COURSE OUTCOME MAPPING 2022-2023

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: Research Methodology

COURSE CODE: MFSN20202

CREDITS: 5

DEPARTMENT: M.Sc. FOOD SCIENCE AND NUTRITION

PROGRAMME OUTCOMES Or POS(MDS):

PROGRAM OBJECTIVES (POs)

- **PO 1**: Demonstrate knowledge of the scientific method, purpose, and approaches to research.
- PO 2: Explain research design and research cycle.
- **PO 3**: Prepare key elements of a research proposal.
- PO 4: Explain ethical principles, issues and procedures.

PROGRAMME SPECIFIC OUTCOME:

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Understand the concept of different food service units.

PSO2: Fundamentals of research designs

PSO3: sources of data

PSO4:data processing and report writing and presentation.

PSO5: Data collection

PSO6: sampling

| | COURSE OUTCOMES | BLOOM'S TAXONOMY LEVEL |
|-----|---|------------------------|
| CO1 | Evolution of food service industry | II (UNDERSTAND) |
| CO2 | Hypothesis research design | II (UNDERSTAND) |
| CO3 | Data collection | IV (ANALYZE) |
| CO4 | Sampling | III (APPLY) |
| CO5 | Attitude measurement data processing report | IV (ANALYZE) |

TABLE 1: CO, PO, PSO MAPPING

| outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PS01 | PSO2 | PS03 | PSO4 | PSO5 | PSO6 | PSO7 | PSO8 |
|----------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| C01 | H | Н | S | S | | | | S | Н | S | S | H | Н |
| C02 | H | Н | S | H | | Н | Н | S | Н | H | S | Н | Н |
| C03 | Н | Н | S | H | S | S | Н | S | Н | H | S | S | Н |
| C04 | H | Н | S | S | | S | | | H | S | | S | Н |
| C05 | Н | Н | S | H | | S | Н | H | Н | S | | S | S |

| CO | mid | exam 1 | mic | dexam 2 | group | o discussion | as | signment | | viva | Au | tendence | | | External | Exam | |
|-----|--------|------------|-------|------------|-------|--------------|-----------------|----------|-------|------------|-------|------------|------------------|------|------------|------------------|---------------|
| | | Attainment | pass | Attainment | pass | Attainment | pass Attainment | | pass | Attainment | pass | Attainment | co wise internal | pass | Attainment | co wise external | co wise total |
| | pass/. | level | 1 | level | 1 | level | 1 | level | 1 | level | 1 | level | average | 1 | level | average | average |
| CO1 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 97.0 | 3.0 | 3.0 | 3.0 |
| CO2 | 100.0 | 3.0 | | | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 97.0 | 3.0 | 3.0 | 3.0 |
| CO3 | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 97.0 | 3.0 | 3.0 | 3.0 |
| CO4 | | | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 97.0 | 3.0 | 3.0 | 3.0 |
| CO5 | | | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 97.0 | 3.0 | 3.0 | 3.0 |

| AVERAGE | AVERAGE |
|---------|---------|
| 3 | 3 |



| OUTCOME | P | 01 | F | PO2 | PO3 | PO | 4 | PO5 | PC |)6 | PC | 07 | P | 08 |
|---------------------------|---|-----|---|-----|-----|----|---|-----|----|----|----|----|---|----|
| CO1 | н | 3 | н | 3 | | | | | | | | | | |
| CO2 | н | 3 | н | 3 | | н | 3 | | н | 3 | н | 3 | | |
| CO3 | н | 3 | н | 3 | | н | 3 | | | | н | 3 | | |
| CO4 | н | 3 | н | 3 | | | | | | | | | | |
| CO5 | н | 3 | н | 3 | | н | 3 | | | | н | 3 | н | 3 |
| AVERAGE OF COS FOR POS | 3 | | | 3 | | 3 | | | 3 | • | 5 | } | | 3 |
| AVERAGE OF POS | | 3 3 | | | | 3 | | | 3 | | 3 | | 3 | |
| AVERAGE | | | | | | | 3 | | | | | | | |

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: ADVANCED FOOD SCIENCE

COURSE CODE: MFSN20203

CREDITS: 4

DEPARTMENT: M.Sc. FOOD SCIENCE AND NUTRITION

PROGRAMME OUTCOMES Or POS(MDS):

PROGRAM OBJECTIVES (POs)

PO 1: To understand the principles of food preservation and its applications.

