

SHAHEED BABA DEEP SINGH
Department of Home Science
FACULTY OF ARTS & SOCIAL SCIENCES

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SWAMI VIVEKANAND SUBHARTI UNIVERSITY

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OUTCOME ANALYSIS

(MAPPING OF CO- PO AND ATTAINMENT)

Session 2018-19

Department of Home Science

SWAMI VIVEKANAND SUBHARTI UNIVERSITY



Programme

M.Sc. Home Science (Food and Nutrition)

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M.Sc. Home Science (Food and Nutrition)

Programme Objectives-

To enable students-
1. To impart the understanding of the concepts of biochemistry, food chemistry and food microbiology and applicability of the concepts in various settings.
2. To enable the students to learn the human nutritional needs and methods to assess them for required planning of therapeutic diets.
3. To apply theoretical concepts in laboratory setting as per standard methods in the area of biochemistry, food chemistry and food microbiology.
4. To understand the application of nutritional sciences in clinical settings and ways to counsel and educate the population for improved health outcomes and better organisational management.
5. To acquire skills to undertake systematic research in the areas of food science and nutrition.

Programme Outcomes

PO1. The post-graduates will be able to understand the concepts of biochemistry, food chemistry and food microbiology
PO2. The post-graduates will be able to learn the methods of assessing human nutritional requirements, nutritional assessment and diet planning
PO3. The post-graduates will be able to apply theoretical concepts in laboratory setting as per standard methods
PO4. The post-graduates will be able to understand the applications of nutritional sciences in clinical interventions, communication for health promotion, food service management, food science and processing
PO5. The post-graduates will be able to acquire skills to undertake systematic research in the area of food science and nutrition

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MAPPING OF COURSE OUTCOMES

Assessment, Attainment Criteria and Levels

1. Direct Assessment- 80%
 - a. University Exams- 70%
 - b. Sessional Exams- 30 %
2. Indirect Assessment – 20% (Course Exit Survey)

Sessional Examination

1. Attainment Level I: 60% of students scoring more than 50% marks out of the maximum marks
2. Attainment Level II: 70% of students scoring more than 50% marks out of the maximum marks
3. Attainment Level III: 80% of students scoring more than 50% marks out of the maximum marks

University Examination

1. Attainment Level I: 60% of students scoring more than 50% marks out of the maximum marks
2. Attainment Level II: 70% of students scoring more than 50% marks out of the maximum marks
3. Attainment Level III: 80% of students scoring more than 50% marks out of the maximum marks

Course Exit Survey

1. Attainment Level I: Average Score of 60% of students more than 3 (scale of 5)
2. Attainment Level II: Average Score of 70% of students more than 3 (scale of 5)
3. Attainment Level III: Average Score of 80% of students more than 3 (scale of 5)

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M.Sc. FOOD & NUTRITION

SEMESTER I

RESEARCH METHODOLOGY (M.Sc.-HS-101)

Course objectives

1. To understand the significance of statistics & research methodology in Home Science research.
2. To understand the types, tools & methods of research & develop the ability to construct data gathering instruments appropriate with the research design
3. To understand & apply the appropriate statistical technique for the measurement & design.

Course Outcomes

1. To understand the concept of the field
2. To enable the students to learn the methods of assessment and plan the diet
3. To apply the theoretical concepts in laboratory setting
4. To understand the applications of nutritional sciences in clinical interventions, communication for health promotion, food service management, food science and processing
5. To acquire skills to undertake systematic research in the area of food science and nutrition

CO-PO Mapping course Outcomes of M.Sc.HS-101

Course Outcomes

	PO1	PO2	PO3	PO4	P05
M.Sc.HS-101.1	2	2	2	2	0
M.Sc.HS-101.2	2	2	2	0	3
M.Sc.HS-101.3	2	0	1	1	2
M.Sc.HS-101.4	2	0	2	0	3
M.Sc.HS-101.5	2	2	2	0	3
Total	10	6	9	3	11
Average of filled	2	2	1.6	1.5	2.75

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Direct Assessment of M.Sc. HS 101

Total Number of Students	% of marks expected	Sessional	End Semester Exams
13	50	100 % of students secured more than 50% of marks	100 % of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3 = $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3 = $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3 = $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total Student:-14

S.No.	Average score of Course Exit Survey(student wise)
1.	2.6
2.	3
3.	3
4.	2.8
5.	3.6
6.	3.5
7.	3.6
8.	3.8
9.	4
10.	4
11.	3
12.	1.5
13.	3.6
14.	2.6
71.42% of responses are more than 3 scale	

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Level	2
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Calculated Value for Indirect Assessment - 20% of 2= $20 \times 2 / 100 = 0.4$

