

Effective from Session: 2025-26								
Course Code	BHM 201	Title of the Course	Food Production Operations I (Theory)	L	T	P	С	
Year	II	Semester	III	3	0	0	3	
Pre-Requisite	None	Co-requisite	None					
Course Objectives	To manage the planning	g, factors, and types of n	nenus, one needs to understand the points to be considered v	hile pl	anning	g the m	ienu.	

	Course Outcomes								
CO	To understand definitions uses and types of menus with standard recipe formulation and its format use in the hotel industry. Different types of								
	breakfast.								
CO	To understand production, by-products, and uses of common commodities used in the kitchen like milk, and cheese.								
CO.	To learn about salads its origin, types, and dressing.								
CO <sub>4</sub>	To learn basic knowledge of Indian curry, gravies, breads, sweets & accompaniments.								

Unit No.	Title of the Unit		Contact Hrs.	Mapped CO
1	Menu planning recipe formulation	Factors affecting menu planning standard recipes: definition, writing, format, and costing. Basic principles of menu planning – recapitulation, nutritional factors for the above. Principles of indenting for volume feeding, quantity purchase & storage.	10	CO1
2	Commodities	Milk and milk products: composition of milk, storage, types of milk, cream, butter, curd cheese: Production of Cheese, classification of cheese, cheese from different countries. Vegetables: Classification, selection, effects of heat. Fruits: classification, selection, uses in Cookery. Nuts &seeds: definition, use.	10	CO2
3	Salads	Introduction, composition of salads, types of salad, salad dressing, emerging trends in salad Making, and salient features of preparing good salads.	10	CO3
4	Basic Indian Cookery	Introduction to Indian spices & vegetables, role of spices in Indian cookery. Masalas, blending of spices, different masalas used in Indian Cookery (wet & dry masalas), Composition of different masalas, varieties of masalas available in regional areas, special Masala blends, Introduction to Indian Cookery: - a) historical background b) culture c) religion d) equipment e) staple diets	15	CO4

#### **References Books:**

Food Production Operations by Chef Parvinder S. Bali

Practical Professional Cookery by Cracknell and Kaufmann

Catering Management by Mohini Sethi & Surjeet Malhan

Indian Food: A Historical Companion by Achaya KT &Food: A Culinary History by Jean-Louis Flandrin

Hygiene and Sanitation by S. Roday

#### e-Learning Source:

https://whatscookingamerica.net/glossary/

http://www.foodsubs.com/

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	1	2	1	2	1	2	1	1	1	2	1
CO2	2	1	2	2	2	1	2	2	2	1	2
CO3	1	2	2	2	1	2	1	1	1	2	2
CO4	2	1	2	1	2	1	2	2	2	1	1

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator Sign & Seal of HoD



Effective from Session: 2025-26								
Course Code	BHM 201P	Title of the Course	Food Production Operations I (Practical)	L	T	P	С	
Year	II	Semester	III	0	0	2	1	
Pre-Requisite	None	Co-requisite	None					
Course Objectives	To manage the planning	g, factors, and types of n	nenus, one needs to understand the points to be considered w	hile p	lanning	g the m	ienu.	

	Course Outcomes							
CO1	To understand Practical application in menu preparation.							
CO2	To identify various methods of preparation.							
CO3	To understand different types of salad making.							
CO4	To understand the preparation of basic Indian cookery.							

Unit No.	Title of the Unit		Contact Hrs.	Mapped CO
1	Menu planning recipe formulation	Types of menu presentation, Different menu preparation, Indents writing for the menu according to the recipe.	8	CO1
2	Commodities  Milk preparation, Items to prepare include cheese, Menu according to category.		7	CO2
3	Salads	Different types of salad preparation including international and national salad.	8	CO3
4	Basic Indian cookery	Basics preparation of Indian cookery.	7	CO4

### **References Books:**

Food Production Operations by Chef Parvinder S. Bali

Practical Professional Cookery by Cracknell and Kaufmann

Catering Management by Mohini Sethi & Surjeet Malhan

Indian Food: A Historical Companion by Achaya KT &Food: A Culinary History by Jean-Louis Flandrin

