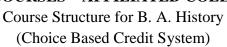
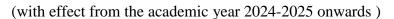


MANONMANIAM SUNDARANAR UNIVERISTY, TIRUNELVELI-12

SYLLABUS

UG - COURSES – AFFILIATED COLLEGES







| Semester-III | | | | | | | |
|--------------|-------------------|--|-----------------|--------|--|--|--|
| Part | Subject Status | Subject Title | Subject Code | Credit | | | |
| I | LANGUAGE | TAMIL/MALAYALAM/HINDI | | 3 | | | |
| II | ENGLISH | ENGLISH | | 3 | | | |
| III | CORE V | HISTORY OF INDIA - 1707 - 1857 CE | | 5 | | | |
| III | CORE VI | HISTORY OF TAMIL NADU SINCE 1801 CE | | 5 | | | |
| III | ELECTIVE 3 | INDIAN POLITICAL THOUGHT | | 3 | | | |
| IV | SEC 4 | ENTREPRENEURSHIP DEVELOPMENT | | 1 | | | |
| IV | EVS | ENVIRONMENTAL STUDIES | | 2 | | | |
| IV | | NAAN MUTHALVAN Introduction to Polity | | 2 | | | |



Total Marks: 100 Internal Exam: 25 marks + External Exam: 75 marks

A. Scheme for internal Assessment:

Maximum marks for written test: 20 marks

3 internal tests, each of **I hour** duration shall be conducted every semester.

To the average of the **best two** written examinations must be added the marks scored in. The **assignment** for 5 marks.

The break up for internal assessment shall be:

Written test- 20 marks; Assignment -5 marks Total - 25 marks

B. Scheme of External Examination

3 hrs. examination at the end of the semester

A-Part: 1 mark question two - from each unit B-Part: 5 marks question one - from each unit C-Part: 8 marks question one - from each unit

Conversion of Marks into Grade Points and Letter Grades

| S.No | Marks | Letter Grade | Grade point (GP) | Performance |
|------|--------|--------------|------------------|---------------|
| 1 | 90-100 | O | 10 | Outstanding |
| 2 | 80-89 | A+ | 9 | Excellent |
| 3 | 70-79 | A | 8 | Very Good |
| 4 | 60-69 | B+ | 7 | Good |
| 5 | 50-59 | В | 6 | Above Average |
| 6 | 40-49 | С | 5 | Pass |
| 7 | 0-39 | RA | - | Reappear |
| 8 | 0 | AA | - | Absent |

Cumulative Grade Point Average (CGPA)

$$CGPA = \frac{\Sigma (GP \times C)}{\Sigma C}$$

- **GP** = Grade point, **C** = Credit
- CGPA is calculated only for Part-III courses
- CGPA for a semester is awarded on cumulative basis

> Classification

a) First Class with Distinction
 b) First Class
 c CGPA ≥ 7.5*
 c CGPA ≥ 6.0

c) Second Class : $CGPA \ge 5.0$ and < 6.0

d) Third Class : CGPA < 5.0



Part I TAMIL தமிழக வரலாறும் பண்பாடும்

அலகு 1

தொல் பழங்கால வரலாறும் சங்ககால வரலாறும்

- 1. தொல் தமிழர்
- 2. பழைய கற்காலம்
- 3. புதிய கற்காலம்
- உலோகக் காலம்
- 5. அகழ்வாராய்ச்சியில் தமிழும் தமிழரும் (கீழடி வரை)
- 6. திணை வாழ்வியல் (களவு வாழ்க்கை, கற்பு வாழ்க்கை, உணவு, அணிகலன்கள், வாணிகம், விளையாட்டுகள்)
- 7. கல்வியும் கலைகளும்
- 8. தமிழ் வளர்த்த சங்கம்
- 9. சங்க கால ஆட்சி முறை
- 10. அயல்நாட்டுத் தொடர்புகள்