Overall Assessment of Attainment of Direct and Indirect Value= $0.4+2.4 = 2.8$

Matrix to Calculate the Attainment Score of M.Sc. Home Science

	Calculated Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7
M.Sc. HS 101	2.4	2	2	1.63	1.5	2.75	-	-
Attainment Score		$2.4 \times 2/3 = 1.6$	$2.4 \times 2/3 = 1.6$	$2.4 \times 1.6/3 = 1.28$	$1.5 \times 2.4/3 = 1.2$	$2.4 \times 2.75/3 = 2.2$		
Status of Attainment		Yes	Yes	Yes	Yes	No	-	-

Action Plan for Attainment of CO-PO For the next year

S.No.	
1	Improve the learning experience
2	Increase the use of ICT in teaching, learning and assessment so that learns are equipped with the necessary skills to meet the challenges of a rapidly changing learning environment

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M.Sc. FOOD & NUTRITION
SEMESTER I

ADVANCED NUTRITIONAL BIOCHEMISTRY (M.Sc.-FN-102)

Course Objectives

1. To enhance the biochemistry knowledge
2. To understand the mechanisms adopted by the human body for regulation of metabolic pathways.
3. To understand the mechanisms adopted by the human body for regulation of metabolic pathways.
4. To understand the principles and use of Instruments used for biochemical analysis.

Course Outcomes

1. To impart the understanding of the concepts of biochemistry, food chemistry and food microbiology
2. To enable the students to learn the methods of assessing human nutritional requirements,
3. nutritional assessment and diet planning
4. To understand the applications of nutritional sciences in clinical interventions,
5. communication for health promotion, food service management, food science and
6. processing
7. To acquire skills to undertake systematic research in the area of food science and nutrition

CO-PO Mapping course Outcomes of M.Sc.HS-102

Course Outcomes

	PO1	PO2	PO3	PO4	PO5
M.Sc.HS-102.1	2	1	2	2	2
M.Sc.HS-102.2	1	2	2	2	2
M.Sc.HS-102.3	1	2	2	1	2
M.Sc.HS-102.4	2	2	2	2	2
Total	6	7	8	7	8
Average of filled	1.5	1.75	2	1.75	2

Direct Assessment of M.Sc. FN-102

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Total Number of Students	% of marks expected	Sessional	End Semester Exams
13	50	100 % of students secured more than 50% of marks	100 % of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total Student:-14

S.No.	Average score of Course Exit Survey(student wise)
1.	3.4
2.	3.4
3.	3.6
4.	3.6
5.	4.2
6.	3.6
7.	3.4
8.	3.4
9.	3
10.	3
11.	3.2
12.	3.2
13.	5
14.	4
100% of responses are more than 3 scale	
Level	3

Calculated Value for Indirect Assessment - 20% of 3= $20 \times 3 / 100 = 0.6$

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Overall Assessment of Attainment of Direct and Indirect Value= 1.28+.6= 1.88

Matrix to Calculate the Attainment Score of M.Sc. Home Science

	Calculated Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7
Average CO-PO mapped Value	2.4	1.5	1.75	2	1.75	2	-	-
Attainment Score		$2.4 \times 1.5 / 3 = 1.2$	$2.4 \times 1.75 / 3 = 1.4$	$2.4 \times 2 / 3 = 1.6$	$2.4 \times 1.75 / 3 = 1.4$	$2.4 \times 2 / 3 = 1.6$		
Status of Attainment		Yes	Yes	Yes	Yes	Yes	-	-

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SEMESTER I
M.Sc. FOOD & NUTRITION
HUMAN PHYSIOLOGY
M.Sc.-FN-103

Course Objectives

1. Understand the physiology of the human body.
2. Develop insight of normal functioning of all the organ systems of the body and their interactions.
3. Comprehend the path physiology of commonly occurring diseases.

Course Outcomes

1. To gain knowledge about the human body and assess the normal functioning of all the organ systems of the body and their interactions.
2. To know the proper working of specific organ and related their hormone
3. Apply the knowledge of physiology of body in their life routine.
4. To acquires the skill to undertake systematic area of bio-chemistry.