Hygiene and Sanitation by S. Roday

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PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	1	2	1	2	1	2	1	1	1	2	1
CO2	2	1	2	2	2	1	2	2	2	1	2
CO3	1	2	2	2	1	2	1	1	1	2	2
CO4	2	1	2	1	2	1	2	2	2	1	1

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation									
Name & Sign of Program Coordinator	Sign & Seal of HoD								



Effective from Session: 2025-26								
Course Code	BHM202	Title of the Course	Food & Beverage Service Operation I (Theory)	L	T	P	С	
Year	II	Semester	III	3	0	0	3	
Pre-Requisite	None	Co-requisite	None					
Course Objectives	To impart the working	procedures and skills rec	quired in managing this department of food and beverage rel	ated to	wines	and b	eer.	

	Course Outcomes							
CO1	To understand the making process of beer.							
CO2	To understand the wine law of wine-producing countries.							
CO3	To understand the making process of beer.							
CO4	To understand the food & beverages outlets operation control system.							

Unit No.	Title of the Unit		Contact Hrs.	Mapped CO
1	Classification of Alcoholic Beverage	Beer-History (A brief description of how beer came into being), Ingredients. Brewing Process: Bottom fermentation; Top fermentation. Storage of beer, service of Beer. Types of beer (ales, lagers, draught, and wheat beers), Brand Names (National & International).	10	CO1
2	Wine	Wine Introduction to wine, cider and perry, definition of wine. Viticulture seasons, Quality of soil, and the area of production. Types & Composition of grapes and its effect on the nature of wine, wine makers' Calendar. Wine-making Methods. Wine classification & Types: table, fortified, aromatized & sparkling. Characteristics of wine: Still, sweet, dry, vintage, & non-vintage.	10	CO2
3	Wines of France	Different regions, their geographical composition and climate, grape varieties with characteristics of wines from each region.	10	CO3
4	Restaurant Operation Control System	Necessity of a good control system. Functions of the control system. K.O.T./B.O.T. Taking Order and presenting bills/bills voiding, cancellation method. Duplicate and triplicate checking system. Inter-departmental transfer, summary sheet, control of cash &credit sales.	15	CO4

### **References Books:**

Sudhir Andrews: F & B Service Trg. Manual

Denni R. Lillicrap: F & B Service

John Walleg: Professional Restaurant Service

Brian Varghese: Professional F& B Service Management

### e-Learning Source:

https://www.unlockfood.ca/en/Articles/Menu-Planning/7-Steps-for-Quick-and-Easy-Menu-Planning.aspx

https://hoteltalk.app/the-role-of-a-butler/

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	1	2	1	2	1	2	1	1	1	2	1
CO2	2	1	2	2	2	1	2	2	2	1	2
CO3	1	2	2	2	1	2	1	1	1	2	2
CO4	2	1	2	1	2	1	2	2	2	1	1

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator

Sign & Seal of HoD



Effective from Session: 2025-26											
Course Code	BHM202P	Title of the Course	Food & Beverage Service Operation I (Practical)	L	T	P	С				
Year	II	Semester	III	0	0	2	1				
Pre-Requisite	None	Co-requisite	None								
Course Objectives											

	Course Outcomes
CO1	To understand the making and service process of national & international wines.
CO2	To know about the different wine-producing countries and their specialty wine.
CO3	To understand the food and matching wine service harmony.
CO4	To learn different types restaurant systems.

