

*An Autonomous Institution, Re-Accredited by NAAC at an 'A' Grade, *ISO 9001 : 2015 Certified*



(2020 - 2021)

CRITERION I

CURRICULAR ASPECTS

1.3.1: Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Supporting Documents

Submitted to

THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)



	VI SEM	ESTER	
DSE IV(A)	WOMEN WRITING IN ENGLISH4Hrs/ Sem: 60Hrs/ Unit: 12		18UEEN6A
Hrs/ Week: 4			Credits: 4

UNIT I - PROSE

1.ProfessionsforWomen 2. The World is Becoming a Toxic Garbage Dum - Maneka Gandhi **UNIT II - POETRY**

- 1. Dignity
- 2. Women's Work

UNIT III - POETRY

- 1. Lot's Wife
- 2. Poem

UNIT IV - SHORT STORIES

1. The Story of an Hour

2. The Finest Story in the World

UNIT V - NOVEL

And Then There Was None **TEXTBOOKS**

- Virginia Woolf
- BilgeesZafirul Hasan
- Julia Alvarez
- Kristine Beatty
- Prathibha Nandakumar
- Kate Chopin
- Annie Saumont
- Agatha Christie

1. Jayakumar, Anandhi. The Flights of Fancy. Chennai: SciTech Publications

- (India) Pvt.Ltd. 2010
- 2. Christie, Agatha. And Then There Was None. New York: Harper Hollin's publishers, 2011.
- Annapoorni S.and V.BharathiHarishanker. Ed. Shifting Perceptions: An 3. Anthology of Women's Writing. Chennai: Main Spring Publishers, 2016

REFERENCE BOOK

1. Tharu and Lalitha K, ed. Women Writing in India. New Delhi:Oxford University Press, 2006.



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	IV SEME	STER	
DSC-14	FEMINIST	WRITING	18PCEN42
Hrs./Week:6	Hrs./Sem.: 90	Hrs./Unit:18	Credits:4
Unit I THEORIES			
Gayathri Spivak	Can the Su	baltern Speak?	Variation 1 min
Elaine Showalter	Towards F	eminist Poetics	
Unit II POETRY			
Sylvia Plath	Daddy		
Kamala Das	Forest Fire	, The old Playhouse	Varratos star
Maya Angelou	Still I Rise		
	Caged Bird		
Margaret Atwoo	d Journey to	the Interior	

A Sad Child

Unit III PROSE

Virginia Woolf Doris Lessing

A Room of One's Own Nobel Prize Acceptance Speech

Unit IV DRAMA

George Ryga

The Ecstasy of Rita Joe

Unit V FICTION

Kate Grenville

The Secret River

TEXTBOOKS:

- 1. Ryga, George. George Ryga's The Ecstasy of Rita Joe. Vancouver: Talonbooks, 1970.
- 2. Rice, Philip and Patricia Waugh. Modern Literary Theory: A Reader. London: Arnold, 2001.
- 3. Grenville, Kate. The Secret River. Edinburgh: Canongate, 2006.



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	IV SEM	ESTER	
DSE – II B		DIES IN INDIA	10HEHOAD
Hrs/Week:4	II / C		18UEHS4B
OB IECTIVES.	Hrs/ Sem: 60	Hrs/ Unit: 12	Credits: 4

- > To make the students understand the need for change among the women.
- To make them understand the need for the empowerment of women and realization of that goal.
- > To understand the various reasons for the secondary status given to the Indian women.
- To estimate the contributions made by pioneering Indian women leaders in uplifting the women folk.

UNIT I Basic Concepts & Theories:

Defining Gender - Patriarchy: Ideology & Practice - Relationship between Gender, Caste, Class, Religion & Politics

UNIT II

Emergence of Women Studies in India

UNIT III Gender & Social History:

Family & Marriage - Women's Question in the 19th century - Women's Movement in Colonial & Post-Colonial in India

UNIT IV Gender, Law & Politics:

Political participation -Violence against women &Preventive laws

UNIT V Gender, Development & Culture:

Issues of labour & Health - Access to resources - Gender audit

REFERENCE BOOKS

- 1. Kamla Bhasin, Understanding Gender
- 2. Kamla Bhasin, what is Patriarchy?
- 3. Madhu VIJ, et al, Women Studies in India, A journey of 25 Years, Rawat, 2014
- Kumkum Sangari& Sudesh Vaid, Recasting Women, Essay in Colonial History, Kali for women, Reprint, 2006
- Sushila Kaushik, Panchayati Raj in Action: Challenges to Women's Role, Delhi, 1996
- 6. Nivedita Menon, Gender & Politics in India, New Delhi, OUP, 1999
- Women in Print –The change over the last half century in reporting on women &Gender Issues in Indian newspapers, A study by UNIFEM, by Shri Venkatram,2003



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	II SEME	ESTER	
VE1	VALUE EDUCATION – I Hrs/ Sem: 30 Hrs/ Unit: 6		18USVE21A Credit: 2
Hrs/ Week: 2			

Objectives:

> To inculcate moral values in the minds of students.

> To teach ethical practices to be adopted by students in their life.

> To make students honest and upright in their life.

UNIT I:

Islam – Meaning – Importance – A complete Religion – The religion accepted by God – Five Pillars of Islam – Kalima – Prayers – Fasting – Zakat – Haj.

Iman – Monotheism – Angels – Books – Prophets – Dooms Day – Life after death – Heaven and Hell.

UNIT II:

Quran – The Book of Allah – Wahi – Revelation to Prophet Muhammad(sal) – Compilation – Perseverance – Structure – Content – Purpose – Source of Islamic Law– Sura Fathiha, Kafirun, Iqlas, Falakh and Nas.

UNIT III:

Hadith – Siha Sitha – Buhari – Muslim – Tirmithi – Abu Dawood – Nasai – Ibn Maja – Collection of Hadith – Meaning of 40 Hadith. **UNIT IV:**

Life History of Prophet Muhammad (sal) – Aiamul Jahiliya – Prophet's Childhood and Marriage – Prophethood – Life at Mecca – Life at Medinah – Farewell Address – Seal of Prophethood.

UNIT V:

Good character – Etiquettes – Halal and Haram – Duties towards Allah – Duties towards fellow beings – Masnoon Duas.

- 1. V.A. Moahmed Ashrof Islamic Dimensions Reflection and Review on Quranic Themes.
- 2. The Presidency of Islamic Researchers Revised & Edited The Holy Quran.
- 3. M. Manzoor Nomani Islamic Faith & Practice.
- 4. Abdul Hasan Ali Nadvi Muhammad Rasulullah.
- 5. K. Ali A Study of Islamic History.
- 6. Abdul Rahuman Abdullah Islamic Dress code for Women.
- 7. Dr. Munir Ahamed Mughal Code for Believers.
- 8. Abdul Malik Mujahid Gems and Jewels.



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	II SEME	ESTER	
VE2	VALUE EDUCATION - II		18USVE01D
Hrs/ Week: 2	Hrs/ Sem: 30		18USVE21B
UNIT I:		Hrs/ Unit: 6	Credit: 2

Individual Morality – Objective of Moral life – Living in accordance with the code of Morality – the goodness of Morality – Morality and *Thirukural*-The need for faith.

UNIT II:

Adherence to higher code of Morality – Fear of God – Good Moral Values – Duty to Parents – Teacher, respecting elders – Moral Etiquettes – Right-minded Principle – High Principles for Proper conduct.

UNIT III:

Inculcating good attitudes – Open mindedness – Morale – analysing the pros and cons of good and bad – Service to others – Mind Power, tolerance, respecting others, showing love to others, patience – tranquility – Modesty, kindness and forgiveness.

UNIT IV:

Quotations and moral Stories expressing Good characters of Great personalities – Life History of Great people: Mahatma Gandhi, Abraham Lincoln, Dr. A.P.J. Abdul Kalam.

UNIT V:

Truth, the importance of uprightness, integrity, friendship – Health awareness on Alcohol and drug abuse – inculcating reading habit – reading good books – Hygiene – Dowry – Corruption.

TEXTBOOK:

Publication of Sadakathullah Appa College.



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	I SEMI	ESTER	
EVS	ENVIRONME	NTAL STUDIES	18UENS11
Hrs/ Week: 2	Hrs/ Sem: 30	Hrs/ UNIT: 6	Credits:2
sustainable develop Lithosphere, Biospher gas Tragedy, Fukushi UNIT II: Natura Renewable and No > Forest resource Water resource water - Rain h > Marine Resource using mineral	ment - Environment re - definition. Pollution ma. Stone leprosy in Taj 1 Resources on-Renewable resources ces: Use and over - exploit es: Use and over - utilization es: Use and over - utilization rces: Fisheries and Coral rces: Use and exploitation	- classification. Itation, Afforestation and de ation and conservation of s reefs. on - environmental impacts	re, Hydrosphere, Jagasaki, - Bhopal forestation. urface and ground

Concept of Eco-systems - Tropic level, food chains, food web and Ecological pyramids, Living conditions on other planets (Brief account). Types, structure & Functions of the following:

- a) Aquatic ecosystem
- b) Grassland ecosystem
- c) Forest ecosystem
- d) Desert ecosystem

Biodiversity & Its Conservation UNIT IV:

Introduction - Definition: ecosystem diversity, species diversity and Genetic diversity. Hot spots of biodiversity - Western Ghats, Eastern Himalayas and Gulf of Mannar. Threats to biodiversity - Habitat Loss, Poaching of wildlife and Man - wildlife conflicts.

Conservation of biodiversity: In-situ and Ex-situ.

Environmental Pollution UNIT V:

Sources, effects, prevention and control measures of the following.

- a) Air pollution: Composition of clean air, Global warming, Ozone layer depletion.
- Water Pollution: Fresh water and Marine water. b)
- Noise Pollution C)
- Soil pollution d)

Biodegradable and Non-Biodegradable wastes; Environmental Acts

- Air (prevention & Control of Pollution) Act. >
- Environmental Protection Act
- Water (Prevention & Control of pollution) Act >
- Environmental movements Green peace and Chipco movement. >
- Role of Central & State pollution Control Boards.

REFERENCE BOOKS:

- 1. Basic of Environmental Science. Vijayalakhmi, Murugesan and Sukumaran -Manonmaniam Sundaranar University publications.
- 2. Environmental Studies. John de Brito, Victor, Narayanan and Patric Raja published by St. Xavier's College, Palayamkottai, 2008.
- and Murugesan Science and Biotechnology. A.G. 3. Environmental C. Raja Kumar - MJP Publishers.
- 4. Fundamental of Environmental pollution Krishnan Kannan Chand & Company Ltd., New Delhi, 1997.

Environmental Studies. S. Muthiah, Ramalakshmi publications, Tirunelveli. 5. Environmental Studies. V.M. Selvaraj, Bavani Publications, Tirunelveli. 6.

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	II SEMESTE	ER	25
DSC 4	ECOLOGY AND EVOLUTION		18UCZ022
Hrs/Week: 4	Hrs/Sem: 4 x 15 = 60	Hrs/UNIT:12	Credits:4

Objective:

To understand the principles and applications of Ecology to know the origin of species.

UNIT - I Ecology and Environmental Science

Ecology and Environmental Science – Definition - Scope – Branches – Abiotic factors –Water, Temperature and Light. Biotic factors – Animal relationship – Symbiosis – Commensalism – Mutualism – Antagonism – Antibiosis – Parasitism and its types and adaptations-Predation – Competition

UNIT - II Ecosystem

Ecosystem -Definition Structure - Pond ecosystem - Primary production - Secondary production -Food chain - Food web - Trophic levels - Energy flow - Pyramid of biomass - Pyramid of energy

UNIT - III Community & Population Ecology

Community Ecology: Characteristics, types and patterns of Ecological succession.

Population Ecology – Definition – Density – Estimation –Natality – Mortality – Age distribution - Age pyramids – Population growth and Population equilibrium.

UNIT IV Theories of Evolution

Lamarckism, Darwinism, Neo-Lamarckism, Neo-Darwinism, Mutation theory of De Vries and Modern synthetic theory.

UNIT V Variation and Human evolution

Variation-sources of variability – mutation, recombination & hybridization -Population genetics-Hardy-Weinberg law, isolating mechanisms: Speciation. Human evolution (fossil evidences only) Mimicry and Colouration.

TEXTBOOKS:

- 1. P.S.Verma, V.K.Agarwal. Environmental biology, S. Chand & Co. New Delhi.
- TEXTBOOK of Ecology & Animal Distribution by P.S. Verma V.K. Agarwal S. Chand & Co. New Delhi.
- Veer Bala Rastogi. Organic Evolution-2014. Kedar Nath Ram Nath Educational publications.

- Odum, E.P., 1971 Fundamentals of Ecology., W.B. Saunders Company, Philadelphia.
- 2. Clarke.G.L (1954) Elements of Ecology, John wiley & Son Inc. New York.
- 3. Ananthakrishnan, T.N and S. Viswanathan Principles of Animal Ecology
- 4. Koromondy E.J.(1976) Concepts of Ecology Meeven.
- 5. Kendeigh, S.C., 1961 Animal Ecology, Prentice Hall
- Rastogi, V.B. and M.S. Jayaraj, 1989 Animal Ecology and distribution of animals, Kedarnath Ramnath.



