



Symbiosis Institute of Health Sciences, Pune
Master of Science (Nutrition and Dietetics)
Programme Structure 2020-22

| | | | | | |
|-----|------------------------------------|--|--|--|---|
| 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 | 60 | | | |
| 4. | RESERVATION | I. Within the sanctioned intake | a) SC (In Percentage) | b) ST (In Percentage) | c) Differently abled (In Percentage) |
| | | | 15 | 7.5 | 3 |
| | | II. Over and above the sanctioned intake | a) Kashmiri Migrants (In Seats) | b) International Students (In Percentage) | |
| | | | 2 | 15 | |
| 5. | ELIGIBILITY | Graduate in Life Sciences / Home Sciences / Health Sciences and any other Biological sciences from any recognized University/ Institution of National Importance with a minimum of 50% marks or equivalent grade (45% marks or equivalent grade for Scheduled Caste / Scheduled Tribes). | | | |
| 6. | SELECTION PROCEDURE | Written test/ Personal Interaction. | | | |
| 7. | MEDIUM OF INSTRUCTION | English | | | |
| 8. | PROGRAMME PATTERN | Semester | | | |
| 9. | COURSE & SPECIALIZATION | As per Annexure A | | | |
| 10. | FEE | | Academic Fee p.a | Institute Deposit | Total |
| | | Indian Students | 210000 | 20000 | 230000 |
| | | International Students (USD equivalent to INR) | 315000 | 20000 | 335000 |
| 11. | ASSESSMENT | All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 60% internal component and 40% component as external (University) examination. | | | |
| 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 4.000 out of maximum of 10 CGPA for the programme. | | | |

| 13. | AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE | Master of Science (Nutrition and Dietetics with specialization in Public Health and Nutrition) / Master of Science (Nutrition and Dietetics with specialization in Clinical Nutrition and Dietetics) / Master of Science (Nutrition and Dietetics with specialization in Nutrigenomics) will be awarded at the end of semester IV examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA. | | | | | |
|--|--|---|---------------------|-------------------------|---------------|----------|-----------|
| 14. NATURE WISE DISTRIBUTION OF CREDITS | | | | | | | |
| Semester | Generic Core | Generic Elective | Specialization Core | Specialization Elective | Open Elective | Audit | Total |
| 1 | 20 | 0 | 0 | 0 | 0 | 0 | 20 |
| 2 | 8 | 0 | 12 | 0 | 0 | 1* | 20 |
| 3 | 0 | 0 | 20 | 0 | 0 | 1* | 20 |
| 4 | 0 | 0 | 20 | 0 | 0 | 0 | 20 |
| Total | 28 | 0 | 52 | 0 | 0 | 0 | 80 |
| * Satisfactory completion of the non letter- grade courses 'Integrated Disaster Management' and 'Research Publication' is mandatory for award of degree. | | | | | | | |

Programme Structure is approved by the Academic Council subject to its norms & conditions. Any provision in the Programme Structure which violates the basic rules & regulations is deemed to be termed "Null & Void".

Head-Academics

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Celebrating 50 Years of Excellence

