

University of Lucknow

Vocational Courses UG Fourth Semester

S. No	Vocational Courses
1	Basics of Indian Economy
2	Geo Archaeology
3	Basics of Web Design
4	Entrepreneurship in Zoology
5	Introduction to Household Chemicals, Soaps and Detergents
6	Solar Thermal Energy Conversion
7	Optoelectronics-2
8	Elementary Cryptography
9	Introduction to Statistical Data Analysis-II
10	Hydroponics Cultivation of Plants
11	Enhancing Communication Skills
12	Legislative Practices and Procedures
13	Woman and Entrepreneurial Skill Development
14	Urban/Industrial Community Studies
15	नीति कौशलम्
16	Elementary Grammar and Translation
17	Museum Studies
18	Literature Review
19	History and Tourism in India and Europe

20	Operational Management
21	Philosophical Counseling: A Beginners Guide to Thoughtful Practice (B)
22	अर्चक प्रशिक्षण (मन्दिर पुजारी)
23	सर्जनात्मक एवं माध्यम लेखन
24	Euro-Arab Relations
25	Entrepreneurship
26	Fundamentals of Personal Finance
27	GST Concepts and Practice
28	Role Play and Simulation

BASICS OF INDIAN ECONOMY

Course Code: ECO-402 VC2

Credit: 4

(T)

Course Outcomes: on completion of this course, students will be able to develop the ideas on national income and students will also be able to understand the growth and structure of the three sectors of Indian economy, namely primary (agriculture), secondary (Industry), tertiary (Services) sectors.

Unit I : Introduction and National Income

Concept of Growth and Development, Developed, Developing and Emerging Market Economies, Characteristics of Indian Economy; Concept of National Income, GDP, GNP, Net Domestic Product, personal income, Disposable income.

Unit II : Agriculture and its role in economic development

Production, Growth and Structure, Resource limitations and technological change in agriculture; Institutional and non Institutional sources of credit available for agriculture.

Unit III : Industry and its role in economic development

Major Industries- Iron & Steel, Cement, Paper and Sugar; Micro, Small & Medium Enterprises (MSMEs); Sources of Industrial finance

Unit IV : Services and its role in economic development

Major activities- Education, Health, Tourism, Communication, Transport, Hotels & Restaurants, storage, Banking, Insurance, IT etc.

Text Books

1. A.N.Agarwal/M.K.Agarwal- Indian Economy
2. Rudra Dutt and KPM Sundaram- Indian Economy
3. Uma Kapila- Indian Economy
4. Sanjeev Kumar- the state of Indian agriculture
5. Misra and Puri- Indian Economy

Suggested Readings

1. Economic Survey
2. Government Reports

Web References

<http://hecontent.upsdc.gov.in/>

<https://epgp.inflibnet.ac.in/>

<https://swayam.gov.in/>

[https://udrc.lkouniv.ac.in/Department/Department Detail/StudyMaterial](https://udrc.lkouniv.ac.in/Department/Department%20Detail/StudyMaterial)

<https://www.coursera.org/in>

Paper Title: Geoarchaeology

UNIT I

Geological time scale with special reference to Pleistocene epoch chronology and Quaternary period; Dating methods - Absolute & Relative dating techniques; C¹⁴ dating and its application.

UNIT II

Introduction to Geoarchaeology and its scope; Rocks, gems and jewellery; Tool types and tool making technology during Palaeolithic, Mesolithic and Neolithic ages.

UNIT III

Environmental and evolutionary development of Palaeolithic (lower, middle and upper), Mesolithic and Neolithic ages; Geoenvironment with special reference to human habitat and adaptation during Palaeolithic, Mesolithic, Neolithic, Iron age and Chalcolithic ages.

UNIT IV

Vedic Geology, Geoheritage of ancient world civilization including Indus Valley Civilization; Megalithic culture; Cave art and material ; Geoarchaeological sites of Uttar Pradesh and other parts of Indian subcontinent.

Suggested Readings:

1. Encyclopaedia of Geoarchaeology , ISBN : 978-94-007-4827-9 by Allan S. Gilbert, 2017.
2. Principles of Geoarchaeology: A North American Perspective , Publisher: University of Arizona Press, ISBN: 0816509891 by Michael R. Waters, 1992.
3. Practical and Theoretical Geoarchaeology, Blackwell Publishing Ltd. Print ISBN:9780632060443 Online ISBN:9781118688182 by Paul Goldberg, Richard I. Macphail, 2005.
4. Digital Geoarchaeology : New Techniques for Interdisciplinary Human-Environmental Research, Springer International Publishing by Christoph Siart, Markus Forbriger, Olaf Bubenzer, 2017.
5. Geoarchaeology in the Great Plains, University of Oklahoma Press by Rolfe D. Mandel, 2021.
6. The archaeology of India, Online book by D.P. Agarwal, 2021.

Title of the Paper: Basics of Web Design		
Course Code: VC2 Credit: 4 Course Outcome:	At the end of this course, the successful students will be able to: <ul style="list-style-type: none"> • Code HTML pages. • Design Web pages • Construct static websites. 	Theory
Unit –I		
Internet Definition, World Wide Web Definition, Clients and server, Web-Pages, Website, software, Portal, system software and application software, Web Browser and Search engines.		
Unit –II		
Web designing tools and software, static website, dynamic website, Webpage-organization and linking, HTML tags and its types, Singular Tags and paired tags, website domain and hosting.		
Unit –III		
Head and Body section of webpage, HTML editors, TITLE, FOOTER, <P>, , Heading style, Text styling and formatting, HTML attributes and HTML comments, Ordered and unordered list, Inserting image in HTML Webpage, Creating tables with TD and TR tags.		
Unit –IV		
Cell spacing and Cell Padding, Marquee tag, Border and its attributes, Row-span and Column-span, Cascading Style Sheet (CSS), Utility of CSS, Javascript.		

Reference Books:

- [1] Ivan Bayross, "Web Enabled Commercial Application Development using.....HTML, DHTML:, JavaScript, Perl CGI", BPB Publication.
- [2] Dr. Suresh Prasad Kanhojia, "A text Book on HTML, DHTML and JavaScript: A Practical Approach", Gyan Prakashan, Second Edition.

