

**ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE - 27  
GUIDELINES, LIST AND SYLLABUS OF OPEN ELECTIVES FOR  
POST GRADUATE STUDENTS OFFERED UNDER CHOICE BASED CREDIT SYSTEM (CBCS)**



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## General guidelines for open electives (PG courses) under CBCS

- Postgraduate students who have enrolled for the programme from the academic year 2015-2016 and subsequent batches come under CBCS
- Students will have to select open electives in the third semester along with their Major papers
- They will have to choose 1 open electives of 30 hours from a pool of elective papers offered by other post graduate departments
- Means of evaluation and attendance requirements for open electives is same as the other major papers
- The mode of assessment is:  
Activity 1 – **7.5 marks**, Activity 2 – **7.5 marks** and end semester examination **35 marks**. The total marks for Open elective are **50**. Total marks to pass in open elective remains 40%.
- Registration of open electives to be done online. **Online registration will begin on 16<sup>th</sup> October 2021. It will start between 1 to 2 p.m.**
- Selection of electives is on first come first serve basis
- For registration log in to <https://sjc.linways.com/student/> using your User name and Password
- Click on Menu and then Open elective
- List of open electives with their availability will be shown
- Select the Open electives of your choice from the pool provided
- If you are not sure of your options, reselect the electives of your choice and click apply
- Once you have submitted your options, the selected electives will be displayed on your screen
- Options once submitted cannot be changed under any circumstances
- You can then view your chosen open elective under Selected Open Elective

**LIST OF OPEN ELECTIVES OFFERED BY DEPARTMENTS FOR  
POST GRADUATE STUDENTS**

<b>Sl. No.</b>	<b>DEPARTMENT</b>	<b>CODE</b>	<b>TITLE OF THE <u>OPEN ELECTIVE</u> (OE)</b>
1	BOTANY	BOOE 9518	HORTICULTURE
2	CHEMISTRY AND ORGANIC CHEMISTRY	CHOE 9518	LIFE'S LABORATORIES
3	COMPUTER SCIENCE	CSOE 9518	WEB TECHNOLOGIES
4	ECONOMICS	ECOE 9518	BASIC ECONOMICS FOR NON- ECONOMISTS
5	ENGLISH	ENOE 9619	MAKING IT UP: WRITING FICTION AND NON-FICTION FOR CHILDREN
6	MASS COMMUNICATION	MCOE 9618	INDIAN CINEMA
7	MATHEMATICS	MTOE 9618	MAKING THE RIGHT DECISIONS
8	MICROBIOLOGY	MBOE 9518	MICROBES AND US
9	PHYSICS	PHOE 9418	ASTROPHYSICS
10	POLITICAL SCIENCE	PSOE 9618	READING THE INDIAN POLITY
11	SOCIAL WORK	SWOE 9818	HUMAN RIGHTS
12	COMMERCE	COOE 9818	PERSONAL FINANCIAL PLANNING
13	FOOD SCIENCE AND TECHNOLOGY	FSOE3519	NUTRITION, DIET AND HEALTH
14	STATISTICS	STOE 9620	STATISTICAL METHODS

DEPARTMENT	CODE	TITLE OF THE PAPER
BOTANY	BOOE 9518	HORTICULTURE

## BOOE 9517 HORTICULTURE

30 HOURS

### Unit Introduction to Horticulture

I Branches, applications and significance.

### Unit Propagation structures

II Types of propagation structures – green houses, polyhouses and their uses in plant propagation.

### Unit Plant propagation

III Media for plant propagation. Techniques of plant propagation: cutting, layering, grafting and budding

### Unit Management of plant nurseries

IV General layout and components of a nursery, types of nurseries.  
Practices followed in a nursery - potting, seeding, manuring.  
Irrigation and its types – drip irrigation and micro sprinklers.

### Unit Entrepreneurship

V A general account of cultivation, post-harvest care, processing, packaging and marketing in floriculture, pomiculture and olericulture,

Unit VI A brief account of organic farming, terrace gardening, vertical gardening, landscaping, Ikebana and bonsai techniques.