PO 2: understand the chemistry of food components like proteins, carbohydrates, and lipids.

PO 3 : understand nature of various food products development

PO 4: understand nature of various food products constituents, additives and adulterants.

PROGRAMME SPECIFIC OUTCOME:

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Understand the concept of food science, nutrition and dietetics.

PSO2: Analyses the relationships between various nutrients and reservation techniques and its applications

PSO3: Apply the knowledge of processing and preservation techniques in increasing tie shelf life of food products.

PSO4: Combine the knowledge of food science, nutrition and dietetics to overcome food wastage, malnutrition and lifestyle disorders.

| | COURSE OUTCOMES | BLOOM'S TAXONOMY LEVEL |
|-----|---|------------------------|
| CO1 | Application of heat | II (UNDERSTAND) |
| CO2 | Effects of cold processing on food | II (UNDERSTAND) |
| CO3 | Preservation of food | IV (ANALYZE) |
| CO4 | Approaches/ Strategies for Improving nutritionstatus and health status of the community | III (APPLY) |
| CO5 | Food additives adulterants and foodenrichment | IV (ANALYZE) |

TABLE 1: CO, PO, PSO MAPPING

| outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PS01 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 | PSO8 |
|----------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| C01 | H | H | | S | | H | H | H | S | H | H | S | S |
| C02 | H | H | | S | | H | H | H | S | H | H | S | H |
| C03 | H | H | | S | | H | H | H | S | H | H | H | H |
| C04 | H | H | | S | | H | H | H | S | H | H | S | H |
| C05 | H | H | | S | | H | H | H | S | H | Н | S | S |

| со | mid | exam 1 | mi | d exam 2 | grou | p discussion | as | signment | | viva | At | tendence | | | External | Exam | |
|-----|--------|------------|--------|------------|--------|---------------------|--------|------------|--------|------------|--------|------------|------------------|--------|------------|------------------|---------------|
| | 0000% | Attainment | 000096 | Attainment | 0000% | pass% Attainment pa | | Attainment | 0000% | Attainment | 0000% | Attainment | co wise internal | 000096 | Attainment | co wise external | co wise total |
| | passzo | level | passzo | level | passzo | level | passio | level | passio | level | passzo | level | average | passzo | level | average | average |
| CO1 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 87.9 | 3.0 | 3.0 | 3.0 |
| CO2 | 100.0 | 3.0 | | | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 87.9 | 3.0 | 3.0 | 3.0 |
| COB | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 87.9 | 3.0 | 3.0 | 3.0 |
| CO4 | | | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 87.9 | 3.0 | 3.0 | 3.0 |
| CO5 | | | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 87.9 | 3.0 | 3.0 | 3.0 |

| AVERAGE | AVERAGE |
|---------|---------|
| 3 | з |



| OUTCOME | F | 01 | Р | 02 | PO3 | PO4 | PO5 | PC | 06 | PC |)7 | PC | 8 |
|---------------------------|---|----|---|----|-----|-----|-----|-----|----|----|----|----|---|
| CO1 | Н | 3 | н | 3 | | | | н | 3 | н | 3 | | |
| CO2 | н | 3 | н | 3 | | | | н | 3 | н | 3 | н | 3 |
| CO3 | Н | 3 | н | 3 | | | | н | 3 | н | 3 | н | 3 |
| CO4 | Н | 3 | н | 3 | | | | н | 3 | н | 3 | н | 3 |
| CO5 | Н | 3 | н | 3 | | | | н | 3 | н | 3 | н | 3 |
| AVERAGE OF COS FOR POS | | 3 | | 3 | | | | *** | 3 | er | } | | |
| AVERAGE OF POS | | 3 | | 3 | | | | | 3 | | 3 | | 3 |
| AVERAGE | | | | | | | 3 | | | | | | |

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: FOOD

MICROBIOLOGY AND FOOD SAFETY

COURSE CODE: MFSN20204

CREDITS: 4

DEPARTMENT: M.Sc. FOOD SCIENCE AND NUTRITION

PROGRAMME OUTCOMES Or POS(MDS):

PROGRAM OBJECTIVES (POs)

PO 1: Understanding the nature of microorganisms. Involved in food spoilage food infection and intoxications in food biotechnology.

PO 2: To gain. Knowledge of principles of various techniques used Prevention & Control of microorganism in foods.