Suggested Readings

- [1] Thomas A. Powell, "The Complete Reference HTML and CSS", McGraw Hill publication, First Edition.
- [2] David R. Brooks, "An introduction to HTML and Javascript", Springer

Weblinks:

- [1] <http://heecontent.upsdc.gov.in/SearchContent.aspx>
- [2] <https://udrc.lkouniv.ac.in/Department/DepartmentDetail/StudyMaterial?dept=34>

Entrepreneurship in Zoology

Unit – I

Apiculture

- Bees of India
- Bees rearing
- Bee diseases / pest
- Bee products

Sericulture

- Silkworm species
- Silkworm rearing
- Silkworm diseases / pest
- Silkworm products

Unit – II

Lac culture

- Lac insect
- Lac insect rearing
- Lac insect diseases / pest
- Lac insect products

Aqua culture

- Pisci culture
- Prawn culture
- Pearl culture
- Aqua culture products

Unit – III

Poultry

- Poultry breeds
- Poultry rearing
- Poultry diseases / pest
- Poultry industry products

Vermi composting

- Earthworm species
- Earthworm rearing
- Earthworm diseases / pest
- Earthworm industry products

Unit – IV

Site field visit and reports based on Unit I - III

Introduction of Household Chemicals, Soaps and Detergents

Semester IV

Credits 4

Course Outcome

CO 1 To expose the students to various emerging new areas of Chemistry and apprise them with their prevalent in their future studies and their applications in various spheres of chemical sciences.

CO 2 To enhance student sense of enthusiasm for chemistry and to involve them in an intellectually stimulating experience of learning in a supportive environment.

CO 3 To enhance practical knowledge

CO 4 To motivate self-employment ability

CO 5 To create self-efficiency

UNIT I

Household chemicals: History of household Industry, Basic Theory of Household Chemicals, and Raw material required for household product, Product manufacture in household industry. Role of household product in day-to-day life.

UNIT II

Cleaning agents: Introduction, **synthesis** and applications of Natural cleaning agents, cleaning action, Floor cleaner, Toilet Cleaner, Bathroom Cleaner, Kitchen Cleaner

UNIT III

Technology of Soap: Chemistry of soap; Raw material for soap industry and their selection; hard fats yielding and oil yielding soaps; Chemical reactions of soaps; Hard and Soft soaps; Plant and process employed in soap manufacture; Liquid hand wash and liquid dish wash.

UNIT IV

Detergents and surfactants: Introduction; Different terms used in detergents; Raw materials for detergents; Washing action of detergents; Types of detergents; Introduction of surfactants; Types of surfactants.

Recommended Books:

- Small scale industries and house hold industries in developing economy by Shetty M.C.
- Manufacture of perfume cosmetics and detergents by Prasad Giri Raj
- Industrial chemistry by B.K. Sharma
- flavours & Essential oils, Industries SBP Board
- Perfumes soaps & cosmetics by Poucher.
- Manufacture of perfumes, cosmetics and detergents by Giriraj Prasad
- Manufacture of perfumes, cosmetics and detergents by Prasad.

Title of the Paper: PHYVC403 - Solar Thermal Energy Conversion

Vocational Paper II (VC2_1)

Course Objectives and Outcomes:

The course

1. Intends to give the necessary and significant learning regarding solar energy conversion systems operation and installation.
2. Covers the information about the solar radiation used for solar energy systems.
3. Provides the modern knowledge and on-field practices of solar thermal systems.
4. Presents the designing methods of kilowatt to megawatt level solar thermal energy systems in by in-situ methods.

UNIT I

Solar radiation: its measurement and prediction. The Solar Constant; Radiation solar intensity at earth surface; Direct and diffuse radiation; Solar geometry; Sun-path diagrams. Available solar radiation: Pyranometers, Pyrheliometric scales, Estimation solar radiation on horizontal surface; Radiation on sloped surfaces: Isotropic sky model, Anisotropic sky; Solar radiation Data.

Solar thermal energy conversion: Principle of direct and indirect energy conversion; Flat plate collectors: Effective energy losses; Thermal analysis; Heat capacity effect; Testing methods; Evacuated tubular collectors: Air flat plate collectors: types; Thermal analysis; Thermal drying.

UNIT II

Introduction and classification of concentrating collectors, Thermodynamic limits to concentration, parabolic geometries, paraboloid geometries (dish), Solar concentrator mountings, Solar incident angle for different concentrator mountings, Performance analysis of cylindrical parabolic collector, Compound parabolic collector (CPC). ASHRAE code; Modeling of solar thermal system components and simulation; Design and sizing of solar heating systems: f-chart method and utilizability methods of solar thermal system evaluation.

Fundamentals, design and applications of Solar still; Solar cooker; Solar dryer; Solar Pond and other solar thermal systems.

UNIT III

Observation of the total solar energy for a day or for a specified period with different inclination i.e., horizontal surface, latitude and 45° tilt, and also calculate the tilt factor sunshine hours.

Analysis of the thermal performance of a Box-Type Solar Cooker: without load and with load.

Determination of First and Second Figures of Merit of a Box-Type Solar Cooker.

Total thermal heat gain and efficiency evaluation of a Single Basin Solar Still.

UNIT IV

Evaluation of U_L , F_R , η of Solar Thermal Flat Plate Collector in Thermosyphonic Mode of Flow at different Radiation Levels.

To conduct the heating and cooling tests on a paraboloid concentrator solar cooker to determine its Optical Efficiency Factor, Heat Loss Factor and stagnation test.

Study of the Performance of a Rectangular Dish Type Solar Cooker with Water Heater Through Stagnation Temperature Test and Solar Water Heating Test.

Reference Books and Materials:

1. Sukhatme S P, *Solar Energy: principles of Thermal Collection and Storage*, TataMcGraw-Hill.
2. Duffie JA, Beckman WA, *Solar Engineering of Thermal Processes*, John Wiley.
3. Goswami D Y, Frank Kreith and Kreider, *Principles of Solar engineering*, Taylor and Francis, USA.
4. Garg H P, Prakash S, *Solar Energy: Fundamental and Application*, Tata McGraw-Hill, New Delhi.
5. Kreith F, Kreider J F, *Principles of Solar Engineering*, McGraw-Hill.
6. Kreider J F, Kreith F, *Solar Energy Handbook*, McGraw-Hill.
7. Bent Sorensen, *Renewable Energy*, Academic press, New York.
8. Tiwari, G N, *Solar Energy, Fundamentals Design, Modeling and Applications*, Narosa, New Delhi.

Title of the Paper: PHYVC404 - Opto Electronics -2

Vocational Paper I (VC2_2)

Course Objectives

This course will give in-depth knowledge of Optical fibers & their fabrication, optical fiber communication, sensors, switches, optical sources and detectors.