## REFERENCES

- Poehlman, J.M., and Brothukar, I.B.H., 1998. Breeding of Asian plants. I.B.H. New Delhi.
- Singh, B.D.A 2000. Plant Breeding. Kalyani Publ. New Delhi. .
- Sharma, J.R. 1994. Plant breeding. T.M.H. Publ. Comp. New Delhi.
- Kumaresan V, 2001. Horticulture and Plant Breeding, Saras publication.
- Sharma R R, Manish Srivastava 2000, Plant propagation and nursery management
- Hartman, H.J. et al. 1990. Plant propagation - Principles and practices. Prentice Hall, New Delhi.
- Sharma, V.K. 1996. Plant nurseries, Techniques, production and management. Indian Pub. New Delhi.

DEPARTMENT	CODE	TITLE OF THE PAPER
CHEMISTRY AND ANALYTICAL CHEMISTRY	CHOE 9518	LIFE'S LABORATORIES

## CHOE 9517 LIFE'S LABORATORIES

**30 HOURS**

1. Chemistry and Society : - An introduction of the impact of chemistry on Society. **2h**
2. Molecular Gastronomy: -  
Introduction to Molecular gastronomy: History & development. Chemical structures and properties of food; Colloid Chemistry; Emulsions  
Culinary/Cooking processes: Freezing, Heating (Conduction, convection, radiation); applications. A preliminary knowledge of flavors, colors, emulsifiers stabilizers, additives. Novel ingredients and delivery mechanisms. Laboratory based technologies (including water baths, freeze drying). **5h**
3. Forensic chemistry: **5h**  
What is forensic science? An idea of the analytical techniques used: a. Atomic Spectroscopy b. Microspectrophotometry c. Electrophoresis d. Microscopy e. Chromatography f. Immunoassays. Analysis of Forensic Samples - a. Drug Analysis b. Combustion & Arson c. Inks, Paints, & Pigments d. Polymers & Fibers
4. Molecular processes: **3h**  
Biological clock, circadian clock; Molecules involved and their interactions  
Consequences of sleep deprivation – physiological and neurological – molecules and their interplay
5. Green chemistry and the industry: **5h**  
What is green chemistry? What are the current chemical industries? What are green processes?
6. Research based pedagogy tools: Relate your master's subject with chemistry – this involves reading, presentation and design of an experiment (wet or dry lab) that can be demonstrated. **10h**

### Suggested Reading:

1. Chemistry: Impact On Society:- Melwin D. Joesten; David O Johnston; John T. Netterville and James L. Wood. Saunders Golden Sunburst Series; Saunders College Publishing.

2. The ESSENCE of GASTRONOMY Understanding the Flavor of Foods and Beverages - Peter Klosse CRC PressTaylor & Francis Group International Standard Book Number-13: 978-1-4822-1677-6 (eBook - PDF)

3. Biochemistry - Gareth and Grisham, Saunders College Publishing

4. New trends in green chemistry - Ahluwalia and Kidwai, Anamaya Publishers, New Delhi.

5. Forensic Chemistry - Suzanne Bell - Pearson Publishers

DEPARTMENT	CODE	TITLE OF THE PAPER
COMPUTER SCIENCE	CSOE 9518	WEB TECHNOLOGIES

**OBJECTIVES:**

On successful completion of the course the students will be able to do the following:

- To provide an in-depth training for web development skills.
- To understand and develop I web pages independently.
- To understand the methods of debugging and correcting anomalies.
- To provide a proper foundation for learning other tools of web development.

**Internet Basics:** Introduction to internet and its applications, E-mail, telnet, FTP, E-commerce, video conferencing, e-business. Internet service providers, domain name server, internet address, World Wide Web and its evolution, uniform resource locator (URL), browsers – internet explorer, netscape navigator etc. search engine, web saver – apache, proxy server, HTTP protocols **10 h**

**Web Designing Technologies:** Introduction to HTML, ASP, JSP, Java scripts, VB scripts, HTML/DHTML – file creation, HTML tags, titles footers, text formatting, forms, images, lists, tables, linking documents, front page editing, frame sets, order list, un-order list, special characters **10 h**

**Java Script** Introduction to Java script, writing java script into HTML, Building of Java Script Syntax Data types of variables, arrays, operators, expressions, programming construct of conditional checking, loop ends functions, dialogue boxes **5 h**

