



**Anjuman-I-Islam's  
Institute of Hospitality Management**  
(Affiliated to the University of Mumbai)


92, Dr. Dadabhai Naoroji Road, Opp CSMT, Mumbai - 400 001.

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E-mail: [principal@anjumanihm.com](mailto:principal@anjumanihm.com) / [rukshana.principal@anjumanihmct.org](mailto:rukshana.principal@anjumanihmct.org)

Details of Add on Courses  
Certificate Course (Online  
Mode) offered by NPTEL,  
Swayam under Academy  
Flexibility

Sr. No	Description
1.	Flyers / Brochure

  
**Principal**  
Anjuman-I-Islam's  
Institute of Hospitality Management  
Mumbai-01





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Institute of Hospitality Management**  
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E-mail: principal@anjumanihm.com / rukshana.principal@anjumanihmct.org

# 2020 - 21

Topic Name	Class	Year
Body Language : Key to Professional Success	F.Y.BSc.(HS)	2020-2021
E-Business	F.Y.BSc.(HS)	2020-2021
Introduction to Operating Systems	F.Y.BSc.(HS)	2020-2021
Adolescent Nutrition	S.Y.BSc.(HS)	2020-2021
Foundation Course In Tourism	S.Y.BSc.(HS)	2020-2021
Tourism And Travel Management	S.Y.BSc.(HS)	2020-2021
Thermodynamics	T.Y.BSc(HS)	2020-2021
Energy Conservation And Waste Heat Recovery	T.Y.BSc(HS)	2020-2021
Dairy And Food Process And Products Technology	T.Y.BSc(HS)	2020-2021

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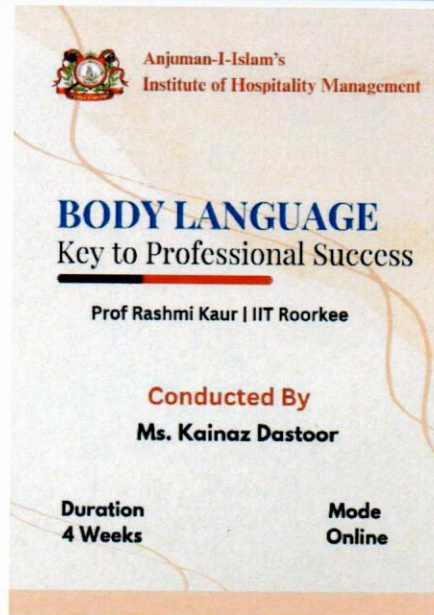






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**Week 1:** Defining Body Language, Scope and Relevance, Changing Contours, Classification, Defining Proxemics, Four Zones, Behavioral Connotations, Space and Designs, Haptics and its Role, Behavioral Significance

**Week 2:** Shaking Hands and other tactile behavior. Cultural Variations, Occulesics, Right and Left Brain Associations, Different Types of Eye Contact, Individual and Group situations, Facial Expressions, Smiles and Nods, Head Tilts and Inclines

**Week 3:** Facial Expressions, Cultural Interface, Kinesics: Types and Contexts, Negative and Positive Gestures, Hand Movements and Steepling, Understanding Finger Movements, Fidgeting and Ticks

**Week 4:** Paralanguage and Voice Modulations, Chronemics, Chromatics, Cultural and Gender Based aspects, Stereotypes, Body Language: Online Presence and Video Interviews

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# E-BUSINESS

Prof. Mamata Jenamani | IIT - Kharagpur

Mode : Online

Conducted By  
Dr. Stephan Almeida

Duration  
12 weeks

**Week 1:** Introduction to E-Business

**Week 2:** Making Functional Areas E-Business Enabled : Value chain and supply chain, inter and intra organizational business processes, ERP

**Week 3:** Making Functional Areas E-Business Enabled : E-Procurement

**Week 4:** Making Functional Areas E-Business Enabled : E-marketing, E-Selling, E-Supply Chain Management

**Week 5:** Technologies for E-Business: Internet and Web based system

**Week 6:** Technologies for E-Business: Security and payment systems

**Week 7:** Technologies for E-Business: Supply chain integration technologies (EDI, RFID, Sensors, IoT, GPS, GIS)

**Week 8:** Technologies for E-Business: Supply chain integration technologies (Web services and cloud)

**Week 9:** Decision Support in E-Business: Web analytics

**Week 10:** Decision Support in E-Business: Customer behavior modelling

**Week 11:** Decision Support in E-Business: Auctions

**Week 12:** Decision Support in E-Business: Recommender systems

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# INTRODUCTION TO OPERATING SYSTEMS

Prof. Chester Rebeiro | IIT - Madras

**CONDUCTED BY**  
Mr. Manojkumar Barbhai

**DURATION**  
8 WEEKS

**Mode : Online**

- Week 1 : Introduction
- Week 2 : Memory Management
- Week 3 : Processes
- Week 4 : Interrupts and Context Switching
- Week 5 : Scheduling
- Week 6 : Synchronization
- Week 7 : Deadlocks
- Week 8 : Operating System Security

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**ADOLESCENT  
NUTRITION**

DR. Hemalatha R | DR.  
Raja Sriswan Mamidi  
ICMR via Swayam

Conducted By  
Ms. Aditi Desai

MODE  
ONLINE

DURATION  
4 WEEKS

Week – 1 | 1. Introduction to Food & Nutrition | 2. Human Biology | 3. Vital Parameters and Health Check |

Week – 2 | 4. Nutrients | 5. Water | 6. Carbohydrates (Part-1) | 7. Carbohydrates (Part-2) |

