

Symbiosis School of Culinary Arts and Nutritional Sciences, Pune
Master of Science (Nutrition & Dietetics)
Programme Structure 2024-26

1.	OBJECTIVE	To nurture, cultivate, and promote nutritionists and dietitians and create an ecosystem for innovation that enables development of strategies of social relevance.				
2.	DURATION (IN MONTHS)	24 (Full Time)				
3.	INTAKE	80				
4.	RESERVATION	I. Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage)	c) Differently abled (In Percentage)	d) Defence (In Percentage)
			15	7.5	3	0
		II. Over and above the sanctioned intake	a) Kashmiri Migrants (In Seats)	b) International Students (In Percentage)		
			2	20		
5.	ELIGIBILITY	Graduate in Life Sciences/ Home Sciences/ Health Sciences and any other Biological sciences from any recognized University/ Institution of National Importance and must have obtained a minimum of 50% marks or equivalent grade (45% marks or equivalent grade for Scheduled Caste/ Scheduled Tribes) at graduation.				
6.	SELECTION PROCEDURE	Written test / Personal Interaction.				
7.	MEDIUM OF INSTRUCTION	English				
8.	PROGRAMME PATTERN	Semester				
9.	COURSE & SPECIALIZATION	As per Annexure A				
		List of Specializations Offered (Choose any one) 1. Nutrition and Population Health 2. Personalized Nutrition 3. Clinical Nutrition and Dietetics 4. Food Safety and Quality Management				
10.	FEE		Academic Fee p.a	Institute Deposit	Total	

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	Indian Students (Amount in INR)		220000	20000	240000			
	International Students	NRI/ PIO/ OCI Category (Amount in US\$)	4300	275	4575			
		Foreign National Category (Amount in US\$)	1950	275	2225			
11. ASSESSMENT	The courses will have 60% Continuous Assessment and 40% Term End [University] examination however, some courses (not more than 30% of the total programme credits) may have 100% Continuous Assessment.							
12. STANDARD OF PASSING	The assessment of the student for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (Outstanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4 corresponding to Grade P. Students securing less than 40% absolute marks in each head of passing will be declared FAIL. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of maximum of 10 CGPA for the programme.							
13. AWARD OF DEGREE	Master of Science (Nutrition and Dietetics) with specialization in Nutrition and Population Health / Personalized Nutrition / Clinical Nutrition and Dietetics / Food Safety and Quality Management will be awarded at the end of semester 4 examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA.							
14. CLASSIFICATION OF CREDITS								
Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Mandatory Non-Credit Course/s	Non-Letter Grade Audit Course/s	Total
Common								
1	20	0	0	0	0	0	As per the student's choice	20
2	3	2	15	0	0	1		20
3	0	0	20	0	0	1		20
4	0	0	20	0	0	0		20
Total	23	2	55	0	0	0		80

This Programme Structure is aligned with the norms laid down by the University and is approved by the Academic Council.
Hereafter changes (if any) which conform to the policy on "Curriculum Development and Review" would be permissible, subject to revision of the Programme Structure, following the specified processes.

Director - Academics

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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Continuous Assessment	Term End Examination	Total Marks
Semester : 1							
Generic Core Courses							
T4726	0406420101	Biostatistics		3	90	60	150
T4739	0406420102	Food Quality and Safety		3	90	60	150
T4740	0406420103	Nutrition through Life Cycle and Meal Management		3	90	60	150
T4736	0406420104	Nutritional Biochemistry		3	90	60	150
T4737	0406420105	Physiology		3	90	60	150
T4735	0406420106	Principles of Human Nutrition		3	90	60	150
T4725	0406420107	Research Methodology		2	60	40	100
Total				20	600	400	1000
Semester : 2							
Generic Core Courses							
TH4284	0406420201	Laboratory Techniques - I		3	90	60	150
TH4788	0406420202	Health and Wellness Module I		0	0	0	Mandatory Non-Credit Course
Total				3	90	60	150
Generic Elective Course Group (Choose any one Course)							
TH4176	0406420203	Animal Food Processing		2	60	40	100
TH4199	0406420204	Entrepreneurship in the Food Industry		2	60	40	100
TH4175	0406420205	Food Journalism and Social Marketing		2	60	40	100
TH4285	0406420206	Food System		2	60	40	100
Total Required Credits				2	60	40	100
Specialization Core Courses : Nutrition and Population Health							
T4746	0406420207	Lifestyle Disease Management	Nutrition and Population Health	3	90	60	150
T4744	0406420208	Nutrition Education and Health Promotion	Nutrition and Population Health	3	90	60	150
T4742	0406420209	Nutritional Epidemiology	Nutrition and Population Health	3	90	60	150
T4745	0406420210	Public Health Nutrition	Nutrition and Population Health	3	90	60	150
T4754	0406420211	Biostatistics - II	Nutrition and Population Health	3	90	60	150
Total				15	450	300	750