**CSS:** Understanding the importance of CSS, Types: inline, internal and external with examples.

**REFERENCE BOOKS**

1. E. Balaguruswamy, Programming with JAVA, A Primer, 2nd Edition., TMH 2. (1999), (Chapter 2 – 16) 3. KenArnold & James Gosling, The Java Programming Language, Addison – Wesley, (1998) 4. Patrick Naughton & Herbert Schildt,
2. JAVA 2: The Complete Reference, 3rd Edition, TMH, (1999). 5. Internet 6-in-1 by Kraynak and Habraken, Prentice Hall of India Pvt. Ltd., New Delhi 6. Internet for Everyone by Alexis Leon and Mathews Leon; Vikas Publishing House Pvt. Ltd., New Delhi 7. HTML – 4 for World Wide Web by Castro Addison Wesley (Singapore) Pvt. Ltd., New Delhi 8. Principles of Web Designing Joel Sklar, Web Warrior Series Available with Vikas Publishing House Pvt. Ltd., New Delhi

DEPARTMENT	CODE	TITLE OF THE PAPER
ECONOMICS	ECOE 9518	BASIC ECONOMICS FOR NON-ECONOMISTS

**Course objective:**

- To introduce students to basic concepts and theories of economics
- To provide insights into the working of an economic system

**MODULE I- BASIC BUILDING BLOCKS OF ECONOMICS****6 h**

Introduction-Idea of opportunity cost; absolute price and relative price – production possibility curve; positive and normative economics; market demand and supply curve – factors affecting demand and supply curve – market equilibrium; elasticity, Overview of Production, Revenue and Cost

**MODULE 2- WORKING OF AN ECONOMY****6 h**

Basic National Income Accounts- Circular flow of Income, Determination of Output, Employment, and Prices. Inflation- Causes, Effects and Control.

**MODULE 3-ROLE OF GOVERNMENT****6 h**

Market Failure and Need of Government, Fiscal Policy- Expenditure, Revenue-Tax and Non Tax Revenue, Public Debt.

**MODULE 4-EXPORT IMPORT AND THE ECONOMY****6 h**

International Trade, Determination of Exchange rate and Balance of Payment. Globalisation WTO and IMF

**MODULE 5-ISSUES IN GROWTH AND DEVELOPMENT****6 h**

Concept of economic growth and factors promoting growth –land, labour, capital and organisation, Relationship between Growth and Development, Issues on Development- Poverty, Inequality and Environment.

**READING LIST**

Cherunillam F International Economics, Tata Mcgraw Hill

Mankiw Gregory: Macroeconomics. Worth Publishers, 7th Edition

Sen, A- Microeconomics: Theory and Applications, Oxford University Press (2000)



Todaro M.P. and Smith (1996) Economic Development, Addison-Wesley Series In Economics

<b>DEPARTMENT</b>	<b>CODE</b>	<b>TITLE OF THE PAPER</b>
<b>ENGLISH</b>	<b>ENOE 9619</b>	<b>MAKING IT UP: WRITING FICTION AND NON-FICTION FOR CHILDRENS</b>

## **ENOE 9619 MAKING IT UP: WRITING FICTION AND NON-FICTION FOR CHILDRENS - 30 HOURS**

This 2-credit 30-hour course offers the taker an engagement with texts that are overtly aimed at children while also offering a practical understanding of writing both fiction and non-fiction for children. Three books will be taken up for discussion as part of the coursework.

### **The idea of the child**

Perspectives from different fields.

The child in different cultures.

The child as reader

### **Fiction**

The Book of Dust—Philip Pullman

Un Lun Dun—China Mieville

### **Non-Fiction**

Bulging Brains—Nick Arnold

(can be replaced by other titles in the Horrible Science series)

A Children's History of India—Subhadra Sen Gupta

### **Testing & Assessment**

The course is intended to work by portfolio-based assessment rather than by an examination. Each student must produce a 6000-word portfolio of five pieces that include a response to any one of the texts studied (1500 words), two stories for children, and two essays that are written to explain ideas from the sciences or the social sciences to children (4500 words)

<b>DEPARTMENT</b>	<b>CODE</b>	<b>TITLE OF THE PAPER</b>
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**MCOE 9617 INDIAN CINEMA****30HOURS**

**COURSE OUTCOME:** The course will give an overview of Indian cinema and its modes of theorization.

**Unit 1: History of Indian cinema**

The Beginnings (1896-1912), The Silent Era (1913-1930), Growth of the Industry (1931-1947), Post Independence Indian Cinema.

**Unit 2: Film aesthetics:**

Realism, Authorship, Language of the Film (Film, Language & Montage), Narrative Comprehension.