Week – 3 | 8. Nutrients – Proteins | 9. Proteins – Structure & Classification |

Week - 4 | 10. Lipids and Fats Part-1 | 11. Lipids and Fats Part-2 | 12. Source of Fats and Oil | 13. Fat Soluble Vitamins |

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**FOUNDATION  
COURSE IN TOURISM**

IGNOU Delhi via Swayam

CONDUCTED BY  
Mr. Benny Thomas

Mode  
Online



Duration  
16 Weeks

**Week 1:**

Block 1: Tourism Phenomenon

Unit 1: Understanding Tourism 1

Unit 2: Understanding Tourism 2

**Week 2:**

Block 1: Tourism Phenomenon

Unit 3: Historical Evolution and Development

Block 2: Tourism as an Industry

Unit 4: Tourism System

**Week 3:**

Block 2: Tourism as an Industry

Unit 5: Constituents of Tourism Industry and tourism organizations

Unit 6: Tourism Regulations

Unit 7: Statistics and Measurements

**Week 4:**

Block 3: Tourism Services and Operations-1

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Unit 8: Modes of Transport

Unit 9: Tourism Accommodation

**Week 5:**

Block 3: Tourism Services and Operations-1

Unit 10: Informal Services in Tourism

Unit 11: Subsidiary Services Categories and Roles

**Week 6:**

Block 3: Tourism Services and Operations-1

Unit 12: Shops, Emporiums and Melas

Block 4: Tourism Services and Operations-2

Unit 13: Travel Agency

Unit 14: Tour Operator

Block 4: Tourism Services and Operations-2

Unit 15: Guides and Escorts

Unit 16: Tourism Information: Sources

**Week 8:**

Block 5: Geography and Tourism

Unit 17: India's Biodiversity: Landscape, Environment and Ecology

Unit 18: Seasonality and Destinations

Unit 19: Map And Chart Work

Block 6: Tourism Marketing and Communications

Unit 20: Tourism Marketing – 1: Relevance, Product Design, Market Research

Unit 21: Tourism Marketing – 2: Promotional Events Advertising, Publicity, Selling

Block 6: Tourism Marketing and Communications

Unit 22: Role Of Media

Unit 23: Writing For Tourism

Unit 24: Personality Development And Communicating Skills

**Week 11:**

Block 7: Tourism: The Cultural Heritage

Unit 25: Use of History

Unit 26: Monuments and Museums

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**Week 12:**

Block 7: Tourism: The Cultural Heritage

Unit 27: Living Culture and Performing Arts

Unit 28: Religions of India

**Week 13:**

Block 8: Tourism Planning and Policy

Unit 29: Tourism Policy and Planning

**Week 14:**

Block 8: Tourism Planning and Policy

Unit 30: Infrastructural Development

**Week 15:**

Block 8: Tourism Planning and Policy

Unit 31: Local Bodies, Officials and Tourism

Unit 32: Development, Dependency and Manila Declaration

**Week 16:**

Block 9: Tourism Impact

Unit 33: Economic Impact

Unit 34: Social, Political and Environment Impact

Unit 35: Threats and Obstacles

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**TOURISM AND TRAVEL  
MANAGEMENT**

IGNOU Delhi via Swayam by Mr N. Roopesh Kumar

**Conducted By  
Mrs. Sneha Bhandare**

Mode  
ONLINE

**Duration  
ONLINE**

Week – 1 | 1. Meaning and definition of travel & Tourism | 2. Travel during Ancient times | 3. Travel during Medieval & Modern period period |

Week – 2 | 4. Cultural heritage resources | 5. Tourism Resources-Natural | 6. Types of tourism | 7. Adventure tourism |

Week – 3 | 8. Basic minimum Standards of adventure tourism | 9 . Eco and urban tourism | 10. Heritage tourism -1 | 11. Heritage tourism -2 |

Week – 4 | 12. Sports Tourism | 13. Medical tourism | 14. Rural tourism | 15. Wildlife tourism |

Week – 5 | 16. History and evolution of travel agency | 17. IATA Recognition of travel agents | 18. Functions of travel agency | 19. Itinerary preparation and tour costing |

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Week – 6 | 20. tour operators and their types | 21. Tour operators brochure | 22. Role and responsibilities of tourist guide | 23. Code of conduct and behaviour of tourist guide |

Week - 7 | 24. Communication in Guiding | 25. Body Language and Commentary | 26. Importance of tourism transport | 27. transport costing and pricing |

Week – 8 | 28. Air transport in India | 29. Major Airports of the world | 30. Land transport - Railways | 31. Land transport - Automobiles |

Week – 9 | 32. Water transport- Sea routes | 33. Inland water transport | 34. Transport in India - Railways | 35. Other means of transport in India |

Week – 10 | 36. Tourism Motivation | 37. Organisation for tourism promotions | 38. Guideline for protection, conservation of environment | 39. Fairs and festivals |

Week – 11 | 40. Tourism planning and development | 41. Impact of Tourism | 42. Social and cultural impact of tourism | 43. Ethics in tourism |

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ANJUMAN-I-ISLAM'S  
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MANAGEMENT

# THERMO DYNAMICS

PROF. S.R KALE | IIT - MADRAS & NPTEL

Conducted By  
**Mr. Edricks Dmello**

MODE  
ONLINE

Duration  
12 WEEKS

Week 1 : Fundamentals - System; Control volume; Property, State; Process; Exact; Inexact differentials; Work - Thermodynamic definition of work; examples;

Week 2 : Displacement work; Path dependence of displacement work and illustrations for simple processes; electrical, magnetic, gravitational, spring and shaft work.

