

UNIVERSITY OF CALCUTTA



NISHAT ALAM
Secretary,
Councils for Undergraduate Studies,
University of Calcutta.

SENATE HOUSE
87/1, College Street, Kolkata-700 073.
Phone : 2257-3376, 2241-0071-74
e-mail: u.g.councilsc.u@gmail.com
Website: www.caluniv.ac.in

Ref. No. CUS/154/17

Dated the 26th May, 2017

To
The Principals
of all the Undergraduate Colleges
offering B.Com (Honours & General) courses
affiliated to the University of Calcutta.

Sir/Madam,

The undersigned is directed to forward you the University Notification No. CSR/26/17, dt. 26.05.2017 containing new course structure, syllabi and revised admission regulations for three-year B.Com. (*Honours & General*) Courses of Studies.

The above shall be effective for the students getting admission to the three-year six-semester **B.Com. (Honours & General)** Courses of Studies under CBCS, from the academic session **2017-18 and onwards.**

The said notification along with detail course structure, syllabi and admission regulations are available in the Calcutta University website.

Thanking you,

Yours faithfully,

Encl.: C.U. Notification No. CSR/26/17, dt. 26.05.2017

(NISHAT ALAM)
Secretary

26/5/17

Unit-2:**No. of classes: 10 / Marks: 10**

Public and private system of stimulation, support and sustainability of entrepreneurship. Requirement, availability and access to finance, marketing assistance, technology, and industrial accommodation, Role of industries/entrepreneur's associations and self-help groups, The concept, role and functions of business incubators, angel investors, venture capital and private equity fund.

Unit-3:**No. of classes: 10 / Marks: 10**

Sources of business ideas and tests of feasibility. Significance of writing the business plan/project proposal; Contents of business plan/ project proposal; Designing business processes, location, layout, operation, planning & control; preparation of project report

Unit-4:**No. of classes: 10 / Marks: 10**

Mobilizing Resources - Mobilizing resources for start-up. Accommodation and utilities; Preliminary contracts with the vendors, suppliers, bankers, principal customers; Basic start-up problems;

Module II**Business Ethics****Internal Assessment: 10 marks****Semester-end Examinations: 40 marks****Total 50 marks****Unit 1: Business Ethics****No. of classes: 8 / Marks: 8**

Introduction – Meaning - Scope – Types of Ethics – features – Factors influencing Business Ethics – significance of Business Ethics - Arguments for and against business ethics- Basics of business ethics - Corporate Social Responsibility and Business Ethics

Unit 2: Principles of Business Ethics**No. of classes: 8 / Marks: 8**

Introduction – Meaning – Element – Ethics, Morale, Business ethics, Ethical dilemma [basic idea, features and significance of each of element]

Unit 3: Ethics in Management**No. of classes: 8 / Marks: 8**

Introduction – Ethics in HRM – Ethics in Marketing — Ethics in Accounting and finance - Work place Ethics - Value and Ethics.

Unit 4: Corporate Culture**No. of classes: 8 / Marks: 8**

Meaning – Role – Functions – Impact of Corporate Culture – Globalization and cross culture issues in ethics, Corporate Code of ethics

Unit 5: Ethics & Corporate Governance

No. of classes: 8 / Marks: 8

Concept of Corporate Governance, Scope, Reports on Corporate Governance and its benefits and limitations-- Corporate Governance and Business Ethics [Brief Concept]

Suggested Readings:

- Kuratko and Rao, *Entrepreneurship: A South Asian Perspective*, Cengage Learning.
- Robert Hisrich, Michael Peters, Dean Shepherd, *Entrepreneurship*, McGraw-Hill Education
- Desai, Vasant. *Dynamics of Entrepreneurial Development and Management*. Mumbai, Himalaya Publishing House.
- Dollinger, Mare J. *Entrepreneurship: Strategies and Resources*. Illinois, Irwin.
- Holt, David H. *Entrepreneurship: New Venture Creation*. Prentice-Hall of India, New Delhi.
- Plsek, Paul E. *Creativity, Innovation and Quality*. (Eastern Economic Edition), New Delhi: Prentice-Hall of India. ISBN-81-203-1690-8.
- Singh, Nagendra P. *Emerging Trends in Entrepreneurship Development*. New Delhi: ASEED.
- SS Khanka, *Entrepreneurial Development*, S. Chand & Co, Delhi.
- Hifrich, Manimala, Peters & Shepherd, *Entrepreneurship*, McGraw-Hill
- Kumar Arya, *Entrepreneurship*, Pearson
- Bamford and Bruton, *Entrepreneurship*, McGraw Hill
- SIDBI Reports on Small Scale Industries Sector.
- Roy, *Entrepreneurship*, Oxford
- Albuquerque, *Business Ethics*, Oxford
- Ferrell, Fraedrich, Farrell, *Business Ethics*, Cengage

Note: Latest edition of text books may be used.