	II SEME	ESTER	
DSE-2A			18PEEN2A Credits:4
Hrs./Week:4			

Unit I POETRY William Wordsworth Robert Frost Sarojini Naidu Joy Harjo Alison Hawthorne Deming

Unit II POETRY

Dylan Thomas Rudyard Kipling Emily Dickinson John Keats Daffodils Stopping by a Woods on a Snowy Evening The Bird of Time Remember Human Habitat

Fern Hill The Way through the Woods There is Another Sky To Autumn

Unit III PROSE

Introduction to Eco-Criticism (From Beginning Theory) By Peter Barry

Unit IV SHORT STORIES

John Steinbeck Hemingway Anton Chekhov Doris Lessing Chrysanthemums Snows of Kilimanjaro A Day in the Country A Mild Attack of Locusts

Unit V FICTION

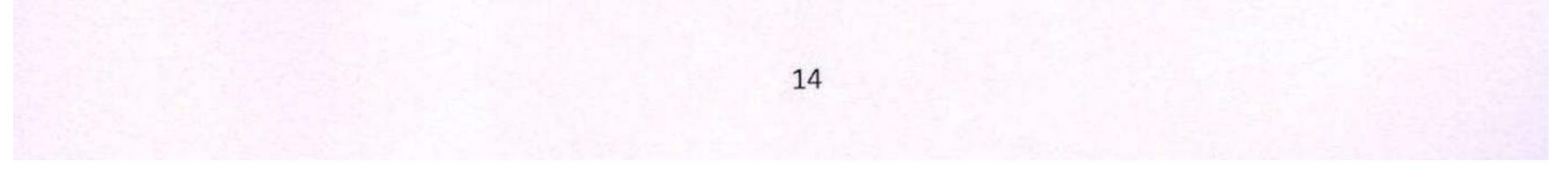
Amitav Ghosh

The Hungry Tide

TEXTBOOKS:

Barry, Peter. Beginning Theory: An Introduction to Literary and Cultural Theory.
 2nd ed. New Delhi: Viva books, 2008.

2. Ghosh, Amitav. The Hungry Tide. Boston : Houghton Mifflin, 2005.



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	III SEMI	ESTER	
DSE 1A	POLYMER CHEMISTRYHrs / Sem: 60Hrs / Unit: 12		18UECH3A Credit: 4
Hrs / Week: 4			

UNIT I - Polymer and its types

Polymer- Natural and synthetic polymers - General characteristics of a polymer - Distinction among plastics, elastomers and fibres. Homo and heteropolymers. Copolymer - tacticity - isotactic, atactic and syndiotactic polymers - Functionality - Linear, branched and cross linked polymers -Plastics, Thermosetting and thermoplastics - Types of polymerization addition, condensation and copolymerization (Mechanism not required).

UNIT II - Methods of polymerization and synthesis of some important polymer

Methods of polymerization - bulk, suspension, emulsion and solution polymerization

Synthesis, properties and applications of Phenol - formaldehyde resin, Melamine - formaldehyde resin, Polyurethanes, Polycarbonates, Natural rubber, Vulcanization of rubber, synthetic rubber - styrene rubber, nitrile rubber and neoprene rubber

UNIT III - Synthetic polymers

40

Synthesis, properties and application of - Polyethylene - HDPE, LDPE, LLDPE - Polypropylene - Polyvinyl chloride - grades of PVC - Teflon, Polymethylmethacrylate (plexiglass) - Polyamide - Nylon 6, Nylon 66, Cellulose acetate and Cellulose nitrate.

UNIT IV – Physical states and biomedical applications of polymers

Synthesis of intermediates - Terephthalic acid, Caprolactum and Hexamethylenediamine - Molecular mass - number average, weight average, viscosity average molecular mass - Determination of molecular mass by viscosity and light scattering method - practical significance of molecular mass distribution - size of polymers. Kinetics of free radical polymerization -Carother's equation - Bio - medical applications of polymers.

UNIT V – Properties and processing of polymers

Glassy state - glass transition temperature, factors affecting glassy state - crystallinity in polymers, viscosity, solubility, optical, electrical, thermal and mechanical properties of polymers. Degradation of polymers by thermal, oxidative, mechanical and chemical methods - Polymer processing -Compression moulding, injection moulding, transfer moulding.

- 1. Polymer science V.R Gowarikar, N.V Viswanathan and J. Sreedhar 2000; New Age International (P) Ltd., New Delhi.
- 2. TEXTBOOK of polymer science F.W. Billmeyer.1984; A Wiley-Interscience Publication, John Wiley & Sons New York.
- 3. TEXTBOOK of polymer science P.L. Nayak& S. Lenka, 2000; Kalyani publishers, New Delhi.





III SEMESTER Part IV - Non Major Elective					
NME-I	WATER MANAGEMENT		18UNCH31		
Hrs / Week: 2			Credit:2		

UNIT I: WATER POLLUTION

Definition - sources of water pollution - types of water pollutants: sewage and domestic wastes, industrial effluents, agricultural discharges, detergents, disease causing agents and radioactive materials. Eutrophication and its effects.

UNIT II: WATER QUALITY PARAMETERS

Physical, Chemical and biological water quality parameters - water quality standards for drinking water - BIS, ICMR and WHO. Determination of pH, Total hardness, TDS, DO, BOD and COD.

UNIT III: WATER PURIFICATION

Purification of water: Sedimentation, Filtration, disinfection, water softening permutit process, ion - exchange process, reverse osmosis.

UNIT IV: WASTE WATER TREATMENT

Elementary ideas of waste water treatment: pre - treatment - primary

treatment - secondary treatment, Trickling and activated sludge process - tertiary treatment: evaporation, adsorption - clinical precipitation

UNIT V: RESTORATION AND MANAGEMENT

Importance of lakes and rivers - stresses on the Indian rivers and their effects - A restoration case study: Ganga Action plan: objectives implementation and drawbacks. Rain water harvesting - water recycling - The water prevention and control Pollution Act 1974.

- 1. Environmental Chemistry, A.K. De, Wiley Eastern Ltd. New Delhi
- 2. Environmental Chemistry, B.K. Sharma, Geol Publishing House, Meerut.
- 3. Chemical and Biological methods for water pollution Studies, R.K. Trivedy and P.K. Geol Environmental Publications, Karad, India.
- 4. BIS 1991, Specification for drinking water, Bureau of Indian Standards, New . Delhi
- 5. WHO 1992, International standards for Drinking water, World Health Organisation, Geeneva.
- 6. Environmental Science and Biotechnology Theory and Techniques A.G. Murugesan, C. Rajakumari, MJP Publishers, 2005.





51

IV SEMESTER				
DSE 2A	CHROMATOGRAPHY		18UECH4A	
Hrs / Week: 4	Hrs / Sem: 60	Hrs / Unit: 12	Credit: 4	

UNIT I - Basic Concepts of chromatography:

Introduction - Classification based on principle - Adsorption Chromatography methods - Column Chromatography - Principles, experimental procedures, stationary and mobile phases, Choice of Solvent Systems based on polarity, Separation techniques. Applications

UNIT II - Paper Chromatography

Principle, Revalues, Factors affecting Rf values, Experimental procedures, Choice of paper and solvent systems, developments of chromatogram. Detection of the spots. Ascending, Descending and Radial Paper Chromatography, Two Dimensional Chromatography – Applications – separation of amino acids from a mixture.

UNIT III - Thin - Layer Chromatography

Principle - Experimental Procedures.Choice of adsorbents and Solvents.Preparation of plates. Development of the Chromatogram.Detection of the spots.Advantages of thin Layer Chromatography over paper chromatography. Applications- Characterizing and isolation of organic compounds- Alcohols, Alkaloids, Amines, Amino acids and antibiotics.

UNIT IV - Ion Exchange Chromatography

Principle, ion exchange resins and their types - cation exchange resins, anion exchange resins, ion exchange equilibria, properties of ion exchange resins, ion exchange capacity, techniques - applications of ion exchangers- removal of interfering radicals-separation of similar ions from one another, lanthanides, sugars and amino acids.

UNIT V - High Performance Liquid Chromatography

Introduction, Instrumentation, Stationary and Mobile Phases.Mobile Phase - Composition.Column - Preparation, Cleaning - regeneration and Storage Conditions.Retention time - Types of HPLC.

- Fundamentals of Analytical Chemistry D.A. Skoog, D.M. West, F.J. Holler and S.R. Crouch 2004; Thompson Asia Private Ltd., Bangalore.
- Instrumental Methods of Analysis B.K. Sharma, 2003; Goel publishing House, Meerut, India.
- 3. Contemporary Chemical Analysis Judith F. Rubinson, Prentice Hall (India).
- 4. An introduction to Chromatography H. Kaur, 2001: Pragati Prakashan, Meerut, India.
- Laboratory Manual for Analytical Biochemistry & Separation Techniques P. Palanivelu, 2000: School of Biochemistry, MK University, Madurai
- Instrumental Methods of Chemical Analysis, Gurdeep R. Chatwal and Sham Anand, 1997, Himalaya Publishing House, Mumbai.



	IV SEMI	ESTER	Come of the second s
DSE 2B	DAIRY CH	EMISTRY	18UECH4B
Hrs / Week: 4	Hrs / Sem: 60 Hrs / Unit: 12		Credit: 4

UNIT I: PROPERTIES OF MILK

Milk – definition - composition - physico chemical properties – colour, odour, acidity, specific gravity, conductivity of milk – Indian standards of milk.Factors affecting composition of milk - food and nutritive value.Physico-chemical properties of milk constituents – water, fat, proteins, lactose and mineral matter.Action of milk on metals. Flavour defects in milk - their causes and prevention - uses of milk. Estimation of fat, acidity and total solids in milk.

Adulterants in milk – definition, common adulterants and their detection. Preservatives in milk – definition, common preservatives and their detection.Neutralizers in milk – definition, the different types of neutralizers and their detection.

UNIT II: MICROBIOLOGY OF MILK

Introduction, growth of micro-organisms, destruction of microorganisms – heat treatment, use of ionizing radiation, electricity, high frequency sound waves and application of pressure. Pasteurization – definition, objectives and requirements of pasteurization. Methods of pasteurization – in-the-bottle pasteurization, batch / holding pasteurization or Low-Temperature – Long Time pasteurization (LTLT), High Temperature – Short Time pasteurization (HTST), Ultra-High Temperature pasteurization (UHT), Uperization (Ultra-pasteurization), vacuum pasteurization (vacreation) and stassanization. Dairy detergents – definition – desirable properties, different types, cleaning and sanitizing procedure, cleaning-in-place (CIP).Sterilizers – definition – desirable properties – cleaning and sterilization of dairy utensils – Chloramine – T and hypo chlorite solution.

UNIT III: SPECIAL MILKS

Sterilized milk – definition, requirements, advantages and disadvantages and method of manufacture. Homogenized milk – definition, merits and demerits method of manufacture.

Flavoured milks – definition, purpose, types of flavoured milks, method of manufacture. Chocolate flavoured milk and Fruit flavoured milk. Vitaminized milk – definition, purpose Standardized milk – definition, merits, method of manufacture. Toned milk (single and double toned milk) – manufacture. Humanized Milk.

Dried milk: Definition, composition, objectives of productions principle involving in manufacture, food and nutritive value, role of milk constituents, keeping quality.

Condensed Milk: Definition, composition, objectives of productions principle involving in manufacture of condensed milk (flow chart and explanation) - uses of condensed and evaporated milk. Types of condensed milk – plane condensed milk, super heated condensed milk, frozen condensed milk.



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	IV SEMES	STER	
SBE 2	MEDICINAL BO HORTICUL	양성을 전망 입지 않는 것이 아파	15UZOS41
Hrs/Week: 3	Hrs/Sem: 3x15=45	Hrs./UNIT: 9	Credit: 2

Objectives:

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- To know about the values of ethnomedicine.
- To identify and classify the common medicinal plants.
- To enable the students to know about the latest Horticultural Techniques and to enrich themselves on the modern developments in ornamental garden.

UNIT I

Introduction to Herbal Medicine. Traditional systems of medicines: Ayurvedic, Homeopathy, Siddha and Unani. Traditional knowledge on medicinal plants and conservation of medicinal plants. UNIT II

Classification of medicinal plants - Based on Morphology of plant parts used, Active Principles and Tehrapeutic Values. **UNIT III**

Study of the following medicinal plants with reference to morphology of the plants – Botanical name, Common name, Active Principle and its Therapeutic Value – Ginger, Fenugreek, Coleus, Vetiver, Phyllantus and Asafoetida.

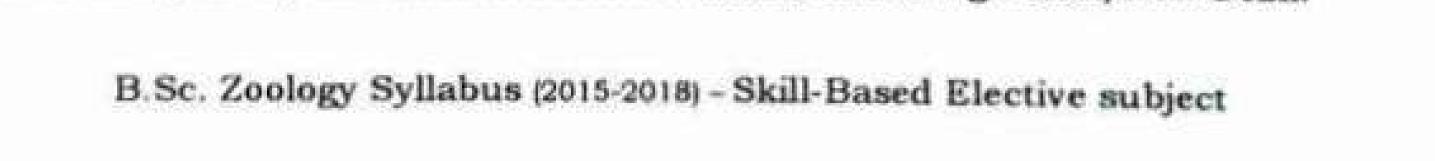
UNIT IV

Introduction to horticulture - Importance and Division. propagation of horticultural crops - cutting, Grafting, Budding and Layering.

UNIT IV

Importance, Principles and designs of ornamental garden layout and components of ornamental garden - Lawn, Indoor gardening and rockeries, Bonsai and Hanging pots, Flower arrangement.