அலகு 2

ஆட்சியர் வரலாறு

- மூவேந்தர் வரலாறு
- 2. பல்லவர் வரலாறு
- 3. நாயக்கர் ஆட்சி
- 4. முகம்மதியர் ஆட்சி
- மராட்டியர் ஆட்சி

அலகு 3

ஐரோப்பியர் கால வரலாறு

- 1. போர்த்துகீசியர்
- டச்சுக்காரர்கள்
- 3. டேனிஸ்காரர்கள்
- 4. பிரெஞ்சுக்காரர்கள்
- 5. ஆங்கிலேயர்கள்
- 6. பாளையக்காரர்கள்
- 7. இந்தியா விடுதலை போராட்டத்தில் தமிழ்நாடு

அலகு 4

விடுதலைக்குபின் தமிழ்நாட்டு வரலாறு

- 1. மொழிப்போராட்டம்
- 2. சமூக மறுமலர்ச்சி
- தொழில்நுட்ப வளர்ச்சி

அலகு 5

மொழிப்பயிற்சி

- நிறுத்தக் குறிகள்
- கலைச்சொற்கள்
- மொழிபெயர்ப்பு

Text Books

- . தமிழக வரலாறும் பண்பாடும் கே. கே. பிள்ளை, உலகத் தமிழாராய்ச்சி நிறுவனம் , சென்னை
- 2. தமிழர் நாகரீகம் பண்பாடும் அ. தட்சிணாமூர்த்தி, யாழ் வெளியீடு, சென்னை
- 3. தமிழக வரலாறும் பண்பாடும்-வே.தி.செல்லம், மணிவாசகர் பதிப்பகம், சென்னை

Reference Books

- . ____ தமிழக சமூதாய பண்பாட்டு கலை வரலாறு கு சேதுராமன் , என்,சி,பி.எச், சென்னை
- 2. தமிழர் கலையும் பண்பாடும்-அ.கா.பெருமாள், என்,சி,பி.எச், சென்னை
- ஒரு பண்பாட்டின் பயணம்: சிந்து முதல் வைகை வரை ஆர். பாலகிருஷ்ணன், ரோஜா முத்தையா ஆராய்ச்சி நூலகம், சென்னை



GENERAL ENGLISH

Unit I ACTIVE LISTENING

Short Story

- 1.1 In a Grove Akutagawa Ryunosuke Translated from Japanese by Takashi Kojima
- 1.2 The Gift of the Magi O' Henry

Prose

- 1.3 Listening Robin Sharma
- 1.4 Nobel Prize Acceptance Speech Wangari Maathai

Unit II INTERPERSONAL RELATIONSHIPS

Prose

- 2.1 Telephone Conversation Wole Soyinka
- 2.2 Of Friendship Francis Bacon

Song on (Motivational/ Narrative)

- 2.3 Ulysses Alfred Lord Tennyson
- 2.4 And Still I Rise Maya Angelou

Unit III COPING WITH STRESS

Poem

- 3.1 Leisure W.H. Davies
- 3.2 Anxiety Monster Rhona Mc Ferran

Readers Theatre

- 3.3 The Forty Fortunes: A Tale of Iran
- 3.4 Where there is a Will Mahesh Dattani

Unit IV Grammar

- 4.1 Phrasal Verbs & Idioms
- 4.2 Modals and Auxiliaries
- 4.3 Verb Phrases Gerund, Participle, Infinitive

Unit V Composition/ Writing Skills

- 5.1 Official Correspondence Leave Letter, Letter of Application, Permission Letter
- 5.2 Drafting Invitations
- 5.3 Brochures for Programmes and Events

Text Books (Latest Editions)

- 1. Wangari Maathai Nobel Lecture. Nobel Prize Outreach AB 2023. Jul 2023.
- 2. Mahesh Dattani, Where there is a Will. Penguin, 2013.
- 3. Martin Hewings, Advanced English Grammar, Cambridge University Press, 2000
- 4. Essential English Grammar by Raymond Murphy