CC 4.1 Ch

TAXATION-I

Full Marks – 100

Internal Assessment:	20 marks
Semester-end Examinations:	<u>80 marks</u>
Total	<u>100 marks</u>

Marks shown against the units indicate marks for Semester–end Examinations

- Unit 1 :
- Basic Concepts and Definitions under IT Act**
Assessee, Previous year, Assessment year, Person, Income, Sources of income, Heads of income, Gross total income, Total income, Maximum marginal rate of tax, Tax Evasion, Tax avoidance, Tax planning.
 - Residential Status and Incidence of Tax**
Residential status of all persons except company
 - Incomes which do not form part of Total Income**
Except section 10AA.

Unit 2: Consumer Behaviour and Market segmentation:

No. of classes: 8 / Marks: 8

Consumer Behaviour: Nature and Importance, Factors influencing consumer buying behaviour.

Market segmentation: concept, importance and bases; Product differentiation vs. market segmentation.

Unit 3: Product:

No. of classes: 8 / Marks: 8

Concept and importance, Product classifications; Concept of product mix; Branding, packaging and labeling; Product life-cycle; New Product Development Process.

Unit 4: Pricing, Distribution Channels and Physical Distribution

No. of classes: 8 / Marks: 8

Pricing: Significance. Factors affecting price of a product. Pricing policies and strategies.

Distribution Channels and Physical Distribution: Channels of distribution - meaning and importance; Types of distribution channels; Factors affecting choice of distribution channel.

Unit 5: Promotion and Recent developments in marketing:

No. of classes: 8 / Marks: 8

Promotion: Nature and importance of promotion; Communication process; Types of promotion: advertising, personal selling, public relations & sales promotion, and their distinctive characteristics.

Recent developments in marketing: Social Marketing, online marketing, direct marketing, services marketing, green marketing, Rural marketing; Consumerism.

Suggested Readings:

- Kotler & Keller, Marketing Management, Pearson
- Ramaswamy and Namakumari, Marketing Management, McMillan
- Bhagwati, Pillai, Marketing Management, S.Chand
- Verma & Duggal, Marketing Management, Oxford
- Venugopal, P., Marketing Management, Sage
- Saxena, Marketing Management, McGraw Hill

Module II

Human Resource Management

Internal Assessment:	10 marks
Semester-end Examinations:	40 marks
<u>Total</u>	<u>50 marks</u>

Unit 1: Nature and Scope

No. of classes: 8 / Marks: 8

Concept and meaning of HR, Understanding the Nature and Scope of HRM, Functions and importance.

Unit 2: Human Resource Planning**No. of classes: 8 / Marks: 8**

Definition, Need and Features of Human Resource Planning, factors affecting Human Resource Planning.

Unit 3: Recruitment and Selection**No. of classes: 8 / Marks: 8**

Definition of Recruitment, Source, need and importance of Recruitment, Recruitment Policy – process – sources of Recruitment Definition of Selection, Steps in selection.

Unit 4: Training and Development**No. of classes: 8 / Marks: 8**

Training and Development Meaning and purpose of training, Benefits of training to organisation and employees -Training methods.

Unit 5: Job Evaluation and Performance Appraisal**No. of classes: 8 / Marks: 8**

Job evaluation - objectives, scope, method, Job analysis, Job description, Job Specification - basic concept and significance, Performance Appraisal - Concept

Suggested Readings:

- Mahajan, Reeta, Human Resource Management, Vikash
- Haldar & Sarkar, Human Resource Management, Oxford
- Sinha, Sekhar & Bala, Human Resource Management, Cengage
- Jyothi & Venkatesh, Human Resource Management, Oxford
- Wilton, N., An Introduction to Human Resource Management, Sage
- Dessler & Varkkey, Human Resource Management, Pearson

CC 2.1Ch
COST AND MANAGEMENT ACCOUNTING – I

Marks 100

Internal Assessment: 20 marks
Semester-end Examinations: 80 marks
Total 100 marks

Marks shown against the units indicate marks for Semester–end Examinations

Unit	Topic	Content	Marks	Lecture
1.	Introduction	<ul style="list-style-type: none"> • Definition of Costing, Objectives of Cost Accounting; Management Accounting and difference with Cost Accounting; Installing a Cost Accounting System, Essentials of a good Cost Accounting System. • Cost concepts, terms and classification of costs: Cost, Cost object, Cost units and Cost Centres, Types 	10	6



UNIVERSITY OF CALCUTTA

Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies (General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE
KOLKATA-700073
The 4th June, 2018

Paul
4/6/18
(Dr. Santanu Paul)
Deputy Registrar

1.3.1 Criteria

Core Course PHI-A-CC-12-Ethics (Indian)

- a) Introduction: Concerns and Presuppositions, Concept of Sthitaprajña, Karmayoga: (Gīta) Puruṣārthas and their inter-relations. b) Meaning of Dharma, Concept of Ṛṇa and Ṛta. Classification of Dharma: sādharma and Asādharma, Varnāśrama dharma. c) Vidhi and Niśedha. d) Buddhist Ethics: Pañcaśīla, Brahmavihārabhāvanā (Buddha) Anuvrata, Mahāvratā, Ahimsā. e) Jaina Ethics: anubratā, mahabratā. f) Mimamsa Ethics: nitya naimittika karma and kāmya karma, the imperative in kāmya karmas and in kāmya karmas involving himsā.