- Craker, Lyle. E, 1988, Herbs, Spices & Medicinal plants: Recent advances in Botany, Oryx Press, Phoenix, Arizonal.
- Vijay Verma 2008, Dictionary of medicinal plants, Anmol publication. New Delhi.
- M.I.H. Farooqi, 2004, Medicinal plants in the traditions of prophet Mohamed: Scientific study of prophetic medicine, Vedoms Books (P) Ltd. Sidrab Pub. Lucknow.
- Walter H. Lewis et al. 2003, Medical botany plants affecting human health 2nd Edition, Wiley publishers, New York.
- Kokate. C.K., Purohit, A.P. Gokhale, S.B, 2007, Pharmacognsy, Nirali Prakashan Publishers, Pune.
- Jyothiprakash E.J, 2006, Medicinal botany and pharmacognosy, Emkay publishers, New Delhi.
- Edmund Senn, Andrew, Halfacre, 1977, Fundamentals of horticulture, Tata McGraw-Hill, New Delhi.
- 8. Manibhusan Rao, K, 1991, Text book of Horticulture, McMillan India, New Delhi.
- 9. Kumar, 1987, Introduction to Horticulture, Rohini Agencies, New Delhi.



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IV SEMESTER			
DSE - 2A	MUSHROOM CULTURE		18UEBT4A
Hrs / Week: 4 Hrs / Sem: 4 x 15 = 60 Hrs / Unit: 12		Credits:4	

Objectives

To enable the students

- Ye To know the various types of edible mushrooms and their nutritional value.
- To understand the method of cultivation of edible mushroom and spawn production.

UNIT - I

Introduction - History - Scope & Importance of edible mushroom cultivation - Types of Edible & Poisonous mushrooms in India.

UNIT - II

Spawn preparation: Preparation of pure culture, media used in raising pure culture, Culture maintenance, Facilities required for spawn preparation, Preparation of spawn substrate, storage of spawn...

UNIT - III

Cultivation technology of Oysters, Button and Milky mushrooms (Mass cultivation), Storage of mushroom.

UNIT - IV

Nutrient Profile of Mushrooms. Problems encountered in mushroom cultivation techniques and its commercial exploitation.

UNIT - V

Mushroom Recipes: Preparation of various dishes like Mushroom Sabji, Mushroom Achar, Mushroom khir, Mushroom soup, Mushroom Pakoda, Mushroom Papad. Cutlet, Omelette Samosa, Curry, Soup Powder and Idly chutney powder.

Field visit to Mushroom farm and Oneday Training on Mushroom cultivation.

TEXTBOOK:

Nita Bahl (1984-1988) Hand book of Mushrooms, II Edition, Vol. I & Vol. II.

REFERENCES:

- Marimuthu, T. Krishnamoorthy, A.S. Sivaprakasam, K. and Jayarajan. R (1991) Oyster Mushrooms, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore.
- Swaminathan, M. (1990) Food and Nutrition. Bappeo, The Bangalore Printing and Publishing Co. Ltd., No. 88, Mysore Road, Bangalore - 560018.
- Paul Stamets, J.S. and Chilton, J.S. (2004). Mushroom Cultivator: A practical guide to growing mushrooms at home, Agarikon Press.
- Shu-Ting Chang, Philip G. Miles, Chang, S.T. (2004). Mushrooms: Cultivation, nutritional value, medicinal effect and environmental impact, 2nd ed, CRC press.



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47

IV SEMESTER			
DSE - 2B	ORGANIC FARMING		18UEBT4B
Hrs/ Week: 4	Hrs / Sem: 4 x 15 = 60	Hrs/ Unit: 12	Credits:4

Objectives

To enable the students

- To learn the definition of organic farming.
- To know the various types of organic farming and their importance.
- To learn the production of various organic farming.

UNIT I

Soil Science, Brief Account of Soil Profile; Fertility of Soil – Importance of Organic Matter – Water Retentivity and Aeration of Soil.

UNIT II

Organic Manure, Types, Animal Wastes - Cattle Dung, Urine, Poultry Wastes, Slaughter Wastes, Piggery and Fishery Wastes.

UNIT III

Plant wastes - Fallen leaves and Twigs - Humus Formation, Green Manuring - Mulching - Leaves of Trees like Pongamia, Gliricidia, Azadirachta, Calotropis - Compost making.

UNIT IV

Biofertilizers: Rhizobium-Importance, Mass Production and Application, VAM Fungi - Mass production and Applications.

UNIT - V

Vermicomposting - Importance, Application and Production of Vermicompost; Preparation and importance of Panchagavya foliar spray.

- Dubey, R.C. 2006, A TEXTBOOK of Biotechnology, S. Chand and Company Ltd. New Delhi.
- ICAR, 1980. Handbook of Agriculture, Indian Council of Agricultural Research, New Delhi.
- John Jothi Prakash, E. 2006. Outlines of Biotechnology. Emkay Publications, New Delhi.
- Mark Coyne, 2004. Soil Microbiology- An Exploratory Approach. Delmar Publishers, Singapore.
- Miller, C.E. and Turk, L.M. 2002. Fundamentals of Soil Science. Biotech Books, New Delhi.



	III SEMESTI	ER	
AII -1	4PLANT DIVERSITY & PLANT PATHOLOGY4Hrs/Sem: 4 x 15 = 604Hrs/UNIT:12		18UABT31
Hrs/Week: 4			Credits: 3

Objectives: To enable the students

- To have a general understanding about the diverse group of plants and observe the variations among the plants.
- > To identify the different plantsby morphological and anatomical atudies.
- To have a comprehensive knowledge of Algae, Fungi, Bryophyte, Pteridophytes, Gymnosperms and Angiosperma.

UNIT I - Algae & Fungi

Algae – General characters of algae:structure, reproduction & life cycle of Sargassum. Economic importance of algae. Fungi - General characters of fungi:structure, reproduction & life cycle ofAlbugo. Economic importance of fungi.

UNIT II - Lichens andBryophytes

General characters of lichen – Types – Crustose, Foliose, Fruiticose. Bryophytea- General characters of Bryophyte. Distribution, structure reproduction & life history of *Marchantia*-. Economic importance of bryophytes.

UNIT III - Pteridophytes & Gymnosperms

Pteridophytes- General characters, Structure, reproduction & life cycle of Lycopodium.Gymnosperms – General characters, Structure, reproduction & life cycle of Pinus. Economic importance of gymnosperms.

UNIT IV - Taxonomy

Brief account on Classification: Natural – Bentham & Hooker. Morphology and reproductive characters of flowering plants (Pyllotaxy and inflorescence). Study of the following families – Rutaceae, Asclepiadaceae, Euphorbiaceae, Poaceae.

UNIT V - Plant pathology

Introduction to plant pathology -Tikka disease of groundnut, Citrus canker, Bunchy top of banana, Red rot of sugarcane and Late blight of Potato - causal organism, symptoms, disease cycle and control measures. **TEXTBOOKS:**

- Pandey B.P. 2001. College Botany Vol. I: Algae, Fungi, Lichens, Bacteria, Viruses, Plant Pathology, Industrial Microbiology and Bryophyta. S. Chand & Company Ltd, New Delhi.
- 2. Vashishta, B.R. 2008. Botany for Degree Students Vol I Algae.
- Sethi, I.K. and Walia, S.K. 2011. TEXTBOOK of Fungi and Their Allies, Macmillan Publishers Pvt. Ltd. Delhi.

- Pandey B.P. 2001. College Botany Vol. I: Algae, Fungi, Lichens, Bacteria, Viruses, Plant Pathology, Industrial Microbiology and Bryophyta. S. Chand & Company Ltd, New Delhi.
- Parihar, N. S.2001. Bryophyta Central Book Depot Publications in Botany, Allababad
- 3. Vashista. B R.1997, The Algae, S. Chand & Co. Ltd... New Delhi
- 4. Pandey.B.P.1997 Taxonomy of Angiosperms S. Chand & Co., New Delhi.
- 5. Power, D. General Microbiology, 1986, Himalaya Publishing House, Bombay.
- Gangulee, Das & Datta, College Botany Vol 1,1986, New central book agency, Kolkata.
- 7. Vashishta, P.C., Sinha., A.K. Kumar, A., 2010. Pteridophyta, S. Chand, Delhi, India.



II SEMESTER			
C8	ANIMAL BIOTECHNOLOGY	15PZOC24	
Hrs / Week : 6	Hrs / Sem : 90 Hrs/ Unit : 18	Credit:5	

Objectives: Recent branch of biology explaining basic applications of recombinant DNA technology, gene transfer and transgenecity. Deals with applications of biotechnology in the field of medicine like cell culture, drug delivery systems and gene therapy; in industries, like production of biopolymers, biofertilizers, SCPs and GEMs.

UNIT I BIOTECHNOLOGICAL TOOLS AND TECHNIQUES

Definition - principles and methods of recombinant DNA technology -exonuclease, endonuclease -Source of Gene, genomic, cDNA libraries - rDNA strategy, selection, insertion, culture, recovery, screening; Insertional, blotting, PCR, DNA sequences. Plasmids -pBR322, Ti plasmid, bacteriophage, M13, cosmids, phasmids, yeast shuttle vectors, transposons, bacterial artificial chromosome.

UNIT II DNA TECHNIQUES

Gene and gene function - gene transfer system - transgenic animals production and application - animal bioreactors - targeted gene transfer; genome maps and human genome project - molecular markers - Restriction Fragment Length Polymorphism (RFLP) - Randomly Amplified Polymorphic DNA (RAPD) - Variable Number of Tandem Repeats (VNTR) - Short Tandem Repeats (STR), chromosome jumping - chromosome walking - DNA finger printing - DNA chip technology biosensors and their applications.

UNIT III GENETIC ENGINEERING FOR HUMAN WELFARE

Animal cell and tissue culture - mammalian cell lines and their characters media for the cultivation of mammalian cells - large scale cultivation of mammalian cells - cell culture products - organ culture technique - Somatic cell fusion and hybridoma technology - monoclonal antibodies production and applications - disease prevention, disease diagnosis and disease treatment - drug designing and drug delivery systems - gene therapy - pharmacogenetics and pharmacogenomics. In vitro fertilization and embryo transfer.



UNIT IV BIOTECHNOLOGY AND INDUSTRY

Industrial microbiology - isolation and screening of micro organisms - strain improvement - bioreactor - downstream processing - practical applications - antibiotic synthesis - Single Cell Proteins (SCP) and myco protein - production and application. Enzyme technology - immobilization of enzyme and its uses. Bioethics.

UNIT V ENVIRONMENTAL BIOTECHNOLOGY

Bioenergy – Biofuels - Biodiesel - Biogas production technology - biogas from waste water .Biopesticide, biofertilizer. Genetically Engineered Microbes (GEMS) - bioremediation, bioremediation for marine oil spills - types of bioremediation ,bioleaching; microbial degradation of xenobiotics.Short account on Synthetic biology

REFERENCE BOOKS:

- Dubey R.C. Text book of biotechnology, 2012. S.Chand & company Limited, New Delhi.
- 2. Gupta .P.K. Biotechnology and Genomics.2013. Rastogi Publications, Meerut.
- Atherly, Girton and McDonald, The Science of Genetics 1999. Harcourt College Publications.
- Singh B.D. Genetic Engineering and Animal Biotechnology, 2005. Kalyani Publishers, Chennai – 17.
- Kingsman,S.M and Kingsman,A.J. Genetic Engineering: An Introduction to Gene Analysis and Exploitation in Eukaryotes. 1988. Blackwell Science Inc Publications.
- 6. M. W. Strickberger. 2005. Genetics.3rd Edition, Prentice-Hall, India
- Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter. Molecular Biology of the Cell.5th Edition, 2007. Garland Science.

17



			71
	III SEMES	TER	
NME 1	ORNAMENTAL FIS	SH CULTURE	15UZON31
Hrs/Week: 3	Hrs/Sem: 3x15=45	Hrs./UNIT: 9	and the second se
			Credit: 2

- > To create interest in self employment and to earn income by developing the skills.
- > To understand the techniques in culture.

UNIT I

Introduction – Entrepreneurship – Scope of Ornamental fish culture – Types of Aquaria – setting up of tanks – accessories for fish tanks – Ornamental plants.

UNIT II

Popular ornamental fishes: selecting a healthy fish - Egg laying fishes (Siamese fighting fish, Gowrami, Goldfish, Zebra and Angel fish) and Live bearing fishes (Molly, Guppy and Sword tail).

UNIT III

Food and feeding: Natural feed - Artificial feed - Balanced diet.

Aquarium management: water capacity and number of fishes in an aquarium (tank fish ratio).

UNIT IV

Common Ornamental fish diseases and their treatment: Bacterial, Viral, Fungal, Protozoan and Parasitic diseases (any three diseases in each category).

UNIT V

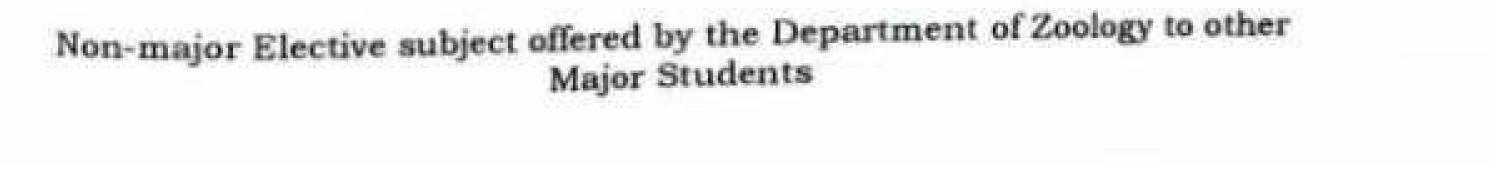
Transport of fishes - Economics of commercial farming - Tips for maintaining a healthy aquarium.

TEXT BOOK

C.S. Tharadevi K.V. Jayashree. Home Aquarium. Saras Publications, Nagercoil.

BOOKS FOR REFERENCE:

- Jameson J. D and Santhanam R., (1996) Manual of Ornamental Fishes and Farming Technologies. Fisheries College and Research Institute, Tamil Nadu Veterinary and Animal Sciences University, Tuticorin.
- Dolakia, A. D. (2009) Ornamental Fish Culture and Aquarium Management, Daya Publishing House, Delhi - 52.
- Meenakshi Jindal, Yadava N. K and Gupta R.K., (2010) Fresh Water Ornamental Fishes. Mangalam Publications, Delhi - 53.