PO 3: Understand. Criteria for microbiological safety in various Food operations to avoid public health hazard due to food contamination. **PO 4**: Understand various. Quality control parameters of food. Through basic prerequisite programmers, national and international food regulations.

PROGRAMME SPECIFIC OUTCOME:

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Overview of Basic microbiology.**PSO2**: Food spoilage and preservation**PSO3**: Microorganisms. In human welfare**PSO4:** Food Hygiene

| | COURSE OUTCOMES | BLOOM'S TAXONOMY LEVEL |
|-----|--|------------------------|
| CO1 | Overview of Basic microbiology. | II (UNDERSTAND) |
| CO2 | Food spoilage | II (UNDERSTAND) |
| CO3 | Microbes in food biotechnology. | IV (ANALYZE) |
| CO4 | Sources of contamination of food | III (APPLY) |
| CO5 | Public health hazards due to microbial contamination of foods. | IV (ANALYZE) |

TABLE 1: CO, PO, PSO MAPPING

| outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PS01 | PSO2 | PS03 | PSO4 | PSO5 | PSO6 | PSO7 | PSO8 |
|----------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| C01 | H | H | | S | | H | S | H | S | S | H | H | H |
| C02 | H | H | | S | | H | H | H | S | S | H | H | H |
| C03 | H | H | | S | | H | H | H | S | S | H | S | Н |
| C04 | H | H | | S | | H | S | H | S | S | H | S | Н |
| C05 | H | H | | S | | H | H | H | S | S | Н | S | S |

| со | mid | exam 1 | mi | d exam 2 | grou | p discussion | as | signment | viva | | Attendence | | Extern | | | Exam | |
|-----|--------|------------|--------|------------|--------|--------------|--------|------------|--------|------------|--------------------|------------|------------------|--------|------------|------------------|---------------|
| | 0000% | Attainment | | Attainment | 0000% | Attainment | aaaa% | Attainment | | Attainment | 00000 | Attainment | co wise internal | | Attainment | co wise external | co wise total |
| | passio | level | passzo | level | passzo | level | pass70 | level | passzo | level | pass ₇₀ | level | average | passzo | level | average | average |
| CO1 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | 33.3 | 0.0 | 2.4 | 87.9 | 3.0 | 3.0 | 2.8 |
| CO2 | 100.0 | 3.0 | | | 100.0 | 3.0 | | | 100.0 | 3.0 | 33.3 | 0.0 | 2.3 | 87.9 | 3.0 | 3.0 | 2.7 |
| CO3 | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 33.3 | 0.0 | 2.4 | 87.9 | 3.0 | 3.0 | 2.8 |
| CO4 | | | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 33.3 | 0.0 | 2.3 | 87.9 | 3.0 | 3.0 | 2.7 |
| CO5 | | | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 33.3 | 0.0 | 2.3 | 87.9 | 3.0 | 3.0 | 2.7 |

| AVERAGE | AVERAGE |
|---------|---------|
| 3 | 2.724 |



| OUTCOME | PC | 01 | P | 02 | PO3 | PO4 | PO5 | P | 06 | P | 07 | PO8 | |
|---------------------------|-----|--------|----|--------|-----|-----|---------|----|--------|---|------|-----|--------|
| CO1 | н | 2.76 | н | 2.76 | | | | н | 2.76 | | | н | 2.76 |
| CO2 | н | 2.7 | н | 2.7 | | | | Н | 2.7 | н | 2.7 | Н | 2.7 |
| CO3 | н | 2.76 | Н | 2.76 | | | | Н | 2.76 | Н | 2.76 | Н | 2.76 |
| CO4 | н | 2.7 | н | 2.7 | | | | Н | 2.7 | | | Н | 2.7 |
| CO5 | н | 2.7 | Н | 2.7 | | | | Н | 2.7 | н | 2.7 | Н | 2.7 |
| AVERAGE OF COS FOR POS | 2.7 | 724 | 2. | .724 | | | | 2. | 724 | 2 | .72 | 2. | 724 |
| AVERAGE OF POS | | 2.7168 | | 2.7168 | | | | | 2.7168 | | 2.72 | | 2.7168 |
| AVERAGE | | | | | | | 2.71744 | | | | | | |

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: THERAPEUTIC NUTRITION

COURSE CODE: MFSN20205

CREDITS: 4

DEPARTMENT: M.Sc. FOOD SCIENCE AND NUTRITION

PROGRAMME OUTCOMES Or POS(MDS):

PROGRAM OBJECTIVES (POs)

- PO 1: the causative factors and the metabolic changes in various diseases and disorders.
- **PO 2**: Gain knowledge of the principles of diet therapy.
- **PO 3:** learn principles of dietary drink counselling.
- PO 4: understand the rationale of prevention of various diseases or disorders.