CO-PO Mapping course Outcomes of M.Sc.HS-103

Course Outcomes

	PO1	PO2	PO3	PO4	PO5
M.Sc.HS-103.1	1	1	3	1	0
M.Sc.HS-103.2	1	1	1	1	0
M.Sc.HS-103.3	1	0	0	0	0
M.Sc.HS-103.4					
Total	3	2	4	2	0
Average of filled	1	1	2	1	0

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Direct Assessment of M.Sc. 103

Total Number of Students	% of marks expected	Sessional	End Semester Exams
13	50	100 % of students secured more than 50% of marks	100% of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total Students-14

S.No.	Average score of Course Exit Survey(student wise)
1.	3.6
2.	4
3.	2.8
4.	3.6
5.	3
6.	3
7.	4
8.	3.8
9.	2.6
10.	3.6
11.	3.8
12.	4
13.	4
14.	3.6
85.71% of responses are more than 3 scale	
Level	3

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SEMESTER I

M.Sc. FOOD & NUTRITION

ADVANCES IN FOOD MICROBIOLOGY

M.Sc.-FN-104

Course Objective

1. Understand the microbial flora associated with food
2. Acquire knowledge on beneficial role of microorganism and relevance of microbiological safety of food
3. Understand the conventional and rapid methods for detection of food borne pathogens and their toxins.
4. Understand the role of microbes in microbial contamination of food.

Course Outcomes

1. To impart the understanding of the concepts of food microbiology **and** enable the students to learn the methods of assessing microorganism in food industry.
2. To apply theoretical concepts in laboratory setting as per standard methods of Food Microbiology
3. To understand the applications of microorganism in food science and processing
4. To acquire skills to undertake systematic research in the area of food microbiology, food science and nutrition
5. science and nutrition

CO-PO Mapping course Outcomes of M.Sc.HS-104

Course Outcomes

	PO1	PO2	PO3	PO4	PO5
M.Sc.-FN-104.1	2	2	1	1	2
M.Sc.-FN-104.2	2	2	1	1	3
M.Sc.-FN-104.3	2	2	1	2	3
M.Sc.-FN-104.4	2	2	1	2	3
Total	8	8	4	6	11

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Average of filled	2	2	1.25	1.5	2.75
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Direct Assessment of M.Sc. FN 104

Total Number of Students	% of marks expected	Sessional	End Semester Exams
13	50	100 % of students secured more than 50% of marks	100 % of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (on 5 scale)

Total Students-14

S.No.	Average score of Course Exit Survey(student wise)
1.	2.8
2.	3.6
3.	3
4.	4
5.	4
6.	3
7.	3
8.	5
9.	2.5
10.	2.5
11.	4

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12.	3
13.	3.8
14.	3.6
78.57% of responses are more than 3 scale	
Level	2

Calculated Value for Indirect Assessment - 20% of 2= 20x2/ 100= 0.4

Overall Assessment of Attainment of Direct and Indirect Value= 2.4+0.4= 2.8

Matrix to Calculate the Attainment Score of M.Sc. Home Science

	Calculated Attainment							
		PO1	PO2	PO3	PO4	PO5	PO6	PO7
Average CO-PO mapped Value	2.4	2	2	1.25	1.5	2.75	-	-
Attainment Score		$2.4 \times 2 / 2 = 2.4$	$2.4 \times 2 / 2 = 2.4$	$2.4 \times 1.25 / 2 = 1.5$	$2.4 \times 1.5 / 2 = 1.8$	$2.4 \times 2.75 / 2 = 3.3$		
Status of Attainment		Yes	Yes	Yes	Yes	No	-	-

Action Plan for Attainment of CO-PO For the next year

1.	Enable learners communicate effectively and improve their standards of competence
2.	Improve quality, promote excellence and innovation, and increase autonomy

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SEMESTER I
M.Sc. FOOD & NUTRITION
METHODS OF INVESTIGATION
M.Sc.-FN-105

Course Objectives

1. To familiarize with the applications of the above techniques.
2. To understand the principles of various analytical techniques available for nutrition research.
3. To apply the principles of various analytical techniques available for nutrition research.

Course Outcomes

1. To enable the students to learn the methods of assessment and plan the diet
2. Applications of nutritional sciences in clinical interventions, communication for health promotion, food service management, food science and processing
3. To acquire skills to undertake systematic research in the area of food science and nutrition

CO-PO Mapping course Outcomes of M.Sc.HS-105

Course Outcomes

	PO1	PO2	PO3	PO4	PO5
M.Sc.-FN-105.1	2	2	2	2	2
M.Sc.-FN-105.2	2	2	3	2	3
M.Sc.-FN-105.3	2	3	2	2	3
Total	6	7	7	6	8
Average of filled	2	2.3	2.3	2	2.6

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Direct Assessment of M.Sc. HS105

Total Number of Students	% of marks expected	Sessional	End Semester Exams
13	50	100 % of students secured more than 50% of marks	100% of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total Students-14

S.No.	Average score of Course Exit Survey(student wise)
1.	2.8
2.	3
3.	4
4.	3.6
5.	3.6
6.	3.8
7.	4
8.	4
9.	3.8
10.	2.6
11.	3