**Unit 3: Representations and debates in Indian cinema**

Gender, City, caste, class & Nation, Gender & modernity in alternative cinema, Neglected Auteurs & Suppressed Discourses, Communalism & Terrorism

**Unit 4: Major debates in Indian cinema**

Subalternity & The New Cinema Movement, Crisis of State in Popular and Alternative Cinema,.

**Internal Activities:**

1. Research on films from particular regions, periods or filmmakers
2. Presentation on the works of noteworthy filmmakers

**References:**

- Saran Renu, History of Indian Cinema,
- Valicha Kishore, The Moving Image: A study of Indian Cinema, Orient Longman Limited, 1988
- Vasudevan Ravi, The Melodramatic Public: Film form and Spectatorship in Indian Cinema, Orient Blackswan, 2012
- Jain Manju, Narratives of Indian cinema, Primus Books, 2009
- Dwyer Rachel, Cinema India: The Visual culture of Hindi film, Rutgers University Press, 2002

DEPARTMENT	CODE	TITLE OF THE PAPER
MATHEMATICS	MTOE 9618	MAKING THE RIGHT DECISIONS

## MTOE 9617 MAKING THE RIGHT DECISIONS

30 HOURS

**OBJECTIVE:** To enhance the ability to make decisions accurately and with confidence by providing with principles of successful decision making.

**INTRODUCTION:** You're what you decide and there's a really good way to make these decisions. The principles of decision theory are widely used by major organizations in making strategic decisions. They also apply to all decisions - whether they involve one's finances, one's health or one's relationships.

**Note:** It isn't necessary to understand Mathematics to learn the principles of Decision Theory.

**METHODOLOGY:** 'Learn By Doing'

You'll be provided with the opportunity to make decisions. There are **Three** Important Areas in life in which one can make decisions:

- Decisions About Personal Relationships
- Decisions About What You Should Do With Your Life
- Decisions About Organisations In Which You Participate

### WHAT WILL YOU LEARN?

SYLLABUS: Choices ; Determining Payoffs ( What is in it for me? ) ; Types of decision ; Four major decision criteria: Admissibility criterion. Worst case scenarios. The long term perspective. Make hay while the sun shines( Maximax criterion ) ; Guidelines in deciding which of the four criteria to use ; Acquisition and use of information ; Decision involving other parties ; Cooperative solutions ; Vindictive Solutions.

### Reference Books

1. Miller James -*Game theory of work*-McGraw Hill-2003
2. Bradley Richard -*Decision theory*-A formal philosophical-2014
3. North D.Warner -*A Tutorial introduction to decision theory*-IEEE Transaction on system science and cybernetics, vol ssc.so.3, section-1968
4. Hansson Sven Ove -*Decision Theory, A Brief Introduction*-Royal Institution of technology-2005
5. Burger Starbird-*The Heart of Mathematics*-John Wiley and sons,Newyork-2010

DEPARTMENT	CODE	TITLE OF THE PAPER
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**MBOE 9517 MICROBES AND US****30 HOURS****Learning outcomes:**

**Microbes** are tiny organisms, too tiny to see without a microscope, yet they are abundant on Earth. They live everywhere: in air, soil, rock, and water. Some live happily in searing heat, while others thrive in freezing cold. Some **microbes** need oxygen to live, but others do not. Though microscopic, one can't overemphasize the importance of microbiology. Society benefits from microorganisms in many ways. They are necessary for the production of bread, cheese, beer, antibiotics, vaccines, vitamins, enzymes, and many other important products. Indeed, modern biotechnology rests upon a microbiological foundation. In contrary to those microorganisms also have harmed humans, animals, plants and so on, and disrupted society over the millennia. Microbial diseases undoubtedly played a major role.

This elective draws our relationship closer to microbes. This relationship involves not only the beneficial effects but also familiarize us with the harmful effects of certain microorganisms. Here we will bring to you the ways microbes affect our lives by causing diseases. We will also try and learn the measures to be taken to prevent the spread of microbial diseases and if affected to treat them. We will also examine the use of microbes in commercial and industrial applications to produce food, chemicals and drugs, to treat sewage, control pests and clean up pollutants.