Week 3 : Temperature, Definition of thermal equilibrium and Zeroth law; Temperature scales; Various Thermometers-Definition of heat; examples of heat/work interaction in systems

Week 4 : First Law for Cyclic; Non-cyclic processes; Concept of total energy  $E$  ; Demonstration that  $E$  is a property; Various modes of energy, Internal energy and Enthalpy

Week 5 : Definition of Pure substance, Ideal Gases and ideal gas mixtures, Real gases and real gas mixtures, Compressibility charts

Week 6 : Properties of two phase systems - Const. temperature and Const. pressure heating of water; Definitions of saturated states; P-v-T surface; Use of steam tables

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and R134a tables; Saturation tables; Superheated tables; Identification of states  
determination of properties, Mollier's chart.

Week 7 : First Law for Flow Processes - Derivation of general energy equation for a  
control volume; Steady state steady flow processes including throttling; Examples of  
steady flow devices; Unsteady processes; examples of steady and unsteady law  
applications for system and control volume.

Week 8 : Second law - Definitions of direct and reverse heat engines; Definitions of  
thermal efficiency and COP; Kelvin-Planck and Clausius statements; Definition of  
reversible process; Internal and external irreversibility;

Week 9 : Carnot cycle; Absolute temperature scale. Clausius inequality; Definition of  
entropy  $S$  ; Demonstration that entropy  $S$  is a property; Evaluation of  $S$  for  
solids, liquids, ideal gases and ideal gas mixtures undergoing various processes;  
Determination of  $s$  from steam tables

Week 10 : Principle of increase of entropy; Illustration of processes in T-s coordinates;  
Definition of Isentropic efficiency for compressors, turbines and nozzles- Irreversibility  
and Availability

Week 11 : Availability function for systems and Control volumes undergoing different  
processes, Lost work. Second law analysis for a control volume. Exergy balance  
equation and Exergy analysis.

Week 12 : Thermodynamic cycles - Basic Rankine cycle; Basic Brayton cycle; Basic  
vapor compression cycle and comparison with Carnot cycle.

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**ANJUMAN-I-ISLAM'S  
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**ENERGY CONSERVATION  
AND WASTE HEAT  
RECOVERY**

Prof. Prasanta Kumar Das &  
Prof. Anandaroop Bhattacharya  
IIT Kharagpur & NPTEL via Swayam

**Conducted By  
Mrs. Harshali Paul Dadan**

**MODE  
ONLINE**

**Duration  
12 WEEKS**

Week 1 : Introduction to Waste Heat, Importance of Waste Heat Recovery, Review of Thermodynamics – Introduction to First and Second Laws


Week 2 : Review of Thermodynamics – Entropy, Entropy Generation, First and Second Law efficiency

Week 3 : Power Plant Cycles - Energy Cascading, Rankine Cycle, modification of Rankine cycle, examples

Week 4 : Gas Turbine Cycle, Combined Cycle, Combined Gas Turbine-Steam Turbine Power Plant, Heat Recovery Steam Generators

Week 5 : Thermodynamic cycles for low temperature application, Cogenerations, Introduction to Heat Exchangers, Analysis – LMTD and  $\epsilon$ -NTU method

Week 6 : Analysis of Heat Exchanger – continued, Problem solving, Special Heat

  
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Exchangers for Waste Heat Recovery, Synthesis of Heat Exchanger

Network

Week 7 : Heat pipes & Vapor Chambers, Direct conversion technologies –  
Thermoelectric Generators.

Week 8 : Direct conversion technologies – Thermoelectric Generators (contd.),  
Thermoionic conversion, Thermo-PV, MHD

Week 9 : Heat Pump; Heat Recovery from Incinerators, Energy Storage –  
Introduction.

Week 10 : Energy Storage Techniques – Pumped hydro, Compressed Air, Flywheel,  
Superconducting Magnetic storage

Week 11 : Energy Storage Techniques – Thermal storage (Sensible & Latent),  
Battery,

Chemical Energy Storage, Fuel cells.

Week 12 : Energy Economics

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**DAIRY AND FOOD  
PROCESS AND  
PRODUCTS  
TECHNOLOGY**

Prof. Tridib Kumar Goswami  
IIT Kharagpur, NPTEL via  
Swayam

CONDUCTED BY  
**MRS. PRACHI MORWALE**

MODE  
ONLINE

Duration  
12 WEEKS

Week 1: Basic principles and methods of food processing and preservation. Emerging Technologies in food processing. Food additives and preservatives.

Week 2: Food law and standards. Effect of processing on acceptability and nutritive value of food.

Week 3: Physico-chemical properties and structure of milk and milk constituents.

Week 4: Chemical and microbial spoilage of milk and milk products; Fluid milk Processing, packaging and distribution.

Week 5: Common dairy processes – cream separation (standardization), pasteurization, sterilization and Homogenization.

Week 6: Process technology for manufacture of evaporated milk, condensed milk, dried milk, malted milk, infant and baby foods, ice-cream, cheese, butter, fermented milk and indigenous dairy products.

Week 7: Methods and procedures for sampling and testing of milk and milk products. Laws and standards for milk and milk products.

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Week 8: Technological processes for industrially manufactured foods of commercial importance, from plant and animal origin.

Week 9: Cereals, vegetables, fruits, meats, poultry and egg products; Bakery, pasta and confectionary products, ready to eat foods, fermented foods, alcoholic and non-alcoholic Beverages, tea, coffee and cocoa, fabricated foods.

Week 10: Packaging materials; Characteristics, properties and their design. Packaging requirement for Different processed and unprocessed foods.

Week 11: Working Principles of various type of fillers : form-fill- seal machine.