III SEMESTER			
DSE 3B	APICULTURE		18PEZO3B
Hrs / Week : 4	Hrs / Sem : 60	Hrs/ Unit : 12	Credits: 4

Objective: To provide knowledge on apiculture, maintaining bee hives, problems and prospects.

UNIT I

Definition, scope, honey bee- classification of bees- rock bee, Indian bee, littlebee and dammer bee – their identification and habits – choice of species in apiculture.Bee colony – distinctive features and identification of queen, drones and workers, functions of the members. - Anatomy and organ system of honey bee. - Development of honey bee – egg, larva and pupa – time taken for the development of queen, drone and worker, life history of *Apisseranaindica*.

UNIT II

Apiculture techniques, arranging an apiary position – space, acquiring bees – care of newly captured colonies – handling the bees. - Bee keeping – primitive methods – modern methods. The bee hive and its architecture – different kinds of cells – burr comb. - Different types of hives – their identification, artificial hives their advantages – parts of artificial hive – other appliances used in apiaries.

UNIT III

Honey bee products. - Honey – extraction of honey – preservation and storage of honey – properties, chemical composition, nutritive value, medicinal values – honey as daily food. - Bee wax – production – method of extraction – characteristics and uses. - Bee venom – methods of extraction of venom – composition of venom – curative value

UNIT IV

Enemies of bees - greater wax moth, lesser wax moth, ants wasps, lice, beetles and birds and their control.

Diseases of bees - adult and brood diseases - prevention and control measures.

UNIT V

Swarming – prevention and control. - Robbing and fighting – prevention and control. - Uniting stocks – different methods - Queen rearing and introduction - Supersedure - Foraging - Inter- relationship of plants and bees.

REFERENCE BOOKS:

- Abrol, D.P.-Bees and Bee keeping in India. Kalyani Publishers, B.1/1292, Rajinder Nagar, Ludhiana- 141 008.
- Abrol, D.P.Honey bee Diseases and their Management, Kalyani Publishers, B.1/1292, Rajinder nagar, Ludhiana- 141 008.
- Johnson, J. and I. Jeyachandra- Apiculture –Dept. of Zoology, N.M. Christian College, Marthandam.- 629 165.
- 4. Cherian MC and Ramachandran, Bee keeping in South India
- 5. Sharma P.L.& Singh S.-Hand book of Bee Keeping, Printing and stationary, Chandigarh.



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	I SEME	STER	
DSE 1A	ECO	LOGY	18PEZO1A
Hrs/Week: 4	Hrs / Sem :60	Hrs/ Unit: 12	Credits :4

Objectives: To acquire knowledge on eco system, components, functions, resources and pollution management.

UNIT I ECOSYSTEM

Ecosystem: Concept – types - stability - food chain and food web – Ecological pyramids – energy flow in an ecosystem. Biochemical cycles: Carbon, nitrogen, oxygen, phosphorous and sulphur. **Productivity:** Primary productivity process – productivity of different ecosystems – measurement of primary productivity, Biogeography-major terrestrial biomass, island Biogeography, biogeographical zones of India. (r and k selection)

UNIT II POPULATION AND COMMUNITY ECOLOGY

Population: Attributes, characters- growth curves and regulation - life history strategies - competitive niche- concept. Biotic and abiotic interactions, community -nature, structure, attributes, edges and ecotones **UNIT III BIODIVERSITY AND CONSERVATION**

Biodiversity: Genetic – species and ecosystem diversity, measurements – **Diversity indices:** Shannon-Weiner– Diversity an ecosystem processes. Hotspots – values and uses of diversity – loss of animal diversity – rare and Endangered species – red list –**Conservation practices:** Wildlife sanctuaries – National parks and biosphere reserves – tiger, major habitat types of the subcontinent.

UNIT IV RESOURCE MANAGEMENT

Resources: Natural resources – renewable and non-renewable resources. **Forest resources:** Renewable resources: Ecological and economic importance of forest – types and management –Nonrenewable resources. **Water resources:** Worldwide supply – renewable and distribution – Indian water resources – river water disputes. **Energy resources:** energy resources types: solar, wind, hydel, tidal energy and biomass.

UNIT V POLLUTION AND ENVIRONMENTAL AWARENESS

Pollution: Air, water, soil, noise, thermal pollution – sources, effects and control measures – Nuclear hazards. **Social issues and environment:** Urban environmental problems –solid waste management, Succession-types, mechanism, concept of climax. Species interaction-inter and intra specific interaction, symbiosis-herbivore, carnivore.

TEXTBOOKS

- Martin R. Speight Marine Ecology: Concepts and Applications. 1st Edition, Library of Conglass Cataloguing in Publications. ISBN – 978-1-4051-2699.
- 2. Jeffery clarke : Ecology : Concepts, Methods and Applications,

- 1. Agarwal, A. C., 1999, Environmental biology, Agro Botanica, Bikaner.
- Anjaneyala, Y. B., 2004, Introduction to environmental science, S. P. B. S. Publications, Hyderabad.
- 3. Odum, E. P., 1983, Basic ecology, CBS College, Publishing, Saunders.
- Saxsena, K. K., 2004, Environmental Sciences, University Book Hour (P) Ltd., Jaipur.
- Trivedi, P. C., Sharma, K. C., 2003, Biodiversity conservation, Aavishkar Publishers, Jaipur.
- 6. Sven Erik Jørgensen, 2007, A New Ecology, 1st Edition, Elsevier Science



38

IV SEMESTER			
P-VIII	GREEN CHEMISTRY PRACTICAL 18		
Hrs / Week: 4	Hrs / Sem.: 60	Credit: 2	

I. Preparation of compounds using green chemistry

- 1. Preparation of benzopinacolone
- 2. Preparation of 1, 1-bis-2-naphthol
- Synthesis of adipic acid
- 4. Synthesis of biodiesel
- 5. Preparation of Manganese(III) acetylacetonate, Mn(acac), or Mn(C,H,O,)a
- 6. Preparation of Iron(III) acetylacetonate, Fe(acac), or Fe (C, H, O),

II. Spot test using green chemistry-Basic radicals (Pb^{2*}, Cu²⁺, Cd²⁺, Bi³⁺, Co²⁺, Ni^{2*}, Mn^{2*}, Zn^{2*}, Ba^{2*}, Ca^{2*}, Sr^{2*}), Acid radicals (F', Br, I', NO₂', NO₃', S², SO₃²⁻ SO₄^{2*}, SCN³).

III. Identification of N,S, Cl, Br and I using Green Chemistry.

- Lab Experiments in Organic Chemistry, Arunsethi, New Age International Publishers, 2010.
- The Systematic Identification of Organic Compounds R.L. Shriner, C.K.F. Hermann, T.C. Morrill, D.Y. Curtin & R.C. Fuson John Wiley & Sons, Inc., 1997.
- Identification of organic compounds. By N. D. Cheronis and J. B. Entrikin. Interscience Publishers, New York, 1963.
- 4. Organic Cum Practical Hand Book Of Organic Chemistry, B J Hassard
- Organic Experiments, Louis F. Fisser, Kenneth Williamson, D.C. Heath and Company, 1992.
- A Hand Book Of Organic Analysis: Qualitative and Quantitative, <u>Hans Thacher</u> <u>Clarke</u>,1916.
- Experimental Organic Chemistry, H Dubont Durst And George W Gokal, 2nd Edn., New York: McGraw-Hill, 1987.
- Practical Organic Chemistry, F G Mann and B C Saunders, 4th Edn., Pearson Education Ltd., 2009.
- Textbook Of Practical Organic Chemistry, A I Vogel, Prentice Hall; 5th Edn., 1989.
- Systematic Organic Chemistry, Modern Methods of Preparation and Estimation. By W.M. Cumming, I. Vance Hopper, and T. Sherlock Wheeler, London, 1923.
- Monograph on Green Chemistry Laboratory Experiments, Green Chemistry Task Force Committee, DST.



IV SEMESTER			
DSE: IIA	PRINCIPLES OF MARKETING		18UECF4A
Hrs. /Week: 4	Hrs / Sem: 60	Hrs./Unit: 12	Credits: 4

Objectives

- To learn the principles of marketing
- To gain the practical skills in marketing

UNIT I

Definition - market and Marketing -Evolution of Marketingimportance-Features of Modern Marketing -Is marketing a Science or an Art?

UNIT II

Functions of Marketing - Functions of Exchange - Functions of Physical supply and facilitating functions - Concept of Marketing mix

UNIT III

Product - Meaning and Definition – Product Planning and Development -features-Classification-Product Life Cycle-Branding-Packaging.

UNIT IV

Pricing-Meaning-Objectives-factors affecting pricing-Physical Distribution-Channels-Types-Functions-Selection of Channel

UNIT V

Promotion-Advertising-Merits-Demerits-Sales Promotion Techniques-Personal selling - Merits and Demerits - Recent marketing techniques.

TEXTBOOK:

R.S.N. Pillai & Bagawathi - Marketing - S. Chand & Co., Delhi

REFERENCE BOOKS:

- 1. Marketing by Rajan Nair
- Philip Kotler Marketing management Practice Hall of India Private Limited -New Delhi
- William J. Stanton Etal Fundamentals of marketing McGraw Hill International Editions

A. Husiness Statistics - C.C.Bon This Morrow - In Loning .

- 4. Marketing Zikmund, Thomson Learning
- 5. Marketing Limb Hair Mac Daniel Thomson Asia



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	III SEME	CSTER	
IDC 2	HUMAN RESOURCE MANAGEMENT Hrs / Sem: 45 Hrs. / Unit: 9		18PIC031
Hrs/Week: 3			Credits: 3

Objectives

- To acquire the knowledge about HRM
- To gain knowledge on the practices followed in HRM

UNIT I: Nature and Scope of Human Resource Management

Meaning – Definition – Nature – Objectives – Functions – Scope of HRM – Organisation of HR department – Role of HR Manager – Environment of HRM – Internal forces – External forces.

UNIT II: Human Resource Planning

Meaning – Importance of HRP – Factors affecting HRP – The planning process – Requites for successful HRP;

UNIT III: Job Analysis and Job Evaluation

Job Analysis – meaning and definition – Process; Recruitment – meaning – Purpose and importance; Recruitment process; Selection – meaning and definition – Role of selection – Selection process. Job evaluation – scope - Process – Methods.

UNIT IV: Training, Performance Appraisal and Remuneration

Nature of training and development – Importance – Training process; Performance appraisal – meaning and definition – Objectives – Appraisal process; Employee remuneration – Components – Importance; Incentive payments.

UNIT V: Industrial Relations (IR)

Nature of IR – Importance of peaceful IR – Approaches to IR – IR Strategy; Trade unions – Nature of trade unions; Disputes and their resolution – Nature of disputes – Causes of disputes.

TEXTBOOK:

1. K. Aswathappa – Human Resource and Personnel Management.

- 1. Human Resource Management Garry Dessler Prentice Hall
- 2. Human Resource Management BiswajeetPattanayak Prentice Hall
- Personnel Management C.B. Mamoria, S.V. Gankear Himalaya Publishing House.





11

	II SEME	STER	
DSC 7 SERVICES		MARKETING	18PCC023
Hrs/Week: 6	Hrs / Sem: 90	Hrs. / Unit: 18	Credits: 4

Objectives

- · To familiarize the students about services sector with changing trend
- To enable the students to acquire in depth knowledge about service marketing techniques
- To make the students understand the application of serve marketing in various service organisations.

UNIT I

Services - Characteristics and Categories - Major difference between services and goods - different types of services - trends in service marketing - consumer behaviour - customer satisfaction - post purchase evaluation by customers.

UNIT II

Marketing mix elements for services- Service product - development of

new product - pricing in Marketing - Service promotion - place in services people in service marketing - physical evidence of a service - Service process

UNIT III

Demand and supply management - measures to respond to the changes in demand - Balancing demand and supply - queues and the associated problems - service quality - measurement of service quality -Dimensions of Service Quality.

UNIT IV

Marketing strategy in services - External marketing, Internal marketing, interactive marketing - customer encounter management - customer relationship marketing.

UNIT V

Service application - Marketing of insurance business - Banking-Education - Tourism industry - Hospitality Health Services - Transport Services.

TEXTBOOK:

Service Marketing - M.K. Rampal, S.L. Gupta, Galgotta Publishing Co. REFERENCE BOOKS:

- 1. Service Marketing Govind Apte- Oxford University Press, New Delhi
- 2. Service Marketing S.M. Jha, Himalaya
- 3. Service Marketing B. Balaji, S.Chand& Co., Chennai



	II SEME	STER	
DSC 4	PRINCIPLES OF MANAGEMENT *		18UCC022
Hrs/Week: 5	Hrs / Sem: 75	Hrs. / Unit: 15	Credits: 4
ms/week: o		Hrs. / Unit: 15 as Allied II Course in B.	0

Objectives

- > To gain the knowledge various principles in the management
- > To know the various aspects of management functions

UNIT I: Management

Meaning - Definition - Nature - Importance and features of Management - Important Principles of Management- Management: Science or Art - Management as Profession - Functions of Management -Management and Administration

UNIT II: Planning and Decision Making

Planning - Meaning - Definition - Features - Importance - Steps -Types of planning - Merits and Demerits - Decision making - process

UNIT III: Organising

Organising-Meaning-Definition-Nature and Characteristics of Organising-Principles of organising-Different form of organisation-Organization charts and manuals - Committee form of organisation

UNIT IV: Staffing and Directing

Staffing - General Principles – Importance – Techniques – Directing -Meaning - Definition - Nature and scope of direction -Delegation – Centralization - Decentralization.