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12.	3
13.	3
14.	4
85.71% of responses are more than 3 scale	
Level	3

Calculated Value for Indirect Assessment - 20% of 3= 20x3/ 100= 0.6

Overall Assessment of Attainment of Direct and Indirect Value= 2.4+0.6= 3.0

Matrix to Calculate the Attainment Score of M.Sc. Home Science

	Calculated Attainment							
		PO1	PO2	PO3	PO4	PO5	PO6	PO7
Average CO-PO mapped Value	2.4	2	2.4	2.3	2	2.5		
Attainment Score		$\frac{2.4 \times 2}{3} = 1.6$	$\frac{2.4 \times 2.3}{3} = 1.84$	$\frac{2.4 \times 2}{3} = 1.6$	$\frac{2.4 \times 2}{3} = 1.6$	$\frac{2.4 \times 2.5}{3} = 2$		
Status of Attainment		Yes	Yes	Yes	Yes	No	-	-

Action Plan for Attainment of CO-PO For the next year

S.No.	
1	Strength strategic oversight and focus on delivery of instructions
2	Deliver appropriate infrastructure for learning environments

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SEMESTER III
M.Sc. FOOD & NUTRITION
DISSERTATION
M.Sc.-FN-301

Course Objectives

1. Know the practical aspects of, collecting data/ project work
2. Evaluate, select and use appropriate strategies for reduction, analysis and presentation of data collected during research process/ project work
3. Suitably illustrate data/ insights using various graphical and other methods
4. Prepare a dissertation document/ project report based on research process/ project work done.

Course Outcomes

1. Know the practical aspects of, collecting data/ project work
2. Evaluate, select and use appropriate strategies for reduction, analysis and presentation of data collected during research process/ project work
3. Suitably illustrate data/ insights using various graphical and other methods.
4. Prepare a dissertation document/ project report based on research process/ project work done.

CO-PO Mapping course Outcomes of M.Sc.HS-301

Course Outcomes

	PO1	PO2	PO3	PO4	PO5
M.Sc.-FN-301.1	2	2	2	2	3
M.Sc.-FN-301.2	2	2	2	2	3
M.Sc.-FN-301.3	3	3	2	2	3
M.Sc.-FN-301.4	3	3	2	2	3
Total	10	10	8	8	12
Average of filled	2.5	2.5	2	2	3

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Direct Assessment of M.Sc. FN 301

Total Number of Students	% of marks expected	Sessional	End Semester Exams
11	50	100 % of students secured more than 50% of marks	100% of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total Student-9

S. No.	Average score of Course Exit Survey(student wise)
1.	3
2.	2.6
3.	4
4.	3.8
5.	3
6.	4
7.	3.6
8.	3.6
9.	3.6
10.	3.6
11.	4
90.9% of responses are more than 3 scale	
Level	3

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Calculated Value for Indirect Assessment - 20% of 3= $20 \times 3 / 100 = 0.6$

Overall Assessment of Attainment of Direct and Indirect Value= $2.4 + .6 = 3.0$

Matrix to Calculate the Attainment Score of M.Sc. Home Science

	Calculated Attainment	PO1	PO2	PO3	PO4	PO5	PO6
Average CO-PO mapped Value	2.4	2.5	2.5	2	2	3	-
Attainment Score		$2.4 \times 2.5 / 3 = 2$	$2.4 \times 2.5 / 3 = 2$	$2.4 \times 2 / 3 = 1.6$	$2.4 \times 2 / 3 = 1.6$	$2.4 \times 3 / 3 = 2.4$	-
Status of Attainment		No	No	Yes	Yes	No	-

Action Plan for Attainment of CO-PO For the next year

S.No.	
1	Improve the learning experience
2	Improve quality, promote excellence and innovation, and increase autonomy
3	Create a stronger focus on entrepreneurship, creativity and innovation
4	Works with enterprise to increase the number of researchers
5	Strength strategic oversight and focus on delivery of instructions

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SEMESTER III
M.Sc. FOOD & NUTRITION
NUTRITION IN EMERGENCIES AND DISASTER
M.Sc.-FN-302

Course Outcomes

1. This course will make the students familiar with the process of planning and management of public health nutrition programmes.
2. It will help them understand the concept of monitoring of programmes and nutritional surveillance.
3. The students will also learn about nutrition in emergency and disaster situations.