Course Outcome

On the completion of this course students would

1. Know the basics of solid state physics and fiber optics.
2. Learn the principle of optical detection mechanism in different detection devices.
3. Understand transmission in optical fibers.
4. Gain experimental knowledge about various aspects of fibers and optical communication. Recording data, plotting of graphs, extraction of relevant information from graphs and identifying the sources of experimental error is also a key outcome along with analyzing and presenting experimental findings through written laboratory reports.

UNIT- I

Optical fiber Communication:

Historical development, The general system, Advantages of optical fiber communication, Optical fiber waveguides: Ray theory transmission, Phase and group velocity, Step index fibers, Graded index fibers, Single mode fibers, Cutoff wavelength, Fiber Materials and fabrication methods, Photonic crystal fibers.

UNIT-II

Transmission characteristics of optical fiber:

Attenuation, Material absorption losses, Scattering losses, Fiber bending losses, Dispersion, Chromatic dispersion, Intermodal dispersion: Multimode step index fiber, Fiber alignment and fiber joint loss, Fiber splices, Fiber connectors, Fiber couplers.

UNIT- III

Optical sources and Photodetectors:

Light Emitting diodes: LED Structures,
Light Source Materials, Quantum Efficiency and LED Power Modulation.

Laser Diodes: Modes and Threshold conditions, External Quantum Efficiency, Resonant frequencies, Laser Diode structures and Radiation Patterns

Paper Name: Elementary Cryptography

Pre-requisites: Mathematics in Class 12

Maximum Number of students: 60

Course Objectives:

1. To provide deeper understanding of mathematics used in cryptography
2. To familiarize with cryptographic techniques for secure communication of two parties over an insecure channel
3. To provide understanding of modern cryptography
4. To explain modern stream and block ciphers
5. To explain asymmetric key cryptography

Course Outcomes:

At the end of this course students will be able to:

1. Use modern symmetric key algorithms for cryptography
2. Use modern asymmetric key algorithms for cryptography
3. To examine the issues and structure of modern stream and block ciphers

SYLLABUS

UNIT-I

Congruence, system of linear congruence, Chinese remainder theorem, discrete logarithm

UNIT-II

Field, finite field, construction of Galois finite fields, modulo polynomial arithmetic, finding inverse of an element in finite fields, extended Euclidean algorithm for finding inverse

UNIT-III

General structure of modern stream and block cipher, RC-4 stream cipher, AES block cipher

UNIT-IV

Asymmetric key cryptography, Discrete log problem, Diffie Hellman key exchange protocol, Factorization problem, RSA and EL Gamal asymmetric key cryptosystem and their cryptanalysis.

Recommended Books:

1. Cryptography and network security by Behrouz A. Forouzan
2. Cryptography and network security: principles and practice by Stallings William

VC2-Introduction to Statistical Data Analysis-II

Credits: 04

Course Outcome:

- ✓ To understand the concept of bivariate data
- ✓ Knowledge of observing correlation between variables
- ✓ Knowledge of curve fitting, regression lines

Unit I:

Bivariate data, Method of least squares for curve fitting, Correlation, rank Correlation (Spearman's and Kendall's measure), Intraclass correlation, correlation ratio.

Unit II:

Partial and Multiple Correlation, Simple Linear Regression, Regression lines, Multiple Regression and their assumptions.

Unit III:

Attributes, Notion and terminology, contingency table, class frequencies, and ultimate class frequencies, consistency.

Unit IV:

Association of attributes, Independence, Measure of association for 2x2 table, Chi-square, Karl Pearson's and Tschuprow's coefficient of association, Contingency tables with ordered categories.

References

1. Charles Wheelan: *"Naked Statistics"* W. W. Norton & Company.
2. Darrell Huff: *"How to Lie with Statistics"* W. W. Norton & Company.
3. Goon, Gupta & Dasgupta: *"Fundamentals of statistics Vol. I"* The World Press Private Ltd., Calcutta.
4. Yule, G.U. and Kendall, M.G.: *"An Introduction to the theory of statistics"* Charles Griffin & Company Ltd.
5. C. R. Weatherburn: *"Mathematical Statistics"*

References

1. Charles Wheelan: "Worked Statistics" W. W. Norton & Company.
2. Darrell Huff: "How to lie with Statistics" W. W. Norton & Company.
3. Gagan Gupta & Deshpande: "Fundamentals of statistics Vol. 1" The World Press Private Ltd., Calcutta.
4. Yule, G.U. and Kendall, M.G.: "An Introduction to the theory of statistics" Charles Griffin & Company Ltd.
5. C. E. Weatherburn: "Mathematical Statistics"

VOCATIONAL: HYDROPONIC CULTIVATION OF PLANTS

4 Credits

Course Outcome:

After the completion of the course the students will be able to

1. Understand fundamental metabolic functions of various essential and beneficial nutrient elements in plant growth and development.
2. Understand uptake mechanism of mineral ions and nutritional requirements of plant growth under controlled condition.
3. Prepare nutrient stocks and supply solutions, understand differences between plant cultivation in soil and without soil.
4. Understand about various media for support of plants in hydroponics, types of hydroponic system and solution dispersion options in hydroponics.
5. Learn management of green house and plants in hydroponic culture condition, pest control and diagnosis of mineral deficiency and toxicity.

Unit I

Introduction of hydroponics and plant nutrition:

Scope of Hydroponics and terminology (Water Culture, Sand and Gravel Culture, Rockwool etc), History of Hydroponics. Functions of macronutrients, Functions of micronutrients and beneficial elements

Unit II

Mineral nutrient uptake and mineral nutrient solutions:

Nutrient uptake by plants, Plant requirement of different mineral nutrients. Nutrient solutions compositions, calculating chemical formulae, preparing nutrient solution stock and inter-stock, differences between soil culture and soil less culture.

Unit III

Media and types of hydroponic systems:

Types of support media: Rockwool, Vermiculite, Sand, Leca, (Expanded Clay). Rate and frequency of irrigation & Feeding and aeration (In water culture), Nutrient Film Technique (NFT), Solution Dispensation Options (closed or open system, drip, slop, flood, capillary and mist).

Unit IV

Management of hydroponic system:

Greenhouse Management, Pest and Disease, Controlling light, pH and salinity, Diagnosis of mineral nutrient deficiency and toxicity in plants, Management of deficiency and toxicity.

Since this is a Vocational Course, Theory and Practical will go hand in hand.