UNIT V: Co-ordination and Control

Coordination - meaning - definition - scope - importance - requirements of effective coordination; Control - meaning - definitions - nature - types of controlling - elements of control.

TEXT BOOKS:

- 1. Business Administration and Management S.C. Saksena, Sahitya Bhawan
- 2. Principles of Management Kumkum Mukherjee, Tata McGraw Hill Education Private Limited, New Delhi

- 1. Principles of Management -T.Ramasamy
- 2. Principles of Management Dr. K. Natarajan & K.P. Ganesan
- 3. Business Management by DinakarPagare
- 4. Business Management AmithaBha Roy Mc Graw Hill Edition.
- 5. Principles and Practice of Management R.S. Gupta, B.D. Sharma, N.S. Bhalla Kalyani Publishers
- 6. Principles and Practice of Management L.M. Prasad
- 7. Principles of Management P.C. Tripathy & P.N. Reddy



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	IV SEN	IESTER	
DSC 8 BUSINESS COMMUNICATION*		MMUNICATION*	18UCCO41/ 18UCCF41
Hrs/Week: 6	Hrs / Sem: 90	Hrs. / Unit: 18	Credits: 4
		Common to B.Com. and	B.Com. (Finance)

Objectives

- > To enable the students to know communication and its importance
- To help the students to write various business letters to suit various business situation

UNIT I

Introduction - Importance - Definition - Process of communication -Media for communication - Types of communication - Barriers to communication

UNIT II

Business Letter - Need - Characteristics of a good letter - Functions -Kinds -Essentials of a good business letter - Layout.

UNIT III

Letters of Offer and Quotation - Enquiry and Reply - Orders and their Execution - Credit and Status Enquiry

UNIT IV

Complaints and adjustments - Collection letters - Circular letters -Sales letters - Application for situation - Resume Writing - Report writing

UNIT V

Banking correspondence - Insurance correspondence - Agency correspondence - Communication Network - E-mail correspondence

TEXT BOOKS:

Essentials of Business Communication - Rajendra Pal & S.Korlahalli - Sultan Chand & Sons - New Delhi.

REFERENCE BOOKS:

1. Effective Business Communication - Asha Kaul - Prentice Hall

- 2. Business Communication Asha Kaul Prentice Hall
- 3. Business Communication-RSN Pillai and Bagavathi



	V SEME	STER	
DSE 4B		SELLING AND MANSHIP *	18UECO6B/ 18UECF6B
Hrs/Week: 4	Hrs / Sem: 60	Hrs. / Unit: 12	Credits: 4

* Common to B.Com. and B.Com. (Finance)

Objectives:

- To familiarise the students with the fundamentals of personal selling and the selling process.
- To make the students to understand efforts to be taken while assuming selling as a career.

UNIT I

Introduction to Personal Selling: Meaning – Definition – Objectives – Nature features – advantages – disadvantages- importance of personal selling myths of selling, Difference between Personal Selling, Salesmanship and Sales Management.

UNIT II

Fundamentals of successful selling – sales personality – important personality traits – physical traits – mental traits – social traits – character traits – effective sales Talk – buying process – mental stages – effective presentation and demonstration – Theories of personal selling – AIDAS Theory – right set of circumstances theory – Buying formula theory – Behavior education theory.

UNIT III

Salesmanship meaning - Types of salesman - Characteristics of a good salesman - Duties of sales manager - control of salesmen - methods of controlling salesmen - Salesmen report and its uses - types of report forms - types of selling situations - Career opportunities in selling, Measures for making selling an attractive career.

UNIT IV

Buying Motives: Concept of motivation, Maslow's theory of need hierarchy; Dynamic nature of motivation; Buying motives and their uses in personal selling. Selling Process: Prospecting and qualifying; Pre-approach; Approach; Presentation and demonstration; handling of objections; Closing the sale; Post sales activities.

UNIT V

Sales Reports: reports and documents; sales manual, Order Book, Cash Memo; Tour Diary, Daily and Periodical Reports; Ethical aspects of Selling. **TEXT BOOK:**

Salesmanship and publicity – J.S.K Patel – Sultan Chand & Sons, New Delhi **REFERENCE BOOKS:**

- Dr. Rusdom S. Davar, Hohrab, R. Davar and Nusli R. Davar Salesmanship and Publicity - Vikas Publishing Pvt., Ltd, New Delhi
- Salesmanship C.A Kirkpatric South Wester Publishing Indian Reprint by J. Taraporewal, Bombay
- 3. Kapoor Neeru, Advertising and personal Selling, Pinnacle, New Delhi.



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	II SEM	ESTER	
DSE- 2B	INTRODUCTION TO HUMAN RIGHTS		18PEHS2B Credits:4
Hrs/Week:4	Hrs/ Sem: 60 Hrs/Unit:12		
Objectives:	1113/ Denii: 00		

> This course introduces conceptual, legal, and historical evolution of the idea of Human Rights.

> The course provide to the students a deep insights into the theoretical basics, practical functioning, and historically evolutionary nature of the concept of Human Rights.

Unit I

Human Rights - Meaning, Nature, Importance and Scope of Human Rights - Need for the study - Evolution of Human Rights: A Global Perspective.

Unit II

Bases and Sources of Human Rights: Natural Law - Ideas and Ethos -Approaches: Classical- Marxist - Modern concepts.

Unit III

Human Rights Norms and Standards: Basics, Meaning, Importance and Concepts - Right to Self Determination - Right against discrimination.

Unit IV

Classification of Human Rights: Historical, Chronological and Philosophical.

Unit V

Development of Human Rights: Glorious Revolution - Bill of Rights - The US and Human Rights Treaties - French Revolution - The UN and its Charter.

Reference Books:

- 1. Ian Brownli, Basic Documents on Human Rights, Oxford University Press, New York, 1981.
- 2. Jack Donelly, The Concept of Human Rights, Croom Helm, London 1985.
- 3. Rajinder Sachar, Human Rights Perspectives and Challenges, Gyan Publishing Home, New Delhi, 2004.
- 4. JanuszSymondies (ed.), New Dimensions and Challenges for Human Rights, Rawat Publications, Jaipur, 2003. 109
- 5. Satya P.Kanan, Human Rights Evolution and Development, Wisdom Press, New Delhi, 2012.



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	IS	EMESTER	-
DSC-2	HISTORY OF TIRUNELVELI		18UCHS12
Hrs/Week:5	Hrs/ Sem: 75	Hrs/ Unit: 15	Credits: 4

> To study about the Sources of constructing local History of Tirunelveli.

To understand the Political and Social History of Tirunelveli.

> To know about the Advent of Europeans and their programs in Tirunelveli.

> To trace about the rise and growth of Freedom Movements in Tirunelveli.

UNIT - I**Conceptualsing local History**

Sources - Constructing local History - Physical features of Tirunelveli-Significance Relating local to the region/ Nation.

UNIT - II **Political History of Tirunelveli**

Pandyas - Cholas- Cheras - TenkasiPandyas -Vijayangar - Nayak-Nawab Powers- castes & castes - communities -caste conflicts.

UNIT –III Social History of Tirunelveli

Migrants: Mudaliar - Vellala - Balija- Reddi- Kamma- Their migrations into Tirunelveli and its impact- Islam in Tirunelveli: Arab traders in Tuticorin-Marakkayars - Arcot Nawabs and their Agents in Trade and Commerce.

UNIT -IV Advent of the Europeans in Tirunelveli

Conversion of Paravas - Political conflicts - Tirunelveli as Maritime Zone-Poligari system & its Disruption under British rule- Missionaries and spread of Christianity - Its impact on Tirunelveli Society.

UNIT - VFreedom Movement in Tirunelveli

Unknown freedom fighters - Fakhir Muhammed Sait, Subayya Pillai, Sarathi Arunachalam and Ondi Veeran -Non-Brahmins Movement- Swadeshi Movement - National Movement

MEDOSCO - ODOSCO SCONSCIPTOR

REFERENCE BOOKS

1. R. Caldwell. A History of Tinnevelly

2. A.R. Venkatachalapathy, DravidaIyakkamum Vellalarum

3. H.R. Pate, District Gazatteer, Tinnevelly

4. Ramasamy, Tamilnatil Gandhi



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	III SEME	ESTER	
DSE-3B	SOCIAL COMPUTING		18PECS3B
Hrs / Week: 4	Hrs / Sem: 60		Credits: 4

- To create original social application, critically applying appropriate theories and effective practices in a reflexive and creative manner.
- To critically analysis social software in term of its technical, social, legal, ethical and functional feature.

Unit I BASIC CONCEPTS

Networks and Relations: Relations and Attributes, Analysis of Network Data, Interpretation of network data -New Social Learning – Four Changes that Shift Work - Development of Social Network Analysis: Sociometric analysis and graphtheory, Interpersonal Configurations and Cliques – Analysing Relational Data.

Unit II SOCIAL LINK

Individual Actors, Social Exchange Theory, Social Forces, Graph Structure, Agent Optimization Strategies in Networks – Hierarchy of Social Link Motivation- Social Context.

Unit III SOCIAL MEDIA

Trends in Computing – Motivations for Social Computing – Social Media: Social relationships, Mobility and Social context – Human Computation – Computational Models- Business use of social Media.

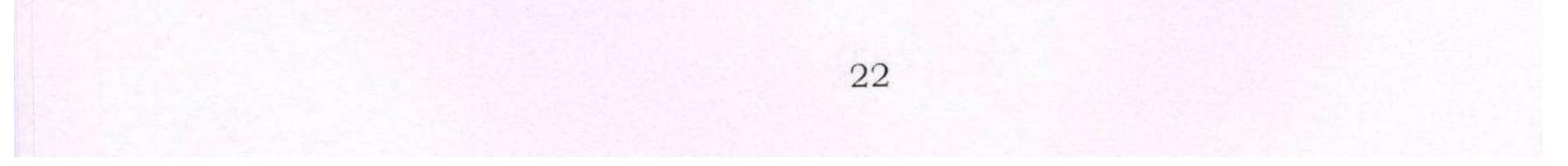
Unit IV SOCIAL INFORMATION FILTERING

Mobile Location Sharing – Location based social media analysis – Social Sharing and Social Filtering – Automated recommender Systems – Traditional and Social Recommender Systems.

Unit V SOCIAL NETWORK STRATEGY

Application of Topic Models – Opinions and Sentiments – Recommendation Systems – Language Dynamics and influence in online communities–Psychometric analysis – Case Study: Social Network Strategies for surviving the zombie apocalypse.

- Tony Bingham, Marcia Conner, "The New Social Learning, Connect. Collaborate. Work", 2nd Edition, ATD Press, ISBN-10:1-56286-996-5, 2015.
- Nick Crossley, Elisa Bellotti, Gemma Edwards, Martin G Everett, Johan Koskinen, Mark Tranmer, "Social Network Analysis for Ego-Nets", SAGE Publication, 2015.
- 3. Zafarani, Abbasi and Liu, Social Media Mining: An Introduction, Cambridge University Press, 2014.
- John Scott, "Social Network Analysis", Third Edition, SAGE Publication, 2013
- 5. Jennifer Golbeck, "Analyzing the Social Web", Elsevier Publication, 2013.
- Huan Liu, John Salerno, Michael J. Young, "Social computing and Behavioral Modeling", Springer Publication, 2009.
- Christina Prell, "Social Network Analysis: History, Theory and Methodology", 1st Edition, SAGE Publications Ltd, 2012





	II SEMI	ESTER	
DSE-2B	CYBER SECURITY		18PECS2B
Hrs / Week:4	Hrs / Sem: 60	Hrs / Sem: 60 Hrs / Unit: 12	

- To understand the difference between threat, risk, attack and vulnerability.
- To identify how threats materialize into attacks and the motivation behind them.

UNIT I INTRODUCTION TO CYBER SECURITY

Introduction -Computer Security - Threats -Harm - Vulnerabilities -Controls - Authentication - Access Control and Cryptography - Web—User Side - Browser Attacks - Web Attacks Targeting Users - Obtaining User or Website Data - Email Attacks

UNIT II SECURITY IN OPERATING SYSTEM & NETWORKS

Security in Operating Systems - Security in the Design of Operating Systems -Rootkit - Network security attack- Threats to Network Communications - Wireless Network Security - Denial of Service -Distributed Denial-of-Service.

UNIT III DEFENCES: SECURITY COUNTER MEASURES

Cryptography in Network Security - Firewalls - Intrusion Detection and Prevention Systems - Network Management - Databases - Security Requirements of Databases - Reliability and Integrity - Database Disclosure - Data Mining and Big Data.

UNIT IV PRIVACY IN CYBERSPACE

Privacy Concepts -Privacy Principles and Policies -Authentication and Privacy - Data Mining -Privacy on the Web - Email Security - Privacy Impacts of Emerging Technologies - Where the Field Is Headed.

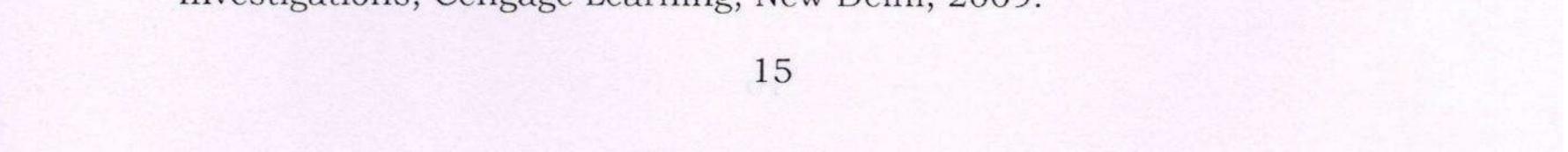
UNIT V MANAGEMENT AND INCIDENTS

Security Planning - Business Continuity Planning - Handling Incidents - Risk Analysis - Dealing with Disaster - Emerging Technologies -The Internet of Things - Economics - Electronic Voting - Cyber Warfare- • Cyberspace and the Law - International Laws - Cyber crime - Cyber Warfare and Home Land Security.