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Annexure A

| Catalog Course Code | Course Code | Course Title | Specialization | Credit | Internal Marks | External Marks | Total Marks |
|---|-------------|--|----------------------------------|-----------|----------------|----------------|------------------|
| Semester : 1 | | | | | | | |
| Generic Core Courses | | | | | | | |
| T4735 | 0401450101 | Principles of Human Nutrition | | 3 | 90 | 60 | 150 |
| T4736 | 0401450102 | Nutritional Biochemistry | | 3 | 90 | 60 | 150 |
| T4737 | 0401450103 | Physiology | | 3 | 90 | 60 | 150 |
| T4738 | 0401450104 | Food Microbiology | | 3 | 90 | 60 | 150 |
| T4739 | 0401450105 | Food Quality and Safety | | 3 | 90 | 60 | 150 |
| T4740 | 0401450106 | Nutrition through Life Cycle and Meal Management | | 3 | 90 | 60 | 150 |
| T4725 | 0401450107 | Research Methodology | | 2 | 60 | 40 | 100 |
| Total | | | | 20 | 600 | 400 | 1000 |
| Semester : 2 | | | | | | | |
| Generic Core Courses | | | | | | | |
| T4726 | 0401450201 | Biostatistics | | 3 | 90 | 60 | 150 |
| T4742 | 0401450202 | Nutritional Epidemiology | | 3 | 90 | 60 | 150 |
| T4741 | 0401450203 | Laboratory Techniques - 1 | | 2 | 60 | 40 | 100 |
| T4005 | 0401450204 | Integrated Disaster Management * | | 0 | 0 | 0 | Non Letter Grade |
| Total | | | | 8 | 240 | 160 | 400 |
| Specialization Core Courses : Public Health Nutrition | | | | | | | |
| T4743 | 0401450205 | Social Determinants of Nutrition and Health | Public Health Nutrition | 3 | 90 | 60 | 150 |
| T4744 | 0401450206 | Nutrition Education and Health Promotion | Public Health Nutrition | 3 | 90 | 60 | 150 |
| T4745 | 0401450207 | Public Health Nutrition | Public Health Nutrition | 3 | 90 | 60 | 150 |
| T4746 | 0401450208 | Lifestyle Disease Management | Public Health Nutrition | 3 | 90 | 60 | 150 |
| Total | | | | 12 | 360 | 240 | 600 |
| Specialization Core Courses : Nutrigenomics | | | | | | | |
| T4727 | 0401450209 | Genomics, Proteomics and Bioinformatics | Nutrigenomics | 3 | 90 | 60 | 150 |
| T4747 | 0401450210 | Medical Nutrition Therapy - I | Nutrigenomics | 3 | 90 | 60 | 150 |
| T4748 | 0401450211 | Medical Nutrition Therapy Practical - I | Nutrigenomics | 3 | 90 | 60 | 150 |
| T4752 | 0401450212 | Genetics | Nutrigenomics | 3 | 90 | 60 | 150 |
| Total | | | | 12 | 360 | 240 | 600 |
| Specialization Core Courses : Clinical Nutrition and Dietetics | | | | | | | |
| T4747 | 0401450210 | Medical Nutrition Therapy - I | Clinical Nutrition and Dietetics | 3 | 90 | 60 | 150 |
| T4748 | 0401450211 | Medical Nutrition Therapy Practical - I | Clinical Nutrition and Dietetics | 3 | 90 | 60 | 150 |
| F0002 | 0401450213 | Flexi-Credit Course | Clinical Nutrition and Dietetics | 2 | 60 | 40 | 100 |
| T4749 | 0401450214 | Nutrition Education and Counselling | Clinical Nutrition and Dietetics | 2 | 60 | 40 | 100 |
| T4751 | 0401450215 | Nutrition Care Process | Clinical Nutrition and Dietetics | 2 | 60 | 40 | 100 |
| Total | | | | 12 | 360 | 240 | 600 |
| Semester : 3 | | | | | | | |
| Generic Core Courses | | | | | | | |
| T0100 | 0401450301 | Research Publication * | | 0 | 0 | 0 | Non Letter Grade |
| Total | | | | 0 | 0 | 0 | 0 |
| Specialization Core Courses : Public Health Nutrition | | | | | | | |
| T4753 | 0401450302 | Maternal and Child Nutrition | Public Health Nutrition | 3 | 90 | 60 | 150 |
| T4754 | 0401450303 | Biostatistics - II | Public Health Nutrition | 3 | 90 | 60 | 150 |
| T4755 | 0401450304 | Global Nutrition | Public Health Nutrition | 3 | 90 | 60 | 150 |
| T4756 | 0401450305 | Nutrition Policy and Advocacy | Public Health Nutrition | 3 | 90 | 60 | 150 |