Course Outcomes

1. Get acquainted with the nutritional problems during emergencies/ disasters and the strategies to tackle them.
2. To familiarize students with various natural and manmade emergencies and disasters having an impact on nutrition and health status.
3. Understand strategies for nutritional rehabilitation management of the health of emergency affected populations

CO-PO Mapping course Outcomes of M.Sc.HS-302

Course Outcomes

	PO1	PO2	PO3	PO4	PO5
M.Sc.HS-302.1	3	2	1	1	2
M.Sc.HS-302.2	3	2	1	1	2
M.Sc.HS-302.3	3	2	1	1	0
Total	9	6	3	3	4
Average of filled	9	2	1	1	2

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Direct Assessment of M.Sc.-FN-302

Total Number of Students	% of marks expected	Sessional	End Semester Exams
11	50	100 % of students secured more than 50% of marks	100% of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total students-11

S. No.	Avg
1.	2.5
2.	3
3.	3.6
4.	3.5
5.	3
6.	3
7.	3.5
8.	3.8
9.	3.8
10.	3.8
11.	4
99.9% of responses are more than 3 scale	
Attainment	3

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Calculated Value for Indirect Assessment - 20% of 3= $20 \times 3 / 100 = 0.6$

Overall Assessment of Attainment of Direct and Indirect Value= $2.4 + .6 = 3.0$

Matrix to Calculate the Attainment Score of M.Sc. Home Science

	Calculated Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7
Average CO-PO mapped Value	2.4	3	3	1	1	2	-	-
Attainment Score		$\frac{2.4 \times 3}{3} = 2.4$	$\frac{2.4 \times 2}{3} = 1.6$	$\frac{2.4 \times 1}{3} = 0.8$	$\frac{2.4 \times 1}{3} = 0.8$	$\frac{2.4 \times 2}{3} = 1.6$	-	-
Status of Attainment		Yes	Yes	Yes	Yes	Yes	-	-

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SEMESTER III
M.Sc. FOOD & NUTRITION
SPECIALIZATION A
INSTITUTIONAL FOOD MANAGEMENT
M.Sc.-FN-304A

Course Objectives

1. To develop a knowledge base about the facilities required for different types of food service units.
2. To equip individuals in understanding and managing resources in a food service institution.
3. Develop specific skills to apply the most widely used methods in different food production units.

Course Outcomes

1. Develop knowledge in managing various food service systems.
3. Understand and manage resources in a food service institution.
4. Provide practical experience in managing food material for food service management

CO-PO Mapping course Outcomes of M.Sc.HS-304A

Course Outcomes

	PO1	PO2	PO3	PO4
M.Sc.HS-304A .1	3	2	3	2
M.Sc.HS-304A .2	2	2	2	2
M.Sc.HS-304A .3	1	1	1	0
Total	6	5	6	4
Average of filled	2	1.6	2	2

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Direct Assessment of M.Sc.-FN-304A

Total Number of Students	% of marks expected	Sessional	End Semester Exams
9	50	100 % of students secured more than 50% of marks	100% of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total Students-09

S.No.	Average score of Course Exit Survey(student wise)
1.	3.6
2.	3
3.	3
4.	3
5.	4
6.	4
7.	3.8
8.	3.6
9.	4
66.6% of responses are more than 3 scale	
Attainment	3

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Calculated Value for Indirect Assessment - 20% of 3= $20 \times 3 / 100 = 0.6$

Overall Assessment of Attainment of Direct and Indirect Value= $2.4 + .6 = 3.0$

Matrix to Calculate the Attainment Score of M.Sc. Home Science

	Calculated Attainment	PO1	PO2	PO3	PO4	PO5	PO6
Average CO-PO mapped Value	2.4	2	1.6	2	2	-	-
Attainment Score		$2.4 \times 2/3 = 1.6$	$2.4 \times 1.6/3 = 1.28$	$2.4 \times 2/3 = 1.6$	$2.4 \times 2/3 = 1.6$		
Status of Attainment		Yes	Yes	Yes	Yes	-	-

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SEMESTER III
M.Sc. FOOD & NUTRITION
ASSESSMENT OF NUTRITIONAL STATUS
M.Sc.-FN-305A

Course Objectives

1. Understand the concept and purpose of nutritional status assessment in community setting.
2. Explain nutritional concerns among vulnerable sections of the community and strategies to combat them.
3. Gain knowledge with regard to standard methods and techniques for assessing nutritional status.
4. Be familiar with the use of indices and indicators for screening and consequent identification of malnutrition in the community

Course Outcomes

1. The purpose of this course is to enable the students to understand the concept and methods of nutritional status assessment of a community.
2. This will help them to comprehend the nutrition concerns among communities, the correct screening criteria for malnutrition, along with strategies to combat and prevent them.