Web Resources

- 1. WangariMaathai Nobel Lecture. Nobel Prize Outreach AB 2023. Mon. 17 Jul 2023. https://www.nobelprize.org/prizes/peace/2004/maathai/lecture/
- 2. Telephone Conversation Wole Soyinka https://www.k-state.edu/english/westmank/spring 00/SOYINKA.html
- 3. Anxiety Monster-RhonaMcFerran www.poetrysoup.com



HISTORY OF INDIA – 1707 – 1857 CE

Learning Objectives

The learning objectives are to impart:

- Impart knowledge about the causes for the advent of the Europeans in India
- Understand the consequences of the British-French rivalry and beginning of the British supremacy
- Create awareness about the various strategies formulated by the British to capture power princely states
- Understand about British state and revenue administration and its consequences
- Acquire knowledge about Indian response to the British rule viz. peasant movements, Poligar rebellion, 1857 Revolt etc.

Unit- I

European Penetration into India: Early European Settlements -The Portuguese - The Dutch - The English and the French - Golden Firman - Dastaks

Unit- II

The Struggle for Supremacy: Anglo – French Rivalry- Carnatic Wars– Robert Clive –Dupleix -Battle of Plassey – Battle of Buxar - Treaty of Allahabad - Later Mughals.

Unit-III

British Expansion in India: Ring Fence policy – Policy of Subordinate Alliance – Policy of Lapse and Annexations by conquests – Anglo - Mysore wars - Anglo Maratha wars – First Anglo Afghan war – Anglo - Burmese wars – Anglo - Sikh conflicts

Unit- IV

British Colonial Administration: Early Administrative Structure – Regulating Act – Pitt's India Act – Charter Acts - Economic Impact of British Colonial Rule – Land Revenue Administration –Permanent Land Revenue Settlement- Ryotwari System - Mahalwari System - Commercialisation of Agriculture - Railways – Roadways - Telegraph and Postal services – Famine Commissions.

Unit- V

Indian Response to British Rule: Early Peasant movement and Tribal Uprisings – KolUprising - Moplah Uprisings – Bhil Uprisings – Santhal Uprisings - Poligar Uprisings – Puli Thevan – Velu Nachaiyar – Kattabomman – Maruthu Brothers - Vellore Mutiny – The Great Revolt of 1857 – Jhansi Rani.

LEARNING RESOURCES

Recommended Books

- 1. Sir Syed Ahmad Khan, The Indian Revolt, Medical Hall Press, Benares, 1873.
- 2. Bipan Chandra, History of Modern India, Orient Blackswan, New Delhi 2019



- 3. Bipan Chandra, et al., India's Struggle for Independence, Penguin Books, New Delhi, 2016.
- 4. Desai A.R, Social Background of Indian Nationalism, Popular Prakasham, Bombay, 1976.
- 5. Grover B.L, A New Look on Modern Indian History, S. Chand &Co, Delhi, 1977.

References

- 1. Lucy Southerland, The East India Company in the 18thCentury Politics, Oxford, 1952.
- 2. Percival Spear, A History of India, Volume 2, Penguin Books, Great Britain, 1976.
- 3. Phillips C.H, East India Company, Routledge, London, 1961.
- 4. Ramachandran C. East India Company and the South Indian Economy, New EraPublications, Madras, 1980.
- 5. Roberts P.E, History of British India, Oxford University Press, Oxford, 1921.
- 6. Sailendranath Sen, An Advanced History of Modern India, Macmillan Publishers, 2020

Web Resources

1. http://www.national archives.nic.in

HISTORY OF TAMIL NADU SINCE 1801 CE

Learning Objectives

The learning objectives are to impart:

- Understanding about the colonial administration and early resistance in Tamil Nadu
- Appreciation of the social movements in Tamil Nadu like the Temple Entry movement and Self-Respect movement
- Knowledge about contribution of Tamil Nadu towards Freedom movement
- Ability to comprehend the contributions of the Congress, DMK and ADMK governments
- Awareness about the various issues present in Tamil Nadu

UNIT I

Early Resistance to British Rule – South Indian Rebellion - Vellore Mutiny - Tamil Nadu under the Europeans – Socio - Economic Activities.

