

SHOOLINI UNIVERSITY

List of Open Electives for the Odd Semesters in July-Dec 2018

Minor Specializations and other Courses:

1. Management:

No	Course Code	Course Name	Faculty
	OE011	Digital Marketing	Ms. Ranjna Thakur
	OE013	Values and Ethics	Ms. Pooja Verma
	OE014	Introduction to Psychology	Ms. Prachi Kapil
	OE053	Disaster Management	Dr. Ashutosh Mohanty
	OE054	Network Marketing	Mr. Kamal Kant Vashishth

2. Law:

No	Course Code	Course Name	Faculty
	OE041	Fundamentals of Law	Ms. Anupriya Sharma
	OE050	Introduction to Taxation & GST	Ms. Varsha Patil

3. Pharma and Health Care:

No	Course Code	Course Name	Faculty
	OE010	Sex Education	Mr. Lalit/Dr. Vinod Kumar
	OE019	Food & Nutrition	Dr. Pankaj Chauhan
	OE020	Drug Abuse	Dr. Gaurav Sharma

4. Green Technology:

No	Course Code	Course Name	Faculty
	OE002	Non-conventional Energy Sources	Mr. Sushil Kumar

	OE006	Nanotechnology and Nanoscience	Dr. Mamta Shandilya
	OE021	Solar Energy	Dr. Rajesh Sharma
	OE033	Green Chemistry	Mr. Raj Kumar

5. Computer Science:

No	Course Code	Course Name	Faculty
	OE029	Gaming Development Fundamentals	Ms. Bharti Sharma
	OE055	Ethical Hacking	Dr. Nagesh Sharma

6. Quality:

No	Course Code	Course Name	Faculty
	OE027	Total Quality Management	Mr. Adit Rana
	OE049	Robotics & Automation	Mr. Sashank Thapa

7. Life Sciences:

No	Course Code	Course Name	Faculty
	OE005	Himalayan Biodiversity	Dr. Mamta Sharma
	OE009	Biology of Human Body	Ms. Hemlata Kaurav

8. Yoga:

No	Course Code	Course Name	Faculty
	OE017	Spirituality and Meditation	Dr. Supriya Srivastava
	OE052	Yoga in Daily Life	Dr. Subodh Saurabh Singh

Courses without specializations:

No	Course Code	Course Name	Faculty
	OE003	History and Introduction to Automobiles	Dr. Abhilash Pathania
	OE016	Photography and Photoshop	Mr. Amar Rao

	OE036	Introductory Chinese Language	Ms. Rosey Dhanta
	OE037	Industrial Engineering	Mr. Nitin Kumar
	OE038	Grooming & Hospitality Skills	Mr. Pratip Mazumdar
	OE039	Communicative English	Mr. Neeraj Pizar
	OE047	Introduction to Music	Ms. Gayatri Seth
	OE051	Introduction to World Cuisines	Mr. Karan Berry
	OE056	Prism of Perspectives- Looking at Literature	Ms. Neelkamal Puri

Total Number of Open Electives = 31

Course Name : **Digital Marketing**

Course Code : **OE011**

Course Instructor : **Ranjna Thakur**



Hours: 3+0+0

Credits: 3

Course Description:

The course on digital marketing is intended to develop skills in online marketing. The course provides knowledge on aspects of various online platforms and introduces learners to key concepts of website development, SEO, analytics, content marketing, running a social media campaign and online public relations. The course will give insight into practical features through hands on experience and helping to comprehend how to design, develop and implement strategy for digital marketing.

Course Content:

Unit-A: Digital marketing strategy

Evolution of digital marketing

Technology behind digital marketing

Why you need digital marketing strategy

Your business & digital marketing

Understanding digital consumer

Unit-B: Effective Website & Search

Building an effective website

Choosing domain name

Hosting website

Arranging information & effective web content

Search engines & SEO

Unit-C: Analytics

Measuring digital marketing success

How information is measured

Measuring what is important

Testing, investing, tweaking & reinvesting

Action stations

Unit-D: Art of email marketing, social media & online customer engagement

What is email marketing

Planning your campaign

Forms of social media

Rules of engagement

Online PR & reputation management

Course Name : Value and Ethics

Course Code : OE013

Course Instructor : Ms. Pooja Verma



Hours: 3+0+0

Credits: 3

Course Description:

This course is a foundation course designed to the philosophical study of morality, including the theory of right and wrong behavior, the theory of value (goodness and badness), and the theory of virtue and vice. This course is conceived primarily as an introduction to major ethical theories and ideas although it provides some guidelines about the main issues of applied Ethics as well. The course will involve the use of examples from Indian culture and history to demonstrate how our values and ethos are used in business and at work place.

Course Content:

Unit-A: Values

Meaning, Importance and nature of values, Formation of values, Types of values.

Implications for value based living, Values for Indian Managers, Universal values.

Unit-B: Ethics and Indian Ethos

Meaning, Principles and types of ethics, Ethical Dilemma and its resolution.

Indian Ethos: Need and features, Indian work ethos. Work ethics.

Unit-C: Application of Values and Ethics

Different laws of living an effective life.

Personality attributes based on three gunas (Sattvic, Rajasic and Tamasic).

Unit-D: Learned life lessons

Life lessons from Bhagvat Gita, Life Lessons from Ramayana, Life lessons from Mahabharat and Life lessons from Buddhism

Course Name : **Introduction to Psychology**

Course Code : **OE014**

Course Instructor : **Ms. Prachi Kapil**



Hours: 3+0+0

Credits: 3

Course Description: The course is a basic course in Psychology which will acquaint the students with the foundation and ideology of the subject. This course aims at helping the students to understand the principles and historical roots of modern scientific Psychology, basic concepts of Organizational Psychology, an insight into the nature, symptoms, and treatment of childhood disorders and the fundamental skills of counseling. The course will involve case studies and role plays to demonstrate the practical aspects of the subject.

Course Content:

Unit-A: Foundations of Psychology

Perception, Attention, Depth perceptions and Illusions

Learning and Motivation

Personality and self

Intelligence

Unit-B: Industrial/Organizational Psychology

Introduction and issues in I/O Psychology

Work related attitudes and Work Motivation

Positive Organizational Behavior

Unit-C: Child and Adolescent Development

Periods of Development

Prenatal development, birth and Infancy, Early and Middle Childhood, Adolescence

Domains of Development

Unit-D: Counseling Psychology

Definition and nature

Counseling as a profession

Counseling process

Counseling applications

Course Name : Disaster Management

Course Code : OE053

Course Instructor : Dr.Ashutosh Mohanti



Hours: 3+0+0

Credits :3

Course Objective:

1. The Programme has been framed with an intention to provide a general concept in the dimensions of disasters caused by nature beyond human control as well as the disasters and environmental hazards induced by human activities with emphasis on Natural disaster, Man-made disaster, Preparedness, Response, Rehabilitation and Recovery.
2. It is innovative, skill and employment oriented to attract bright students to the discipline of Disaster Management. Thus, ensuring University – Industry interface in Skill-based education.

