lab	MFS43MMP614	Explosives and Fire-arson investigation Lab	P
	Paper 5	MFS43MML615	Narcotics and Psychotropic substances	L

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Specialization	Paper No	Course Code	Course Title	Nature of Course
	Paper 5 Lab	MFS43MMP615	Narcotics and Psychotropic substances Lab	P
Forensic Biology and Serology	Paper 1	MFS43MML616	Forensic Entomology and Environment Forensics	L
	Paper 1 Lab	MFS43MMP616	Forensic Entomology and Environment Forensics Lab	P
	Paper 2	MFS43MML617	Microbial forensics and Bioinformatics	L
	Paper 2 Lab	MFS43MMP617	Microbial forensics and Bioinformatics Lab	P
	Paper 3	MFS43MML618	Forensic anthropology and odontology	L
	Paper 3 Lab	MFS43MMP618	Forensic anthropology and odontology Lab	P
	Paper 4	MFS43MML619	Wildlife and environmental forensics	L
	Paper 4 Lab	MFS43MMP619	Wildlife and environmental forensics Lab	P
	Paper 5	MFS43MML620	Molecular Biology and Recombinant DNA	L
	Paper 5 Lab	MFS43MMP620	Molecular Biology and Recombinant DNA Lab	P
Digital and Cyber Forensics	Paper 1	MFS43MML621	Network and Malware forensics	L
	Paper 1 Lab	MFS43MMP621	Network and Malware forensics Lab	P
	Paper 2	MFS43MML622	Mobile and other wireless devices forensics	L
	Paper 2 Lab	MFS43MMP622	Mobile and other wireless devices forensics Lab	P
	Paper 3	MFS43MML623	Digital forensics and biometrics Lab	L
	Paper 3 Lab	MFS43MMP623	Digital forensics and biometrics Lab	P
	Paper 4	MFS43MML624	Cryptography Lab	L
	Paper 4 Lab	MFS43MMP624	Cryptography Lab	P
	Paper 5	MFS43MML625	Vulnerability assessment and penetration testing	L
Paper 5 Lab	MFS43MMP625	Vulnerability assessment and penetration testing Lab	P	