REFERENCES

Books:

1. Resh HM (2013) Hydroponic food production, CRC Press, Boca Raton, FL

Suggested Readings:

1. Kozai T, Niu G, Takagaki M Ed. (2016) Plant Factory: An indoor vertical farming system for efficient quality food production. Academic Press, Elsevier Inc.
2. Sinha P, Gopal R (2015) Sand culture technique and biochemical method, LAP Lambert Academic Publishing, Saarbruecken, Germany.
3. Hewitt EJ (1966) Sand and Water Culture Methods Used in the Study of Plant Nutrition Farnham Royal, England: Commonwealth Agricultural Bureaux, Technical Communication No. 22 (Revised 2nd Edition) of the Commonwealth Bureau of Horticulture and Plantation Crops, East Malling, Maidstone, Kent
4. Marschner P ed., (2011) Marschner's Mineral Nutrition of Higher Plants (Third Edition). San Diego: Academic Press,
5. Sharma CP (2006) Plant Micronutrients, Science Publisher, Enfield, New Hampshire, USA

Internet:

1. <https://www.thebetterindia.com/60350/soil-less-hydroponic-gardening-india/>
2. <https://www.bartonbreeze.com/hydroponic-farm-setup>
3. <https://www.verticalroots.com/the-what-and-why-of-hydroponic-farming/>
4. <https://www.thespruce.com/beginners-guide-to-hydroponics-1939215>
5. <https://ag.umass.edu/greenhouse-floriculture/fact-sheets/hydroponic-systems>

Enhancing Communication Skills

VC Total Credits- 04

Course Objective: The objective of this course is to enhance the level of understanding of the students about the meaning and barriers of Interpersonal and Intrapersonal communication. Such an understanding would help the learners to prepare an impressive resume, face job interview and form an effective team.

Course Outcome: The students would develop skills of Self presentation, strategies for increasing Self awareness and Self-esteem. An understanding about pros and cons of self disclosure would make them more efficient in personal relationship. After completing this course students would also be more skillful in the development and repair of relationships and forming a cohesive group and effective teams.

Unit I – Introduction

- Meaning and Components of communication
- Characteristics, Difference between Verbal and Non-verbal Communication
- Barriers to Effective Communication, CV/Resume Writing and Facing Interview.

Unit II - Self and Intrapersonal Communication

- Increasing self awareness
- Improving Self-Esteem
- Concept of Self-Disclosure, Johari Window Model

Unit III - Communication

- Relationship and characteristics of healthy relationship
- Relational development stages
- Understanding family communication system and friendship development

Unit IV - Communication in Groups & Teams

- Nature, Goals and Types of Groups
- Stages of formation of Groups, Group Discussion and its types
- Characteristics of an Effective Team, Skills for developing an Effective team

Books Recommended:

1. Adler, R.B. and Rodman, G.(1997). Understanding human Communication, 6th edition, Harcourt Brace college publishers
2. Beebe, S.A., Beebe, S.J. and Redmond (1996). Interpersonal Communication, Allan and Bacon.
3. Devito, J.A. (1997). Human Communications of the Basic Course. VIIIth edition, Deisow
4. Mandal, S.K. (2008). Effective Communication and Public Speaking, Jaico Book
5. Scott, B. (2008). The Skills of Communicating, Jaico Publishing House

References:

- <https://www.uopeople.edu/blog/interpersonal-vs-intrapersonal/>
- <https://www.skillsyouneed.com/ips/barriers-communication.html>
- https://thebusinessprofessor.com/en_US/communications-negotiations/group-and-team-communications

Paper: Legislative Practices and Procedures

Course objective:

To acquaint the student broadly with the legislative process in India at various levels, introduce them to the requirements of peoples' representatives and provide elementary skills to be part of a legislative support team and expose them to real life legislative work. These will be, to understand complex policy issues, draft new legislation, track and analyse ongoing bills, make speeches and floor statements, write articles and press releases, attend legislative meetings, conduct meetings with various stakeholders, monitor media and public developments, manage constituent relations and handle inter-office communications. It will also deepen their understanding and appreciation of the political process and indicate the possibilities of making it work for democracy.

Unit I. Powers and functions of people's representative at different tiers of governance

Members of Parliament, State legislative assemblies, functionaries of rural and urban local self - government from Zila Parishad, Municipal Corporation to Panchayat/ward.

Unit II. Supporting the legislative process

How a bill becomes law, role of the Standing committee in reviewing a bill, legislative consultants, the framing of rules and regulations.

Types of committees, role of committees in reviewing government finances, policy, programmes, and legislation.

Unit III. Reading the Budget Document

Overview of Budget Process, Role of Parliament in reviewing the Union Budget, Railway Budget, Examination of Demands for Grants of Ministries, Working of Ministries.

Unit IV. Support in media monitoring and communication

Types of media and their significance for legislators; Basics of communication in print and electronic media.

Urban / Industrial Community Studies

Unit-1

Community Studies fosters personal development and social skills which lead to self-reliance, self-management and concern for others. It fosters appreciation of, and respect for, cultural diversity and encourages responsible attitudes and behaviours required for effective participation in the community and for thinking critically, creatively and constructively about their future role in it.

Unit-2

Community Studies build students' awareness and understanding of life beyond school through authentic, real-world interactions. This understanding supports transition from university to participation in, and contribution to, community, industry, work and not-for-profit organisation (NFPOs).

Unit-3

Valuing a sense of community encourages responsible citizenship. Connecting with community seeks to deepen students' knowledge and understanding of the world around them and provide them with the knowledge, understanding, skills and dispositions relevant to community, industry and workplace contexts. It is through these interactions that students develop as active and informed citizens.

Unit-4

Students can visit and interact with community as part of their teaching and learning programs to connect classroom experience with the world outside the classroom. It is a mutual or reciprocal arrangement encompassing access to relevant experience and expertise. The learning can be based in community settings, including workplaces.