Block – I: Introduction

Unit - 1 Hazard, Risk, Vulnerability, Disaster Unit - 2 Meaning, Nature, Importance, Dimensions & Scope of Disaster Management Unit - 3 Disaster Management Cycle

Block – II: Natural Disasters and Types of Natural Disaster

Unit - 1 Natural Disasters- Meaning and nature of natural disasters, their types and effects ; Hydrological Disasters - Flood, Flash flood, Drought, cloud burst ; Geological Disasters- Earthquakes, Tsunamis, Landslides, Avalanches, Volcanic eruptions, Mudflow ,Unit - 2 Wind related- Cyclone, Storm, Storm surge, Tidal waves, Heat and cold Waves Unit - 3 Climatic Change Unit - 3 Global warming Unit - 4 Sea Level rise Unit - 5 Ozone Depletion

Block – III: Man-made Disasters and types of man-made Disasters

Unit - 1 CBRN – Chemical disasters, biological disasters, radiological disasters, nuclear disasters Fire – building fire, coal fire, forest fire, Oil fire , Accidents- road accidents, rail accidents, air accidents, sea accidents ; Unit - 2 Pollution - air pollution, water pollution Unit - 3 Deforestation, Industrial waste

Block – IV: Disaster Determinants

Unit 4: Disaster Determinants, Factors affecting damage – types, scale population, social status, habitation pattern, physiology and climate, Factors affecting mitigation measures, prediction, preparation, communication, area and accessibility, population, physiology and climate.

Block –V: Climate Variability & Disaster Risk Management (Interrelationship between disaster and development & Climate Change impact on Sustainable Development)

Potential impacts of climate change on Environment and Agriculture; Vulnerability of Urban hazard and Risk assessment– strategies for reduction: Disaster prevention & preparedness Drought;

Mitigation; for climate disasters; Mitigation & preparedness strategy for agriculture, Examples; Farmers' Adaptation to climate change on agriculture.

Course Name : **Network Marketing**
Course Code : **OE054**
Course Instructor : **Kamal Kant Vashisth**



Hours: 3+0+0

Credit: 3

Course Description:

The course consists of providing detailed insights into the evolution, theory, perception, beliefs, opportunities, threats and application of the network marketing business model that has started to gain tremendous growth and popularity worldwide in the last couple of decades. Students will learn the basics of network marketing like list building, prospecting, showing the plan, follow up, inviting etc.

They will also understand the various pros and cons associated with the industry and should be able to make a SWOT analysis of the same. A step by step guide aimed at getting the students familiar with the practical aspect of the lesser known but vastly growing entrepreneurial field of multi level marketing alias network marketing.

Course Name : Fundamentals of Law

Course Code : OE041

Course Instructor : Ms. Anupriya Thakur



Hours: 3+0+0

Credits: 3

Course Description:

This course provides students with an overview of the Indian legal system. It explores the basic concepts of law in society including the different sources of law followed by specific lectures on various branches of law. This course surveys our constitutional, criminal and contractual law and teaches the beginnings of legal analysis through case briefing, statutory construction and application of law to fact situations.

Course Content:

Unit-A:

Definition of Law, Nature or feature of law, Kinds of law, Classification of Law, Source of Law- Custom, Precedent, Legislation, Some other source of law, Law & morals,

Unit-B:

Types of legal sanctions, Theories of punishment. Making of Indian Constitution, Nature and special features of the constitution, Preamble, Citizenship, Fundamental Rights.

Unit-C:

Directive Principles of State Policy & Fundamental Duties, the President and the Vice President, the Union Judiciary, Parliament, Emergency.

Unit-D:

Contract, Agreement, Essential elements of a contract, offer and acceptance, capacity of parties, free consent, Valid contract, Void and voidable agreements Illegal contracts- there distinction, Consideration, legality of object and consideration.

Course Name : Introduction to Taxation and GST

Course Code : OE050

Course Instructor : Ms. Varsha Patil



Hours: 3+-0+0

Credits: 3

Course Description:

The course is designed to provide a brief introduction of taxation system in India and what was the reason why the tax was implemented. The course structure is designed in such a way that the student will be introduced to the types of taxes and their implementation on the citizen of India. The course is divided into four parts Introductions discussing the history and reasons of the implementation. The second part is about the course takes the students into the direct taxation and its features, deductions and assumptions. The next part is all about the Indirect taxation where the students will study the factors which made the implementation of GST ACT. Its features and aspects. In Whole the course is designed in order to introduce the taxation system to the budding entrepreneurs and working force in making.

Course Content:

Unit – I: INTRODUCTION

History of taxation, Reasons why the taxes were implemented.

Types of taxes and its effects on the citizens.

Taxation authorities

Unit – II: Direct Tax

Introduction to direct tax, Residential status

Expectations under sec 10

Types of incomes under direct tax

Deductions under Income tax in India Sec 80

Unit – III: GST

Introduction to GST, Journey of GST, Types of GST

GST Framework and working of the GST.

Meaning of supply and its working under GST

Composition and Mixed Supply

Job Work

Unit – IV: GST PRACTICAL ASPECTS

Maintenance of Accounts,

ITC: Importance and Usage

Audit, Inspection, Search and Seizure

Different rates of goods and services

Assessment

Course Name : Sex Education
Course Code : OE010
Course Instructor : Mr. Lalit / Dr. Vinod Kumar



Hours:3+0+0

Credits: 3

Course Description:

Sex education is instruction on issues relating to human sexuality, including human sexual anatomy, sexual reproduction, sexual activity, reproductive health, emotional relations, reproductive rights and responsibilities, sexual abstinence, and birth control. Despite early inroads of school-based sex education, most of the information on sexual matters was obtained informally from friends and the media, and much of this information was deficient or dubious value, especially during the period following puberty when curiosity about sexual matters was the most acute. The outbreak of AIDS and other sexually transmitted disease have given a new sense of urgency to sex education.

Course Content: Unit-A:

Introduction, Need for Sex education, Shape of Sex by Culture from tribal to industrial societies, sex and aging, sex and power, sex and family structure, Sex and religion, rape, gender identity, male and female menopause, and puberty rites.

Unit-B:

History of the rational and systematic investigation of sexual problem, Physical and psychological aspects of adolescent sexual development and activity, Sex disabilities, challenges and impact of disability on family, Relationships, Lifestyle and sexuality.