Unit No.	Title of the Unit		Contact Hrs.	Mapped CO
1	Classification of Alcoholic Beverage	Beverage order taking and preparation of bot. Revision of first-year Practical's, table layout and services for different types of meals.	8	CO1
2	Wine	Understand the wine law of wine-producing countries. Fuels —their usage and precautions while dealing with them in f&b outlets. Services of red wine, white wine, and champagne with all the courses.	7	CO2
3	Wines of France	Familiarization with the glassware, equipment, and tools required in relation to beer &wine services. Preparing charts, different regions of France, and their characteristics of wine. Regions and characteristics of wine of two other countries.	8	CO3
4	Restaurant Operation Control System	Order taking for food & beverages, preparation for KOT, understand different control systems in restaurant.	7	CO4

### **References Books:**

Sudhir Andrews: F & B Service Training Manual

Dennis R. Lillicrap: F & B Service

John Walleg: Professional Restaurant Service

Brian Varghese: Professional F& B Service Management

## e-Learning Source:

https://www.unlockfood.ca/en/Articles/Menu-Planning/7-Steps-for-Quick-and-Easy-Menu-Planning.aspx

https://hoteltalk.app/the-role-of-a-butler/

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	1	2	1	2	1	2	1	1	1	2	1
CO2	2	1	2	2	2	1	2	2	2	1	2
CO3	1	2	2	2	1	2	1	1	1	2	2
CO4	2	1	2	1	2	1	2	2	2	1	1

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator

Sign & Seal of HoD



Effective from Session: 2025-26											
Course Code	BHM203	Title of the Course	Accommodation & Front Office Operations I (Theory)	L	Т	P	С				
Year	II	Semester	III	3	0	0	3				
Pre-Requisite	None	Co-requisite	None								
Course Objectives	This module is prescrib	ed to appraise students a	about different types of Room Rates applicable in hotels, and	l guest	comp	aints.					

	Course Outcomes
CO1	To understand the basics of room tariff.
CO2	To handle various guest services.
CO3	To sewing room activities and manage the uniform room.
CO4	To different types of laundry and stain removal procedures.

Unit No.	Title of the Unit		Contact Hrs.	Mapped CO
1	Room Tariff Formulation &Bell Desk management	Factors affecting Room Tariff, basis for establishing the end of day, Room Rate. Designation Procedures: Check-in., Check-out., Left language Procedure, Duties & Responsibilities of Bell Boy & Bell Captain.	10	CO1
2	Guest Services	Handling guest mails, Handling guest messages, Room key management. Safety deposit locker: Procedure, Wake-up call. Paging system. Guest Complaint & Handling Procedure.	10	CO2
3	Sewing room & Uniform room	Activities and area provided. Equipment's. Purpose of uniforms No. Of sets issuing procedure & exchange of uniform. Designing a uniform. Layout and planning of the Uniform room.	10	CO3
4	Fibers and fabrics & Stain removal	Definition. Origin and classification, characteristics of different fibers – cotton, linen, silk, polyester, nylon, acrylic. Types, different types of strains, cleaning methods.	15	CO4

#### **References Books:**

Hotel Hostel and Hospital Housekeeping – Joan C Branson & Margaret Lennox (ELBS).

Hotel House Keeping - Sudhir Andrews Publisher: Tata Mc Graw Hill.

Hotel Housekeeping Operations & Management - Raghubalan, Oxford University Press.

Bruce Braham - Hotel Front Office.

Jatashankar R. Tewari- Hotel Front Office Operations & Management.

### e-Learning Source:

https://www.bbcgoodfood.com/howto/guide/top-10-non-alcoholic-drinks

https://www.brandwatch.com/blog/the-biggest-restaurant-industry-trends/

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	1	2	1	2	1	2	1	1	1	2	1
CO2	2	1	2	2	2	1	2	2	2	1	2
CO3	1	2	2	2	1	2	1	1	1	2	2
CO4	2	1	2	1	2	1	2	2	2	1	1

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator

Sign & Seal of HoD



Effective from Sessi	Effective from Session: 2025-26											
Course Code	BHM203P	Title of the Course	L	T	P	C						
Year	II	Semester	III	0	0	2	1					
Pre-Requisite	None	Co-requisite	None									
Course Objectives	Dbjectives This module is prescribed to appraise students about different types of room rates applicable in hotels, guest complains.											