Week 12: Gas packaging and modified atmosphere Package design. Shelf life prediction of foods in packages. Quality control in Food packaging. Product safety and packaging regulations.

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# 2021 -22

Topic Name	Class	Year
Soft Skills Development	F.Y.BSc.(HS)	2021-2022
Corporate Social Responsibility	F.Y.BSc.(HS)	2021-2022
Introduction to Internet of Thing	F.Y.BSc.(HS)	2021-2022
Research Methods In Health Promotion	S.Y.BSc.(HS)	2021-2022
Managing Services	S.Y.BSc.(HS)	2021-2022
Tourism And Marketing	S.Y.BSc.(HS)	2021-2022
Post Harvest Operations And Processing Of Fruits, Vegetables, Spices And Plantation Crop Products	T.Y.BSc(HS)	2021-2022
<del>Food Processing &amp; Science</del>	T.Y.BSc(HS)	2021-2022
Research Methodology	T.Y.BSc(HS)	2021-2022

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Institute of Hospitality Management

### Soft Skill Development

Prof. Priyadarshi Patnaik,  
Prof. V.N. Giri, Prof. D. Suar  
IIT - Kharagpur and NPTEL via Swayam

Conducted By  
Ms. Kainaz Dastoor

Mode  
Online

Duration  
8 Weeks



#### Week 1

- i. Understanding the communicative environment-I
- ii. Understanding the communicative environment-II
- iii. What to listen for and why
- iv. When to speak and how
- v. Starting and sustaining a conversation

#### Week 2:

Communication skills 2 : Presentation and interaction

#### Topics to be covered:

- i. What to present and how – I
- ii. What to present and how – II
- iii. Multimedia presentation: Understanding the basics
- iv. Communication styles
- v. Speaking in groups

#### Week 3:

Communication skills 3: Visual, nonverbal and aural communication

#### Topics to be covered:

- i. The world of visual culture
- ii. Visual perception
- iii. The aural: Its relevance and impact
- iv. The body and the way it communicates
- v. The face, its expressions and what it says

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**Week 4:**

Interpersonal communication 1: Individuals, groups and cultures

- i. Building Relationships
- ii. Understanding Group Dynamics- I
- iii. Understanding Group Dynamics- II
- iv. Groups, Conflicts and their Resolution
- v. Social Network, Media and Extending Our Identities

**Week 5:**

Interpersonal communication 2: Emotional and social skills

**Week 6:**

Developing key traits 1: Creativity, critical thinking and problem solving

**Week 7:**

Developing key traits 2: Motivation, persuasion, negotiation and leadership

- i. Motivating oneself
- ii. The art of persuasion-I
- iii. The art of persuasion-II
- iv. From persuasion to negotiation
- v. Leadership and motivating others

**Week 8:**

Essential and vocational skills: survival strategies

- i. Managing time
- ii. Managing stress
- iii. Resilience
- iv. Work-life balance
- v. Applying soft-skills to workplace

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**Corporate  
Social  
Responsibility**

Prof. Aradhna Malik  
IIT - Kharagpur and NPTEL via Swayam

CONDUCTED BY  
Mrs. Anjali Chatterton

MODE  
ONLINE

Duration : 8 weeks

Week 1: Module 1: Introduction to CSR: What and Why of CSR

Week 2: Module 2: Emergence of CSR: History and current scenario

Week 3: Module 3: Stakeholders: Organization, Government, Society and Regulatory Environments

Week 4: Module 4: Planning and Implementing CSR activities

Week 5: Module 5: Evaluating and developing CSR activities

Week 6: Module 6: Corporate Governance

Week 7: Module 7: CSR and Sustainability

Week 8: Module 8: Future Directions

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**INTRODUCTION  
TO INTERNET OF  
THINGS**

By Prof. Sudip Misra | IIT Kharagpur

Conducted By  
**Mrs. Kranti Bhangre**

Duration  
**12 WEEKS**

**MODE  
ONLINE**

Week 1: Introduction to IoT: Part I, Part II, Sensing, Actuation, Basics of Networking: Part-I

Week 2: Basics of Networking: Part-II, Part III, Part IV, Communication Protocols: Part I, Part II

Week 3: Communication Protocols: Part III, Part IV, Part V, Sensor Networks: Part I, Part II

Week 4: Sensor Networks: Part III, Part IV, Part V, Part VI, Machine-to-Machine Communications

Week 5: Interoperability in IoT, Introduction to Arduino Programming: Part I, Part II, Integration of Sensors and Actuators with Arduino: Part I, Part II

Week 6: Introduction to Python programming, Introduction to Raspberry Pi, Implementation of IoT with Raspberry Pi

Week 7: Implementation of IoT with Raspberry Pi (contd), Introduction to SDN, SDN for IoT

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Week 8: SDN for IoT (contd), Data Handling and Analytics, Cloud Computing

Week 9: Cloud Computing(contd), Sensor-Cloud

Week 10: Fog Computing, Smart Cities and Smart Homes

Week 11: Connected Vehicles, Smart Grid, Industrial IoT

Week 12: Industrial IoT (contd), Case Study: Agriculture, Healthcare, Activity Monitoring

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## RESEARCH METHODS IN HEALTH PROMOTION