PROGRAMME SPECIFIC OUTCOME:

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Understand the principles of diet therapy and diet counselling.

PSO2: Analyze nutritional interpretation of protein. Medical and laboratory data.

PSO3: Apply the knowledge of

PSO4: Combine the knowledge of Nutrition education and nutrition monitoring.

| | COURSE OUTCOMES | BLOOM'S TAXONOMY LEVEL |
|-----|---|------------------------|
| CO1 | Nutritional of a Community. | II (UNDERSTAND) |
| CO2 | Methods to improve Nutritional quality. | II (UNDERSTAND) |
| CO3 | Nutrition deficiency disorders. | IV (ANALYZE) |
| CO4 | Nutrition monitoring and surveillance. | III (APPLY) |
| CO5 | Community nutrition programme planning | IV (ANALYZE) |

TABLE 1: OF CO, PO, PSO MAPPING

| outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PS01 | PSO2 | PS03 | PSO4 | PSO5 | PSO6 | PSO7 | PSO8 |
|----------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| C01 | H | H | | S | S | H | S | | H | H | H | H | Н |
| C02 | H | S | | S | S | H | H | | H | H | H | H | S |
| C03 | H | S | | S | S | H | H | | H | H | H | S | Н |
| C04 | H | S | | S | S | H | S | | H | H | H | H | H |
| C05 | H | S | | S | S | H | H | | H | H | H | H | S |

| со | mid | exam 1 | mi | d exam 2 | group | p discussion | as | signment | | viva | va Attendence | | | External Exam | | | |
|-----|--------------------|------------|--------------------|------------|--------------------|--------------|--------------------|------------|--------------------|------------|--------------------|------------|------------------|--------------------|------------|------------------|---------------|
| | 000094 | Attainment | 0000% | Attainment | 000004 | Attainment | 000094 | Attainment | 000094 | Attainment | 0000% | Attainment | co wise internal | 0000% | Attainment | co wise external | co wise total |
| | pass ₇₀ | level | pass ₇₀ | level | pass ₇₀ | level | pass ₇₀ | level | pass ₇₀ | level | pass ₇₀ | level | average | pass ₇₀ | level | average | average |
| CO1 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 87.9 | 3.0 | 3.0 | 3.0 |
| CO2 | 100.0 | 3.0 | | | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 87.9 | 3.0 | 3.0 | 3.0 |
| CO3 | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 87.9 | 3.0 | 3.0 | 3.0 |
| CO4 | | | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 87.9 | 3.0 | 3.0 | 3.0 |
| CO5 | | | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 3.0 | 87.9 | 3.0 | 3.0 | 3.0 |

| AVERAGE | AVERAGE |
|---------|---------|
| 3 | 3 |



| OUTCOME | PC | 01 | PC |)2 | PO3 | PO4 | PO5 | PO | 6 | PO | 7 | PO8 |
|---------------------------|----|----|----|----|-----|-----|-----|----|---|----|---|-----|
| CO1 | н | 3 | н | 3 | | | | н | 3 | | | |
| CO2 | н | 3 | | | | | | н | 3 | н | 3 | - |
| CO3 | н | 3 | | | | | | н | 3 | н | 3 | |
| CO4 | н | 3 | | | | | | Н | 3 | | | |
| CO5 | н | 3 | | | | | | Н | 3 | н | 3 | |
| AVERAGE OF COS FOR POS | 93 | 3 | 3 | 5 | | | | 3 | | 3 | | |
| AVERAGE OF POS | | 3 | | 3 | | | | | 3 | | 3 | |
| AVERAGE | | | | | | | 3 | | | | | |

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: PUBLIC HEALTH NUTRITION

COURSE CODE: MFSN20206

CREDITS: 4

DEPARTMENT: M.Sc. FOOD SCIENCE AND NUTRITION

PROGRAMME OUTCOMES Or POS(MDS):

PROGRAM OBJECTIVES (POs)

- PO 1: Understanding and ability to apply these novel technologies in Food nutritional security.
- PO 2: Understanding of novel and innovative development programs in attaining nutrition security.
- **PO 3** : Describing food labeling and advertising.
- PO 4: Enable the students to gain knowledge regarding national policies for improving food and nutrition security.
- **PO 5:** Demographic transition

PROGRAMME SPECIFIC OUTCOME:

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Understand the concept of food and nutrition security.