नीतिकौशलम्
(NITIKAUSHALAM)

Semester 4

Credits: 04

Course outcome

- विद्यार्थी जीवन में विद्वानों के अनुसार आचरण में दक्ष होंगे।
- विद्यार्थी परोपकार तथा दान के महत्व को जानकर स्वयं भी परोपकार, दानादि गुणों में निपुण होंगे।
- विद्यार्थी राजनीति के मूलभूत तत्वों को जानकर उनमें दक्षता प्राप्त करेंगे।
- विद्यार्थी दैनन्दिन व्यवहार सम्बन्धी नीति में कुशलता प्राप्त करेंगे।
- विद्यार्थी प्रश्नोत्तर कला में प्रवीण होंगे।

प्रथम इकाई Unit 1

चाणक्यनीतिदर्पणः

(तृतीय अध्याय)

द्वितीय इकाई Unit 2

विदुरनीतिः

(षष्ठ अध्याय)

तृतीय इकाई Unit 3

नीतिशतकम्

(पद्य संख्या १-२८, अज्ञनिन्दा, विद्वत्पद्धतिः, वाक्प्रशंसा, विद्याप्रशंसा, सत्संगतिः)

चतुर्थ इकाई Unit 4

महाभारत-वनपर्व

(यक्ष-युधिष्ठिर संवाद, प्रमुख 25 प्रश्नोत्तर)

संस्तुत ग्रन्थ

1. चाणक्य नीति दर्पण, स्वामी जगदीश्वरानंद सरस्वती, विजय कुमार गोविंदराम हासानंद, दिल्ली ।
2. विदुर नीति, गीता प्रेस, गोरखपुर ।
3. Niti and vairagya shatak of Bhartrhari, M.R. Kale, Motilal Banarasi Das, New Delhi.
4. महाभारत-वनपर्व, गीता प्रेस, गोरखपुर ।
5. नीतिशतकम्- डॉ सुरेश चंद्र चौबे, साहित्य सरोवर ।
6. नीतिशतकम् -राजेश्वर शास्त्री मूसलगांवकर, चौखंभा संस्कृत संस्थान, वाराणसी।

Elementary Grammar & Translation

Credit. 04

Course outcome:

After Completion of the course, the students will be able to:

- Have knowledge of verbs to be (مصدر) etc.
- Have fair knowledge of simple translation into Persian.
- Have basic knowledge of simple translation from Persian to Urdu/ Hindi/ English.

Unit- I: Infinitive / Verb to be (مصدر).

Unit- II: Compound Verbs.

Unit- III: Simple Translation from Persian to Urdu / Hindi/ English.

Unit- IV: Simple Translation from Urdu/ Hindi/ English to Persian.

Books Prescribed:

1. Amadnama
2. AZFA - I, II By Yadaullah Samra.
3. Persian Lesson By Taqipurnamdarian.

Sem H - IV Museum Studies

- The students will learn about the aspects of Museums, their classifications, and organizational structures.
- Students will also get familiar with the basic functions and methods.

UNIT- I

1. Aims and function of museum
2. History of Indian and International Museum Movement
3. Types of Museums: Local Museums, Private Museums, Municipal Museums, Institutional Museums, Public Museums, Industrial Museums Science Museums, Natural History Museums and Mobile Museums

UNIT- II

4. Museum personnel: Recruitment, Duties, Supervision and Report of Works
5. Office method: Rules and Regulations, Special bodies related to museum and museum work
6. General maintenance and supervision

UNIT- III

7. Display and exhibition: a. Various theories of display, Selection of objects, Visual elements of display, circulation space b. Furniture: Types of show cases, Pedestals and other accessories. c. Special techniques for display of sculptures, terracotta objects, coins, and paintings. d. Background, environment of particular object and display
8. Labeling: Materials used, the fabric and style, Texts and language of label, their nature to suit the very wide range of visitors.
9. Lighting: Natural and Artificial for various types of objects, reflections, causes of reflections and methods of avoiding them, effects of strong light on material exhibited, causes of bleaching of colours of objects, protective measures.

UNIT- IV

10. Museum security, Theft and War
11. Public relations: Liaison with outside experts, Laboratories, Institutions, Cooperation with mass media, Public comfort and convenience
12. Museum Finance: Source of funds, Method of preparing budgets, Check and audit

References :

Text Books:

1. Nigam, Anupama: *Museum and New Museology*, Sandeep Prakashan, 2002
2. Nigam, M. L.: *Fundamentals of Museology*, Navahind Prakashan in Hyderabad, 1966
3. Viswas, T. K.: *Museum Education*, New Age International Private Limited, 1996

Suggested Reading :

1. Baroda: *New Museology*
2. Belcher, Michael, Ed.: *Exhibition in Museums*, Leicester University Press, Washington, D.C. : Smithsonian Institution Press, 1991
3. Chandhary, R. D.: *Museums of India and their Maladies*, Agam Kala Prakashan, Delhi, 1999
4. Dwivedi, V. P and Smita J. Baxi: *Modern Museum*, Delhi 1972
5. Grace Marley Felicitation Volume: *Dimensions of Museology*
6. Hooper, Eileen Greenhill: *Educational Role of the Museum*, Routledge, 1999.

8. Kneil, Simon: *Care of Collections* , Routledge , 2005
9. Light, Richard B.: *Museum Documentation Systems; Developments and Applications* , Butterworth-Heinemann (April 14, 2015).
10. Liston, David: *Museum Security and Protection; A Handbook for Cultural Heritage Institutions* , Routledge, 1993
11. Malero, Masie C.: *Museum Governance*
12. Miles, R. S.: *Design of Educational Exhibits* , Routledge, 1988.
13. Orna, Elizabeth; Pettitt, Charles: *Information Management in Museums* , Aldershot, Hants [England] ; Brookfield, Vt. : Gower, c1997
14. Pearce, Susan, M.: *Archaeological Curatorship*, London: Leicester University Press, 1990.
15. Punja, Shobita: *Museums of India* , Local Colour, 1998
16. Sivarammurti, C.: *Directory of Museums in India* , Ministry of Scientific Research & Cultural Affairs, 1959
17. Thomson, Garry: *Museum Environment* , Routledge, 1994
18. UNESCO Publication: *Museum Practice*
19. Bedekar, V. H.: *New Museology for India* , National Museum Institute of History of Art, Conservation, and Museology , New Delhi, **1995**
20. Edson, Gary, Ed.: *Museum Ethics*, Routledge, 1997.
21. Lord, Gail Dexter; Lord, Barry: *Manual of Museum Planning*, AltaMira Press, U.S.; 3rd edition (29 May 2012)

Web References :

1. <https://www.indiaculture.nic.in/virtual-museums>
2. <http://uparchives.up.nic.in/career.html>

Literature Review

Course Outcome:

By the end of the course:

Students will come to acquire a good understanding of the concept, nature and types of literature and where to search for it. They will have an idea about reviewing literature by doing it themselves.

There shall be four parts of this paper -Introduction to basic concepts, Discussion, Review and Presentation.