Dr. Arista Lahiri  
Swayam IIT Kharagpur, AIH&PH, Kolkata

Conducted By  
**Mr. Edricks Dmello**

Mode  
**ONLINE**

**12 WEEKS**

- Week 1:** Introduction to Research Methods in Health promotion
- Week 2:** Theories and Models in Health Promotion and Health Behavior - part I
- Week 3:** Theories and Models in Health Promotion and Health Behavior - part II
- Week 4:** Quantitative Techniques in Health Promotion: Research designs
- Week 5:** Qualitative methods in Health Promotion
- Week 6:** Mixed methods techniques in Health Promotion
- Week 7:** Study Tool development in Health Promotion
- Week 8:** Designing interventions in Health Promotion
- Week 9:** BCC and SBCC
- Week 10:** Community-Based Participatory Research in context to Health Promotion
- Week 11:** Data analysis in Health Promotion
- Week 12:** Research Proposal Writing and Reporting the Research Findings

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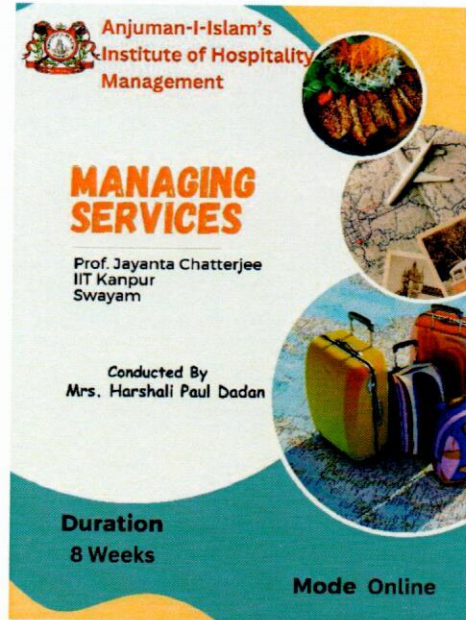


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Week 1: What is Service?/Evolving Service Markets/The Service Customers/Product Service Systems/The Service Act Seamless Service

Week 2: Service Management Elements/Core Vs. Supplementary Services/Intangibility of Services/Response to IHIP Challenges/Process & Promotion/Process Issues in Service

Week 3: Challenges of Services-1/Service Uniqueness-2/Consumer in the Services Flow-1/Service Consumer Behaviour-2/Customer Co Creation of Services-1/Customer Co Creation of Services-2

Week 4: Positioning the Service Offering/Important Vs. Determinant attributes/Positioning & Brand Creation/Positioning Maps/Designing & Managing Service as a Process/Balancing Demand & Capacity

Week 5 : Service Logistics & Service Channels/E-Services/Service Failure/Service & the New Media/Service Recovery/Integrating People & Process for Service Leadership

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Week 6 : Pricing Fundamentals/Pricing Fundamentals/Service Pricing/Service Pricing/Revenue Management/Revenue Management

Week 7 : Managing Service Productivity/Developing the Relation Focused Service Excellence/Customer as Co-creator

Week 8 : Service Entrepreneurs/Service Professionals/Service Business Models/Service Globalization/Creating Customer focused Service Leadership

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# TOURISM AND MARKETING

Dr. Tangjakhombi Akoijam  
IGNOU via Swayam and NPTEL

**CONDUCTED BY  
MR. BENNY THOMAS**

**Duration  
16 Weeks**

**MODE - ONLINE**

**Week-1**

Unit 1: Introduction to Tourism Marketing-Approaches, Relevance and Role

Unit 2: Market Segmentation

**Week-2**

Unit 3: Tourism Markets: International and Domestic

Unit 4: Marketing Research

**Week-3**

Unit 5: Competitive Analysis and Strategies

Unit 6: Forecasting for Tourism and its Products

**Week-4**

Unit 7: Role of Technology in Tourism Marketing

Unit 8: Role of Public Organisations

**Week-5**

Unit 9: Role of Local Bodies

Unit 10: Role of NGOs

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Week-6

Unit 11: Socially Responsible

Unit 12: Social Marketing

Week-7

Unit 13: Product Designing

Unit 14: Pricing Strategies

Week-8

Unit 15: Promotion Strategies

Unit 16: Distribution Strategies

Week-9

Unit 17: The Fifth P: People, Process and Physical Evidence

Unit 18: Familiarization Tours

Week-10

Unit 19: Seasonal Marketing

Unit 20: Trade Fairs and Festivals

Week-11

Unit 21: Regions, Cities, Leisure Spots

Unit 22: Events, Activities, Individuals

Week-12

Unit 23: Shopping, Education and Culture

Unit 24: Marketing Local Foods

Week-13

Unit 25: Star Category Hotels

Unit 26: Alternative Accommodation

Week-14

Unit 27: Supplementary Accommodation

Unit 28: Linkages in the Trade

Week-15

Unit 29: Airlines Marketing

Unit 30: Tourist Transport Marketing

Week-16

Unit 31: Travel Agency Marketing

Unit 32: Tour Operators Marketing

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 **ANJUMAN-I-ISLAM'S  
INSTITUTE OF HOSPITALITY  
MANAGEMENT**

**POST HARVEST OPERATIONS  
AND PROCESSING OF FRUITS,  
VEGETABLES, SPICES AND  
PLANTATION CROP PRODUCTS**

Prof. Hari Niwas Mishra  
IIT Madras and NPTEL via  
Swayam

**CONDUCTED BY**  
**Mrs. Sneha Bhandare**

**MODE  
ONLINE**

**Duration  
12 WEEKS**

Week 1: Composition, Nutritional and Health Value


Week 2: Post Harvest Handling and Storage

Week 3: Processing and Preservation Principles

Week 4: Primary Process Operation (On-Farm & In-Plant)

Week 5: Minimal Processing Strategies and Hurdle Technology

Week 6: Juices and Concentrates

  
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Week 7: Dehydrated and Snack Food Products