Unit-C:

Sex Anatomy & Physiology, Male & female genital organs, Sexual dysfunction, Sexually transmitted diseases: HIV/AIDS, Syphilis, Gonorrhoea, Genital Herpes, Sexual behavior & variation, Adolescence, Abstinence.

Unit-D:

Sexual methods, Birth control, Family planning, Contraception, methods for contraception,

Abortion, Male and Female homosexuality and Bisexuality, Gay, Lesbian, Judiciary & Policy for sex, Power, Sex in Geriatrics & Children, Sexual abuse (molestation) in child and adult.

Course Name : Food & Nutrition
Course Code : OE019
Course Instructor : Dr. Pankaj Chauhan



Hours: 3+0+0

Credits: 3

Course Description:

This course will review major concepts related to food and nutrition. This course will enable the students to understand various components of food, their nutritional value and metabolism inside body. This is basic course to study the biochemical reaction involved in digestion and metabolism of food in body. The last section of this course deals with the nutritional aspects of vitamins and minerals.

Course Content:

Unit-A: Food and nutrients

General introduction to food and nutrients

Functions and nutritive value of foods

Energy value of foods

Protein quality

Dietary allowances and standards for different age groups.

Unit-B: Carbohydrates

General introduction to carbohydrates

Classification of carbohydrates

Digestion of carbohydrates

Dietary importance of carbohydrates

Dietary fiber and various health problems.

Unit-C: Proteins and Fats

General introduction to proteins and fats

Classification of proteins and fats

Digestion of proteins and fats

Dietary importance of proteins and fats

Unit-D: Vitamins and Minerals

General introduction to vitamins and minerals

Sources, requirements and functions of vitamins

Sources, requirements and functions of micro and macro minerals

Course Name : Drug Abuse
Course Code : OE020
Course Instructor : Dr. Gaurav Sharma



Hours: 3+0+0

Credits: 3

Course Description:

The course is divided in four parts including drug abuse and drug addiction, alcohol abuse, substance of drug abuse, effect on the body, substance overdose, prevention of substance abuse, prevention at home, work place, organizations working on drug abuse, treatment and medication.

Course Content:

Unit A

Introduction to drug abuse, drug addiction, drug dependence, alcohol abuse, why do human abuse substance, social consequences, Why do some people become addicted to drugs, while others do not?

Unit B

Drugs of substance abuse, Classification of substance abuse, their effects on the body and substance overdose, performance enhancing drugs

Unit C

Prevention in school, work place, home, vulnerable population, protection against drug abuse, drug abuse laws, perception towards treatment, consent for treatment, relapse recovery training and self-help program, mental health assessment and diagnosis, organizations working on drug abuse

Unit D

Drug addiction treatment, , effectiveness and duration of drug addiction treatment, treatment categories, scientific approaches and drugs used in drug addiction treatment, modified release formulations, depot medications, immunotherapy, advantages and disadvantages, role of justice system, treatment laws, ethical issues, costs and benefits

Course Name : Non-Conventional Energy Sources

Course Code : OE002

Course Instructor : Mr. Sushil Kumar



Hours:3+0+0

Credits: 3

Course Description:

This course is designed to introduce the students to non-conventional energy sources and focus on the application potential of commercially viable renewable energy sources such as solar, wind, bio and hydro energy. This course will involve the various systems and sources for the generation of these renewable energies.

Course Contents:

Unit-A:

Introduction of renewable energy resources

Trends of energy consumption sources

Availability and limitations of fossil fuels

Solar radiation characteristics

Solar collectors, Design and study of solar collectors

Efficiency, selective paints and surfaces for solar collector

Use of solar energy for heating of air and water for buildings

Solar ponds, Solar pumps, Solar cookers

Direct conversion of solar energy into electricity

Uses and limitations of solar energy

Unit-B:

Introduction to bio-conversion

Methods for generating of bio-gas

Design, material selection and feed for digesters

Paralytic gasification

Hydrogen production

Algae production and its uses

Unit-C:

Geothermal Energy- Introduction, availability of sites, Potential and limitations

Systems for converting geothermal energy

Introduction to tidal energy

Availability of sites for tidal energy

Potential of tidal energy

Limitations of tidal energy

Systems for converting tidal energy

Introduction to ocean-thermal energy

Principles of utilization of ocean-thermal energy

Limitations of ocean-thermal energy

Systems for converting ocean-thermal energy

Unit-D:

Basic principles of wind energy conversion

Basics of Fluidized bed combustion

Fluidized bed combustion

Hydrogen energy.

Waste Heat Utilization

Course Name : Nanotechnology and Nanoscience

Course Code : OE006

Course Instructor : Dr. Mamta Shandilya



Hours:3+0+0

Credits: 3

Course Description: This fundamental course is designed to give the student an insight into the basics of nanotechnology, gives an overview of the history of nanotechnology and applications of nanomaterials. An emphasis will be placed on the ethics, societal impacts, environmental effects and the future of nanotechnology.

Course Content:

Unit-A: Fundamentals and Overview of Nanotechnology

Nanoscale Science; What is Nanotechnology? Some Key terms- nanometer, atom, molecule, atomic structure, Materials Science; History of Nanotechnology; Nanorevolution of the XX century; Advantages of Nanotechnology; Nanotechnology in Marketplace; Approaches of making nanomaterials.

Unit-B: Different Classes of Nanomaterials

Introduction to nanomaterials; Properties of materials & nanomaterials; role of size in nanomaterials; Metal and Semiconductor Nanomaterials; Quantum Dots; Wells and Wires; Molecule to bulk transitions; Bucky balls and Carbon Nanotubes.

Unit-C: Applications & Future of Nanotechnology

Applications in displays devices, for data storage; biosensors; Nano biotechnology; Nano medicine: Materials for Use in Diagnostic and Therapeutic Applications; Nanotechnology for Defence Applications.

Unit-D: Nanotechnology and Environment

Impact of Nanotechnology on Environment, Society and Industry; Challenges in Nanotechnology; Toxic affect and Future scenario; Safety measures; Green Nano Science.

Course Name : Solar Energy
Course Code : OE021
Course Coordinator : Dr. Rajesh Sharma



Hours: 3+0+0

Credits: 3

Course Description:

The course would be an exhaustive in solar energy with focus on solar systems based on thermal and photovoltaic technologies. Energy in buildings and solar passive buildings would be discussed by focusing on energy auditing and energy ratings.