HISTORY AND TOURISM IN INDIA AND EUROPE (18TH -20TH CENTURY)

(04 CREDITS)

Unit- I

1. Tourism: Concepts, Definitions and Historical Developments
2. Forms of Tourism: Inbound, Outbound, Domestic and International
3. Important Historical Places

Unit- II (Museums in Tourism)

1. Origin of Museums and Their Importance
2. National Museums of India
3. State Museums of U.P.

Unit- III

1. Specialty of European Architecture
2. European Architecture in Lucknow

Unit- IV (Culture in Tourism)

1. Understanding the Culture of Europe
2. Significance of Culture in Promoting Tourism

Reference Books:

- (i) Bhatia A.K., Tourism in India: History and Development, Sterling Publications, copyright 1978, <https://indianculture.gov.in/ebooks/tourism-india-history-and-development>
- (ii) Nilsson Sten, European Architecture in India, 01 January, 1969, Faber and Faber,

Study links: (i) <https://www.culturalindia.net/indian-architecture/colonial-architecture.html>

(ii) Thomas R Metcalf, Architecture and the Representation of Empire: India 1860-1910, 1984, <https://www.jstor.org/stable/2928537>

<https://www.incredibleindia.org/content/incredibleindia/en/destinations/museums.htm>

Paper-VC2: Operational Management

Unit-I

Traffic Management ; Water Supply Management.

Unit-II

Solid Waste Management ; Healthcare Management.

Unit-III

SMART Policing ; Data Management in Organisation.

Unit-IV

Human Resource Management ; Conflict Management in Organization.

Books Recommendation :

1. Traffic Management: Planning, Operations, and Control Hardcover – Import, 1 September 1991
2. Tchobanoglous, G., Theisen, H., & Vigil, S.A; Integrated Solid Waste Management: McGraw Hill, New York
3. Solid Waste Engineering, Principle & Management issues by Ven Te Chow
4. Bhide, A.D., B.B. Sundaresan, Solid Waste Management in developing countries.
5. Manual on Municipal solid Waste Management, CPHEEO, Govt. of India.
6. Guidelines for Management and Handling of Hazardous wastes MOEF (1991), Govt. of India.
7. Datta, M; Waste Disposal in Engineered Land fills, Narosa Publishers, Delhi.
8. Waste Management "Asian and Pacific Center for Transfer of Technology (N.D.) India", September 1993.
9. Peter, Z & Fredrick, B. HEALTH ECONOMICS, Oxford Pub., New York, 1997
10. Mill, John Stuart. „The Subjection of Women". 1869. Mukhopadhyay, Ishita. Crime against Women. Progressive Publication. Rege, Sharmila.
11. Writing Caste, writing Gender: Narrating Dalit Women's Testimonies. Jubaan. Tagore, Rabindranath. „Streer Patra", Galpaguccha, Rabindra Rachanavali, Vol. 9.
12. Tharu, Susie and K. Lalitha. Ed. Women Writing in India, vol. 1 and 2 Vasin, Kamala. Understanding Gender. Women Unlimited, 2004.
13. Wollstonecraft, Mary. „A Vindication of the Rights of Women", 1792.
14. Yoder, Dale - Personnel Management & Industrial Relations
15. Flippo, Edwin B. - Principles of Personnel management
16. Davar, Rustom S. - Personnel Management & Industrial Relations
17. Report of national Commission on Labour, G.O.I. 1968
18. Second Administrative Reforms Commission Report.

PHILOSOPHICAL COUNSELING: A Beginners' Guide to Thoughtful Practice

Impulse of the Course:

Philosophical Counseling may be a recent development (Gerd Achenbach opened the first practice in 1981) but the idea that philosophy can help with living goes back at least as far as Socrates, who arguably practiced a type of philosophical counseling in the Greek marketplace (Agora).

The practical application of philosophy through prescriptions, suggestions, dialogues, discussions and spiritual exercises continued in Greece and Rome (through the Stoics and Epicureans, amongst others, who practiced "philosophy as a way of life" (Hadot, 1995) and continued in Oriental traditions in the form of Srimad Bhagavadgita, Lord Buddha's teachings, Panchatantra, Hitopadesa, Jataka Katha, Yam-Naciketā Samvād, Yājñavalkya-Gārgi and so on.

The rise of Christianity in the West led to a sharp decline in philosophy's influence in dealing with personal issues until relatively recently, when developments in the worlds of therapy and philosophy created a more conducive climate. Psychoanalysis established the non-medical treatment of personal predicaments as a socially established practice; Carl Rogers took this a stage further by eschewing the medical model altogether and popularized "counseling" as a safe place, where people could work out their own solutions to problems under professional guidance and help. Such therapists as R. D. Laing had long-recognized the philosophical nature of many of their patients' problems, so at a time when academic philosophers were showing an increased interest in areas of 'applied philosophy', it was perhaps inevitable that philosophers would return to their roots and become directly involved in helping individuals to think about their lives.

Proposed Syllabus:

Duration: 6 Months

Credits: 4

NIT I:

Introduction

- Searching roots of Philosophical Counseling in Indian Knowledge System
- The Orientation

NIT II:

- Customizing the practice as per the needs of the client and the context.
- Do's and Don'ts in Philosophical Counseling

NIT III:

- Using stories and narratives from Srimad Bhagavadgita, Lord Buddha's teachings, Panchatantra, Hitopadesa, Jataka Katha, Yam-Naciketā Samvād, Yājñavalkya-Gārgi and so on.

NIT IV:

- Distressed and Non-Distressed Counseling
- The future prospects

Suggested Readings:

- Raghuram, A., Philosophy and India, Oxford.
- Peter Raabe: Philosophical Counseling: Theory and Practice (2001)
- Essays in Philosophical Counseling (2002)
- Lou Marinoff: Philosophical Practice (2002)
- Ran Lahav & M. Tillmans: Essays in Philosophical Counseling (1995)
- Pierre Hadot: What is Ancient Philosophy (2002) Philosophy as a Way of Life (1995)

पाठ्यक्रम
अर्चक प्रशिक्षण (मन्दिर पुजारी)

क्रेडिट : 4

सिद्धान्त + प्रयोग : 04

- पाठ्यक्रम के परिणाम – वैदिक एवं लौकिक तथा पौराणिक अर्चनाविधि के द्वारा व्यक्तित्व का निर्माण ।
- वैदिक एवं लौकिक, नित्यनैमित्तिक कर्मकाण्ड तथा अर्चना (मन्दिर पूजा) विधि के माध्यम से जीविकोपार्जन के योग्य बनेंगे ।
- वैदिक एवं लौकिक कर्मकाण्ड की समृद्धता एवं अर्चना (मन्दिर पूजा) विधि के माध्यम से तदनिहित नैतिकता एवं आध्यात्मिकता को अनुभूत कर भारतीय संस्कृति के महत्व को वैश्विक स्तर तक पहुंचाने में सक्षम होंगे ।
- धर्म-दर्शन, आचार-व्यवहार, नीति शास्त्र एवं भारतीय संस्कृति के मूल तत्वों को जानकर उत्तम चरित्रवान मानव एवं कुशल नागरिक बनेंगे ।