	Course Outcomes						
CO1	To Understand knowledge about fiber, fabrics and yarn.						
CO2	To perform Sewing room activities and managing uniform room.						
CO3	To have Some knowledge about fiber, fabrics and yarn.						
CO4	To understand Planning and organizing of the linen room and uniform room.						

Unit No.	Title of the Unit		Contact Hrs.	Mapped CO
1	Room tariff formulation & bell Desk management	Bell desk activities during: - check-in & check-out. Understanding layouts of front office and housekeeping Message and mail handling and books filling up.	8	CO1
2	Guest services	Handling guest mails & messages. Handling various types of enquires.	7	CO2
3	Sewing room & Uniform room	Sewing room – mending and use of sewing kit. Visit to hotel laundry / commercial laundry.	8	CO3
4	Fibers and fabrics & stain removal	Stain removal: identification and removal of the stains using the specific methods and Reagents.	7	CO4

#### **References Books:**

Hotel Hostel and Hospital Housekeeping - Joan C Branson & Margaret Lennox (ELBS).

Hotel House Keeping - Sudhir Andrews Publisher: Tata Mc Graw Hill.

Hotel Housekeeping Operations & Management – Raghubalan, Oxford University Press.

Bruce Braham - Hotel Front Office.

#### e-Learning Source:

https://www.brandwatch.com/blog/the-biggest-restaurant-industry-trends/

https://www.precog.co/blog/sustainability-food-and-beverage-manufacturing/

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	1	2	1	2	1	2	1	1	1	2	1
CO2	2	1	2	2	2	1	2	2	2	1	2
CO3	1	2	2	2	1	2	1	1	1	2	2
CO4	2	1	2	1	2	1	2	2	2	1	1

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Name & Sign of Program Coordinator Sign & Seal of HoD



Effective from Session: 2025-26								
Course Code	BHM205	Title of the Course	Bar Management	L	T	P	C	
Year	II	Semester	III	2	1	0	3	
Pre-Requisite	None	Co-requisite	None					
Course Objectives To familiarize the students with the planning bar layout and bar operations function smoothly.								

	Course Outcomes						
CO1	To understand Bar and its classification.						
CO2	To understand preparation methods for mixed drinks.						
CO3	To identify the layouts of different types of bars.						
CO4	To recognize different types of bar equipment: - Large, medium & small						

Unit No.	Title of the Unit		Contact Hrs.	Mapped CO				
1	Bar	Introduction, beverage management, brief history types of bar lounge & bar service Organization of lounge bar syrups and other non-alcoholic beverage mix drinks	10	CO1				
2	Bar Layout & Planning	Introduction, bar section details, bar shapes: planning criteria bars, plans, elevations & sections, themes & concepts bar equipment, glassware's.	15	CO2				
3	Service & Selling Techniques	Bartenders: job analysis salesmanship of bar attendants, guidelines for bar attendants' hygiene & health bar duties, staff management qualities of a professional manager responsible service of alcohol.	5	CO3				
4	Bar operation & Control	Customer service and customer relations sales promotion & merchandising managing The service sequence method of beverage control, stock control in the bar portion control cash handling procedures, and bar licenses.	15	CO4				
Referen	nces Books:							
Michael I	M Coltman Bevera	age Management						
Lipenski	& Lipenski Profess	sional Beverage Management						
Mahendra	a Singh Negi Handb	ook of Bar & Beverage						
Michael M Coltman Beverage Management								
e-Learni	e-Learning Source:							
https://hot	teltechreport.com/news/	hotel-housekeeping-duties						
https://wv	ww.cvent.com/en/blog/h	ospitality/hotel-interior-design						

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	1	2	1	1	1	2	1	1	1	2	1
CO2	2	1	2	2	2	1	2	2	2	1	2
CO3	1	2	2	2	1	2	1	2	1	2	2
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https://www.hycdesign.com/blogs/design-guides/2021-new-trends-in-hotel-guestroomdecoration

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation							
Name & Sign of Program Coordinator	Sign & Seal of HoD						



Effective from Session: 2025-26									
Course Code	B150210T/ES143	Title of the Course	Environmental Education and Sustainable Management	L	T	P	С		
Year	II	Semester	III	2	1	0	3		
Pre-Requisite	None	None Co-requisite None							
Course Objectives	Course Objectives To Create awareness about environmental problems among people.								