TEXT BOOK(S):

- 1. Charles P. Pfleeger Shari Lawrence Pfleeger Jonathan Margulies, Security in Computing, 5th Edition, Pearson Education, 2015
- George K.Kostopoulous, Cyber Space and Cyber Security, CRC Press, 2013.

- 1. Martti Lehto, Pekka Neittaanmäki, Cyber Security: Analytics, Technology and Automation edited, Springer International Publishing Switzerland 2015
- 2. Nelson Phillips and Enfinger Steuart, Computer Forensics and Investigations, Cengage Learning, New Delhi, 2009.





	IV SEN	IESTER	
DSE-4A	ARTIFICIAL I	NTELLIGENCE	18PECS4A
Hrs / Week:4	Hrs / Sem:60 Hrs / Unit: 12		Credits: 4
OBJECTIVES	1 times / Unit: 1	Provide States	and an att the second

- To study the concept of Artificial Intelligence.
- To learn the methods of solving problems using Artificial Intelligence and Introduce the concepts of expert system and Machine Learning.
 UNIT I ARTIFICIAL INTELLIGENCE

What is Artificial Intelligence? The AI I

What is Artificial Intelligence? The AI Problems – The Underlying Assumptions – What is an AI Technique? Problem spaces and search – Defining the Problems as a State Space Search – Production Systems – Problem Characteristics – Production System Characteristics – Issues in the Design of Search Programmes.

UNIT II KNOWLEDGE REPRESENTATION

Generate andTest – Hill Climbing – Best-First Search – Problem Reduction – Constraint Satisfaction – Means End Analysis-Knowledge Representation issues: Representation and Mappings – Approaches to Knowledge Representation – Issues in Knowledge Representation – The Frame Problem

UNIT III PREDICATE LOGIC

Using predicate logic – Representing Simple facts in Logic – Representing Instance and Is a relationships – Computable functions and Predicates – Resolutions – Natural Deductions – Representing Knowledge Using Rules: Procedural versus Declarative Knowledge – Forward versus Backward Reasoning – Matching – Control Knowledge

UNIT IV REASONING

Symbolic Reasoning under uncertainty – Introduction to Non Monotonic Reasoning – Logics for Non Monotonic Reasoning – Implementation issues – Implementation : Breadth – First Search – Statistical reasoning – Bayesian Networks – Fuzzy Logic- Learning: What is learning? – Rote Learning – Learning by taking advice

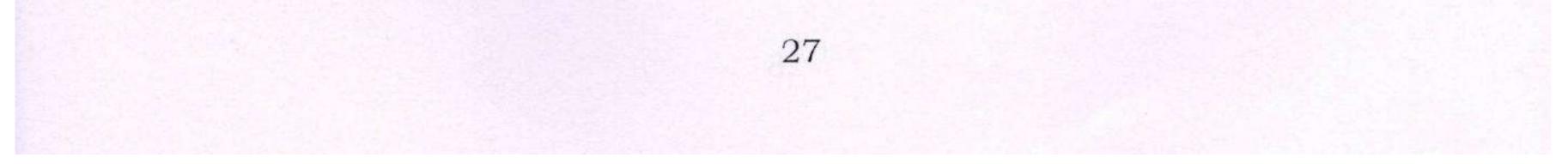
UNIT V EXPERT SYSTEM

Connectionist Models – Introduction – Hopfield Networks – Learning in Neural Networks – Applications of Neural Networks – Expert Systems – Representing and Using Domain Knowledge – Expert System Shells – Explanation – Knowledge acquisition

TEXT BOOK(S):

11. Artificial Intelligence, Elaine Rich, Kevin Knight, Shivas Shankar B Nair, TataMcGraw Hill Publishing Ltd., - New Delhi, Third Edition, 2009.

- 1. Introduction to Artificial Intelligence and Expert Systems, Dan W.Patterson, Prentice Hall of India, New Delhi, 1992
- Artificial Intelligence, A Modern Approach, Stuart J. Russell and Peter Norvig, Pearson Education, reprint 2003.
- 3. Introduction to Expert Systems, 3/e, Peter Jackson, Pearson Education, Reprint 2003
- 4. Artificial Intelligence, A New Synthesis, Nils J. Nilsson Harcourt Asia Pvt. Ltd., 1998



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IV SEMESTER			
DSE-4B	HUMAN COMPUTER INTERFACE		18PECS4B
Hrs / Week:4	Hrs / Sem: 60 Hrs / Unit: 12		Credits: 4

- To learn the Foundations Of Human Computer Interface.
- To understand the awareness of Mobile HCI and guidelines for User Interface.

Unit I FOUNDATIONS

Human: Human memory – Emotion – Individual differences – Psychology and the design of interactive systems – Computer: Devices used for Text entry, display, virtual reality and 3D interactions – Positioning & pointing – physical controls, sensors and special devises – memory – processing and networks. Interactions:Models of interactions - Framework – interaction styles – context of interactions - elements of WIMP interface.

Unit II INTERACTION DESIGN BASICS

Paradigms of interactions – process of design – HCI in software process – software life cycle – usability engineering – interactive design and prototyping – design rules: principles to support usability – standards – guidelines and rules forheuristics – HCI patterns – implantation support – evaluation technique – usersupport.

Unit III IMPLEMENTATION AND EVALUATION

Elements of windowing systems – Toolkits – User interface systems – Goals of evaluation – evaluation through expert system, user participation – choosing evaluation method – universal design principles – multi-modal interaction – design focus – user support.

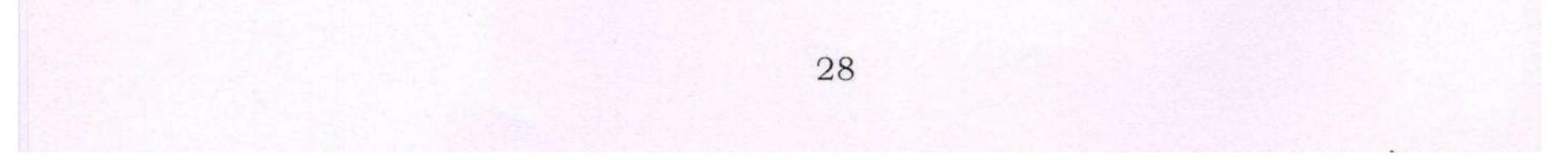
Unit IV MODELS AND THEORIES-1

Cognitive models : Goals and task hierarchies – linguistic models – challenge of display based systems- physical and device models – cognitive architecture –socio organizational issues and stakeholder requirements: organizational issues –capturing requirements.

Unit V MODELS AND THEORIES-2

Communication and collaboration models: face to face communication -conversion – text based communication – group working – task analysis: task decomposition – knowledge based analysis – dialog notations and design – models of systems – models of rich interactions.

- Julie A. Jacko, "Human Computer Interaction Handbook: Fundamentals, Evolving Technologies, and Emerging Applications", 3rd edition, CRC Press, ISBN 9781439829431, 2012.
- Yvonne Rogers, Helen Sharp, Jenny Preece, "Interaction Design: Beyond Human computer Interaction", 3rd edition, Wiley, ISBN-10: 0470665769,2011.
- 3. Dix A, Human Computer Interaction. Harlow, England: Prentice Hall, ISBN- 10:0130461091, 2004.





	III SEMI	ESTER	IO 2 CHINGS OF AUX
DSC 9 DIGITAL IMAGE PROCESSING		18PCCS33	
Hrs / Week:5	Hrs / Sem:75	Hrs / Unit: 15	Credits: 4

- To learn and understand the fundamentals of digital image processing, and various image Transforms.
- To learn Image Enhancement Techniques, Image restoration Techniques, image compression and Segmentation used in digital image processing.

UNIT I INTRODUCTION TO IMAGE PROCESSING

Digital Image Processing – Mat Lab Working Environment – Image Representation – reading images – Displaying images – Writing images – Data classes – Image types – Converting between data classes and image types – Array indexing – M-Function Programming

UNIT II SPATIAL DOMAIN AND FREQUENCY DOMAIN PROCESSING

Intensity Transformation functions – Histogram processing and function plotting – spatial filtering – 2-D Discrete Fourier transformation – filtering in the frequency domain – generating and sharpening frequency domain filters

UNIT III IMAGE RESTORATION AND COLOR IMAGE PROCESSING

Model of the image degradation / restoration process – Noise models – Periodic Noise Reduction using frequency domain filtering – direct inverse filtering – wiener filtering – constrained least square filtering – Lucy – Richardson algorithm – color image representation

UNIT IV IMAGE COMPRESSION AND MORPHOLOGICAL IMAGE PROCESSING

Coding redundancy - Spatial redundancy - psycho visual redundancy - JPEG compression - Morphological image processing - dilation and erosion - morphological reconstruction

UNIT V IMAGE SEGMENTATION AND REPRESENTATION

Point , Line, Edge Detection – Hough Transform – Thresholding – Region based Segmentation – Watershed Transform – Representation – Boundary Descriptors – Regional Descriptors.

TEXT BOOK(S):

1. Rafael C.Gonzalez, Richard E. Woods, Steven L. Eddins, Digital Image Processing using MATLAB, Pearson Education Inc, New Delhi, 2007.

- 1. Chanda. B. Dutta Majumder, D. Digigal Image Processing and Analysis, Prentice Hall of India, New Delhi, 2007.
- Gonzalez, R.C., Wintz P Digital Image Processing, Addison-wesley Longman Publishing Co, New Delhi – 1987
- 3. Scott E. Umbaug, Computer Vision and Image Processing, Prentice Hall International, New Delhi, 1998.





	I SEME	STER	
DSC 3	MATHEMATICAL STATISTICS		18PCMA13
Hrs / Week: 6	Hrs / Sem: 90	Hrs / Unit: 18	Credit: 4

- > To understand the concept of Probability and Probability Distributions.
- > To learn the basic concepts of Mathematical Statistics.
- To know about the theory of sampling.

UNIT I

Conditional Probability and Stochastic Independence: Conditional Probability – Marginal and Conditional distributions – The correlation coefficient – Stochastic Independence

UNIT II

Some Special Distributions: The Binomial, Trinomial and Multinomial distributions –The Poisson distribution –The Gamma distribution & chi-square distribution –The normal distribution–The Bivariate normal distribution.

UNIT III

Distributions of functions of Random variables: Sampling Theory -Transformation of variables of the discrete type – Transformation of variables of the continuous type – The t and F Distributions.

UNIT IV

Extensions of the Change of variable Technique –Distribution of order statistics -The moment generating function technique -Distributions of \bar{X} and nS^2/σ^2 -Expectations of functions of random variables.

UNIT V

Limiting Distributions: Limiting Distributions –Stochastic convergence –Limiting moment generating functions –The central limit theorem –Some theorems on Limiting Distributions.

TEXT BOOK:

Robert V.Hogg and Allen T.Craig-Introduction to Mathematical Statistics-Pearson Education Asia, Chapters 2, 3, 4 and 5

- **Unit I** : Chapter 2(section 2.1 to 2.4)
- **Unit II** : Chapter 3(section 3.1 to 3.5)
- **Unit III** : Chapter 4(section 4.1 to 4.4)
- **Unit IV** : Chapter 4(section 4.5 to 4.9)
- **Unit V** : Chapter 5(section 5.1 to 5.5)



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	I SEME	STER	
DSC4		ND PARTIAL L EQUATIONS	18PCMA14
Hrs / Week: 6	Hrs / Sem: 90	Hrs / Unit: 18	Credit: 4

- To discuss several methods for finding power series solutions to differential equations of first order and second order.
- > To understand the difference between ordinary and regular singular points.
- To learn more about the concepts of first order partial differential equations.
 UNIT I

Introduction: A review of power series - Series solutions of first order equations - Second Order Linear equations and Ordinary points **UNIT II**

Regular singular points - Regular singular point (continued) - Gauss Hyper Geometric equation - Point at infinity.

UNIT III

Legendre Polynomials- Properties of Legendre Polynomials - Bessel

functions. The Gamma Function- Properties of Bessel Functions **UNIT IV**

Partial Differential Equations - Origin of First order Partial Differential Equations Cauchy's problem for first order equations- Linear equations of the first order – Integral surfaces passing through a given curve – Surfaces orthogonal to a given system of surfaces.

Cauchy's method of characteristics - Compatible systems of first order equations - Charpit's method - Special type of first order equations- Solution satisfying the given conditions - Jacobi's Method

TEXT BOOK:

1. **G.F. Simmons**- Differential equation with application and historical notes – TataMcGraw Hill Publishing Company Ltd, New Delhi.

UNIT I : Section 25 to 27

UNIT II : Section 28 to 31

UNIT III : Section 32 to 35

 2. Ian N. Sneddon - Elements of Partial Differential Equations - Dover Publications, Inc-Mineola, New York.
 UNIT IV : Chapter 2 (Section 1 to 6)
 UNIT V : Chapter 2 (Section 8 to 13)



9

	II SEMEST	ER	
DSC 5	LINEAR ALGE	BRA	18PCMA21
Hrs / Week: 6	Hrs / Sem: 90	Hrs / Unit:18	Credit:4

OBJECTIVES:

- > To study the basic concepts of linear dependence, basis, homomorphisms of vector spaces and Inner product spaces.
- > To understand an extremely rich structure called algebra of linear transformations and the canonical forms.
- > To learn about Trace, Transpose and determinants.

UNIT I

Elementary Basic Concepts of Vector Spaces - Linear Independence and Bases - Dual Spaces.