Course Contents:

Unit A: Basic Concepts

- Introduction
- Solar system
- Availability and estimation of solar radiation (direct and diffuse)
- Extra terrestrial radiation
- Spectral distribution
- Solar constant
- Solar radiations on earth
- Measurement of solar radiations-phyrheliometers and other devices
- Solar radiation geometry
- Flux on a plane surface
- Latitude, declination angle, surface azimuth angle, hour angle, zenith angle

Unit B: Solar Photovoltaics and Solar Thermals

- Photovoltaic effect
- Efficiency of solar cells
- Semiconductor materials for solar cells
- Different types of photovoltaic cells
- PV cell characteristics
- Effect of variation of temperature, fabrication and costs of PV cell

- Battery storage: Lead and Nickle cadmium batteries, solar chargeable battery
- Autonomous PV system
- Grid linked PV systems
- Remote application of photovoltaics system sizing, system performance, economics and future prospects
- Principles of applied heat transfer
- Solar thermal collectors
- Glazing, evacuation, selective surfaces, concentrators
- Water and space heating
- Solar ponds
- Solar pumps
- Dryers
- Distillation
- Solar cooker
- Solar refrigeration
- Solar lighting systems

Unit C: Energy Passive Buildings

- Need of energy in buildings
- Assessment of need of energy in building
- Aspects influencing the energy need in building
- Role of building design and building services to evaluate the energy performance in buildings
- Study of climate and its influence in building design for energy requirement
- Environmental Science of buildings
- Study of thermal environment and visual environment
- Heat gain and heat loss phenomenon of buildings
- Role of building enclosures
- Openings and materials in thermal environment
- Energy efficient light design of buildings
- Passive heating of buildings-Methods and techniques of heating buildings naturally such as conductive heat gain

- Trombe wall, mass wall
- Sun spaces
- Pre heating of supply air etc.
- Passive cooling of buildings-Methods and techniques of cooling building naturally such as conductive heat loss methods
- Convective heat loss methods
- Cooling by radiation of heat and evaporative cooling method

Unit D: Energy Audit and Energy Rating

- Energy survey of buildings
- Energy Audit of buildings
- Calculation of energy inputs in buildings
- Energy Audit reports of buildings
- Energy rating of buildings

Course Name : Green Chemistry

Course Code : OE033

Course Instructor : Mr.Raj Kumar



Hours: 3+0+0

Credits: 3

Course Description:

This course is foundation of understanding the meaning, impact and development of Green Chemistry, twelve principle of green chemistry. Problem of water pollution, major source of water pollution. Environmental consequences of water pollution. Advanced oxidation process for wastewater treatment: Meaning and classification of advanced oxidation process (AOP). Biological, chemical, physical, membrane process for waste water treatment. Merits and demerits of non-photochemical process. Homogeneous photocatalysis: Meaning of homogeneous photo- catalysis, Evaluation of homogenous photo catalysis, Removal of pollutant from water, Merits and demerits of Homogenous catalysis. Heterogeneous photo-catalysis: Basic principles and Parameters of semiconductor assisted photo catalysis. Use of some active metal oxides for degradation of some aqueous pollutants. Future prospective of heterogeneous photo-catalysis.

Course Content:

Unit-A: Introducing Green Chemistry

Meaning, impact and development of Green Chemistry. Twelve principle of green chemistry.

Problem of water pollution, Major source of water pollution. Environmental consequences of water pollution.

Unit-B: Water Purification

Advanced oxidation process for wastewater treatment: Meaning and classification of advanced oxidation process (AOP). Biological, chemical, physical, membrane process for waste water treatment. Merits and demerits of non-photochemical process.

Unit-C: Homogeneous Photo-catalysis

Meaning of homogeneous photo-catalysis, Evaluation of homogenous photo catalysis, Removal of pollutant from water, Merits and demerits of Homogenous catalysis.

Unit-D: Heterogeneous Photo-catalysis

Basic principles and Parameters of semiconductor assisted photo catalysis. Use of some active metal oxides for degradation of some aqueous pollutants. Future prospective of heterogeneous photo-catalysis

Course Name : **Gaming Development Fundamentals**

Course Code : **OE029**

Course Instructor : **Ms. Bharti Sharma**



Hours: 3+0+0

Credits: 3

Course Description:

The Microsoft Technology Associate (MTA) is a new Microsoft Certification program that validates the foundational knowledge needed to begin building a career using Microsoft technologies. Successful candidates earn MTA certificates as well as access to benefits on the Microsoft Certification member site.

This program:

- Is targeted primarily at students who attend high schools and two-year colleges.
- Provides an appropriate entry point to a future career in technology.
- Assumes some hands-on experience or training but does not assume on-the-job experience.

This exam is designed to provide candidates with an assessment of their knowledge of fundamental gaming development concepts. It can also serve as a steppingstone to the Microsoft Certified

Technology Specialist exams.

Prerequisites:

Course Content:

- Understand Game Design
- Understand Hardware
- Understand Graphics
- Understand Animation

Course Curriculum Unit-A:

Understand Game Design

- Differentiate among game types. -This objective may include but is not limited to: console, Xbox, MMORPG, mobile games, PC games
- Differentiate among game genres. -This objective may include but is not limited to: fantasy, sports, role playing, card, board, First Person Shooter
- Understand player motivation. -This objective may include but is not limited to: quests, tasks, activities, how to win, game goals
- Design the user interface. -This objective may include but is not limited to: UI layout and concepts, asset management, game state, gamer services

- Understand components. -This objective may include but is not limited to: differentiate between tool creation and game programming, understand artificial intelligence (AI)
- Capture user data. -This objective may include but is not limited to: save and restore user data, save and restore game state, handle input states, store data, manage game state\
- Work with XNA. -This objective may include but is not limited to: understanding the architecture of an XNA game; using built-in XNA tools; work with XNA hierarchy (initialization, update loop, drawing)

Unit-B:

Understand Hardware

- Choose an input device. - This objective may include but is not limited to: mouse, keyboard, Kinect, console, mobile
- Choose an output device -This objective may include but is not limited to: screen, television, hand-held devices, sound (local speakers, surround sound systems)
- Work with the network. -This objective may include but is not limited to: set up Web services, TCP, UDP, basic management; plan for areas without access to Internet
- Manage game performance. -This objective may include but is not limited to: CPU vs. GPU, reach vs. Hi Def, graphics networking performance
- Understand the different game platforms. This objective may include but is not limited to: console, PC, mobile; compare memory management

Unit-C:

Understand Graphics

- Understand rendering engines. - This objective may include but is not limited to: DirectX, video and audio compression, display initialization, resolution (full screen, Vsync, and windowed)
- Plan for game state. - This objective may include but is not limited to: scene hierarchy engine, game time to handle frame rate variations, understanding games' main loop (input/update/render), graphics pipeline; understanding the flow of a game, loading, menus, save-load, configuring options (video, audio, keyboard)
- Draw objects. - This objective may include but is not limited to: using bitmaps, sprites, vector graphics, lighting, blending, text, textures, 3D geometry, parallax mapping, and different shaders; 2-D vs. 3-D; creating a sprite font

Unit-D:

Understand Animation

- Animate basic characters. -This objective may include but is not limited to: movement, lighting, projections, frames per second (FPS), shaders, apply filters to textures, sprite animation, generate objects from user indexed primitives, matrices, understanding keyframes, motion between key frames.
- Transform objects. - This objective may include but is not limited to: forming, deforming, moving, point distances, planes, interpolation; frames per second (FPS); translation, scale, rotation

- Work with collisions. This objective may include but is not limited to: per pixel and rectangle collisions, collision detection, collision response, fundamentals of physics simulation.