**UNIT I**

- |  |            |
|--|------------|
| <b>1. MICROBIAL DIVERSITY</b>  | <b>2 h</b> |
| Introduction to microbial biodiversity: distribution, abundance, ecological niche and types. |            |
| <b>2. THE HUMAN MICROBIOME</b>   | <b>2 h</b> |
| Human Microbiota, Gut Microflora, Maintaining and replenishing the Gut Microflora.           |            |

**UNIT II**

- |  |            |
|--|------------|
| <b>3. IMMUNITY</b>   | <b>3 h</b> |
| Classification with examples and mechanisms of innate immunity   |            |
| <b>4. INFECTIOUS DISEASE &amp; PREVENTION</b>  |            |
| a. Definition of infection and disease.  | <b>1 h</b> |
| b. <b>Classification of infections:</b> localized, generalized, endemic, epidemic, sporadic and pandemic. Classification of diseases as communicable and non communicable with examples. | <b>2 h</b> |
| c. <b>Sources of infection:</b> Air, humans, animals, insects, soil, water and food.   | <b>3 h</b> |
| d. <b>Methods of transmission of infection:</b> Contact, inhalation, ingestion.<br>inoculation ,insects, congenital, iatrogenic and laboratory infections.                               | <b>2 h</b> |

- |  |            |
|--|------------|
| e. <b>Causes, prevention and treatment of infections /disease:</b><br>Dengue, HIV, Tuberculosis, Typhoid, Malaria and Candidiasis. | <b>5 h</b> |
| f. Sterilization and Disinfection  | <b>1 h</b> |
| g. Vaccines and Immunization schedule  | <b>2 h</b> |
| h. Chemotherapy - Use and abuse  | <b>2 h</b> |

**5. MICROBIAL PRODUCTS: 5 h**

- a. Microbiology of fermented milk products (acidophilus milk and yoghurt ),
- b. Microbiology of bread making and wine preparation
- c. Insulin.
- d. Compost.

**REFERENCES:**

1. Robert S. Burlage, Ronald Atlas, David Stahl, Gill Geesey, Gary Saylor, 1998. Techniques in Microbial Ecology, Oxford University Press. N.Y.
2. Atlas and Bartha; Microbial Ecology.
3. Nester *et al*, 2004, Microbiology a human perspective, Mac Graw Hill Higher education.
4. Prescott, Harley & Klein's,(2008), Microbiology, Mac Graw Hill Higher education.
5. Stalley, Jerome, Microbial life 2<sup>nd</sup> edition (2007), Sinauer Associates inc, Massachusetts.
6. Casida, J.F. 1968. Industrial Microbiology, Wiley Eastern Ltd., New Delhi.
7. Cruger, W. and Crueger, A. 2000. Biotechnology: A Text Book of Industrial Microbiology, Second Edition, Panima Publishing Corporation, New Delhi.

DEPARTMENT	CODE	TITLE OF THE PAPER
PHYSICS	PHOE 9418	ASTROPHYSICS

## PHOE 9417 ASTROPHYSICS

**30 HOURS**

### Preamble

This course attempts to introduce the student to Astrophysics by way images and simplified concepts. These are intended to strike a cord in the students to the larger idea of Scientific Methodology.

Scientific method dictates that we have “measurable” parameters associated with concepts that are studied. The student is walked through the “zoo” of astronomical objects: planets, stars, galaxies and so on. When the stars are then placed in the parameter space of these measured quantities, the student will see patterns arising in these pictures relating their age and size to their positions in this parameter space. In addition to this, the students will learn about the most successful model that describes the universe.

### Outcome

A clear outcome of this course, is in learning scientific methodology.

### Syllabus

#### A first glimpse of the universe

What is the universe made up of?; What is light? Picture the Universe; Crowded Skies and Stardust.

**5 hrs**

#### Birth and death of a star

The Stellar Zoo: nascent stars, adolescents and geriatric stars; immortality and fiery ends

**10 hrs**

#### Sun and the solar system

Denizens of Sol; Earth glory: seasons, eclipses, lunar phases; In the shadow of the Sun: sunspots, rotation and vibration, climate on earth; Harbingers of gravity: asteroids, meteoroids, comets

**10 hrs**

#### Our galaxy and beyond

The cosmos: galaxies; Our backyard: the Milkyway; Evolving Universe: Insight into the origin and evolution of universe; Fiery Birth: The big-bang

**5 hrs**

Books for reference :

1. Astrophysics is easy – An introduction for the amateur astronomer, Mike Inglis
2. Astrophysics in a nutshell, Dan Maoz
3. Fundamental astronomy, Hannu Karttunen et al.