PHI-A-CC-14-Ethics (Western)

- A. Nature and Scope of Ethics, Classification of Ethics: a) Prescriptive, b) Meta Ethics, c) Applied Ethics. B. Moral and Non-moral actions, Object of Moral Judgement—Motive and Intention C. Moral Theories: Plato and Aristotle D. Standards of Morality: Hedonism—Ethical, Psychological. Utilitarianism: Act-utilitarianism, Rule-utilitarianism. Deontological Theories: Act-Deontological Theories, Rule-Deontological Theories— Kant's Theory E. Theories of Punishment

b) Normative and Meta ethics

- 1) Postulates of morality 2) Virtue Ethics 3) Concept of value: Types of values, subjectivity/objectivity of values, moral skepticism 4) Distinction between normative and meta ethics 5) Meta-ethics: Nature of meta-ethics, Emotivism (A.J. Ayer's view), Intuitionism (Moore's view), Prescriptivism (R.M. Hare's view)

b) Applied ethics

1. Nature and scope of applied ethics.
2. Killing: Suicide, Euthanasia, Animal killing.
3. Poverty, Affluence and Morality
4. War and Violence: Terrorism.
5. Right: Nature and Value of Human Rights—Discrimination on the basis of race, caste and religion.
6. The Ethics of Care.
7. Value beyond sentient beings, Reverence for life, Deep Ecology, Concepts of Kinship Ethics.

8. Ecological Concern in Indian thoughts: Jaina and Bauddha views.

b) Man and Environment

a) Classical Indian Attitude to Environment i) The Upanisadic world-view, ii) Tagore's understanding of nature, iii) The post-Upanisadic view of nature b) Respect for Nature i) The attitude of respect, ii) Bio-centric outlook to nature, iii) Ethical standards and rules that follow from the attitude of respect to nature, iv) The idea of inherent worth of nature. c) Intrinsic Value of nature i) Moore's talk of 'intrinsic properties', ii) Chilsom's idea of intrinsic value, iii) Attfield on the intrinsic value of nature, iv) Callicott's idea of intrinsic value of nature, v) Rolston III on intrinsic value of nature, vi) intrinsic value and objective value d) Deep Ecology and its Third World Critique i) Arne Naess on Deep Ecology, ii) Ramchandra Guha's critique of Deep Ecology e) Eco-feminism i) Understanding nature and the feminine, ii) Dualisms in Western tradition, iii) Masculinity, humanity and nature.

A. Business Ethics

1. Why Study Business Ethics? i) Ethical Issues in business ii) Ethical principles in business 2. Environment and Business Ethics i) Business ethics and environmental values ii) Ethics of conserving depletable resources 3. Ethics in Management i) Management by Value Programmes: a qualitative appraisal ii) Ethical vision of Management : A Vedantic outline

B. Environmental Philosophy

Suggested Readings:

English : 1. 'Attitudes to Nature' John Passmore,, Environmental Ethics (ed.) Robert Elliot, Oxford University Press, Oxford, 1998

2. Respect for Nature: A Theory of Environmental Ethics (Select Parts), Paul Taylor, Princeton University Press, Princeton, 1986

3. 'Intrinsic value, Environmental Obligation and Naturalness', Robert Elliot Monist, 1975

4. 'The Shallow and the Deep, Long-Range Ecology Movements: A Summary', Arne Naess, Inquiry, 1973

5. Nature, Self and Gender: Feminism, Environmental Philosophy and the Critique of Rationalism, Val Plumwood, Environmental Ethics (ed.) Robert Elliot, Oxford University Press, Oxford, 1998 Bengali:

6. Paribesh o Naitikata, Nirmalya Narayan Chakraborty, Progressive Book Forum, Kolkata, 2002

C. Feminist Philosophy Suggested Readings:

English:

1) Feminist Thought: A Comprehensive Introduction, Rosemarie Tong, Vol 1&2, Third Edition, Westview Press, 2009

2) Feminist Thought, Shefali Moitra, Munshiram Manoharlal Publishers Pvt .Ltd in association with Centre of Advanced Study in Philosophy, Jadavpur University, Kolkata, 2002

3)The Second Sex, Simone De Beauvoir, Vintage Books, London, 2001

4) A Companion to Feminist Philosophy (ed. Alison, M, Jaggar and Iris Marion Young), Willey-Blackwell, 1999

5) Feminist Knowledge (RLE Feminist Theory) Critique and Construct,(ed.Sneja Gunew),Routledge Library Editions,2014

6)Representing Reason: Feminist Theory and Formal Logic, (in ed.Rachel Jaffe Falmange and Marjorie Hans), Rowman and Littlefield Publisher, 2002 35 Bengali:

7)Narivad,Rajasree Basu, Paschimbanga Rajya Pustak Parshad,Kolkata,2012.(Bengali)

8)Naitikata o Narivad, Shefali moitra ,New age Publishers Pvt Ltd,Kolkata,2003.(Bengali)

D. Peace Studies Suggested Readings: English:

1) Introduction to Peace Studies, David P. Barash , Belmont: Wadsworth, 1991.