CO-PO Mapping course Outcomes of M.Sc.HS-305A

Course Outcomes

	PO1	PO2	PO3	PO4	PO5
M.Sc.HS-305A .1	3	3	2	3	3
M.Sc.HS-305A .2	2	3	2	2	2
Total	5	6	4	5	5
Average of filled	2.5	3	2	2.5	2.5

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Direct Assessment of M.Sc.-FN-305A

Total Number of Students	% of marks expected	Sessional	End Semester Exams
9	50	100 % of students secured more than 50% of marks	100 % of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total students=9

S. No.	Average score of Course Exit Survey(student wise)
1.	3.6
2.	3
3.	3
4.	3
5.	3.8
6.	3.8
7.	4
8.	4
9.	3
100% of responses are more than 3 scale	
Attainment	3

Calculated Value for Indirect Assessment - 20% of 3= $20 \times 3 / 100 = 0.6$

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Overall Assessment of Attainment of Direct and Indirect Value= 2.4+0.6= 3

Matrix to Calculate the Attainment Score of M.Sc. Home Science

	Calculated Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7
Average CO-PO mapped Value	2.4	2.5	3	3	2.5	2.5		-
Attainment Score		$2.5 \times 2.4 / 3 = 2$	$2.4 \times 3 / 3 = 2.4$	$2.4 \times 2 / 3 = 1.6$	$2.4 \times 2.5 / 3 = 2$	$2.4 \times 2.5 / 3 = 2$		
Status of Attainment		Yes	No	Yes	No	No		-

Action Plan for Attainment of CO-PO For the next year

S.No.	
1	Improve the learning experience
2	Increase the use of ICT in teaching, learning and assessment so that learners are equipped with the necessary skills to meet the challenges of a rapidly changing learning environment
3	Enable learners communicate effectively and improve their standards of competence
4	Improve quality, promote excellence and innovation, and increase autonomy

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SEMESTER III
M.Sc. FOOD & NUTRITION
FOOD PROCESSING & TECHNOLOGY
M.Sc.-FN- 303C

Course Objectives

1. To understand concepts of unit operations in processing.
2. To Acquire the knowledge of principles of food preservation and its application
3. To acquaint with properties of foods and basic principle of Food Engineering.
4. To understand the food Processes, along with the unit operations.

Course Outcomes

1. To understand nature of various food products constituents, additives and adulterants.
2. Gain the knowledge of food packaging and its interaction with food products.
3. Understand the basic concepts of properties of foods and basic food engineering concepts.
4. Acquire the knowledge of various unit operations in food processing and Gain the knowledge of food packaging and its interaction with food products.

CO-PO Mapping course Outcomes of M.Sc.HS-303C

Course Outcomes

	PO1	PO2	PO3	PO4	PO5
M.Sc.HS-303C .1	3	3	2	1	2
M.Sc.HS-303C .2	1	1	1	1	1
M.Sc.HS-303C .3	3	3	3	2	2
M.Sc.HS-303C .4	3	2	2	2	3
Total	10	9	8	6	8
Average of filled	2.5	2.25	2	1.5	2

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Direct Assessment of M.Sc.-FN- 303C

Total Number of Students	% of marks expected	Sessional	End Semester Exams
2	50	100 % of students secured more than 50% of marks	100% of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total Students-2

S.No.	Average score of Course Exit Survey(student wise)
1.	3.5
2.	3
100% of responses are more than 3 scale	
Attainment	3

Calculated Value for Indirect Assessment - 20% of 3= $20 \times 3 / 100 = 0.6$

Overall Assessment of Attainment of Direct and Indirect Value= $2.4 + .6 = 3.0$

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Matrix to Calculate the Attainment Score of M.Sc. Home Science

	Calculated Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7
Average CO-PO mapped Value	2.4	2.5	2.25	2	1.5	2	-	-
Attainment Score		$\frac{2.4 \times 2.5}{3} = 2$	$\frac{2.4 \times 2.25}{3} = 1.8$	$\frac{2.4 \times 2}{3} = 1.6$	$\frac{2.4 \times 1.5}{3} = 1.2$	$\frac{2.4 \times 2}{3} = 1.6$		
Status of Attainment		No	Yes	Yes	Yes	Yes	-	-

Action Plan for Attainment of CO-PO For the next year

S.No.	
1	Strength strategic oversight and focus on delivery of instructions
2	Deliver appropriate infrastructure for learning environments

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SEMESTER III
M.Sc. FOOD & NUTRITION
ADVANCE FOOD SCIENCE
M.Sc.-FN- 304C

Course Objectives

1. The course aims to enable students to acquaint with fundamentals of food processing technology and its process and to understand concepts of various engineering principles and processing methods
2. To impart systematic knowledge of basic and applied aspects in food processing and technology
3. To enable the student to understand food composition and its physico-chemical, nutritional and sensory aspects.
4. To gain in depth knowledge about processing and preservation techniques of cereal and cereal products and meat and meat products.