	Course Outcomes
CO1	Gain in-depth knowledge of natural processes and resources that sustain life and govern the economy
CO2	Understand the consequences of human actions on the web of life, global economy, and quality of human life.
CO3	Acquire values and attitudes towards understanding complex environmental- economic-social challenges, and active participation in solving current environmental problems and preventing
	the future ones.
CO4	Aware students about problems of environmental pollution, its impact on humans and ecosystems, and control measures.

Unit No.	Title of the Unit		Contact Hrs.	Mapped CO
1	Humans and the Environment	The man-environment interaction: Humans as hunter-gatherers; Mastery of fire; Origin of agriculture; Emergence of city-states; Great ancient civilizations and the environment; Middle Ages and Renaissance; Industrial revolution and its impact on the environment; Population growth and natural resource exploitation; Global environmental change. The emergence of environmentalism: Anthropocentric and eco-centric perspectives (Major thinkers); The Club of Rome-Limits to Growth; UN Conference on Human Environment 1972; World Commission on Environment and Development and the concept of sustainable development; Rio Summit and subsequent international efforts.	10	COI
2	Natural Resourcesand Sustainable Development	Overview of natural resources: Definition of resource; Classification of natural resources- biotic and abiotic, renewable and non-renewable. Microbes as a resource; Status and challenges. Water resources: Types of water resources- fresh water and marine resources; Availability and use of water resources; Environmental impact of over-exploitation, issues and challenges; Water scarcity and stress; Conflicts over water. Soil and mineral resources: Important minerals; Mineral exploitation; Environmental problems due to extraction of minerals and use; Soil as a resource and its degradation. Energy resources: Sources of energy and their classification, Implications of energy use on the environment. Introduction to sustainable development: Sustainable Development Goals (SDGs)- targets and indicators, challenges and strategies for SDGs.	10	CO2
3	Conservation of Biodiversity and Ecosystems	Biodiversity as a natural resource; Levels and types of biodiversity; Biodiversity in India and theworld; Biodiversity hotspots. Major ecosystem types in India and their basic characteristics; Ecosystem services- classification and their significance. Threats to biodiversity and ecosystems, Major conservation policies: in-situ and ex-situ conservation approaches; National and International Instruments for biodiversity conservation; the role of traditional knowledge, community-based conservation; Gender and conservation.	10	CO3
4	Environmental Management	Introduction to environmental laws and regulation: Constitutional provisions- Article 48A, Article 51A(g) and other derived environmental rights; Introduction to environmental legislations on the forest, wildlife, and pollution control. Environmental management system: ISO 14001Life cycle analysis; Cost-benefit analysis, Environmental audit and impact assessment; Environmental risk assessment. Pollution control and management; Waste Management-Concept of 3R (Reduce, Recycle and Reuse) and sustainability; Ecolabeling /Ecomark scheme	15	CO4

### References Books:

Agarwal, K.C. 2001 Environmental; Biology, Nidi Pub. Ltd. Bikaner.

Bharucha Erach, The Biodiversity of India, Mapin Pub. Pvt. Ltd., Ahemdabad-380, India.

Brunner R.C. 1989. Hazardous waste incineration, Mc Graw Hill

#### e-Learning Source:

https://byjus.com/biology/difference-between-environment-and-eCO system.

https://www.youtube.com/watch?v=dRPl4TB8w7k

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)																
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
co																		
CO1	1	1	3	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	1	3	1	-	1	2	-	-	-	-	-	-	-	-	-	-	-
CO3	-	1	3	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
CO4	1	1	3	-	1	2	-		-	-	-	-	-	-	2	-	•	-

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Name & Sign of Program Coordinator	Sign & Seal of HoD						