Course Name : Ethical Hacking
Course Code : OE055
Course Instructor : Dr. Nagesh Sharma



Hours: 3+0+0

Credits: 3

Course Description

This course will cover the techniques used by a computer hacker and penetration testers in order to better defend against intrusions and security violations in live systems. It will include low-level kernel and hardware topics, techniques for web applications, exploit techniques, rootkits and some audit techniques used in digital forensics.

Learning outcomes

Students will learn the underlying principles and techniques associated with the cyber-security practice known as penetration testing or ethical hacking. For every offensive penetration technique the students will learn the corresponding remedial technique. By this, the students will develop a practical understanding of the current cyber-security issues and the ways how the errors made by users, administrators, or programmers can lead to exploitable insecurities.

Course Name : Total Quality Management

Course Code : OE027

Course Instructor : Mr. Adit Rana



Hours: 3+0+0

Credits: 3

Course Description:

Total Quality Management (TQM) is a scientific approach for management and employees to be involved in the continuous improvement of processes underlying the production of goods and services. This approach is fundamental in business, industry, evidence-based medicine and many other disciplines. Students who complete this course will be able to management techniques, choose appropriate statistical techniques for improving processes and write reports to management describing processes and recommending ways to improve them. People need to be aware of what they can and can't do with data. Management is limited to what it knows and so too is the organization. Awareness of statistical techniques and their use is paramount to collecting information and making decisions. Quantitative skills are necessary in order to make decisions - else you are just another person with an opinion.

Course Content:

Unit- A Introduction:

Definition of Quality, Importance of quality, Three levels of quality, Customer driven definition of quality, Evolution of Quality management, Dimensions of Quality, Quality Planning, Basic concepts of Total Quality Management, Principles of TQM, Overview of TQM, Dimensions of customer satisfaction, Major axioms of TQM, The 7 's' approach to TQM culture, Barriers to TQM Implementation

Unit- B

Principles and Philosophies of Quality Management:

The Deming Philosophy, The Deming chain reaction, Deming's 14 points for management, The Juran Philosophy, The Crosby Philosophy, Concept of cost of Quality, Quality habit, Comparison of Deming Philosophy with Juran Philosophy, Continuous Process Improvement PDSA Cycle, 5S, Kaizen, Supplier Partnership - Partnering and sourcing, Supplier Selection, Supplier Rating, Relationship Development, Performance Measures - Basic Concepts, Strategy, Performance Measure

Unit – C

Statistical Process Control (SPC):

Meaning of Statistical Process Control (SPC), Seven tools of quality, Statistical Fundamentals

-Measures of central Tendency and Dispersion, Population and Sample, Normal Curve, Control Charts for variables and attributes, Process capability, Concept of six sigma, New seven Management tools

Unit – D

TQM Tools and Quality Systems:

Benchmarking - Reasons to Benchmark, Benchmarking Process, Quality Function Deployment (QFD) - House of Quality, QFD Process, Benefits, Poka-Yoke, Need for ISO 9000 and Other Quality Systems, ISO 9000:2000 Quality System - Elements, Implementation of Quality System, Documentation, Quality Auditing, TS 16949, ISO 14000 - Concept, Requirements and Benefits- Requirements and benefits, Case studies of TQM implementation in manufacturing and service sectors including IT

Course Name : Robotics & Automation

Course Code : OE049

Course Instructor : Mr. Shashank Thapa



Hours: 3+0+0

Credits: 3

Course Description: To introduce the students to the standard terminologies, applications, design specifications, and mechanical design of industrial robotic manipulators. Students are capable of understanding the real physics behind the reprogrammable multifunctional manipulator and also the applications of robotics in different sections of society.

Course Content:

Unit-A:

Introduction: - History of Robots, Robots subsystem and its classifications. Actuators and Sensors.

Unit-B:

Transformation: Robot Architecture, pose of a rigid body, coordinates Transformation, DH parameters

Kinematics: Forward position analysis and Inverse Position analysis.

Unit C:

Automation: Concept and Scope of automation, socio economic impact of automation, Type of automation, low cost automation. Fluid power

Unit D:

Robot Programming, Machine vision, Teach Pendant, Industrial application of robots, Robot performance parameters.

Course Name : **Himalayan Biodiversity**

Course Code : **OE005**

Course Instructor : **Dr. Mamta Sharma**



Hours: 3+0+0

Credits: 3

Course Description:

This course is a foundation course designed to introduce the students to the conservation and sustainability of biological diversity of Himalayas. Himalayan region is highly vulnerable to earthquakes and water-induced disasters. This fragile mountain region is under tremendous stress from climate change and land-use degradation that has accelerated flash floods, river-line floods, erosion, and wet mass movements during the monsoon period and drought in the non-monsoon period leads to loss of unique biodiversity of Himalayas. The main purpose and objective of this course is to connect students with Himalayas, its geology, biodiversity, conservation, sustainability and practical cases on risk, resilience, and risk reduction from the Himalayan region under a common analytical umbrella.

Course Content:

Unit-A: An overview of Himalayas

History of Himalayas

Formation of Himalayas

Geology and major structures of Himalaya

Ecology, Physiography (Peaks, mountains, glaciers), Hydrology (Rivers, lakes) of Himalaya

Soil and climate of Himalaya

Unit-B: Biological diversity in the Himalayas

Animals- birds, mammals, reptiles, amphibians, invertebrates

Plants- trees, shrubs and herbs, medicinal plants, lichens

Plants of alpine zone

Rare, threatened and endangered biodiversity

Unit-C: Biodiversity conservation

Threats to biodiversity

Ex-situ conservation

In-situ conservation

Community based conservation

Laws, acts and policies for biodiversity conservation

Protection of traditional knowledge

Biological resources

Intellectual Property Rights

Unit-D: Mountain hazards and disaster risk reduction

Overview of mountain hazards issues

Earth quakes, landslides, cloud burst, forest fire, flood and flash flood in mountains

Impact on Himalayan biodiversity

Climate change and disasters

Human impacts

Mitigation of climatic and human induced disaster risks

Course Name : Biology of Human Body

Course Code : OE009

Course Instructor : Ms. Hemlata Kaurav



Hours: 3+0+0

Credits: 3

Course Description:

The course consists of knowledge about body organization, mechanism and regulation of homeostasis and composition of body. It also includes basics of cellular anatomy & physiology, cellular organelles responsible for various body functions. The physiological and philosophical concepts of body constitution, functioning and requirements are also covered. The neuronal signaling responsible for all voluntary and non-voluntary controls along with immune functions are also discussed.