यूनिट -1 पवित्रीकरण, पवित्रीधारण, तिलकधारण, शिखाबन्धन, स्वस्तिवाचन मन्त्र, मंगलश्लोक, संकल्प कण्ठस्थीकरण ।

यूनिट -2 ध्यान, पाद्य, अर्घ्य, आचमन, स्नान, वस्त्रधारण, यज्ञोपवितधारण, उपवस्त्र, गन्ध, अक्षत, पुष्प, तुलसीदल, दूर्वा, बिल्वपत्र, नानापरिमल, सिन्दूर, इत्र, धूप, दीप, नैवेद्य, उद्धर्तन, फल, ताम्बूल, दक्षिणा, आरती, पुष्पांजली, प्रार्थना आदि के वैदिक एवं पौराणिक मन्त्र कण्ठस्थीकरण ।

यूनिट -3 गणपति अथर्वशीर्ष, संकटनाशनस्तोत्र, श्रीसूक्तम्, शिवपंचाक्षरस्तोत्र, शिवमानसपूजा, देवीस्तुति, रुद्राष्टकम्, देव्यापराधक्षमापनस्तोत्र, विष्णुस्तुति, अन्नपूर्णा स्तोत्र, आदित्यहृदयस्तोत्र, श्रीरामस्तोत्र आदि ।

यूनिट -4 गणेश, शिव, विष्णु, सूर्य, देवी पंचायतन पूजाविधि एवं निषेधविधि, विविध तिथि उत्सव आदि का विशेष प्रयोग विधि ।

प्रयोग – समस्त विधियों का प्रायोगिक प्रदर्शन, पूजापात्र का सजावट ,

विषय : सर्जनात्मक ^{एवं माध्यम} हिन्दी लेखन

Course Outcome : सर्जनात्मक ^{एवं माध्यम} हिन्दी-लेखन का यह प्रश्नपत्र विद्यार्थियों में विविध प्रकार के रोजगारमूलक कौशल को विकसित करने के लक्ष्य पर आधारित है। फिल्म, नाटक, टी. वी., रेडियो, प्रिंट मीडिया के साथ-साथ दुभाषिये के क्षेत्र में भी यह विद्यार्थियों को पर्याप्त क्षमतावान बनाएगा।

इकाई-I

- कविता, कहानी, रेखाचित्र, संस्मरण, व्यंग्य चित्र लेखन

इकाई-II

- रेडियो, टी.वी., नाटक-स्क्रिप्ट, वार्ता, भेंटवार्ता, फीचर, वृत्तचित्र, पटकथा संवाद-लेखन, कम्पेयरिंग, वाचन, कमेंट्री-कला

इकाई-III

- समाचार लेखन, संपादकीय लेखन, पुस्तक-समीक्षा, संपादन-कला, विज्ञापन कापी लेखन की प्रस्तावना, गुण, क्षेत्र एवं संभावनाएँ

इकाई-IV

- अनुवाद : अवधारणा, प्रक्रिया, प्रकार
- दुभाषिया-प्रविधि : अवधारणा एवं स्वरूप, आशु अनुवाद की विशेषताएँ एवं दुभाषिये के गुण एवं महत्त्व।

क ग्रंथ सूची :

भाषा और प्रौद्योगिकी - डॉ० विनोद कुमार प्रसाद

विज्ञापन - अशोक महाजन

संपादन के सिद्धांत - डॉ० रामचंद्र तिवारी

हिन्दी भाषा का प्रयोजनमूलक स्वरूप - डॉ० कैलाशचंद्र भाटिया

हिन्दी भाषा में रोजगार के अवसर - प्रा० विकास पाटील

संचार माध्यमों में हिन्दी का प्रयोग - डॉ० नाना लखदेव गोरे

Euro-Arab Relations

UNIT-I

Socio-Political Relations

Bases and Major Issues

UNIT-II

Euro-Arab Cultural and Economic Relations

Cultural Ties, Economic Ties

UNIT-III

Euro-Arab Dialogue

Pacts and Decisions etc

UNIT-IV

Arab League-European Union Relations

Summits, Resolutions, etc

Books Recommended:

- William L. Clene; A History of Modern Middle East
- Justin Marozzi; Islamic Empires

BAV02: Entrepreneurship

Credits: 4 (Lectures-3, Tutorial-1)

Course Objectives

The course aims to develop the ideas of Entrepreneurship among students and provide them the insights into the skills needed to set up a Business Venture.

Course Outcomes

Upon successful completion of this course the students will be able to:

- Understand the concepts of Entrepreneurship and its practical significance
- Develop the capability to identify business opportunities and work on them
- Learn to develop a Business Plan with focus on Technology, Human Resource and Financial resources
- Identify the sources of the funds and apply them efficiently

Unit I: Entrepreneurship: Concept and objective. Entrepreneurial Traits and Mindset. Misconceptions and Myths about Entrepreneurship. Motivation for becoming an entrepreneur. Entrepreneurship as a Career Option.

Unit II: Creativity and Innovation. bottlenecks to Creativity, sources of New Ideas, techniques for generating ideas, accessing Business Potential of an Idea, Idea to Opportunity: Opportunity recognition.

Types of New Ventures, Tax implications of various forms of Ventures.

Intellectual Property Rights (IPR): Patents, Trademarks and Copyrights.

Unit III: Business Plan: Purpose and Contents of a Business Plan including: Marketing Plan: Industry Analysis, Competitor Analysis, Market Segmentation, Target Markets, Market Positioning, Marketing Mix.

Operation Plan: Product Design and Specifications, and Technology Choices.

Organisation Plan: Planning of HR requirements.

Organisational Structure and Systems.

Financial Plan: Budgeting. Preparation of projected Profit and Loss Accounts / Income Statement and Balance Sheet.

Unit IV: Financing of New Ventures: Stages of Financing, Sources of Finance – Seed Funding, Venture Capital Funding, Bank Funding, Lease Financing. Funding opportunities and Institutional Support in India.

Text Books

- Arya Kumar, Entrepreneurship, Pearson, Delhi.
- Poornima M.CH., Entrepreneurship Development –Small Business Enterprises, Pearson, Delhi.
- Anil Kumar, S., et.al., Entrepreneurship Development, New Age International Publishers, New Delhi.
- A.Sahay, M. S. Chhikara, New Vistas of Entrepreneurship: Challenges & Opportunities,
- Rajeev Roy, Entrepreneurship, Oxford, New Delhi.
- Fundamentals of Entrepreneurship and Project Planning: Jaiswal Bimal, et.al.