UNIT II

Inner Product Spaces - Modules.

UNIT III

Algebra of Linear Transformations - Characteristic roots -The Matrices.

UNIT IV

Canonical Forms: Triangular form - Nilpotent Transformations.

UNIT V

Determinants - Hermitian, Unitary and Normal Transformations.

TEXT BOOK:

I.N. Herstein - Topics in Algebra (Second Edition) - Wiley India (P.)Ltd, New Delhi

- UNIT I : Chapter 4 (Section 4.1 to 4.3)
- : Chapter 4 (Section 4.4 to 4.5) UNIT II
- : Chapter 6 (Section 6.1 to 6.3) UNIT III
- : Chapter 6 (Section 6.4, 6.5) UNIT IV
- : Chapter 6 (Section 6.9, 6.10) UNIT V



	III SEM	IESTER	
DSC 8	GRAPH THEORY		18PCMA31
Hrs / Week: 6	Hrs / Sem: 90	Hrs / Unit: 18	Credit: 4

- > To provide an in-depth knowledge of graph theoretical concepts.
- > To motivate the students to do research in discrete and applied mathematics.
- > To learn about coloring and Ramsey numbers.

UNIT I

Trees: Bridges - Trees. Connectivity: Cut vertices - Blocks - Connectivity.

UNIT II

Traversability: Eulerian graphs-Hamiltonian graphs. Digraphs: Strong Digraphs.

UNIT III

Matchings and Factorizations: Matchings – Factorization – Decompositions and Graceful Labelings.

UNIT IV

Planarity: Planar graphs –Embedding Graphs on surfaces. Coloring: Vertex coloring.

UNIT V

Edge coloring –The Heawood Map coloring theorem. Ramsey Numbers: The Ramsey number of graphs. Distance: The centre of a graph.

TEXT BOOK:

Gary Chartrand and Ping Zhang - Introduction to Graph Theory, Edition 2006. Tata McGraw-Hill Publishing Company Limited, New Delhi.

- **UNIT I** : Chapter 4(4.1, 4.2), Chapter 5(5.1, 5.2, 5.3).
- **UNIT II** : Chapter 6(6.1, 6.2), Chapter 7(7.1).
- **UNIT III** : Chapter 8(8.1, 8.2, 8.3)
- **UNIT IV** : Chapter 9(9.1, 9.2), Chapter 10 (10.2).
- **UNITV** : Chapter 10 (10.3, 10.4), Chapter 11(11.1), Chapter 12 (12.1).



	IV SEMI	ESTER	
DSC 12	TOPOLOGY		18PCMA41
Hrs / Week: 6	Hrs / Sem: 90	Hrs / Unit: 18	Credit:4

- To introduce basic concepts of Topology.
- > To introduce product Topology and quotient Topology.
- > To study the countability axioms and Urysohnmetrization theorem.

UNIT I

Topological spaces – Basis for a Topology – Order Topology – The product Topology on X \times Y– The Subspace Topology – Closed sets and Limit points.

UNIT II

Continuous functions - The Product Topology - The Quotient Topology.

UNIT III

Connected spaces, components and local connectedness - compact spaces.

UNIT IV

Local compactness - The Countability axioms - The Separation axioms.

UNIT V

Normal Spaces – Urysohn lemma –Urysohnmetrization theorem. (first version of proof only).

TEXT BOOK:

J.R. Munkres-Topology-2nd Edition, Eastern Economy Edition - Prentice- Hall of India Pvt. Ltd, New Delhi.

UNIT I : Chapter 2 (12 to 17).
UNIT II : Chapter 2(18, 19, 22).
UNIT III : Chapter 3 (23, 25, 26).
UNIT IV : Chapter 3 (29), Chapter 4 (30, 31).
UNIT V : Chapter 4 (32, 33, 34)



	IV SEME	STER	
DSC 13	FUNCTIONAL ANALYSIS		18PCMA42
Hrs / Week: 6	Hrs /Sem: 90		

- > To introduce the study of Banach spaces and its applications.
- To introduce the concept of Hilbert spaces, conjugate spaces, adjoint, self adjoint, normal and unitary operators.
- > To introduce finite dimensional spectral theory.

UNIT I

22

Banach Spaces: The definition and some examples - Continuous linear transformations - The Hahn-Banach theorem.

UNIT II

The natural imbedding of N in N** - The open mapping theorem - The conjugate of an operator.

UNIT III

Hilbert spaces: The definition and some simple properties - Orthogonal complements - Orthonormal sets - The conjugate space H*.

UNIT IV

The adjoint of an operator – Self-adjoint operator - Normal and Unitary operators - Projections.

UNIT V

Finite-Dimensional Spectral Theory: Matrices - Determinants and the spectrum of an operator – The spectral theorem.

TEXT BOOK:

George F.Simmons – Introduction to Topology and Modern Analysis, Tata McGraw-Hill Publishing Company Ltd, New Delhi.

UNIT I : Chapter 9(46 to 48) UNIT II : Chapter 9(49 to 51) UNIT III : Chapter 10(52 to 55) UNIT IV : Chapter 10(56 to 59) UNIT V : Chapter 11(60 to 62)





	III SEM	ESTER	
DSE 3A	DIFFERENTIA	AL GEOMETRY	18PEMA3A
Hrs / Week:4	Hrs / Sem:60	Hrs / Unit: 12	Credit: 4

- To introduce the basic concepts in three dimensional Euclidean space. >
- To introduce the essential ideas and method of differential geometry. 8
- To learn about the Geodesics, Canonical geodesics, geodesic curvature. 8

UNIT I

The theory of space curves - Definitions, Arc length - Tangent -Normal and Binormal - Curvature and Torsion.

UNIT II

Contact between curves and surfaces - Tangent Surface - Involutes and evolutes.

UNIT III

Definition of a surface - Curves on a surface - Helicoids.

UNIT IV

Metric - Direction Coefficients - Families of curves - Geodesics.

UNIT V

Canonical geodesic equation, Normal Property of geodesics (Christoffel symbols not included). Geodesic curvature,

TEXT BOOK:

T.J.Willmore - An Introduction to Differential Geometry, Oxford University Press, (17th Impression), New Delhi, 2002, (Indian Print)

- Unit I : Chapter 1: Section: 1.1 – 1.4. problem:chapter1:1-4
- Unit II : Chapter 1: Section: 1.5-1.7 and.problem:chapter1:8-12
- Unit III : Chapter 2: Section: 2.1, 2.2, 2.4, problem: chapter 2:1-4
- Unit IV : Chapter 2: Section: 2.5-2.7.problem: chapter 2:6-8
- Unit V : Chapter 2: Section: 2.10-2.12,2.15.problem: chapter 2:10-12



	IV SEM	ESTER	
DSC-10	INTERNET OF THINGS		18UCIT43
Hrs/Week: 4	Hrs/Sem: 60 Hrs/Unit: 12		Credit: 4

objective:

- Understand the concepts of IOT and employ IOT to different applications and also Analysis and evaluate protocols used in IOT and the data received through sensors in IOT.
- Employ the application of IOT in Industrial Automation and identify Real World Design constrains and to Recognize Projects based on some Hardware (Raspberry pi, Arduino) Software using IOT.

UNIT I

Internet of Things - Physical Design- Logical Design- IoT Enabling Technologies - IoT Levels & Deployment Templates - Domain Specific IoTs -IoT and M2M - IoT System Management with NETCONF-YANG- IoT Platforms Design Methodology

UNIT II

M2M high-level ETSI architecture - IETF architecture for IoT - OGC architecture - IoT reference model - Domain model - information model functional model - communication model - IoT reference architecture. UNIT III

Protocol Standardization for IoT - Efforts - M2M and WSN Protocols -

SCADA and RFID Protocols - Unified Data Standards - Protocols - IEEE 802.15.4 - BACNet Protocol - Modbus- Zigbee Architecture - Network layer - 6LowPAN - CoAP - Security.

UNIT IV

Building IOT with RASPERRY PI- IoT Systems - Logical Design using Python - IoT Physical Devices & Endpoints - IoT Device -Building blocks -Raspberry Pi -Board - Linux on Raspberry Pi - Raspberry Pi Interfaces -Programming Raspberry Pi with Python - Other IoT Platforms - Arduino.

UNIT V

Real world design constraints - Applications - Asset management, Industrial automation, smart grid, Commercial building automation, Smart cities - participatory sensing - Data Analytics for IoT - Software & Management Tools for IoT Cloud Storage Models & Communication APIs - . Cloud for IoT - Amazon Web Services for IoT

TEXTBOOK

- 1. "Internet of Things: A Hands-On Approach" by Arshdeep Bahga, Vijay Madisetti, 2014, Arshdeep Bhaga& Vijay Madisetti Publisher
- 2. "From Machine-to-Machine Internet of Things Introduction to a New Age of Intelligence" by Jan Holler, VlasiosTsiatsis, Catherine Mulligan, Stamatis Karnouskos, Stefan Avesand, David Boyle,1st Edition,2014, Academic Press is an imprint of Elsevier.



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	V SEMI	ESTER	
SEC-I	INTERNET	SECURITY	18USIT51
Hrs/Week: 2	Hrs/Sem: 30	Hrs/Unit: 6	Credit: 2

Objective:

- Understanding Security attacks, services and mechanism
- To understand the fundamentals of Threats and how to prevent from various threats
- To acquire knowledge on Firewall and Gateway
- Explore various secure communication standards including IP sec, and SSL/TLS and email.
- Learn about IP Security

UNIT I

Computer Security Concepts – The OSI Security Architecture – Security Attacks - Security Services – A Model for Network Security – Mechanism – Symmetric Encryption Principles.

UNIT II

Public – Key Cryptography Principles – Kerberos - Web Security Consideration – SSL and Transport Layer Security

UNIT III

TLS- HTTPS - Wireless LAN Overview - Wireless Application Protocol Overview - WAP End to End Security

UNIT IV

S/MIME – Domain Keys Identified Mail - IP Security Overview – IP Security Policy – Internet Key Exchange – Cryptographic Suites

UNIT V

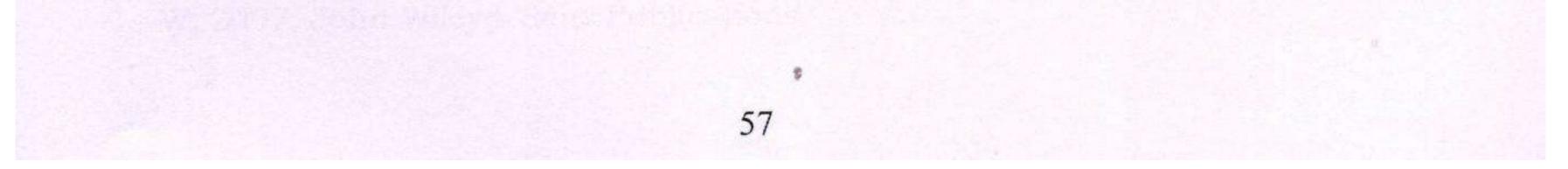
Intruders – Types of Malicious Software – Viruses – Worms – Distributed Denial Service Attacks – Firewall Characteristics – Types of Firewalls – Firewall Location and Configuration.

TEXTBOOK

"Network Security Essentials Application and Standards" by William Stallings, 4th Edition, 2011, Pearson Education.

REFERENCE BOOK

"Firewalls and Internet Security" Repelling the Wily Hacker by William R. Cheswick, Steven M. Bellovin and Aviel D. Rubin, 2nd Edition, 2003, AT &T and Lumeta Corporation





AT BASTORY	I SEME	STER	100000000
DSCP - 1		sing and Retrieval – on (Practical)	18UCLS1P
Hrs/Week:2	Hrs/ Sem: 30		Credit: 1

1. Classifying documents according to Colon Classification (6th Revised Edition)

2. Dewey Decimal Classification: 19th Edition

Text Books:

S.R.Ranganathan, Prolegomena to Library Classification, Sarada Ranganathan Endowment.

Working with Decompton Opening & Saving Flos Found text document

- S.R.Ranganathan, Colon Classification, Aisha Pathippagam.
- S.R.Ranganathan, Classification and Communication, Sarada Ranganathan Endowment.
- S.R.Ranganathan, Elements of Library Classification, Sarada Ranganathan Endowment.
- Chakrabati, B, Library Classification theory, Calcutta, World Press.
- Krishan Kumar: Theory of Classification, Vikas Publisher.

Reference Books:

- > H.Bose, Universal Decimal Classification Theory and Practice, Sterling Publisher.
- A.A.N.Raju, Dewey Decimal Classification [DDC-20]: Theory and Practice: A Self Instructional Manual, T.R.Publications.
- M.S.Achdeva, Colon Classifications, Sterling Publisher.
- S.R.Ranganathan, Colon Classification, Asia Publishing House.
- Rowley, Jennifer E.Ogranizing Knowledge: an introduction to information retrieval 2nd ex. Ashgati, 1992.



	II SEMESTER	
DSCP - II	Information Processing and Retrieval – Cataloguing (Practical)	18UCLS2P
Hrs/Week:2	Hrs/ Sem: 30	Credits: 2

1. Cataloguing documents using Classified Catalogue Code, Ed.5.

2. Anglo-American Cataloguing Rules - II (1978).

Text Books:

- Girja Kumar, Theory of Cataloguing, S.Chand & Company New Delhi.
- Krishna Kumar, an Introduction to AACR2, Vikas Publishing House Pvt Ltd.
- Ranganathan S.R.: Classified Catalogue Code with additional rules for dictionary catalogue code, Bangalore, 1989.
- Tripathi, S.M.: Modern Cataloguing: Theory and Practive, Agra, S.L.Agarwala, 1982.