Course Content:

Unit-A:

Body organization, Homeostasis, body fluids and cavities, Inorganic & organic composition, Cellular anatomy & physiology, cell membrane, sub-cellular organelles, structure and function of tissues, structure of skin, Gene “symbol of life”, RNA, DNA and Genome, Function and physiology of Blood & Lymph, blood coagulation, blood groups, Rh factor.

Unit-B:

Neuron & neuronal signaling, Neurotransmitters, Nerve impulse generation and transmission. Immuno-pathophysiology & Inflammation, Immunity, T, B, NK cells, antigen & antibodies, Cytokines, hypersensitivity reactions, Types and processes of inflammation.

Unit-C:

Concept of health and disease, Classification of food requirements balanced diet, nutritional deficiency disorders, First Aid;

Introduction and features of body systems-Nervous system: Brain & spinal cord;

Cardiovascular System: Heart, cardio-pulmonary circulation **Unit-D: Introduction and features of body systems Skeletal system:** Biology of Bone, Bone remodeling.

Respiratory System: Lung, Trachea, Respiration

Renal System: Kidney and urinary tracts, Urine formation.

Digestive System: Gastro-intestinal tract, Saliva, Gastric juices, Liver and Gall bladder.

Sense organs: Eye, Ear, Nose and Tongue.

Endocrine System: Hormones

Course Name : **Spirituality and Meditation**

Course Code : **OE017**

Course Instructors : **Ms. Supriya Srivastava**



Hours: 3+0+0

Credits: 3

Course Description:

The age old adage “A healthy mind resides in a healthy body” where health has both physical and mental connotations, is eternally pertinent irrespective of olden or modern days. The present course is foundation course that has been designed to provide the basic knowledge of spirituality, yoga and meditation to students. The course attempts to open the thought windows towards self- actualization, i.e., basic purpose of life. It prepares students for the integration of their physical, mental and spiritual faculties so that they become physically and mentally healthier, more responsible and more active contributors to the society. The course more specifically teaches students how to achieve and maintain proper balance of mind, body and soul.

For the achievement of goals of life of students, the teachings on Karma Yoga, Bhakti Yoga, Raja Yoga and Kriya Yoga will be imparted through simple and lucid approaches on a conducive platform.

Course Content:

Unit-A: Life and Spirituality- Origin and Evolution

Origin of life, evolution, ascent and descent of man

Concept of Yugas, geological ages and cosmic cycles

Indian subcontinent- A home of spirituality

The Aryans-The originators of Vedas and Upnishads

Classification and different types of Yoga

Lord Krishna, Patanjali- The masters of Yoga

Case studies on miracles and its laws

Unit-B: Mind-Body Alignment

Pranayam- A key to divine consciousness and physical fitness

Concept of Body, Mind and Soul

Human Body- A biological lab for consciousness

Third Eye- Kuthasthya Chaitenya

Comparison of Chakras with medical plexuses

Unit-C: Soul Consciousness

Abode of Soul- Physical, Astral and Causal

Different forms of Microcosm and Macrocosm

Soul re-incarnation- Transmigration; Life after death

Mind- Consciousness, sub-consciousness, super-consciousness and cosmic consciousness

Unit-D: Forms of Yoga

Physical

Pranaya

Karm Yoga

Bhakti Yoga

Transcendental Yoga- Raj Yoga, Kriya Yoga

Healing through meditation

Course Name : Yoga in Daily Life
Course Code : OE052
Course Instructors : Mr. Subodh Saurabh Singh



Hours: 3+0+0

Credits: 3

Many beginning yoga studies and some long time practitioners are familiar with the physical posture and have experienced some of the deep effects of Yoga but don't really know how to move more fully into the Yoga life-style. In this specially designed course, the teacher will explore a wide range of ways to integrate benefits of Yoga into every aspect of one's life. In a series of lectures, the participants will be exposed to ways to learn the myriad joys of yoga. The course offers the promise of Hatha Yoga exercises for optimum health and how the Yoga presents Holistic Perspective. It will involve the practice of necessary tools to acquire a Happy, Holi and Healthy life following the laws of nature.

Learning Outcome

1. The students will be highlighted on the correct alignment of the body with respect to the health of the spine and ideal body postures in day to day life.
2. The importance of the total health (Physical, Mental and Spiritual etc.) by cultivating Daily regimen, Night regimen and Seasonal regimen will be brought into clear picture.
3. The art of relaxing body and mind will be practiced regarding to enhance the energy level and to boost the immune system.
4. It will highlight the yoga approach to conscious diet and nutrition.
5. The course will introduce different ways how meditation acts as an antidote to stress and as a path of mindfulness.
6. It will bring the emphasis on the practice of Karma Yoga.
7. The path of rituals and creativity will be explored to integrate the different aspect of our beliefs.
8. The importance of ethics, morals and right attitudes to combat the self-created miseries.
9. The course will advocate the Yoga of love, devotion in personal relationship.
10. It will inculcate the conscious patterns of different breathing aspects to deal with the psychosomatic disorders.

Course Name : **History and Introduction to Automobiles**

Course Code : **OE003**

Course Instructor : **Mr. Abhilash Pathania**



Hours:3+0+0

Credits: 3

Course Description:

The course is designed to introduce the basic concepts and historic evolution of Automobiles. It provides an overview of the various automotive systems which collectively create a functional automobile. The course will give an insight into the impact Automobiles have had in shaping our lives and the fascinating journey of engineering innovation it has followed - from addressing transportation needs to being a safe, comfortable, stylish and environment friendly mode of conveyance today. It traces development of automobiles driving breakthrough innovations in designs, technology and manufacturing techniques.

Course Content:

Unit-A:

Evolution of Automobiles: Eras of invention, History of steam road vehicles in the 17th and 18th centuries, Development of Automobiles in the 19th century and Internal Combustion engines, Vehicles of 20th and 21st centuries, Development of electric vehicles.

History of Automobile Industry: History of the world's Automobile industry, Developments in the Japanese and American Automobile Industries, The global automotive industry at present and its scope in future.

History of the Indian Automobile Industry: Pre-1991- before Liberalization, Post-1991: Post Liberalization, The Indian Automotive industry at present.