Week 8: Processing of Plantation Crop Products

Week 9: Spices and Condiments Technology

Week 10: Plant-Based Fermented Foods and Beverages

Week 11: Packaging and Storage

Week 12: Green Technologies, By-products & Waste Utilization (Waste to Wealth)

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# FOOD SCIENCE & PROCESSING

BY DR.V.VIJAYA LAKSHMI,  
ENGLISH AND FOREIGN  
LANGUAGES UNIVERSITY,  
HYDERABAD

CONDUCTED BY  
Ms. Aditi Desai

Mode  
Online

Duration  
12 Weeks

WEEK - 01

Concept of Nutrition and Functions of Food  
Scope of Human Nutrition  
Classification of nutrients, Recommended Dietary Allowances  
Energy in Human Nutrition

Objective

WEEK - 02

Energy requirements for humans  
Basal Metabolic Rate  
Sources and Functions of Carbohydrates, Proteins and Fats  
Digestion & absorption of carbohydrate index, glycemic load original

Objective

  
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WEEK - 03	Objective
Dietary fibre – classification and composition, nutritional significance	
Protein quality	
Digestion and absorption of lipids	
Water – Functions and Requirements	
WEEK - 04	Objective
Minerals and Trace Elements	
Fat soluble Vitamins - Physiological role, bioavailability, sources, deficiency and excess	
Water Soluble Vitamins	
Assessment of nutritional status	
WEEK - 05	Objective
Basic terminology used in food Preparation	
Methods of cooking	
Structure, Composition and Nutritive Value of Cereals, Millets and Pulses	
Structure, Composition and Nutritive Value of Fruits and Vegetables	
WEEK - 06	Objective
Nutritional aspects and use of vegetables and fruits	
Structure, Composition and Nutritive Value of Milk and Milk Products	
Structure, composition and Nutrition and Nutritive value of Nuts and oilseeds	
Structure, Composition and Nutritive value of Meat and Fish	
WEEK - 07	Objective
Meat types selection spoilage preservation cooking	
Fundamentals of Food and Nutrition – Eggs	
Structure, composition and nutritive value of Egg and Poultry	
Types of Sugars and nutritional contribution of sugars	
WEEK - 08	Objective
Uses of sugar in cookery	
Role of Spices, Herbs and condiments	
Production, processing, cost and nutritional aspects of beverages	
Food supplementation, substitution, fortification and enrichment	
WEEK - 09	Objective
Food Adulteration	
Food Standards	
Importance of sanitation and hygiene in food	
Post harvest handling, Marketing and Distribution of Foods	
WEEK - 10	Objective
Laws governing food service establishments	
Laws concerning hygiene and safety	
Menu planning, purchasing and storage of food for quantity food production	
Common nutritional problems in India	

  
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**DURATION : 12 WEEKS**

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MANAGEMENT**

**RESEARCH  
METHODOLOGY**

Prof. G.S.Bajpai  
National Law University Delhi  
and CEC via SwayaM

**CONDUCTED BY  
Dr. Stephan Almeida**

**MODE  
ONLINE**

- Week 1: Philosophy of Science (subjective versus objective, materialism versus idealism, causality, etc.)
- Week 2: Logical Reasoning (inductive logic, deductive logic, syllogistic logic)
- Week 3: History of development of science and the influence of philosophy
- Week 4: What Scientists Actually Do
- Week 5: Forming a Hypothesis
- Week 6: Techniques of Scientific Measurement
- Week 7: Testing of hypothesis
- Week 8: Methods of Theoretical Research
- Week 9: The Art of Scientific Communication
- Week 10: Presentation in Seminars and Conferences
- Week 11: Sponsored Research
- Week 12: Ethical Conduct in Science

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# 2022 – 23

Topic Name	Class	Year
Yoga and Positive Psychology for managing career and life	F.Y.BSc.(HS)	2022 - 2023
Artificial Intelligence Search Method for Problem Solving	F.Y.BSc.(HS)	2022 - 2023
Human Resource Development	F.Y.BSc.(HS)	2022 - 2023
The Science of Happiness and Wellbeing	S.Y.BSc.(HS)	2022 - 2023
Mushroom Production from NIOS	S.Y.BSc.(HS)	2022 - 2023
Uncommon Sense Teaching	S.Y.BSc.(HS)	2022 - 2023
Health Research Fundamentals	T.Y.BSc(HS)	2022 - 2023
Basics of Health Education and Education Intervention	T.Y.BSc(HS)	2022 - 2023
Entrepreneurship	T.Y.BSc(HS)	2022 - 2023

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**YOGA AND POSITIVE PSYCHOLOGY  
FOR MANAGING CAREER AND LIFE**

Prof. Ashish Pandey | IIT Bombay  
NPTEL via Swayam

Conducted By  
Ms. Kainaz Dastoor

Mode Online

Duration : 8 Weeks

**Week 1:** Positive Psychology, Yoga and Indian Psychology: Introduction and Connections

**Week 2:** Realizing Flourishing and Authentic Happiness in Career and Life

**Week 3:** Body Mind Connections for Managing Career and Life: Ayurveda and Yoga

**Week 4:** Nurturing Positive Emotions: Perspective from Positive Psychology and Indian Psychology

**Week 5:** Building Positive Relationship in Life and at Work

**Week 6:** Discovering Meaning and Purpose in Career and Life

**Week 7:** Psychotherapy in Indian Psychology and Yoga Tradition

**Week 8:** Application of the Concepts of Positive Psychology and Yoga at Workplace

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**ARTIFICIAL INTELLIGENCE  
SEARCH METHOD FOR  
PROBLEM SOLVING**

Prof. Deepak Khemani | IIT Madras  
NPTEL via Swayam

**Conducted By  
Mrs. Kranti Bhangre**

**12 weeks**

**Mode : Online**

Week 1: Introduction: Overview and Historical Perspective, Turing Test, Physical Symbol Systems and the scope of Symbolic AI, Agents