2) 'International Relations', in The English Writings of RabindranathTagore: A Miscellany, (ed) Sisir Kumar Das, New Delhi: Sahitya Akademi, reprint 2006.

3)Handbook of Peace and Conflict Studies, Charles Webel and Johan Galtung(eds.): Routledge, London and New York, 2007

E.Recent Trends in Ethics Suggested Readings: English:

1. John F. Fitzgibbon: Ethics: Fundamental Principles of Moral philosophy, University Press of America, 1983

2. Moral Dilemmas, Christopher W. Gowans (ed): Oxford University Press, Oxford, 1987

3. Walter Sinnott-Armstrong: Moral Dilemma, Basil Blackwell, U.S.A., 1988

4. Daniel Statman (ed.): Moral Luck, State University of New York Press, New York, 1993

5. Bernard Williams: Moral Luck Philosophical Papers 1973-1980, CambridgeUniversityPress, Cambridge, 1981 36

6. Justine D'Arms & Daniel Jacobson (ed): Moral Psychology & Human Agency Philosophical Essays on the Science of Ethics, Oxford University Press, Oxford, 2014

7. Paul Katsafanas: Agency and the Foundations of Ethics—Netszschean Constitutivism, Oxford University Press, Oxford, 2013

8. John Martin Fischer and Mark Ravizza (ed): *Perspectives on Moral Responsibility*, Cornell University Press, Ithaca and London, 1993.

b) Philosophy of Human Rights (2 Credits per week)

1. A Definition and Nature of Human Rights

2. The Idea of Human Rights: Its Origins and Historical Developments during Ancient period, Modern period and Contemporary period

3. The Idea of Natural Law and Natural Rights: Thomas Hobbes and John Locke.

4. The Natural Rights Tradition: Some Reactions from Jeremy Bentham, Edmund Burke and Thomas Paine

5. Natural Right, Fundamental Right and Human Right

6. Preamble, Fundamental Rights and Duties (Indian Constitution)

7. Contemporary Perspectives: Joel Feinberg—Basic Rights



UNIVERSITY OF CALCUTTA

Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies (General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TIMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE
KOLKATA-700073
The 4th June, 2018

Paul
4/6/18
(Dr. Santanu Paul)
Deputy Registrar

DEPARTMENT OF EDUCATION

1.3.1- Criteria

SEC – A (Semester – 3) Skill for Democratic Citizenship

Objectives:- • Have an idea about their duties as citizens • Have an idea about their rights as citizens • Have an idea about child violence and child rights • Have an idea about domestic violence and domestic rights

Unit 1: Rights and duties in Indian Constitution → Democratic rights → Fundamental Rights → Duties of citizenship

Unit 2 = Protection of Children → Child protection - concept and need. → Child Rights – concept, classification and need → Legal actions –POCSO

Unit 3 = Domestic Harmony → Domestic violence – definition and types → Protection of Women from Domestic Violence Act, 2005 – basic features → Protection of males in DVA 2005

Unit 4 = Role of Education (Term Paper/Project Paper) → Awareness programmes- rallies, debates etc → Mass media → Seminars and workshops o (Any one may be taken up by the college and recorded by the students on any one of the above topics).

DSE – A (Semester – 5) Peace and Value Education

Objectives:- • To know the concept of peace education • To understand peace and non-violence • To develop the concept of value education • To understand peace, value and conflict resolution

Unit: 1 = Peace Education → Concept and Scope of Peace Education → Aims of peace Education → Role of Teachers in Promoting Peace education → NCFTE 2009 on Peace Education

Unit: 2 = Peace and Non Violence → Factors of Violence → Role of Peace for Non-Violence → Gandhian principle of Non Violence → Role of Educational Institutional in Promoting Peace education

Unit: 3 = Value Education → Meaning , Definition, Concept of Value Education → Classification of Values and Sources of Values → Need For Value education in the 21st Century → Fostering Values – Role of Home, School and Society.

Unit: 4 = Peace, Value and Conflict Resolution → Bases of conflict → Role of Value Education in resolving conflict

DSE – A (Semester – 6) Gender and Society

Objectives: • To understand the basic terms, concepts used in gender studies. • To understand the gender discrimination in construction and dissemination of knowledge. • To develop an awareness and sensitivity.