Unit-B:

Engines: Working principle of two stroke and four stroke Petrol engines and Diesel engines, Battery Ignition system, Cooling System, Lubrication system used in automobiles

Power Transmission: Requirement and function of Clutches, Purpose and functions of the Gear Box, Transmission System, Propeller Shaft, Principle and function of Differential, 4x2 and 4x4 drive systems.

Unit-C:

Automotive Brakes, Tyres & Wheels: Classification of Brakes; Principle and function of Drum Brakes, Disc Brakes; Mechanical, Hydraulic, Pneumatic Brakes; Power Assisted Brakes, Types of

Tyre & Tyre rotation; Excessive Tyre wear and its causes.

Fuel Ignition Systems: Introduction to Multipoint Fuel Injection System, Fuel Injection in CI Engines, Requirements of Diesel Fuel Injection System, Pollutants from SI and CI Engines, Methods of Emission Control.

Unit-D:

Cars of Modern Era: Improvement in design and comfort by improving aerodynamics and suspension system, providing good air conditioning system, introduction of safety features like ABS, air bag, seat belt and various sensors, Improvement of fuel efficiency, Introduction of GPS and navigation systems.

Additional Features: Sun roof, Center locking system, Power windows, Automatic transmission, Power steering.

Challenges for the Automobile industry,

Course Name : Photography and Photoshop

Course Code : OE016

Course Instructor : Mr. Amar Rao



Hours: 3+0+0

Credits: 3

Course Description:

This course is a foundation course designed to introduce the students to apply the language of art in producing fine photographs. Students explore the optics, technology, and art involved in producing photographs, then become able to apply these concepts and find parallels when learning about digital photography and image manipulation. Apply Photoshop tools to the creation and manipulation of photographic images. Analyze and compare ways master photographers find and interpret subject matter to support an idea or theme through the use of the stages of description, analysis, interpretation, and judgment

Course Content:

Unit-A: Introduction to Digital Photography

Understanding film and paper photography

Learning about the digital revolution

Advantages and disadvantages of digital photography over film photography

Computers as photographic tools

How photos are used today.

Unit-B: Camera types and lenses

Point and shoot camera, DSLRs, fast motion cameras, mobile cameras

Standard lens, Prime lens, macro lens, Wide angle lenses, Telephonic lens

Tripods, monopods, flash lights etc.

Unit-C: Basic triangle of photography

Introduction

Exposure/ISO- the measure of a digital camera sensor's sensitivity to light

Study of apertures: f-number and their effects, opening and closing.

Shutter speed- the amount of time that the shutter is open

Unit-D: Image capturing and Post processing

Record images by digital still camera

Work-around for camera setting

Focus workaround – Exposure work-around

Taking / Shooting by using built in flash light

Edit images by Adobe Photoshop

Adjustment of image size, resolution, brightness

Contrast, color and tonal correction by level and curve

Course Name : Introductory Chinese Language

Course Code : OE036

Course Instructor : Ms Rozy Dhanta



Hours: 3+0+0

Credits: 3

Course Description:

This course is designed for people without any prior exposure to Chinese. It teaches basic knowledge of Pinyin and Chinese Characters, helps students to carry on everyday communication in Chinese on greeting, self-introduction, talking about family, interests, weather, location, shopping and some other activities, as well as basic Chinese grammar and culture. Students will have an initial understanding of Chinese grammar, culture while actively participating in the class talking and discussion.

Course content: beginning

I. Phonology: general introduction to Chinese

1. Pinyin: initials and finals

2. Tones and tone changes

II. Character writing: strokes, strokes order, radicals and types of Chinese characters.

III. Text learning

Course Name : Industrial Engineering
Course Code : OE037
Course Instructor : Mr. Nitin Kumar



Hours: 3+0+0

Credits:3

Course Description:

This course is an introduction to Industrial Engineering which will cover the basic concepts of industrial engineering techniques used in industries to improve the efficiency and engineering applications. The course includes the importance of Industrial management, Production Planning Control system, Research and Development, Quality Control system, Inspection methods and Time Study techniques etc.

Course Contents:

Unit-A: Importance of Industrial Management:

- Principles of scientific management.
- Definition of a manager, Relationship between management, organization and administration.
- Authority and responsibility.
- Types of organization: Military (Departmental functional and line and staff type, Management charts).

Labour Compensation:

- Time rates, piece rates and their combination.
- What are incentives, premium bonus systems?
- British and American systems.
- Is profit sharing an effective incentive?
- Financial incentives.

Unit – B: Research and Development:

- Considerations while developing a new product for manufacture, sources of new ideas, simplification and diversification of products as related to the volume of sale.
- Research basic and applied, their respective field.
- Agencies for research, council of Scientific and Industrial Research (India).
- Consideration in the selection of research personnel.
- Standards, their usefulness, right line from introduction of standard.
- Different types of fits tolerance, standard sizes of drawing.
- Importance of Indian Standard Institutions.

Unit – C: Planning Production and Production Control:

- Functions of planning routing, scheduling, dispatching and follow up.
- Types of manufacture, jobbing batch and mass production.

- Production control charts. Route and process charts.
- Operation charts, machine load charts, Gantt charts, Progress charts
- Mechanical and Bar Type.

Quality Control and Inspection:

- Economics of Quality Control.
- Organization of quality control, Inspection, inspection standards and methods
- Introduction to statistical methods of quality control.

Unit – D: Time and Motion Study:

- Their importance in scientific management.
- Classification of motion, Therbligs Process charts, principles of motion, economy, layout of work place, time study technique.
- Merit rating, setting time standards, standard time.

Course Name : Grooming and Hospitality Skill Workshop

Course Code : OE038

Course Coordinator : Mr. Pratip Mazumdar



Hours: 3+0+0

Credits: 3

Course Description:

Skill Workshop" for Hotel Management students is a crucial tool to transition them to be an Extroverted Personality. The Services Industry is such that Man-management & Communication Skills become an essential feature of a successful Service Sector Persona. The following activities are undertaken to hone this skillset:-

- A) Ability to comprehend News Articles from Newspapers & Relevant Industry Tabloids.
- B) Creating the desire to attain knowledge of the Hospitality Industry----Domestic & Global.
- C) Extempore Speech
- D) Creation of PowerPoint Presentations & executing the same in front of an audience.
- E) Ability to participate in Group Discussions
- F) Enhance their knowledge on Hospitality Brands & Luxury Brands.

Course Name : Communicative English
Course Code : OE039
Course Coordinator : Mr. Neeraj Pizar



Hours: 3+0+0

Credits: 3

Unit-A

What is Communicative English and why it is important?; Basic aspects of communication including process of communication, the 7 C's of communication with examples, and Barriers in communication.