Online references :

<http://www.universe-review.ca/>

DEPARTMENT	CODE	TITLE OF THE PAPER
POLITICAL SCIENCE	PSOE 9618	READING THE INDIAN POLITY

## PSOE 9617 READING THE INDIAN POLITY

**30 HOURS**

### Course Description

The intention of this course is to introduce the dynamism of Indian Polity to the Post-Graduate non-Political Science students. The objective of the course is to engage and discuss some of the fundamental debates, arguments and concepts on Democracy in India, Political Parties, Election Commission and Electoral Process and the unique dimension of India's Federalism. The course will also cover a critical analysis of social movements, caste and class in Indian politics and political economy of development in India. Thus, the course offers a synoptic view of Indian politics by engaging with most of the raging themes and issues.

Students will be expected to participate in the classroom through critical questions, reflections and debates. It is expected that they will do the important readings provided to them from time to time. Their knowledge of the subject will be evaluated by their reflections on the lectures offered in the classroom as well as bringing arguments from the key readings suggested in the below mentioned list.

Students will be required to utilize books and articles in the library or photocopy materials at their own expense.

### Course Details (30 Hrs.)

1. **A Historical and Contemporary Analysis of India's Democracy (6 Hrs.);**
2. **Caste, Class and Ethnicity in Indian Politics (6 Hrs.);**
3. **Election, Political Parties and Electoral Reforms (6 Hrs.);**
4. **Federalism in India with special emphasis on Centre-State relations (6 Hrs.);**
5. **A Critical Enquiry into the Developmental Discourse of India (6 Hrs.).**

### Select Readings:

Ambedkar, B R (2014) *Annihilation of Caste: The annotated critical edition*; New Delhi: Navayana.

Ashankar, B. L. & Valerian Rodrigues, *The Indian Parliament: A Democracy at Work*, OUP: New Delhi.



Baviskar, Amita (1995) *In the belly of the river: Tribal conflicts over development in the Narmada valley*; New Delhi: Oxford University Press.

Beteille, Andre, *Antinomies of Society: Essays on Ideologies and Institutions*, OUP: New Delhi.

Bhargava, Rajeev (Ed.), *Secularism and its Critics*, OUP: New Delhi.

Chatterjee, Partha (Ed.), 2004, *State and Politics in India*, OUP, New Delhi

Jayal, N. G. and Mehta, P. B. (2010) *The Oxford Companion to Politics in India*, OUP: New Delhi

Kohli, Atul (Ed.), *The success of India's Democracy*, Cambridge, Cambridge University Press

Kothari, Rajni, (1970), *Politics in India*, Orient Blackswan.

Mehta, Pratap Bhanu (2003) *The Burden of Democracy*; New Delhi: Penguin India.

Mahajan, Gurpreet, *Accommodating Diversity: Ideas & Institutional Practices*, OUP: New Delhi

(1999) "Civil Society and Its Avatars: What happened to Freedom and Democracy?" *Economic and Political Weekly*, Vol. 34, No. 20, May 15-21, pp. 1188-1196

Oommen, T K (2010) *Social movements I: issues of identity*; New Delhi: Oxford University Press.

Oommen, T K (ed.) (2010) *Social movements II: concerns of equity and security*; New Delhi: Oxford University Press.

Ray, Raka and Mary Fainsod Katzenstein (ed.) (2005) *Social movements in India: Poverty, power and politics*; Maryland: Rowman & Littlefield Publishers.

Sabharwal, Gopa, (with forward from Andre Beteille), *Ethnicity & Class: Social Divisions in an Indian City*, OUP: New Delhi

Varshney, Ashutosh, 2002, *Ethnic Conflict and Civic Life: Hindus and Muslims in India*, OUP: New Delhi

**Additional reading will be suggested during lectures. Students are expected to regularly read newspaper articles, Magazines like Frontline, Seminar, Economic and Political Weekly, The Week, Caravan, etc.**

DEPARTMENT	CODE	TITLE OF THE PAPER
SOCIAL WORK	SWOE 9818	HUMAN RIGHTS

## **SWOE 9817 HUMAN RIGHTS**

**30 HOURS**

### **Objectives:**

- To give a basic awareness on human rights.
- To provide an overview of social legislation and familiarize students with Pertinent legislations
- To educate the students about the existing judicial system & it's functioning.

