

Name of Faculty: Faculty of Engineering and Technology

Name of the Department: Institute of Biosciences & Technology

Name of the Programme: M. Tech. Food Technology

Programme Type (UG/PG): PG

Duration: 2 Years

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	MTF42MML101	Thermal and Non-Thermal Food Processing Technologies	Lecture	2	2	-	60	40	100	-	16	40
MM	MTF42MML102	Advanced Food Chemistry and Microbiology	Lecture	2	2	-	60	40	100	-	16	40
MM	MTF42MML103	Food Process Engineering, Automation and Modeling	Lecture	2	2	-	60	40	100	-	16	40
RM	MTF42RML101	Research process and Methodology	Lecture	2	2		60	40	100	-	16	40
ME		Elective I	Lecture	2	2	-	60	40	100	-	16	40
ME		Electives II	Lecture	2	2		60	40	100	-	16	40
MM	MTF42MMP101	Product Development and Process Engineering Lab	Practical	4	-	8	60	40	100	-	16	40
MM	MTF42MMP102	Food Chemistry and Microbiology Lab	Practical	4	-	8	60	40	100	-	16	40
Total				20	12	16	480	320	800		-	-

Nature of Course :-*MM- Major Mandatory, ME- Major Elective, L- Lecture, P-Practical, RP- Research Project, RM-Research Mandatory, D- Dissertation

List of Elective courses

Elective-I

1. Snack and Specialty food products technology - MTF42MEL101
2. Food Additives, Ingredients and safety evaluation- MTF42MEL102
3. Food Industry Waste valorization - MTF42MEL103

Elective-II

1. Food Informatics - MTF42MEL104
2. Supply Chain Management - MTF42MEL105
3. Food and Bio-fortification - MTF42MEL106

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	MTF42MML104	Food Product Innovation & Sensory science	Lecture	2	2	-	60	40	100	-	16	40
MM	MTF42MML105	Global Food Safety Standard, Food Quality and Certifications	Lecture	2	2	-	60	40	100	-	16	40
MM	MTF42MML106	Modern Food Packaging Technologies	Lecture	2	2	-	60	40	100	-	16	40
RM	MTF42RML102	Bioethics Biosafety and IPR	Lecture	2	2		60	40	100	-	16	40
ME		Elective -III	Lecture	2	2	-	60	40	100	-	16	40
ME		Elective-IV	Lecture	2	2		60	40	100	-	16	40
MM	MTF42MMP103	Food Products design, Innovations & Sensory Lab	Practical	4	-	8	60	40	100	-	16	40
MM	MTF42MMP104	Advanced Food Quality and Packaging Lab	Practical	4	-	8	60	40	100	-	16	40
Total				20	12	16	480	320	800		-	-

Nature of Course:- *MM- Major Mandatory, ME- Major Elective, L- Lecture, P-Practical, RP- Research Project, RM-Research Mandatory, D- Dissertation

List of Elective courses

Elective-III

1. Food Nanotechnology & Nutraceuticals – MTF42MEL107
2. Food Rheology and Microstructure - MTF42MEL108
3. Bioprocessing and Fermentation Technology- MTF42MEL109

Elective-IV

1. Food Entrepreneurship and Startups - MTF42MEL110
2. Food safety & Risk analysis - MTF42MEL111
3. Food Traceability and Blockchain Technology - MTF42MEL112

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	MTF42MML201	Food Industry Automation & IoT Applications	Lecture	2	2	-	60	40	100	-	16	40
MM	MTF42MMP201	Seminar & Technical Presentation	Practical	1	-	2	60	40	100	-	16	40
RP	MTF42RPD201	Dissertation-I	Dissertation	13	-	26	120	80	200	-	32	80
Total				16	2	28	240	160	400	-	-	-

Nature of Course: -*MM- Major Mandatory, ME- Major Elective, L- Lecture, P-Practical, RP- Research Project, RM-Research Mandatory, D- Dissertation

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
RP	MTF42RPD202	Dissertation-II	Dissertation	16	-	32	120	80	200	-	32	80
Total				16	-	32	120	80	200	-	-	-

Nature of Course: -*MM- Major Mandatory, ME- Major Elective, L- Lecture, P-Practical, RP- Research Project, RM-Research Mandatory, D-Dissertation