Web References

- <https://www.entrepreneur.com/>
- <https://www.econlib.org/library/Enc/Entrepreneurship.html>
- <https://www.oberlo.in/blog/what-is-entrepreneurship>
- <https://www.ownr.co/blog/what-is-entrepreneurship/>

Fundamentals of Personal Finance

Credit : 04

T: 4 Lectures per week

Course Outcome:

At the end of the course, students will be able to:

- Analyse the process of making personal finance decisions, making strategies for living and achieving personal finance goals
- Understand the concept of consumer credit, its importance and use in managing personal finance.
- Understand various investment options so that earnings and savings can be smartly managed.

Unit-I

Basics of Personal Finance: meaning, definition, need, importance; understanding the effect of time & compounding on value of Money and Wealth Creation; Approaches to Personal Financial Planning; Understanding the financial planning process of an individual; Financial decision based on life stages of a person; Factors affecting personal financial planning; Preparation of personal financial statements & Personal Budget; Personal Tax management; Principles for Wealth Building; Personal Financial management & Career planning.

Unit-II

Personal Credit Management: Understanding Risk in managing credit, Types of financial risks involved in personal financial planning, Importance of Risk returns trade-off in personal finance management, Consumer credit- meaning, importance, Types of credit – open ended and close ended credit; Sources of consumer credit; Consumer complains & consumer protection.

Unit-III

Insuring against Risk to Personal Resources: Need for insuring personal resources, importance of insuring personal resources, its advantages & disadvantages; Insuring Life: meaning, purpose of life insurance, need for insuring life, types of policies offered; Insuring Property, Home insurance, Vehicle insurance, Health insurance.

Unit-IV

Investment of Financial Resources: Personal investment plan, Factors affecting choice of investment, Sources of investment information for personal finance, Exploring Investment Alternatives for personal finance: Marketable or Tradable securities, Tangible and Intangible assets; investing personal savings in Bank & Post deposits; Investing in Real Estate; Investment in Collectibles.

Unit-V

Planning for Safe Financial Future after Retirement: reasons for retirement planning, planning for retirement income, early retirement plan; Estate Planning: meaning of estate planning, need for estate planning, Wills: meaning of will, preparation of Will, Types of Will.

References:

Text Books:

1. Jack Kapoor, Les Dalbay, Robert J. Hughes- Personal Finance
2. Bimal Jaiswal & Leena S. Shimpi- Personal Finance Decision

Suggested Readings:

1. M. W. Shaikh - Personal Finance
2. R.N. Lokatia - Tax smart personal investment A-Z
3. A. I. Keown - Personal Finance

Web References:

1. <https://www.edx.org/professional-certificate/mx-personal-finance>
2. <https://www.edx.org/course/introduction-to-investments>
3. <https://www.edx.org/course/finance-for-everyone-smart-tools-for-decision-ma-2>
4. <https://www.open.edu/openlearn/money-management/free-courses>
5. <https://alison.com/course/financial-literacy>
6. <https://core.ac.uk/download/pdf/80993438.pdf>
7. <https://open.umn.edu/opentextbooks/textbooks/31>
8. https://ncert.nic.in/docs/pdf/finance_reading_mate.pdf

G.S.T. CONCEPT AND PRACTICE

Credit - 4

Course Outcomes: The students will be able to:-

- Learn the concept of Indirect tax from Pre-GST period to Post-GST period.
- Understand the difference between forward charge, reverse charge mechanism and the difference between composite and mixed supply.
- Know the contents and format for various documents like tax invoice, bill of supply, debit note, credit note etc.
- Record and analyze the transactions for compliance under GST.
- Understand the procedure for registration, payment and refund of GST as well as mechanism to determine it.

Unit-I : Concept and types of Indirect Tax; Right to impose indirect tax by Centre (Union)/State and Union Territory Governments before and after 101st Amendment of the Constitution of India; Introduction of GST in India.

Unit-II : Definition - Supply, Aggregate Turnover, Person, Business, Appropriate Government, Mixed Supply, Composite Supply, GSTN, GSTIN, E-Commerce Input Tax Credit etc. GST Models: Single GST & Dual GST; Types of GST:- CGST, SGST/ UTGST, IGST ; Levy and Collection of GST.

Unit-III : Reverse Charge Mechanism, Composition Scheme and assessment under composition scheme; Zero rated supply; Exemption from GST, GST tax rate, Input Tax Credit (ITC).

Unit-IV : Registration under GST : Persons liable to get registered, Compulsory Registration, Registration Procedure, GST council.

References :

Text Books

1. Shukla, S.K. : GST in India (Hindi & English)
2. Taxmann's : Goods and Service Tax (Hindi & English)
3. Hiregange, Madhukar N : Compendium of Issues and Solutions in GST
4. Garg, Rakesh & Garg, Sandeep : Handbook of GST – Procedure, Commentary & Rates.

Suggested Readings

1. Goods and Service Tax Act, 2017
2. Taxmann's : GST Ready Reckner

Semester 4

VC2: Role Play and Simulation

Total Session: 40

Course Outcome: To learn about industry working and daily facing situations in various departments. The subject provide command and knowledge to deal the situation in various hierarchy of management. Student will learn situation handling at various levels through simulation.

UNIT I

Role play and simulation: Introduction of role play and simulation, difference between role play and simulation, Introduction of hierarchy in organization and their roles

UNIT II

Role play and simulation: Maslow Theory, Herzberg Two Factor Theory, Johari Window Model: accommodating with real life examples, cases and videos.

UNIT III

Instructional strategies: Role play, simulations and live events at operational level, middle level and higher level, facilitating and debriefing simulation games: facilitator role

UNIT IV

Role play and simulation: The future of simulation games: issues and challenges, coping change management, Coping with emerging and instant situations,

Reference:

1. Riis, J. O. and Smeds, R. (1998), The Future of Simulation Games and Challenges, Chapman & Hall
2. Robins, S. P., Judge, T. A. and Vohra, N. (2018)Organizational Behaviour, Pearson Education, 18th Edition
3. Law, Averill M. (2014), Simulation Modeling and Analysis (IRWIN INDUSTRIAL ENGINEERING), McGraw-Hill Education, 5th Edition
4. Gibson, David (2006), Games And Simulations in Online Learning: Research and Development Frameworks, IGI Global, 1st Edition