### **Unit 1 Human Rights - Basic Concept**

- What are Human Rights?
- Human Values- Dignity, Liberty, Equality, Justice, Unity in diversity, Ethics and Morals
- Meaning and significance of Human Rights Education

### **Unit II United Nations and Human Rights**

- Brief History of Human Rights- International and National Perspectives
- Provision of the charters of United Nations
- Universal Declaration of Human Rights- Significance-Preamble
- Civil and Political Rights-(Art. 1-21)
- Economic, Social and Cultural Rights-(Art.22-28)
- Duties and Limitations-(Art. 29)
- Final Provision (Art. 30)

### **Unit III Human rights of disadvantaged groups**

- Status of Indigenous People and the Role of the UN
- Status of SC/ST and Other Indigenous People in the Indian Scenario
- Human Rights of Aged and Disabled
- The Minorities and Human Rights

### **Unit IV Human rights of vulnerable groups**

- Sex Workers
- Migrant Workers
- HIV/AIDS Victims

### **Unit V Human Rights in Indian Context**

- Preamble- Fundamental Rights- Directive Principles-Fundamental Duties
- Commission of Women, children , Minority, SC/ST
- Abuse of Executive Power-Corruption-Nepotism and favoritism

- Role of Advocacy Groups: Professional Bodies: Press, Media
- Role of Lawyers, Educational Institutions, Role of Corporate Sector, NGO's.

### **References:**

1. Introduction to the Constitution of India Brig Kishore Sharma.
2. Handbook of Human Rights Jayant Chaudhary
3. Family Law I A Saiyed.
4. Bare Acts of various legislations.
5. Social Legislation in India: Gangrade K D
6. Social Policy & Social Development in India: Kulkarni P D
7. Encyclopedia of Social Work in India.

### **Documentaries for Review**

1. India Untouched
2. Prostitutes of God
3. Chakravyuh

DEPARTMENT	CODE	TITLE OF THE PAPER
COMMERCE	COOE 9818	PERSONAL FINANCIAL PLANNING

**OBJECTIVE:**

1. To provide a foundational understanding for making informed personal financial decisions.
2. To give a complete outline of the various investment opportunities available for an investor and also provide a systematic input of knowledge to the students with regard to investments.

**Course Contents**

**Unit 1 FUNDAMENTALS OF INVESTMENTS AND OPPORTUNITIES**

**14 Hours**

Meaning and Concept of Investment- Difference between savings and investments, Investment Vs. Speculation and Gambling (Differences). Non-Marketable financial assets-Bank deposits, post office deposits, NSC, employee provident fund meaning and benefits only. Money market instruments-Different types of instruments (meaning only) Fixed income securities-Government bonds, Equity shares (concept only), mutual fund-different types of schemes, life, real estate, precious objects-gold, silver, art objects, Cryptocurrencies, and antiques. Emerging investment avenues in India, Income-tax planning for Individuals, tax benefits of various investment options.

**Unit 2 FINANCIAL PLANNING**

**8 Hours**

Meaning and Scope of Financial Planning, Personal Financial Planning Process, Classification of investor according to risk perception and income group; Investor life cycle; setting up financial goals; Common mistakes in investments; Profile of Indian investor, Retirement Planning-Calculation of Retirement Corpus-Investment Avenues for the Retired

**Unit 3 INSURANCE PLANNING IN PERSONAL FINANCE**

**8 Hours**

Life Insurance- Concept, Type of life insurance policies, Important terms in an insurance policy, procedure of claiming life insurance claims, Health Insurance - Meaning and features of Accident, Personal Disability, Property and Liability, Keyman insurance and Business Insurance.

**Suggested Readings:**

- Study guide for Personal Finance, Kapoor, Cram101
- Your Everyday Guide to Personal Finance and Insurance, Prakash Praharaj, CNBC
- Personal Finance Simplified, Tycho Press, Callisto Media Inc
- Prasanna Chandra, Investment Analysis & Portfolio Management, Tata McGraw Hill
- Avadhani. V. A, Security Analysis & Portfolio Management, Himalaya Publishing House

DEPARTMENT	CODE	TITLE OF THE PAPER
FOOD SCIENCE AND TECHNOLOGY	FSTOE 3519	NUTRITION, DIET AND HEALTH

**FSTOE 3519 Nutrition, Diet and Health**

**30 HOURS**

**UNIT I**

Terminologies related to nutrition: definition of nutrition, nutrients & energy, adequate, optimum & good nutrition, malnutrition. Diet & stress in current scenario. Food and Food Groups: Food production and consumption trends in India and their consequences on nutrition situation. Functions of food, Food guide - Basic five food groups, how to use food guide (according to R.D.A.)