Course Outcomes

1. Gain knowledge of principles of Unit operations involved in food processing industry.
2. Learn fundamentals of food processing technology and its process.
3. Understand concepts of various engineering principles and processing and preservation methods and their application.
4. Understand various post processing operations important from industrial point of view.

CO-PO Mapping course Outcomes of M.Sc.HS-101

Course Outcomes

	PO1	PO2	PO3	PO4
M.Sc.HS-101.1	3	3	2	2
M.Sc.HS-101.2	3	3	3	2
M.Sc.HS-101.3	3	3	2	2
M.Sc.HS-101.4	3	3	2	1
Total	12	12	9	7
Average of filled	3	3	2.25	1.75

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Direct Assessment of M.Sc.-FN- 304C

Total Number of Students	% of marks expected	Sessional	End Semester Exams
2	50	100 % of students secured more than 50% of marks	100 % of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total students-2

S. No.	Average score of Course Exit Survey(student wise)
1.	3.8
2.	4
100% of responses are more than 3 scale	
Attainment	3

Calculated Value- 20% of 3= $20 \times 3 / 100 = 0.6$

Overall Assessment of Attainment of Direct and Indirect Value= $2.4 + 0.6 = 3.0$

Matrix to Calculate the Attainment Score of M.Sc. Home Science

Average CO-PO mapped Value	Calculated Attainment	PO1	PO2	PO3	PO4	PO5	PO6
	2.4	3	3	2.25	1.75	-	-

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Attainment Score		$2.4 \times 3/3 = 2.4$	$2.4 \times 3/3 = 2.4$	$2.4 \times 2.25/3 = 1.8$	$2.4 \times 1.75/3 = 1.4$		
Status of Attainment		No	No	Yes	Yes	-	-

Action Plan for Attainment of CO-PO For the next year

S.No.	
1	Improve the learning experience
2	Increase the use of ICT in teaching, learning and assessment so that learners are equipped with the necessary skills to meet the challenges of a rapidly changing learning environment
3	Enable learners communicate effectively and improve their standards of competence
4	Improve quality, promote excellence and innovation, and increase autonomy

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Ph. 0121-2439578, 2439052, 3058031, Ext. 2804, Telefax: 0121-2439067 e-mail:hsc@subharti.org

SEMESTER III
M.Sc. FOOD & NUTRITION
FOOD SAFETY AND QUALITY CONTROL
M.Sc.-FN-305C

Course Objectives: To develop a knowledge base about the facilities required for different types of food service units.

1. To equip individuals in understanding and managing resources in a food service institution.
2. Understand microbial safety in various foods operations and comprehend principles of various preservation and control techniques.
3. Know the importance of quality assurance in food industry.

Course Outcomes

1. Gain expertise to function as a food service manager.
2. Develop knowledge in managing various food service systems.
3. Understand and manage resources in a food service institution.
4. Provide practical experience in managing food material for food service management

CO-PO Mapping course Outcomes of M.Sc.HS-305C

Course Outcomes

	PO1	PO2	PO3	PO4
M.Sc.HS-305C .1	1	2	1	1
M.Sc.HS-305C .2	1	1	1	1
M.Sc.HS-305C .3	1	2	1	1
M.Sc.HS-305C .4	3	3	3	3
Total	6	8	6	6
Average of filled	1.5	2	1.5	1.5

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Direct Assessment of M.Sc.-FN-305C

Total Number of Students	% of marks expected	Sessional	End Semester Exams
2	50	100 % of students secured more than 50% of marks	100 % of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total Students-2

Form No.	Average score of Course Exit Survey(student wise)
1.	3.6
2.	3
100% of responses are more than 3 scale	
Level	3

Calculated Value- 20% of 3= $20 \times 3 / 100 = 0.6$

Overall Assessment of Attainment of Direct and Indirect Value= $2.4 + .6 = 3.0$

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Matrix to Calculate the Attainment Score of M.Sc. Home Science

	Calculated Attainment	PO1	PO2	PO3	PO4	PO5	PO6
Average CO-mapped PO Value	2.4	1.5	2	1.5	1.5	-	-
Attainment Score		$2.4 \times 1.5/3 = 1.2$	$2.4 \times 2/3 = 1.6$	$2.4 \times 1.5/3 = 1.2$	$2.4 \times 1.5/3 = 1.2$		
Status of Attainment		Yes	Yes	Yes	Yes	-	-

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SEMESTER III
M.Sc. FOOD & NUTRITION
CLINICAL AND THERAPEUTIC NUTRITION
M.Sc.-FN-303A

Course objective

1. To understand the nutrition assessment and planning, implementation.
2. To monitoring and follow up in nutrition care process.
3. To know the causative factors and metabolic changes in various diseases/disorders and acquire the knowledge on the principles of diet therapy.