Unit: 1 = Gender Concepts → Definition of Gender and difference with sex → Gender Dynamics: Gender identity; Gender role and gender stereotype → Social Construction of Gender

Unit: 2 = Gender Socialization → Childhood, socialization and gender biases in the family and school → Social Differentiation among women in educational context by caste, tribe, religion and region → Gender discrimination in the management of the school and education system.

Unit: 3 = Gender roles → Gender Roles and Relationships Matrix → Gender based division and Valuation of Work → Exploring Attitudes towards Gender

Unit: 4 = Gender inequality in the schools → Gender inequality in the structure of knowledge → Presentation of gender in the development of curriculum and text books. → Dynamics of gender in the classroom in reference to girl friendly school, co-education and single sex schooling.

DSE – A (Semester – 6) Population Education

Objectives:- • To know the concept of Population Education • To understand Population growth and its impact and responsibilities • To understand population education and role of school

Unit: 1 = Concept of Population Education → Meaning and Objectives of Population Education → Factors influencing Population --sociological, Economic, Political, Biological and Psychological. → Concepts Related to Population Education- Birth Rate, Death Rate, Fertility, Infant Mortality, Morbidity and Migration. → Need for Population Education

Unit : 2 = Population Growth and its Impact → Quality of life-concept and meaning → Human Resource Development (concept) → Population Education programmes in India → Problems of Population Education and its Suggestive Measures

Unit : 3 = Population Growth and Responsibilities → Size of Family. → Role and responsibilities of family members. → Female Education and Status. → Growth of Population and Environment

Unit : 4 = Population Education and school → Scope of population education in schools, → Teacher role in creating awareness of population problems → Role of Mass media – (Newspapers, Radio, T.V) → Role of youth in Population Education.

DSE – B (Semester – 6) Human Rights Education

Objectives:- • To know the basic concept of human rights • To know the role of United Nations and human rights • To understand enforcement mechanism in India • To know the role of advocacy groups

Unit:1 = Basic Concept of Human Rights → Nature and concept of Human Rights → Human Values – Dignity, liberty, equality, justice, unity in diversity → Meaning and significance of Human Rights Education

Unit: 2 = United Nations and Human rights → Brief history of human rights – National and International perspectives → Universal Declaration of human rights in brief → United Nations and Human rights – duties and limitations

Unit: 3 = Human Rights – Enforcement Mechanism in India → Human Rights Act – 1993 → Human Rights Commission – role and objectives → Judicial organs – Role of Supreme court and High court in brief

Unit:4 = Role of Advocacy Groups → Role of educational institutions → Role of press and media → Role of NGOs.



UNIVERSITY OF CALCUTTA

Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

List of the subjects

<u>Sl. No.</u>	<u>Subject</u>	<u>Sl. No.</u>	<u>Subject</u>
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
✓ 13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies (General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE
KOLKATA-700073
The 4th June, 2018

S Paul
4/6/18
(Dr. Santanu Paul)
Deputy Registrar

4. Bose and Sterling, *Elements of English Rhetoric and Prosody*

DSE-B2 (SEMESTER 5, CODE – ENG-A-DSE-B-5-2-TH/TU)
CONTEMPORARY INDIA: WOMEN AND EMPOWERMENT: 6 CREDITS

(5 CREDITS THEORY AND 1 CREDIT TUTORIAL)

Social Construction of Gender

History of Women's Movement in India (pre-independence and post-independence)

Women and Law: Domestic Violence, Female Foeticide, Sexual Harassment
Dalit Women and Double Marginalisation

End Semester Question Pattern:

Objective – 5 marks

Society, Sex and Gender – 20 marks

History of Women's Movement in India – 15 marks

Women and Law – 15 marks

Dalit Women – 10 marks

Recommended Readings:

1. Rinita Mazumdar, *A Short Introduction to Feminist Theory*, Kolkata: Anustup, 2010.
2. 'Feminist Criticism' in Peter Barry, *Beginning Theory*, Chennai: T.R. Publications, 1999.
3. V. Geetha, *Gender*, Calcutta: Stree, 2002.
4. Kate Millet, *Sexual Politics*, New York: Doubleday, 1970.
5. Ann Oakley, *Sex, Gender and Society*, London: Temple Smith, 1972.
6. Ray Raka, *Fields of Protest: Women's Movements in India*, New Delhi: Kali for Women, 2000.
7. *The Sexual Harassment of Women at Workplace, (Prevention, Prohibition and Redressal)* Bare Act, New Delhi: Universal, 2014.
8. Sharmila Rege, *Against the Madness of Manu, B.R. Ambedkar's Writings on Brahmanical Patriarchy*, New Delhi: Navayana, 2013.
9. Sandra Gilbert and Susan Gubar, *The Madwoman in the Attic: The Woman Writer and the Nineteenth Century Literary Imagination*