-8 hours-

**UNIT II**

Inter-relationship between nutrition & health: Visible symptoms of goods health, Role of fibres in human nutrition. Macro and Micro Nutrients in Human Nutrition: Carbohydrates, lipids, proteins, vitamins, minerals and trace elements. Requirements, sources, functions and effects of deficiency and importance of nutraceutical, Qualitative differences in food proteins and methods of assessing protein quality. Factors influencing availability of minerals. Nutrients inter-relationships. Water and electrolyte balance.

-15 hours-

**UNIT III**

FSSAI initiative on Health & Nutrition on Eat Right Campus: Eat safe, Eat healthy & Eat sustainably, Food fortification and regulations by FSSAI, Concept of FoSTaC training (Food safety Training and Certification): training module for students as certified Food Safety Supervisors (FSSs), and faculty members as certified Master Trainers/National Level Resource Person (NLRP), Food nutrition programs to combat malnutrition-strategies, targets and progress. Influence of junk food on health: School children and Youngsters in India.

-7hours-

**References books:**

1. Chattopadhyay Ghosh S and Base N. (2015). UcchaMadhaymikKhadda O Pusti, Calcutta Book House.
2. Raut SK, Mitra K and Chowdhury P. AdhunikPustibigyan, Book India Academic Publishers.
3. Arora K (2008). Theory of Cookery, Frank Brothers.
4. Srilakshmi B. (2018).Nutrition Science. New Delhi: New Age International.
5. Sahoo S and Sahoo SK. (2016). Pustibigyan, Kolkata: Chaya Prakashani.

1. Chemistry: Impact On Society:- Melwin D. Joesten; David O Johnston; John T. Netterville and James L. Wood. Saunders Golden Sunburst Series; Saunders College Publishing.
2. The ESSENCE of GASTRONOMY Understanding the Flavor of Foods and Beverages - Peter Klosse CRC PressTaylor & Francis Group International Standard Book Number-13: 978-1-4822-1677-6 (eBook - PDF)
3. Biochemistry - Gareth and Grisham, Saunders College Publishing
4. New trends in green chemistry - Ahluwalia and Kidwai, Anamaya Publishers, New Delhi.
5. Forensic Chemistry - Suzanne Bell - Pearson Publishers

DEPARTMENT	CODE	TITLE OF THE PAPER
STATISTICS	STOE 9620	Statistical Methods

**Objective:** To gain effective skills to perform data analysis using statistical tools and to identify potential areas of applications of statistical theory.

**Unit I**

**7 Hrs**

Statistics: meaning and role as a decision-making science, Data-types and scales of measurement. Presentation: tables, diagrammatic and graphical methods. Exploratory Data Analysis using descriptive measures and graphical tools.

Univariate data Analysis: Measures of central tendency, positional averages, measures of dispersion, skewness and kurtosis - Definition and properties.

**Unit II**

**7 Hrs**

Probability theory: random experiment, simple events, sample space - types of events, probability of an event, rules of probability, conditional probability, Bayes' theorem.

Probability distributions: random variables - discrete and continuous type, Bernoulli, Binomial, Poisson and normal distributions - applications.

**Unit III**

**5 Hrs**

Sampling methods - population and sample, parameter and statistic, concept of a random sample, simple random sampling, stratified sampling, systematic sampling, sample size determination.

**Unit IV**

**5 Hrs**

Testing of hypothesis: null hypothesis, alternate hypothesis, test statistic, level of significance, p-value. Testing hypothesis about population mean, tests for proportions. Contingency tables, chi-square test for independence of attributes.

**Unit V**

**6 Hrs**

Bivariate Analysis: Correlation: Scatterplot, correlation coefficient and its properties, rank correlation, Test for correlation coefficient

Regression: linear relationship, linear regression model, simple linear regression, fitting the regression model, coefficient of determination, Test for regression coefficients.

**NOTE: If any queries, can mail the CBCS coordinator.**

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