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Specialization Core Courses : Personalized Nutrition							
T4742	0406420209	Nutritional Epidemiology	Personalized Nutrition	3	90	60	150
T4768	0406420212	Cell and Molecular Biology	Personalized Nutrition	3	90	60	150
T4752	0406420213	Genetics	Personalized Nutrition	3	90	60	150
T4747	0406420214	Medical Nutrition Therapy - I	Personalized Nutrition	3	90	60	150
T4748	0406420215	Medical Nutrition Therapy Practical - I	Personalized Nutrition	3	90	60	150
Total				15	450	300	750
Specialization Core Courses : Clinical Nutrition and Dietetics							
T4742	0406420209	Nutritional Epidemiology	Clinical Nutrition and Dietetics	3	90	60	150
T4747	0406420214	Medical Nutrition Therapy - I	Clinical Nutrition and Dietetics	3	90	60	150
T4748	0406420215	Medical Nutrition Therapy Practical - I	Clinical Nutrition and Dietetics	3	90	60	150
T4751	0406420216	Nutrition Care Process	Clinical Nutrition and Dietetics	2	60	40	100
T4749	0406420217	Nutrition Education and Counselling	Clinical Nutrition and Dietetics	2	60	40	100
TH4166	0406420218	Sports Physiology and Nutrition	Clinical Nutrition and Dietetics	2	60	40	100
Total				15	450	300	750
Specialization Core Courses : Food Safety and Quality Management							
TH4172	0406420219	Food Legislations and Policies-I	Food Safety and Quality Management	2	60	40	100
TH4171	0406420220	Food Chemistry and Rheology	Food Safety and Quality Management	3	90	60	150
TH4165	0406420221	Food Processing and Preservation Practicals	Food Safety and Quality Management	3	90	60	150
TH4170	0406420222	Food Product Development And Consumer Studies	Food Safety and Quality Management	3	90	60	150
TH4168	0406420223	Industrial Hygiene and Sanitation Governance	Food Safety and Quality Management	2	60	40	100
TH4178	0406420224	Epidemiology and food safety	Food Safety and Quality Management	2	60	40	100
Total				15	450	300	750
Semester : 3							

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Generic Core Courses							
TH4789	0406420301	Health and Wellness Module II		0	0	0	Mandatory Non-Credit Course
Total				0	0	0	0
Specialization Core Courses : Nutrition and Population Health							
T4755	0406420302	Global Nutrition	Nutrition and Population Health	3	90	60	150
T4753	0406420303	Maternal and Child Nutrition	Nutrition and Population Health	3	90	60	150
T4758	0406420304	Nutrition during Emergencies and Challenging Conditions	Nutrition and Population Health	3	90	60	150
TH4714	0406420305	Nutrition Policy and Advocacy	Nutrition and Population Health	2	60	40	100
TH4715	0406420306	Nutrition Program Planning, Monitoring, and Evaluation	Nutrition and Population Health	2	60	40	100
T4743	0406420307	Social Determinants of Nutrition and Health	Nutrition and Population Health	3	90	60	150
TH4716	0406420308	Public Health Nutrition Field Training	Nutrition and Population Health	2	60	40	100
TH4717	0406420309	Research Application in Public Health Nutrition	Nutrition and Population Health	2	60	40	100
Total				20	600	400	1000
Specialization Core Courses : Personalized Nutrition							
T4727	0406420310	Genomics, Proteomics and Bioinformatics	Personalized Nutrition	3	90	60	150
T4770	0406420311	Laboratory Techniques - II	Personalized Nutrition	3	90	60	150
T4760	0406420312	Medical Nutrition Therapy - II	Personalized Nutrition	3	90	60	150
T4764	0406420313	Nutraceuticals and Functional Foods	Personalized Nutrition	3	90	60	150
TH4713	0406420314	Medical Nutrition Therapy Practical - II	Personalized Nutrition	3	90	60	150
T4769	0406420315	Precision Medicine	Personalized Nutrition	3	90	60	150
T4762	0406420316	Nutrition Therapy in Critical Care	Personalized Nutrition	2	60	40	100
Total				20	600	400	1000
Specialization Core Courses : Clinical Nutrition and Dietetics							