DSE-A3 (SEMESTER 6, CODE – ENG-A-DSE-A-6-3-TH/TU)
PARTITION LITERATURE: 6 CREDITS

(5 CREDITS THEORY AND 1 CREDIT TUTORIAL)

Novel

Amitav Ghosh, *The Shadow Lines*

CC11 (SEMESTER 5, CODE – ENG-A-CC-5-11-TH/TU) WOMEN'S WRITINGS: 6 CREDITS

(5 CREDITS THEORY AND 1 CREDIT TUTORIAL)

Poetry Emily Dickinson, 'I cannot live with you' Elizabeth Barrett Browning, 'How do I love thee' Eunice De Souza, 'Advice to Women'

Fiction Alice Walker, Color Purple OR Emily Bronte, Wuthering Heights Mahasweta Devi, 'Draupadi', translated Gayatri Chakravorty Spivak Katherine Mansfield, 'Bliss'

Non-Fiction Mary Wollstonecraft, A Vindication of the Rights of Woman, Chapters I & II (New York: Norton, 1988)

Rassundari Devi, Amar Jiban, translated Enakshi Chatterjee, Writers' Workshop.

End Semester Question Pattern: Objective – 5 marks One question of 15 marks from poetry (out of two)
Two questions of 15 marks each from fiction (out of three, one from each) One question of 15 marks from non-fiction (out of two, one from each)



UNIVERSITY OF CALCUTTA

Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies (General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE
KOLKATA-700073
The 4th June, 2018

Paul
4/6/18
(Dr. Santanu Paul)
Deputy Registrar

Changing Office of the Prime Minister in India, Vancouver: University of British Columbia Press, pp. 20-47.

H. Khare, (2003) 'Prime Minister and the Parliament: Redefining Accountability in the Age of Coalition Government', in A. Mehra and G. Kueck (eds.) The Indian Parliament: A Comparative Perspective, New Delhi: Konark, pp. 350-368.

U. Baxi, (2010) 'The Judiciary as a Resource for Indian Democracy', Seminar, Issue 615, pp. 61-67.

R. Ramachandran, (2006) 'The Supreme Court and the Basic Structure Doctrine' in B. Kirpal et.al (eds.) Supreme but not Infallible: Essays in Honour of the Supreme Court of India, New Delhi: Oxford University Press, pp. 107-133.

M. Singh, and R. Saxena (eds.), (2011) 'Towards Greater Federalization,' in Indian Politics: Constitutional Foundations and Institutional Functioning, Delhi: PHI Learning Private Ltd., pp.166-195.

V. Marwah, (1995) 'Use and Abuse of Emergency Powers: The Indian Experience', in B. Arora and D. Verney (eds.) Multiple Identities in a Single State: Indian Federalism in a Comparative Perspective, Delhi: Konark, pp. 136-159.

Additional Reading:

The Constitution of India: Bare Act with Short Notes, (2011) New Delhi: Universal, pp. 4-16.

ভারতীয় সংবিধান (বাংলা সংস্করণ)

দুর্গাদাস বসু - ভারতের সংবিধান পরিচয়

সুভাষ সি কাশ্যপ - আমাদের সংবিধান (অনুবাদ: পার্থ সরকার)

অমল কুমার মুখোপাধ্যায় - ভারতীয় সংবিধানের সহজ পাঠ

Politics in India: Structures and Processes Code: PLS-A-CC-2-4-TH+TU

Module I:

1. Party system: features and trends – major national political parties in India: ideologies and programmes. Coalition politics in India: nature and trends. Political parties in West Bengal: Overview.
2. Electoral process: Election Commission: composition, functions, role. Electoral reforms.
3. Role of business groups, working class, peasants in Indian politics.

Module IV:

4. Role of (a) religion (b) language (c) caste (d) tribe.
5. Regionalism in Indian politics.
6. New Social Movements since the 1970s: (a) environmental movements (b) women's movements (c) human rights movements.

Readings:

R. Kothari, (2002) 'The Congress System', in Z. Hasan (ed.) Parties and Party Politics in India, New Delhi: Oxford University Press, pp 39-55.

E. Sridharan, (2012) 'Introduction: Theorizing Democratic Consolidation, Parties and Coalitions', in Coalition Politics and Democratic Consolidation in Asia, New Delhi: Oxford University Press.

Y. Yadav and S. Palshikar, (2006) 'Party System and Electoral Politics in the Indian States, 1952-2002: From Hegemony to Convergence', in P. deSouza and E. Sridharan (eds.) India's Political Parties, New Delhi: Sage Publications, pp. 73-115.

R. Hardgrave and S. Kochanek: India: Government and Politics in a Developing Nation (Latest edition).

S. Palshikar, (2008) 'The Indian State: Constitution and Beyond', in R. Bhargava (ed.) Politics and Ethics of the Indian Constitution, New Delhi: Oxford University Press, pp. 143-163.