Course Outcomes

1. Gain knowledge about causative factors and metabolic changes in various diseases/disorders and the associated principles of diet therapy.
2. Comprehend the rationale of prevention of various diseases/disorders.
3. Understand the comprehend principles of dietary counselling and the rationale of prevention of various diseases/disorders.

CO-PO Mapping course Outcomes of M.Sc.HS-101

Course Outcomes

	PO1	PO2	PO3	PO4	PO5
M.Sc.-FN-303A .1	1	2	2	1	2
M.Sc.-FN-303A.2	1	2	8	1	2
M.Sc.-FN-303A .3	1	2	2	1	2
Total	3	8	8	3	8
Average of filled	1	2	2	1	2

Direct Assessment of M.Sc.-FN-303A

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Total Number of Students	% of marks expected	Sessional	End Semester Exams
9	50	100 % of students secured more than 50% of marks	100 % of students secured more than 50% of marks
Scored Attainment		3	3

Calculated Value for Direct Assessment-

Sessional- 30% of 3= $30 \times 3 / 100 = .9$

University End Semester Exams- 70% of 3= $70 \times 3 / 100 = 2.1$

Total Direct Assessment Value= $2.1 + 0.9 = 3$

Overall Calculated Direct Assessment Value= 80% of 3= $80 \times 3 / 100 = 2.4$

Indirect Assessment (Course Exit Survey on 5 scale)

Total students-9

S. No.	Average score of Course Exit Survey(student wise)
1.	3
2.	3
3.	3.6
4.	3.6
5.	3.2
6.	3.5
7.	3
8.	3
9.	4
100% of responses are more than 3 scale	
Level	3

Calculated Value for Indirect Assessment- 20% of 3= $20 \times 3 / 100 = 0.6$

Overall Assessment of Attainment of Direct and Indirect Value= $2.4 + .6 = 3.0$

Matrix to Calculate the Attainment Score of M.Sc. Home Science

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	Calculated Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7
Average CO-PO mapped Value	2.4	1	2	2	1	2	-	-
Attainment Score		$2.4 \times 1/3 = 0.8$	$2.4 \times 2/3 = 1.6$	$2.4 \times 2/3 = 1.6$	$2.4 \times 1/3 = 0.8$	$2.4 \times 2/3 = 1.6$		
Status of Attainment		Yes	Yes	Yes	Yes	Yes	-	-

Action Plan for Attainment of CO-PO For the next year

S.No.	
1.	Improve the learning experience
2.	Increase the use of ICT in teaching, learning and assessment so that learners are equipped with the necessary skills to meet the challenges of a rapidly changing learning environment
3	Create a stronger focus on Entrepreneurship, Creativity and Innovation
4.	Strengthen strategic oversight and focus on delivery of instructions
5.	Deliver appropriate infrastructure for learning environments

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Graduate Attributes

M.Sc. Home Science (Food and Nutrition)

Outcomes	Graduate Attributes and Content
PO1. Identify how families and communities influence the process of growth and development.	Disciplinary knowledge Students are able to demonstrate comprehensive knowledge and understanding of major concepts .
PO2. Demonstrate skills in using tools/ knowledge for understanding human behaviour.	Communication Skills Students are competent in public speaking, writing and inter personal skills. Students are exposed to technical and soft skills, which is the core area in the Graduate Attributes in Subject
PO3. Appraise and distinguish life span/ exceptional situations to make early detection. PO4. Act upon/ Advocate domain specific programmes and policies.	Critical thinking: Students develop critical sensitivity towards both community issues and process. They learn to do lateral thinking developing out of the box solution and effective problem solving skills to address community issues
PO5. Become entrepreneurs in establishing learning centres/ institutions/ Programme coordinators.	Cooperation/Team work: Students have basic management skills for independently organizing events, resource mobilization and leading community based projects and initiatives.
	Multicultural competence: Students are confident of working in diverse socio-cultural contexts. They are able to effectively engage with multicultural groups and teams. They have sensitivities of cross cultural and ethnic diversity which they can apply to different settings.

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Lifelong learning :

Students are capable of self-directed/ paced learning for the continued learning and holistic development for meeting their professional and personal needs in varying environment and changing contexts.