.Week 2: State Space Search: Depth First Search, Breadth First Search, DFID

Week 3: Heuristic Search: Best First Search, Hill Climbing, Beam Search

Week 4: Traveling Salesman Problem, Tabu Search, Simulated Annealing

Week 5: Population Based Search: Genetic Algorithms, Ant Colony Optimization

Week 6: Branch & Bound, Algorithm A\*, Admissibility of A\*

Week 7: Monotone Condition, IDA\*, RBFS, Pruning OPEN and CLOSED in A\*

Week 8: Problem Decomposition, Algorithm AO\*, Game Playing

Week 9: Game Playing: Algorithms Minimax, AlphaBeta, SSS\*

Week 10: Rule Based Expert Systems, Inference Engine, Rete Algorithm

Week 11: Planning: Forward/Backward Search, Goal Stack Planning, Sussman's Anomaly

Week 12: Plan Space Planning, Algorithm Graphplan

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**HUMAN RESOURCES  
DEVELOPMENT**

Prof. Kailash B L Srivastava  
IIT - Kharagpur and NPTEL via Swayam

Conducted by  
Mrs. Sneha Bhandare

<b>Mode</b>	<b>Duration</b>
<b>Online</b>	<b>12 Weeks</b>

- Week 1: Introduction to Human Resource Development: Emergent of HRD, Critical HRD roles, challenges for HRD
- Week 2: HRD in global perspective, HRD- Performance link, Strategic perspective of HRD
- Week 3: HRD Process Model: identification of HRD needs and Design and development of HRD programmes
- Week 4: HRD Process Model: Methods of Implantation, Evaluation of HRD programmes
- Week 5: Employee coaching and performance management: Coaching to improve poor performance, coaching analysis, coaching discussion, coaching skills
- Week 6: HRD interventions: Mentoring for employee development: Role of mentoring in development, understanding the role and responsibilities of mentor, mentee, implementing the mentoring process, mentoring relationship,
- Week 7: Employee counseling for HRD: Overview of counseling programmes, employee assistance programme, stress management, employee wellness and health promotion
- Week 8: Competency framework of HRD: why competency mapping? Understanding the competency mapping framework, steps in competency mapping

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Week 9: Career Planning, management, and development: Career development stages and activities, role of individual and organization in career planning, Issues in career management

Week 10: Intellectual capital (IC), its measurement and management: Components of IC, measurement models of IC, IC index and challenges for HR

Week 11: HRD, Organizational Learning, and learning organizations

Week 12: The future of HRD and HRD Ethics: Research, practice and education of HRD for innovation and talent development and management, Role of HRD in developing ethical attitude and behavior and development, Ethical problems with HRD roles

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ANJUMAN-I-ISLAM'S INSTITUTE OF  
HOSPITALITY MANAGEMENT

**THE SCIENCE OF  
HAPPINESS AND  
WELLBEING**

Prof. Priyadarshi Patnaik &  
Prof. Manas K. Mandal  
IIT Kharagpur,  
Swayam and NPTEL

Conducted By  
Mr. Benny Thomas

**Duration  
8 weeks**

**Mode  
Online**

Week 1: Operationalizing happiness: Defining happiness

Week 2: Understanding the construct of happiness: The science of happiness These five modules would introduce the key concepts that make up the science of happiness, and create the basic ground for the sessions to follow. It would also include pretests to assess current happiness and other related parameters.

Week 3: Factors influencing happiness: Biological, psychological & socio-cultural factors These modules would focus on the key components influence happiness through talks, case studies and self-learning tasks.

Week 4: Unanswered questions: What makes us happy? The modules in this week would focus on the myths as well as the simple secrets of happiness and how to make the act successful through understanding and practice. Happiness: The dynamics within: Key ingredients of happiness These modules would address the key ingredients with scientific evidence, case studies and online assignments and assessments.

Week 5: Train yourself in Happiness: Two short modules on Mindfulness These sessions would take us through the science as well as the art of mindfulness through online practice sessions and training aids. Happiness in the social context: Three modules on Emotional Intelligence. Emotions play a key role in happiness and need to be addressed in their various ways in response to people and society. Tests, assessments and training sessions to hone skills would be included.

Week 6: Happiness at work: Getting rid of daily hassles Happiness and efficiency, happiness and creativity, and various other key components like innovation and follow would be addressed in these units. Fine tuning work-life balance: Strategies to develop happiness Through units as well as assessment tools participants would be guided

  
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through techniques to hone their work-life balance – a key component of success as well as happiness.

Week 7: Becoming happier: State & trait of happiness This week would focus on sustaining and enhancing what has been learnt so far through both theoretical as well as training inputs.

Week 8: Creating happiness: Making a difference for others Happiness needs to spread.