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T4760	0406420312	Medical Nutrition Therapy - II	Clinical Nutrition and Dietetics	3	90	60	150
T4764	0406420313	Nutraceuticals and Functional Foods	Clinical Nutrition and Dietetics	3	90	60	150
T4762	0406420316	Nutrition Therapy in Critical Care	Clinical Nutrition and Dietetics	2	60	40	100
T4761	0406420317	Medical Nutrition Therapy Practical - II	Clinical Nutrition and Dietetics	3	90	60	150
T4766	0406420318	Pediatric and Geriatric Nutrition	Clinical Nutrition and Dietetics	3	90	60	150
T4765	0406420319	Food Service Management and Entrepreneurship	Clinical Nutrition and Dietetics	2	60	40	100
T4763	0406420320	Nutrition Therapy in Critical Care-Practical	Clinical Nutrition and Dietetics	2	60	40	100
T4767	0406420321	Research Applications in Clinical Nutrition and Dietetics	Clinical Nutrition and Dietetics	2	60	40	100
Total				20	600	400	1000
Specialization Core Courses : Food Safety and Quality Management							
T4770	0406420311	Laboratory Techniques - II	Food Safety and Quality Management	3	90	60	150
T4764	0406420313	Nutraceuticals and Functional Foods	Food Safety and Quality Management	3	90	60	150
TH4169	0406420322	Food Safety And Quality Management	Food Safety and Quality Management	3	90	60	150
TH4174	0406420323	Start Ups and Intellectual Property Rights (IPR)	Food Safety and Quality Management	3	90	60	150
TH4173	0406420324	Food Legislations and Policies-II	Food Safety and Quality Management	2	60	40	100
TH4167	0406420325	Food security and Food systems approach	Food Safety and Quality Management	2	60	40	100
TH4177	0406420326	Packaging Technology	Food Safety and Quality Management	2	60	40	100
TH4463	0406420327	Research Applications in Food Industry	Food Safety and Quality Management	2	60	40	100
Total				20	600	400	1000
Semester : 4							
Specialization Core Courses : Nutrition and Population Health							
T4905	0406420401	Public Health Nutrition Internship	Nutrition and Population Health	5	150	100	250
T4715	0406420402	Public Health Nutrition Dissertation	Nutrition and Population Health	15	450	300	750
Total				20	600	400	1000

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Specialization Core Courses : Personalized Nutrition							
T4715	0406420403	Nutrigenomics Dissertation	Personalized Nutrition	15	450	300	750
T4905	0406420404	Nutrigenomics Internship	Personalized Nutrition	5	150	100	250
Total				20	600	400	1000
Specialization Core Courses : Clinical Nutrition and Dietetics							
T4710	0406420405	Clinical Nutrition and Dietetics Dissertation	Clinical Nutrition and Dietetics	10	300	200	500
T4910	0406420406	Clinical Nutrition and Dietetics Internship	Clinical Nutrition and Dietetics	10	300	200	500
Total				20	600	400	1000
Specialization Core Courses : Food Safety and Quality Management							
T4710	0406420407	Food Safety and Quality Management Dissertation	Food Safety and Quality Management	10	300	200	500
T4910	0406420408	Food Safety and Quality Management Internship	Food Safety and Quality Management	10	300	200	500
Total				20	600	400	1000

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Semester	Continuous Assessment	Term End Examination	Total Credits	Total Marks
Semester 1	0	20	20	1000
Semester 2	0	20	20	1000
Semester 3	0	20	20	1000
Semester 4	0	20	20	1000
Total	0	80	80	4000