Reference Books:

- Anand Ballabh, Library Classification & Cataloguing, Akansha Publishing House.
- Anglo-American Cataloguing Rules. 2nd ed. London, Library Association, 1988.



II SEMESTER			
DSE - II	Communication Skills and Soft Skills		18UELS2A
Hrs/Week:6	Hrs/ Sem: 90	Hrs/Unit: 15	Credits: 3

Unit-1:

Soft Skills: Introduction-what are soft skills?- Importance of soft skills-Selling your soft skills-Attributes regarded as soft skills-social soft skills - thinking soft skills-Negotiating-Exhibiting your soft skills-Identifying your soft skills-Improving your soft skills -Will formal training enhance your soft skills-soft skills training - Train your self-Top 60 soft skills-Practicing soft skills-Measuring attitude.

Unit-2:

Art of Listening, Reading, Speaking and Writing: Introduction-What is listening? - Benefits of active listening - Kinds of listening - Advantages of active listening - Listening tips. Reading is a cognitive process - Good readers are what they read - Benefits of reading -Different types of reading - Tips for effective reading - Difference stages of reading. Defining communication -Special features of communication - Communication process -Channels of communication - Formal communication network - Informal communication network (grapevine communication) - Art of Public Speaking. Importance of writing -Creative writing - Writing tips.

Unit-3:

Body Language: Introduction - Body talk - Voluntary and involuntary body language - Forms of body language - Parts of body language - Origin of body language - Types of body language.

Group Discussion: Introduction – Meaning of GD – Why group discussion? Characters tested in GD – Tips on GD – Types of GD- Essential elements of GD – Difference characters in GD – Topics for GD.

Unit-4:

Preparing CV / Resume: Introduction -Meaning - Difference among Bio-data, CV and Resume -The terms -The purpose of CV writing - Types of resumes.

Interview Skills: Introduction - why an interview? - Types of interview - Dress code at interview -

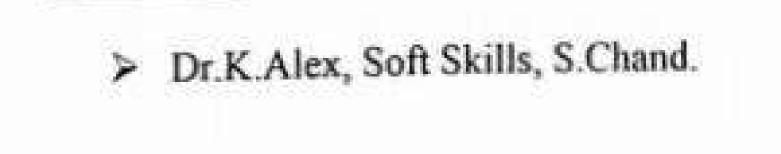
How to present well in interview -Tips to make a good impression in an interview - job interview -Basic tips - how to search for job effectively- Interview quotations.

Unit-5:

Time Management: Introduction - Features of time - Three secrets to time management - Five steps to successful time management.

Stress Management: introduction - Meaning - Effects of stress - kinds of stress - Sources of stress.

Text Books



38	SEMEST	ER - IV	
	CLASSICAL PROSE		18ULAR41
AR-4	C and a second	T	Credits:4
Hrs/ Week: 6	Hrs/ Sem: 90	Hrs/ Unit: 18	Cicultor

Objectives: To impart the moral values in the students and build their personality to make them better citizens to serve the society.

Unit I:- Verses from 1 to 12 from (Sura – al – Hujraat)(Textbook – 1) من الآية "يا أيها الذين آمنوا لا تقدموا" إلى الآية"يا أيها الذين آمنوا اجتنبوا "

Unit II:- Verses from 10 to 18 from (Sura – al – Hujraat)& verses from Surah Lqman from (12 to 19) (Textbook - 1) من الآية "يا أيها الناس إنا خلقناكم" إلى الآية "إن الله يعلم غيب السموات" من الآية "ولقد آتينا لقمان الحكمة " إلى الآية "واقصد في مشيك"

Unit III:- Collection and compilation of Quran and Hadeeth, History of Imam Abu Hanifa, Malik, Asshafi,Ahmad, Bukhari,

Muslim, Abu Dawood, At-Tirmidi, An-Nasaee and Ibn-Majah

(Textbook - 1)

Unit IV:- Hadeeth 1 to 10 (Textbook - 2) من الحديث " لا تأكلوا بالشمال" - إلى الحديث " خيركم من تعلم القرآن"

Unit V:-Hadeeth 11 to 20 (Textbook - 2)

من الحديث " لا تمنعوا نسائكم " - إلى الحديث " حق المسلم على المسلم خمس"

TEXTBOOK

1. Tafseer Suratul Hujuraath and from Suraah Luqman (verses from 12-19) A study material prepared by Dept. of Arabic, Sadakathullah Appa College, Rahmath Nagar, Tirunelveli-11

2. Hadeeth: AhadeethSahlah Available at: Islamic foundation Trust, 78, Perambur High Road, Perambur, Chennai- 600 012.



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	V SEME	ESTER .	
DSC-10	History of Modern Arabic Literature		18UCAR54
Hrs/ Week: 5	Hrs/ Sem: 75	Hrs/Unit: 15	Credits: 4

Objective:

To introduce the prominent scholars who contributed to Arabic literature in the modern period.

(من الجزء الأول): UnitI

الموقف السياسي في الشرق الأوسط في القرنين الأخيرين- الطباعة والصحافة- محمود سامي البارودي- السيد جمال الدين الأفغاني- الشيخ محمَّد عبده - الشيخ محمَّد رشيد رضا-- السيد مصطفى لطفي المنفلوطي

(من الجزء الأول): Unit II

- الشيخ مجد المويلحي- أمير الشعراء أحمد شوقي - شاعر النيل حافظ إبراهيم - شاعر القطرين خليل مطران-شكيب أرسلان

(من الجزء الثالث) :Unit III الدكتور مجد حسين هيكل – الدكتور أحمد أمين- سلامه موسى -الدكتور زكي مبارك- الدكتور مجد مندور – أبو القاسم الشابى

(من الجزء الثالث): Unit IV على الجارم - الدكتور طه حسين- عباس محمود العقاد- توفيق الحكيم - الدكتور أحمد حسن الزيات- خير الدين الزركلي -

(من الجزء الثالث): Unit V نجيب محفوظ – الدكتور يوسف السباعي – الشيخ بشارة الخوري حسن البناء- السيد قطب- نازك الملائكة – الدكتور شوقى ضيف

Textbook:

أعلام النثر والشعر في الأدب العربي الحديث ليوسف كوكن

الجزءالأولوالثالث Selcted Topics from

Material Available at: Al Manar Books, 23, AA complex, Race course Road, Opp. Arabic College, Bus Stop, KhajahNagar, Trichy-phone: 2420471, 9842367617



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	PART-IV- SKILI	BASED ELECTIV	VE
	மூன்ற	ாம் பருவம்	
SBE 1	மனித உரிமைகள்		15 UTAS31
Hrs/Week: 3	Hrs/Sem: 45	Hrs/Unit:9	Credits : 2

- நோக்கம் : தனிமனிதனுடைய உரிமைகள் பற்றி மாணவர்களை அறியச் செய்தல்.
- அலகு 1 : மனித உரிமைகள் வகைகள் வளர்ச்சிக் களங்கள். அலகு - 2 : அடிப்படை உரிமைகள் - மனித உரிமைகளின் ஊற்றுக்கண் - மனித உரிமைகள் தொடர்பான இந்தியச் சட்டங்கள் - அமைப்புகள்.
- அலகு 3 : மனித உரிமை ஆணையம் அமைப்பும் செயல்பாடுகளும். அலகு - 4 : கைது, வாரண்ட் விளக்கம் - கைது செய்யப்பட்டவர்களின் உரிமைகள் - மனித உரிமைகள் குறித்த சாசனங்கள்.
- அலகு 5 : உலக மனித உரிமைகள் பிரகடனம் பன்னாட்டு

உடன்பாடு – பன்னாட்டு ஒப்பந்தங்கள்.

பாடநால்கள்

போ.இராஜ முத்திருளாண்டி- 'மனித உரிமைகள்'

41-பி,சிட்கோஇண்டஸ்டிரியஸ் எஸ்டேட்,

அம்பத்தூர், சென்னை -600 098.

பார்வை நூல்கள்:

க.பொ. அகத்தியலிங்கம் - 'மனித உரிமைகள்

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2. வ.நா. விஸ்வநாதன்

'மனித உரிமைகள் தமிழ்ப் ' புத்தகாலயம், ப்ளாட் எண்.பு3.`.8,மாசிலாமணி தெரு, தி.நகர், சென்னை — 600 017. 'மனித உரிமைகள்-பாவை பப்ளிகேசன்ஸ், 142, ஜானி ஜான் கான் சாலை, இராணிப்பேட்டை, சென்னை -14,



	முதல	ல் பருவம்	
DSC-2	தற்கால	இலக்கியம்	18UCTAL
Hrs/Week :5	Hrs/Sem :75	Hrs/Unit :15	Credits :4
நோக்கம் :	தற்காலத்தமிழ் இலக்க	கியங்களை அறிமுகம்	செய்தல்.
அலகு -1 புத பாரதியார் பாரதிதாச ந.பிச்சமூர் கண்ணதா கவிக்கோ	ன் - குடும். த்தி - சுமை; சன் - ஆதிம	ப விளக்கு தாங்கி ந்தி	
නුමාල - 2 ව	ரைநடை பாரதியின் அறிவியல் வா.செ.குழந்தைசாமி	பார்வை - டாக்டர்	
онюжа - 3 (Бл	ட கம் ஒளவை- இன்குலாப்		

அலகு - 4 சிறுகதைகள்

முத்துக்கள் பத்து - புதுமைப்பித்தன்

அலகு : 5 நாவல்

ரெயினீஸ் ஐயர்தெரு- வண்ணநிலவன்

பாடநால்கள் :

 பாரதியின் அறிவியல் பார்வை - டாக்டர்வ.செ.குழுந்தைசாமி பாரதிபதிப்பகம்,126/106, உஸ்மான் ரோடு, தியாகராஜநகர், சென்னை-600017.
 அளைவ- இன்குலாப் அன்னம் அகரம் பதிப்பகம், மனைஎண் 1, நிர்மலாநகர், தஞ்சாவூர்-613007
 முத்துக்கள் பத்து - புதுமைப்பித்தன் அம்ருதா பதிப்பகம், எண் 12,3வது மெயின்றோடு, இரண்டாம் குறுக்குத் தெரு, சி.ஐ.டி. நகர் கிழக்கு, சென்னை– 600035.
 ரெயினீஸ் ஐயர் தெரு - வண்ணநிலவன் கிழக்குப் பதிப்பகம், 177/103 முதல் தளம், லாயிட்ஸ் சாலை, ராயப்பேட்டை,சென்னை– 600014.

பார்வைநூல்கள்:

பாரதியார் கவிதைகள், பாரதிதாசன் கவிதைகள், அப்துல் ரகுமான் கவிதைகள்



VI SEMESTER	ESTER	I SEM	VI
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SBC 12	Hrs / Sem : 2	x 15 = 30	18USPD62
Sbe Week: 2			Credits: 2

UNITI

UNIT I UNIT I Definition - Determinants - Personality Traits - Theories of PERSONALITY - Importance of Personality Development. SELF AWAPPEnder of PERSONALITY - Importance of Personality Development. SELF AWARENESS -personality - Importance of Self - Awareness - Developing Self - Awareness -Personality - Importance - Awareness - Developing Self - Awareness -personality - Benefits of Self - Awareness - Developing Self - Awareness -Meaning - Importance - Application - Components. Meaning - Meaning - Importance- Application - Components.

UNIT - II

UNIT - II MONITORING - Meaning -Advantages and Disadvantages self SELF Monitor - Self - monitoring and job performance. PERCEPTION- Definitionmonitor - Sell units perception- Perception process. ATTITUDE - Meaning-factor influencing perception- Perception process. ATTITUDE - Meaning-Factor influences - Meaning - Assertiveness in Comment of Attitudes. Formation of Attitudes. Assertiveness Techniques.

UNIT - III

UNIT - III TEAM BUILDING - Meaning - Types of teams - Importance of Team TEAM Boliceting Effective Team. LEADERSHIP - Definition - Leadership building Qualities of an Effective leader. NEGOTIATION SKILLS - Meaning style - Quantities - Meaning - Meaning - Principles of Negotiation - The Negotiation Process. Principles of MANAGEMENT - Definition- Types of Conflict- Levels of Conflict.

UNIT -IV

COMMUNICATION - Definition - Importance of communication - Process of communication -Barriers in communication - Overcoming Communication Barriers. EMOTIONAL INTELLIGENCE: Meaning - Components of Emotional Intelligence- Significance of managing Emotional intelligence. STRESS MANAGEMENT - Meaning - Sources of Stress - Symptoms of Stress - Consequences of Stress - Managing Stress.

UNIT - V

SOCIAL GRACES - Meaning - Social Grace at Work - Acquiring Social Graces. TABLE MANNERS - Meaning - Table Etiquettes in Multicultural Environment- Do's and Don'ts of Table Etiquettes. DRESS CODE -Meaning- Dress Code for selected Occasions - Dress Code for an Interview. GROUP DISCUSSION - Meaning - Personality traits required for Group Discussion- Process of Group Discussion. INTERVIEW - Definition- Types of skills - Employer Expectations -Planning for the Interview - Interview Questions- Critical Interview Questions.

REFERENCE BOOKS:

- 1. Dr.S. Narayana Rajan, Dr. B. Rajasekaran, G. Venkadasalapthi, V. Vijuresh Nayaham and Herald M.Dhas, Personality Development, Publication Division, Manonmaniam Sundaranar University, Tirunelveli
- 2. Stephan P.Robbins, Organisational Behaviour, Tenth Edition, Prentice Hall of India Private Limited, New Delhi,2008
- 3. Jit S. Chandan, Oragnisational Behaviour, Third Edition, Vikas Publishing House Private Limited, 2008
- 4. Dr.K.K. Ramachandran and Dr.K.K. Karthick, From Campus to Corporate, Macmiller, Publishers India Limited, New Delhi, 2010.