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| Catalog Course Code | Course Code | Course Title | Specialization | Credit | Internal Marks | External Marks | Total Marks |
|---|-------------|---|----------------------------------|-----------|----------------|----------------|-------------|
| T4758 | 0401450306 | Nutrition during Emergencies and Challenging Conditions | Public Health Nutrition | 3 | 90 | 60 | 150 |
| T4759 | 0401450307 | Public Health Nutrition - Field Training | Public Health Nutrition | 3 | 90 | 60 | 150 |
| T4757 | 0401450308 | Programme Planning and Management | Public Health Nutrition | 2 | 60 | 40 | 100 |
| Total | | | | 20 | 600 | 400 | 1000 |
| Specialization Core Courses : Nutrigenomics | | | | | | | |
| T4760 | 0401450309 | Medical Nutrition Therapy - II | Nutrigenomics | 3 | 90 | 60 | 150 |
| T4761 | 0401450310 | Medical Nutrition Therapy Practical - II | Nutrigenomics | 3 | 90 | 60 | 150 |
| T4764 | 0401450311 | Nutraceuticals and Functional Foods | Nutrigenomics | 3 | 90 | 60 | 150 |
| T4768 | 0401450312 | Cell and Molecular Biology | Nutrigenomics | 3 | 90 | 60 | 150 |
| T4769 | 0401450313 | Precision Medicine | Nutrigenomics | 3 | 90 | 60 | 150 |
| T4770 | 0401450314 | Laboratory Techniques - II | Nutrigenomics | 3 | 90 | 60 | 150 |
| T4762 | 0401450315 | Nutrition Therapy in Critical Care | Nutrigenomics | 2 | 60 | 40 | 100 |
| Total | | | | 20 | 600 | 400 | 1000 |
| Specialization Core Courses : Clinical Nutrition and Dietetics | | | | | | | |
| T4760 | 0401450309 | Medical Nutrition Therapy - II | Clinical Nutrition and Dietetics | 3 | 90 | 60 | 150 |
| T4761 | 0401450310 | Medical Nutrition Therapy Practical - II | Clinical Nutrition and Dietetics | 3 | 90 | 60 | 150 |
| T4764 | 0401450311 | Nutraceuticals and Functional Foods | Clinical Nutrition and Dietetics | 3 | 90 | 60 | 150 |
| T4762 | 0401450315 | Nutrition Therapy in Critical Care | Clinical Nutrition and Dietetics | 2 | 60 | 40 | 100 |
| T4766 | 0401450316 | Pediatric and Geriatric Nutrition | Clinical Nutrition and Dietetics | 3 | 90 | 60 | 150 |
| T4763 | 0401450317 | Nutrition Therapy in Critical Care-Practical | Clinical Nutrition and Dietetics | 2 | 60 | 40 | 100 |
| T4765 | 0401450318 | Food Service Management and Entrepreneurship | Clinical Nutrition and Dietetics | 2 | 60 | 40 | 100 |
| T4767 | 0401450319 | Research Applications in Clinical Nutrition and Dietetics | Clinical Nutrition and Dietetics | 2 | 60 | 40 | 100 |
| Total | | | | 20 | 600 | 400 | 1000 |
| Semester : 4 | | | | | | | |
| Specialization Core Courses : Public Health Nutrition | | | | | | | |
| T4714 | 0401450401 | Public Health Nutrition Dissertation | Public Health Nutrition | 15 | 450 | 300 | 750 |
| T4904 | 0401450402 | Public Health Nutrition Internship | Public Health Nutrition | 5 | 150 | 100 | 250 |
| Total | | | | 20 | 600 | 400 | 1000 |
| Specialization Core Courses : Nutrigenomics | | | | | | | |
| T4714 | 0401450403 | Nutrigenomics Dissertation | Nutrigenomics | 15 | 450 | 300 | 750 |
| T4904 | 0401450404 | Nutrigenomics Internship | Nutrigenomics | 5 | 150 | 100 | 250 |
| Total | | | | 20 | 600 | 400 | 1000 |
| Specialization Core Courses : Clinical Nutrition and Dietetics | | | | | | | |
| T4909 | 0401450405 | Clinical Nutrition and Dietetics Internship | Clinical Nutrition and Dietetics | 10 | 300 | 200 | 500 |
| T4709 | 0401450406 | Clinical Nutrition and Dietetics Dissertation | Clinical Nutrition and Dietetics | 10 | 300 | 200 | 500 |
| Total | | | | 20 | 600 | 400 | 1000 |



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| Semester | Internal Credits | External Credits | Total Credits | Total Marks |
|---|------------------|------------------|---------------|-------------|
| Public Health Nutrition | | | | |
| Semester1 | 0 | 20 | 20 | 1000 |
| Semester2 | 0 | 20 | 20 | 1000 |
| Semester3 | 0 | 20 | 20 | 1000 |
| Semester4 | 0 | 20 | 20 | 1000 |
| Total | 0 | 80 | 80 | 4000 |
| Nutrigenomics | | | | |
| Semester1 | 0 | 20 | 20 | 1000 |
| Semester2 | 0 | 20 | 20 | 1000 |
| Semester3 | 0 | 20 | 20 | 1000 |
| Semester4 | 0 | 20 | 20 | 1000 |
| Total | 0 | 80 | 80 | 4000 |
| Clinical Nutrition and Dietetics | | | | |
| Semester1 | 0 | 20 | 20 | 1000 |
| Semester2 | 0 | 20 | 20 | 1000 |
| Semester3 | 0 | 20 | 20 | 1000 |
| Semester4 | 0 | 20 | 20 | 1000 |
| Total | 0 | 80 | 80 | 4000 |