UNIT II

Nationalism in Tamil Nadu - Madras Native Association - Madras Mahajana Sabha - Swadeshi Movement - V.O. Chidambaram Pillai - Home Rule Movement - Non-Cooperation Movement - Civil Disobedience Movement - Impact of Gandhi's visit to Tamil Nadu - Congress Ministry - Quit India Movement.

UNIT III

Political and Social Awakening - Dravidian Association - Non - Brahmin Movement -



Justice Party Government – Social Justice Measures (Communal G.O.s) – Periyar's Self Respect Movement – Formation of Dravidar Kazhagam – Women Empowerment.

UNIT IV

Government after Independence - Rajaji Ministry - Kamaraj Ministry - Mid - day Meals Scheme - Industrialisation - Agriculture and Irrigation Reforms - Kamaraj Plan - Bhaktavatsalam - Anti - Hindi Agitation.

UNIT V

Formation of Dravida Munnetra Kazhagam – C.N. Annadurai - Women Welfare – Agriculture and Industrial development- Renaming Madras State as Tamil Nadu - Karunanidhi's Administration - Birth of AIADMK - M.G. Ramachandran - Nutritious Meal Scheme - J. Jayalalitha – Integration of Tamil Districts – River Water Disputes – Reservation Policy.

LEARNING RESOURCES

Recommended Books

- 1. A.Ramaswamy, TharkalaThamizhnattuVaralaru, New Century Book House, Chennai, 2018 (In Tamil)
- 2. G.Venkatesan, History of Modern Tamil Nadu 1600-2011, VC Publications, Rajapalayam
- 3. K.Rajayyan, History of Tamil Nadu, 1565 to 1982, Raj Publishers, 1982
- 4. K.Rajayyan, Tamil Nadu: A Real History, EthirVeliyeedu, Pollachi, 2015
- 5. Ma. Po. Civananam, History of Freedom Movement in Tamil Nadu, Tamil University, 1988
- 6. N.Subramanian, History of Tamil Nadu, 1336 to 1984, Koodal Publications, 1976
- 7. Noboru Karashima, ed., A Concise History of South India: Issues and Interpretations, OUP, New Delhi, 2014
- 8. S.Narayan, The Dravidian Years: Politics and Welfare in Tamil Nadu, Oxford University Press, New Delhi, 2018

References

- 1. A.R. Venkatachalapahty, Tamil Characters: Personalities, Politics, Culture, Pan MacMillan, 2019
- 2. A.S. Panneerselvan, Karunanidhi: A Life, Penguin Random House India Pvt. Ltd., 2021
- 3. Anita Diehl, E.V. Ramaswami Naicker Periyar: A Study of the Influence of a Personality in Contemporary South India, B.I. Publications, Bombay, 1978
- 4. Eugene F. Irschick, Politics and Social Conflict in South India: The Non-Brahman Movement and Tamil Separatism, 1916-1929, University of California Press, California, 1969
- 5. K. NambiArooran, Tamil Renaissance and Dravidian Nationalism 1905-1944, Koodal



- 6. M. Naganathan, Tamil Nadu Economy: Trends & Prospects, University of Madras, Chennai, 2002
- 7. M.S.S. Pandian, (David E. Ludden and S. Ananthi, eds.), The Strangeness of Tamil Nadu: Contemporary History and Political Culture in South India, Permanent Black, 2019
- 8. M.S.S. Pandian, Brahmin and Non-Brahmin: Genealogies of the Tamil Political Present, Permanent Black, New Delhi, 2016
- 9. M.S.S. Pandian, The Image Trap: M.G. Ramachandran in Film and Politics, Sage Pub., New Delhi, 1992
- 10. Na. Velucami, Dr. Kalaignar M. Karunanidhi: A Study, Tamizhcholai, 2006
- 11. P. Rajaraman, The Justice Party A Historical Perspective, 1916-1937, Poompozhil Publishers, Madras, 1988
- 12. P.C. Ganesan, C.N. Annadurai, Publications Division, New Delhi, Publishers, Madurai, 1980
- 13. Rajmohan Gandhi, Rajaji: A Life, Penguin India, New Delhi, 2010
- 14. Robert L. Hardgrave Jr., The Dravidian Movement, Popular Prakashan, Bombay, 1965
- 15. T. Stalin Gunasekaran, The Role of Tamil Nadu in Freedom Struggle, NivethithaPathippagam, 2000 (InTamil)
- 16. V. Gita and S.V. Rajdurai, Towards a Non-Brahmin Millennium: From IyotheeThass to Periyar, Samya, 1998
- 17. V.K. Narasimhan, Kamaraj: A Study, National Book Trust, New Delhi, 2007
- 18. Vijaya Ramaswamy, Historical Dictionary of the Tamils, Rowman & Littlefield, Maryland, USA, 2017