Partha Chatterjee: State and Politics in India.

Sudipta Kaviraj ed.: Politics in India.

Semester II

Constitutional Government in India

Code: PLS-A-CC-2-3-TH+TU

Module I:

1. Evolution of the Indian Constitution. Role of the Constituent Assembly--- debates (overview). The Preamble.
2. Citizenship. Fundamental Rights and Duties. Directive Principles.
3. Nature of Indian Federalism: Union-State Relations.
4. Union Executive: President, Vice-President: election, position, functions (focus on Emergency Powers), Prime Minister, Council of Ministers, relationship of Prime Minister and President.

Module II:

5. Union Legislature: Rajya Sabha, Lok Sabha: Organisation, Functions – Lawmaking procedure, Parliamentary procedure, Privileges, Committee system. Speaker.
6. Government in states: Governor, Chief Minister and Council of Ministers: position and functions – State Legislature: composition and functions.
7. Judiciary: Supreme Court and the High Courts: composition and functions – Judicial activism.
8. Constitutional amendment. Major recommendations of National Commission to Review the Working of the Constitution.

Readings:

- Constitution of India: Government of India.
G. Austin: The Indian Constitution.
G. Austin: Working a Democratic Constitution
S.K. Chaube: The Constituent Assembly--- Springboard of a Revolution (latest edition).
M.V. Pylee: India's Constitution.
S.L. Sikri: Indian Government and Politics.
S.C. Kashyap ed.: Perspectives on the Constitution.
A.G. Noorani: Constitutional Question in India.
G. Austin, (2010) 'The Constituent Assembly: Microcosm in Action', in The Indian Constitution: Cornerstone of a Nation, New Delhi: Oxford University Press, 15th print, pp.1-25.
R. Bhargava, (2008) 'Introduction: Outline of a Political Theory of the Indian Constitution', in R. Bhargava (ed.) Politics and Ethics of the Indian Constitution, New Delhi: Oxford University Press, pp. 1-40.
D. Basu, (2012) Introduction to the Constitution of India, New Delhi: Lexis Nexis.
S. K. Chaube, (2009) The Making and Working of the Indian Constitution, Delhi: National Book Trust.
G. Austin, (2000) 'The Social Revolution and the First Amendment', in Working a Democratic Constitution, New Delhi: Oxford University Press, pp. 69-98.
B. Shankar and V. Rodrigues, (2011) 'The Changing Conception of Representation: Issues, Concerns and Institutions', in The Indian Parliament: A Democracy at Work, New Delhi: Oxford University Press, pp. 105-173.
V. Hewitt and S. Rai, (2010) 'Parliament', in P. Mehta and N. Jayal (eds.) The Oxford Companion to Politics in India, New Delhi: Oxford University Press, pp. 28-42.
J. Manor, (2005) 'The Presidency', in D. Kapur and P. Mehta P. (eds.) Public Institutions in India, New Delhi: Oxford University Press, pp.105-127.
J. Manor, (1994) 'The Prime Minister and the President', in B. Dua and J. Manor (eds.) Nehru to the Nineties: The

Discipline-specific Electives:

Gender and Politics

Code: PLS-A-DSE-5-A(1)-TH+TU

Module I

I. Groundings

1. Patriarchy

- a. Sex-Gender Debates
- b. Public and Private
- c. Power

2. Feminism

3. Family, Community, State

- a. Family
- b. Community
- c. State

Module II

II. Movements and Issues

1. History of the Women's Movement in India

2. Violence against women

3. Work and Labour

- a. Visible and Invisible work
- b. Reproductive and care work
- c. Sex work

Readings:

I. Groundings

1. Patriarchy

T. Shinde, (1993) 'Stree Purusha Tulna', in K. Lalitha and Susie Tharu (eds), *Women Writing in India*, New Delhi, Oxford University Press, pp. 221-234.

a. Sex Gender Debates

Readings:

V Geetha, (2002) *Gender*, Kolkata, Stree, pp. 1-20

b. Public and Private

Readings:

M. Kosambi, (2007) *Crossing the Threshold*, New Delhi, Permanent Black, pp. 3-10; 40-46

c. Power

Readings:

N. Menon, (2008) 'Power', in R. Bhargava and A. Acharya (eds), *Political Theory: An Introduction*, Delhi: Pearson, pp.148-157

2. Feminism

Readings:

B. Hooks, (2010) 'Feminism: A Movement to End Sexism', in C. Mc Cann and S. Kim (eds), *The Feminist Reader: Local and Global Perspectives*, New York: Routledge, pp. 51-57

R. Delmar, (2005) 'What is Feminism?', in W. Kolmar & F. Bartkowski (eds) *Feminist Theory: A Reader*, pp. 27-37

3. Family, Community and State



UNIVERSITY OF CALCUTTA

Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies (General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management – ASPV (Major)
22	History (Honours / General)	50	Communicative English – CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE
KOLKATA-700073
The 4th June, 2018