Unit-B

- Communicative English for Social Purposes with focus on language functions for the following: Making a request; Greeting; Asking a question; Giving views; Introducing oneself, etc.
- Communicative English for Academic Purposes including: Listening and making notes; Speaking in various academic contexts; Writing a project Report; Writing references; Paraphrasing; Writing a Summary.
- Etiquettes for Telephonic conversation and E-mail communication

Unit-C

- Communicative English for Occupational Purposes including: Writing CV; Participating in Group Discussion
- Communicative English for Creative Purposes (in professional setups): Giving a speech/presentation (with language functions for Greeting, Thanking, Introducing the topic, Outlining the steps, Repeating, Clarifying, Asking for opinion, Persuading, Summarizing, Concluding, Thanking the audience.

Unit-D

- Writing a formal letter; Communicative English in Personal Interview
- Using language for creative thinking

Course Name : Introduction to Music

Course Code : OE047

Course Instructors : Ms. Gayatri Seth



Hours: 3+0+0

Credits: 3

Course Description:

Music can be a social activity, but it can also be a very spiritual experience. Ancient Indians were deeply impressed by the spiritual power of music, and it is out of this that Indian classical music was born. So, for those who take it seriously, classical music involves single-minded devotion and lifelong commitment. But the thing about music is that you can take it as seriously or as casually as you like. It is a rewarding experience, no matter how deep or shallow your involvement.

Most music has at least three main elements - melody, rhythm and harmony. Because of its contemplative, spiritual nature, Hindustani (north Indian) classical music is a solitary pursuit that focuses mainly on melodic development. In performance, rhythm also plays an important role, giving texture, sensuality and a sense of purpose to melody. Harmony in Indian classical music mainly takes the form of a harmonic resonance field supplied by instruments like the *tanpura* or *swarmandal*. More complex harmony can also be found with instruments like the santoor, and often as the inadvertent result of the harmonium trying to shadow the main vocalist or instrumentalist with a delay of a split second. The semi-melodic quality of the tabla adds a third dimension of harmony.

Course Content:

Unit-A: Swaras & Alankaras of Music

Definition of music, Knowledge of basic swaras (Sargam), Study of different alankars, Definitions and Explanation of Musical terms such as: Naad (2 kinds & 3 properties), Dhwani, Sangeet, Swar, Laya, Raag, Taal, Shuddh- Vikrit, Chal-Achal, Mandra-Madhya-Taar, Poorvang – Uttarang, Saptak - Ashtak, Sthayee – Antara, Aroha- Avaroha, Raag Jati, Tal Jati, Alap-Tan, Varn, Alankar, Pakad, Bandish, Vilambit-Madhya-Drut, Matra, Theka, Vibhag, Tali, Khali, Sam, Shruti.

Unit-B: Instrumental & Singing techniques

Introduction of Harmonium, knowledge of Tanpura and its parts with diagram. Elementary knowledge of tuning Taanpura and digital Tabla, Definition and types of Thaata, Pramukh ragas under different thaata. Introduction to Meend, kana, Khatka, Murki, Gamak. Types of Gayaki. Types of Sangeet.

Unit-C: Hindustani Music system and its Legends

1) Bhatkhande system 2) Vishnudigambar system.

Difference between both of these systems. And their contribution to enhance music.

Life sketch of music scholars and musicians their contribution to Indian Music viz.:

(a) Amir Khusro (b) Swami Haridas (c) Tansen (d) Pt. Bhimsen Joshi

Unit-D: Raag and Taal of Hindustani Music

Course Name : Introduction to World Cuisines

Course Code : OE051

Course Instructor : Chef Karan Berry



Hours: 3+0+0

Credits: 3

Course Description:

This is a preliminary knowledge-based content intended to familiarize the student to World of cooking. This course is designed to form the basis for understanding the various famous Cuisines around the World. The aim of this course is to develop interest in knowing about Food, as it helps in knowing about the history, culture and several other aspects of that region.

This course introduces to the fundamentals of Professionalism in kitchens, Role of Chefs in various Food & Beverage service establishments and basics of some of the World renowned Cuisines. It also has some interesting content about importance of spices and masalas in Indian cuisine. Instruction of this Course will be through the medium of classroom-aided theory & discussions with the students.

Course Content:

Unit-A

Professionalism in kitchen

- Importance of Chef Uniform and Grooming.
- Safety & Security in kitchen
- Handling of knives and other equipment
- Role of Chef- Duties & Responsibilities

Unit-B

Basics of International Cuisine

- Ingredients
- Effect of heat on nutrients present in food
- Methods of cooking
- Selection of ingredients (Seafood, Vegetables, Dairy products, Meat etc.)
- Plate presentation techniques

Unit-C

International Cuisines- Introduction to Culture, Tradition & Famous Dishes

- South-East Asian
- Indian
- Chinese
- Japanese

Unit-D

International Cuisines- Introduction to Culture, Tradition & Famous Dishes

- French
- Italian
- Spanish
- Mexican
- Lebanese

Course Name : Prism of Perspectives – Looking at Literature

Course Code : OE056

Course Instructor : Ms. Neelkamal Puri



Hours: 3+0+0

Credits: 3

Course Description: Literature imitates life and at other times shapes it. That literature is not something that is to be put away on a forgotten bookshelf while we get down to the business of living. Which is why books are banned and movie halls vandalized. Life and literature have a symbiosis in which the study of one can teach you something of the other. Literature is not a linear narrative, or just a story, because it hides within its folds so many nuances of the complexity of life. There is a plurality to life as there is a plurality to literature. This course is designed to examine how literature can offer perspectives on different areas of life and living.

Course Content:

Unit A – Literature as History

History does often repeat itself and especially so in literature. This Unit will look at an extract from ‘Freedom at Midnight’ by Larry Collins and Dominique Lapierre and other related texts like ‘Train to Pakistan’ by Khushwant Singh and ‘Borders and Boundaries’ by Ritu Menon and Kamla Bhasin.

Unit B – Literature as Sociology

Society is a complex construct and literature, being many layered, offers the perfect canvas to paint and understand it. This Unit will examine an essay ‘Stranger in the Village’ by the American writer James Baldwin, which offers an interesting perspective on racism. The students will also be asked to read a small extract from B.R. Ambedkar’s autobiography.

Unit C – Literature as Politics

The connect between the two is often seen as a descent into propaganda but one of the classics of literature ‘Animal Farm’ by George Orwell, though political in its import, offers an all time valid comment on the dangers of totalitarianism.

Unit D – Literature as Feminism

Women as authors have been late entrants into the world of literature but existing texts can be looked at from a feminist perspective. However, this Unit will centre a play that makes an overt feminist statement. ‘Mother’s Day’ by J.B. Priestley will be studied to examine issues of feminism.

Unit E – Just Poetry

The study of a few selected poems for an exposure to the many different ways in which poetry has grown in response to a vastly different world from the one in which our forefathers grew up.