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**ANJUMAN-I-ISLAM'S INSTITUTE OF  
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**MUSHROOM PRODUCTION**

Dr Neelima Pant  
NIOS Swayam and NPTEL

**Conducted By  
Ms. Aditi Desai**

**Duration  
24 weeks**

**Mode : Online**

Week 01 & Week 02

Introduction to mushroom

Week 03 & Week 04

Mushroom Spawn (seed) production/ procurement

Week 05 & Week 06

Cultivation of Button mushroom

Week 07 & Week 08

Cultivation of Oyster mushroom

Cultivation of Oyster mushroom

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Week 09 & Week 10

Cultivation of Paddy Straw mushroom

Week 11 & Week 12

Cultivation of Milky mushroom

Week 13 & Week 14

Cultivation of other economically important and medicinal mushroom

Week 15 & Week 16

Insect- Pests management in cultivated mushroom

Week 17 & Week 18

Disease management in cultivated mushroom

Week 19 & Week 20

Mushroom growing unit/ house

Week 21 & Week 22

Entrepreneurial skills and economics for small enterprise

Management of spent substrates and waste disposal of various mushroom

Week 23 & Week 24

Health and safety at workplace

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**ANJUMAN-I-ISLAM'S  
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**UNCOMMON SENSE  
TEACHING**

NPTL, UGC and Swayam By  
Barbara Oakley

CONDUCTED BY  
Dr. Stephan Almeida

**MODE  
ONLINE**

**8 weeks**

Week 1 & Week 2

Active Learning to all

Week 3 & Week 4

Helping the Brain Build Better Links for Learning

Week 5 & Week 6

Practice, Passion and Procrastination

Week 7 & Week 8

How Human Brains Evolved-and why this matters for you teaching

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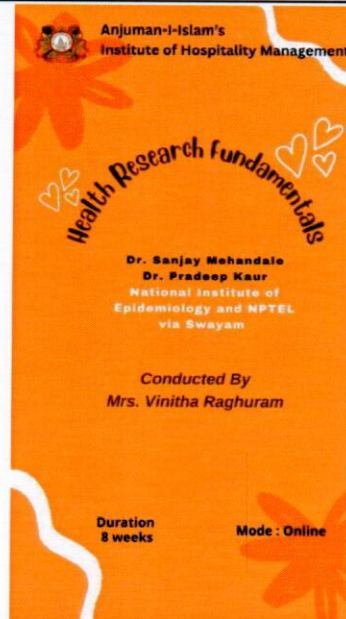


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- Week 1: Conceptualizing a research study Introduction to health research – Dr. Sanjay Mehendale Formulating research question, hypothesis and objectives – Dr. P Manickam Literature review – Dr. P Ganeshkumar
- Week 2: Epidemiological considerations in designing a research study (1/2) Measures of disease frequency - Dr. R Ramakrishnan Descriptive study designs - Dr. Prabhdeep Kaur Analytical study designs - Dr. Manoj Murhekar
- Week 3: Epidemiological considerations in designing a research study (2/2) Experimental study designs: Clinical trials - Dr. Sanjay Mehendale Validity of epidemiological studies - Dr. Tarun Bhatnagar Qualitative research methods: An overview - Dr. Tarun Bhatnagar
- Week 4: Bio-statistical considerations in designing a research study Measurement of study variables – Dr. R Ramakrishnan Sampling methods – Dr. R Ramakrishnan Calculating sample size and power – Dr. R Ramakrishnan
- Week 5: Planning a research study (1/2) Selection of study population – Dr. P Ganeshkumar Study plan and project management – Dr. Sanjay Mehendale Designing data collection tools – Dr. Tarun Bhatnagar
- Week 6: Planning a research study (2/2) Principles of data collection – Dr. Prabhdeep Kaur Data management – Dr. P Manickam Overview of data analysis - Dr. P Manickam
- Week 7: Conducting a research study Ethical framework for health research – Dr. Sanjay Mehendale Conducting clinical trials - Dr. Sanjay Mehendale
- Week 8: Writing a research protocol Preparing a concept paper for research projects – Dr. P Manickam Elements of a protocol for research studies – Dr. Tarun Bhatnagar Publication ethics – Dr. Sirshendu Chaudhuri Manuscript writing – Dr. Jayashree K Grant proposal writing – Dr. S.A. Rizwan

*(Signature)*

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**BASICS OF HEALTH  
PROMOTION AND  
EDUCATION INTERVENTION**

Prof. Arista Lahiri, Prof. Sweety Suman Jha,  
Prof. Madumita Dobe, Prof. Chandrashekhar Taklikar  
IIT Kharagpur and NPTEL via Swayam

Conducted By  
**Mr. Edricks Dmello**

12 weeks  
Mode : Online

Week 1: Concepts of health promotion including history

Week 2: Health behavior, health communication and Health Literacy

Week 3: Information Education Communication (IEC), Behavior Change Communication (BCC), and Social and Behavior Change Communication (SBCC), and their applications in different settings (including role of social determinants of health)

Week 4: Need assessment for health promotion (including health behavior models)

Week 5: Planning and implementing a HPE intervention

Week 6: Designing of messages and pretesting

Week 7: Materials and methods

Week 8: Evaluation of HPE intervention

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### ENTREPRENEURSHIP

Prof. Meeta Nihalini | IIT Madras  
NPTEL via Swayam

Conducted By  
Dr. Stephan Almeida

12 weeks Mode : Online

- Module 1: Entrepreneurial Journey
- Module 2: Entrepreneurial Discovery
- Module 3: Ideation and Prototyping
- Module 4: Testing, Validation and Commercialisation
- Module 5: Disruption as a Success Driver
- Module 6: Technological Innovation and Entrepreneurship – 1
- Module 7: Technological Innovation and Entrepreneurship – 2
- Module 8: Raising Financial Resources
- Module 9: Education and Entrepreneurship
- Module 10: Beyond Founders and Founder-Families
- Module 11: India as a Start-up Nation
- Module 12: National Entrepreneurial Culture
- Module 13: Entrepreneurial Thermodynamics
- Module 14: Entrepreneurship and Employment
- Module 15: Start-up Case Studies

  
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