PSO2: Analyze the relationship between food and nutrition security.

PSO3: Apply the knowledge of food production and agriculture policies.

PSO4: Impact of Development programs on Nutrition security.

| | COURSE OUTCOMES | BLOOM'S TAXONOMY LEVEL |
|-----|---|------------------------|
| CO1 | Public health nutrition and heath care system | II (UNDERSTAND) |
| CO2 | Population dynamics | II (UNDERSTAND) |
| CO3 | Public health aspects of undernutrition | IV (ANALYZE) |
| CO4 | Approaches strategies for improving nutrition status and health status of the community | III (APPLY) |
| CO5 | Food and nutrition security | IV (ANALYZE) |

TABLE 1: OF CO, PO, PSO MAPPING

| outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PS01 | PSO2 | PS03 | PSO4 | PSO5 | PSO6 | PSO7 | PSO8 |
|----------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| C01 | S | H | | S | H | | S | | H | H | H | H | H |
| C02 | H | H | | S | H | | H | | H | H | H | H | S |
| C03 | H | H | | S | H | H | H | | H | H | H | S | Н |
| C04 | H | H | | S | H | | S | | H | H | H | S | H |
| C05 | S | H | | S | H | | H | | H | H | H | H | S |

| | | | | | | | | ÓO | | | | | | | | | |
|-----|--------------------|------------|--------------------|------------|--------------------|--------------|--------------------|------------|--------------------|------------|--------|------------|------------------|--------------------|------------|------------------|---------------|
| со | mid | exam 1 | mi | d exam 2 | grou | p discussion | as | signment | | viva A | | ttendence | | | External | Exam | |
| | | Attainment | | Attainment | | Attainment | | Attainment | | Attainment | | Attainment | co wise internal | | Attainment | co wise external | co wise total |
| | pass ₇₀ | level | pass ₇₀ | level | pass ₇₀ | level | pass ₇₀ | level | pass ₇₀ | level | passzo | level | average | pass ₇₀ | level | average | average |
| CO1 | 100.0 | 3.0 | | | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | 72.7 | 1.0 | 2.6 | 87.9 | 3.0 | 3.0 | 2.8 |
| CO2 | 100.0 | 3.0 | | | 100.0 | 3.0 | | | 100.0 | 3.0 | 72.7 | 1.0 | 2.5 | 87.9 | 3.0 | 3.0 | 2.8 |
| CO3 | 100.0 | 3.0 | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 72.7 | 1.0 | 2.6 | 87.9 | 3.0 | 3.0 | 2.8 |
| CO4 | | | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 72.7 | 1.0 | 2.5 | 87.9 | 3.0 | 3.0 | 2.8 |
| COS | | | 100.0 | 3.0 | 100.0 | 3.0 | | | 100.0 | 3.0 | 72.7 | 1.0 | 2.5 | 87.9 | 3.0 | 3.0 | 2.8 |

| AVERAGE | AVERAGE |
|---------|---------|
| 3 | 2.816 |



| OUTCOME | PO1 | | PO2 | | PO3 | PO4 | PO5 | | PO6 | | PO7 | | PO8 |
|---------------------------|-------------|-------------|--------|------|-----|-----|--------|------|------|------|-------------|------|-----|
| CO1 | | | н | 2.84 | | | н | 2.84 | | | | | |
| CO2 | н | 2.8 | н | 2.8 | | | н | 2.8 | | | н | 2.8 | |
| CO3 | н | 2.84 | Н | 2.84 | | | Н | 2.84 | н | 2.84 | Н | 2.84 | |
| CO4 | н | 2.8 | Н | 2.8 | | | н | 2.8 | | | | | |
| CO5 | | | Н | 2.8 | | | н | 2.8 | | | н | 2.8 | |
| AVERAGE OF COS FOR POS | 2.813333333 | | 2.816 | | | | 2.816 | | 2.84 | | 2.813333333 | | |
| AVERAGE OF POS | 2.813333 | | 2.8112 | | | | 2.8112 | | 2.84 | | 2.813333 | | |
| AVERAGE | | 2.817813333 | | | | | | | | | | | |