Paul
4/6/18
(Dr. Santanu Paul)
Deputy Registrar

University of Calcutta

Under Graduate Curriculum under Choice Based Credit System (CBCS)

Syllabus for Ability Enhancement Compulsory Course-2 (AECC-2) in
Environmental Studies

Semester-2

Total Marks-100 (Credit -2)

(50 Theory-MCQ type + 30 Project + 10 Internal Assessment + 10 Attendance)

[Marks obtained in this course will be taken to calculate SGPA & CGPA]

Theory

Unit 1	Introduction to environmental studies	2 lectures
	<ul style="list-style-type: none">• Multidisciplinary nature of environmental studies;• Scope and importance; Concept of sustainability and sustainable development.	
Unit 2	Ecology and Ecosystems	6 lectures
	<ul style="list-style-type: none">• Concept of ecology and ecosystem, Structure and function of ecosystem; Energy flow in an ecosystem; food chains, food webs; Basic concept of population and community ecology; ecological succession.• Characteristic features of the following:<ol style="list-style-type: none">a) Forest ecosystemb) Grassland ecosystemc) Desert ecosystemd) Aquatic ecosystems (ponds, streams, lakes, wetlands, rivers, oceans, estuaries)	
Unit 3	Natural Resources	8 lectures
	<ul style="list-style-type: none">• Concept of Renewable and Non-renewable resources• Land resources and land use change; Land degradation, soil erosion and desertification.• Deforestation: Causes, consequences and remedial measures• Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).• Energy resources: Environmental impacts of energy generation, use of alternative and nonconventional energy sources, growing energy needs.	
Unit 4	Biodiversity and Conservation	8 lectures
	<ul style="list-style-type: none">• Levels of biological diversity: genetic, species and ecosystem diversity;• Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots• India as a mega-biodiversity nation; Endangered and endemic species of India• Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions;• Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.• Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.	
Unit 5	Environmental Pollution	8 lectures
	<ul style="list-style-type: none">• Environmental pollution: concepts and types,• Air, water, soil, noise and marine pollution- causes, effects and controls• Concept of hazardous waste and human health risks• Solid waste management: Control measures of Municipal, biomedical and e-waste.	

Unit 6 Environmental Policies and Practices	7 lectures
<ul style="list-style-type: none"> •Climate change, global warming, ozone layer depletion, acid rain and their impacts on human communities and agriculture •Environment Laws: Wildlife Protection Act; Forest Conservation Act. Water (Prevention and control of Pollution) Act; Air (Prevention & Control of Pollution) Act; Environment Protection Act; Biodiversity Act. •International agreements: Montreal Protocol, Kyoto protocol and climate negotiations; Convention on Biological Diversity (CBD). •Protected area network, tribal populations and rights, and human wildlife conflicts in Indian context. 	
Unit 7 Human Communities and the Environment	6 lectures
<ul style="list-style-type: none"> •Human population growth: Impacts on environment, human health and welfare. •Case studies on Resettlement and rehabilitation. • Environmental Disaster: Natural Disasters-floods, earthquake, cyclones, tsunami and landslides; Manmade Disaster- Bhopal and Chernobyl. •Environmental movements: Bishnois, Chipko, Silent valley, Big dam movements. •Environmental ethics: Role of gender and cultures in environmental conservation. •Environmental education and public awareness 	
Project/ Field work	Equal to 5 lectures
<ul style="list-style-type: none"> •Visit to an area to document environmental assets: Natural resources/flora/fauna, etc. •Visit to a local polluted site-Urban/Rural/Industrial/Agricultural. •Study of common plants, insects, fish, birds, mammals and basic principles of identification. •Study of ecosystems-pond, river, wetland, forest, estuary and agro ecosystem. 	
Total	50 Lectures

Suggested Reading:

- Asthana, D. K. (2006). *Text Book of Environmental Studies*. S. Chand Publishing.
- Basu, M., Xavier, S. (2016). *Fundamentals of Environmental Studies*, Cambridge University Press, India
- Basu, R. N., (Ed.) (2000). *Environment*. University of Calcutta, Kolkata
- Bharucha, E. (2013). *Textbook of Environmental Studies for Undergraduate Courses*. Universities Press.
- De, A.K., (2006). *Environmental Chemistry*, 6th Edition, New Age International, New Delhi.
- Mahapatra, R., Jeevan, S.S., Das, S. (Eds) (2017). *Environment Reader for Universities*, Centre for Science and Environment, New Delhi.
- Masters, G. M., & Ela, W. P. (1991). *Introduction to environmental engineering and science*. Englewood Cliffs, NJ: Prentice Hall.
- Odum, E. P., Odum, H. T., & Andrews, J. (1971). *Fundamentals of ecology*. Philadelphia: Saunders.
- Sharma, P. D., & Sharma, P. D. (2005). *Ecology and environment*. Rastogi Publications.