Web Resources

- 1. https://archive.org/details/aclcpl00000795a1498
- 2. www.britannica.com/tamilnadu-india

INDIAN POLITICAL THOUGHT

Learning Objectives

The learning objectives are to impart:

- Knowledge about Ancient political thinkers Kautilya and Kalhana
- Understanding Barani's idea of a Good ruler and Abul Fazal's Governance and Administration
- The ideas of Raja Ram Mohan Roy, Ranade, Gokhale and Mahatma Gandhi
- Ideas of Radical thinkers such as Tilak, Subramania Bharathi, V.O. Chidambaram Pillai and Aurobindo Ghosh
- Ideas of Egalitarian thinkers like Periyar and Ambedkar

IINIT I

Ancient Thinkers – Thiruvalluvar – Kautilya – Arthasasthra – Kalhana-Rajatarangini.

UNIT II

Medieval Thinkers - Ziyauddin Barani - Ideal Polity- Abul Fazl- Views on Governance and Administration.



UNIT III

Modern Thinkers - Rajaram Mohan Roy - M.G. Ranade - G.K. Gokhale - Mahatma Gandhi

UNIT IV

Radical Thinkers - Bal Gangadhar Tilak - Subramania Bharathi - V.O. Chidambaram - Aurobindo Ghosh .

UNIT V

Egalitarian Thinkers- E.V.R. Periyar - B.R. Ambedkar.

Socialist Thinkers: Ram Manohar Lohia - Jayaprakash Narayanan

LEARNING RESOURCES

Recommended Books

- 1. VishnooBhagwan, Indian Political Thinkers, Atma Ram& Sons, New Delhi, 1999Guha, Ramachandra Guha, Makers of Modern India, Penguin India, New Delhi, 2012.
- 2. V.P. Varma, Modern Indian Political Thought, Vol. II, Laxmi Narain Agarwal, Agra, 2020

References

- 1. Bidyut Chakrabarty, et. al., Modern Indian Political Thought: Text and Context, Sage Pub., New Delhi, 2009
- 2. M. Sharma, Political Theory and Thought, Anmol Publisher, New Delhi, 2004
- 3. V.R. Mehta, Foundations of Indian Political Thought, Taylor & Francis Exclusive, CBS Publishers & Distributors Pvt. Ltd., New Delhi, 2022

Web Resources

1. https://archive.org/details/in.gov.ignca.18749/page/n13/mode/2up

ENTREPRENEURSHIP DEVELOPMENT

Learning Objectives

The learning objectives are to impart:

- Knowledge of traits of entrepreneurs and rural entrepreneurship
- Knowledge of starting a small industry and government subsidies
- Quality control and assurance techniques
- Understanding of elements of marketing
- Understanding of human behaviour and stress management

UNIT I

Entrepreneur: Traits and Functions – Innovation – Entrepreneurship motivation – Rural Entrepreneurship

UNIT II

Steps for starting a small industry: Identification of Business opportunity – Selection of Product – Government Subsidies and Incentives



UNIT III

Quality Assurance and Testing of Product – Total Quality Management – Quality Control and Assurance Techniques

UNIT IV

Elements of Marketing: Market Strategy – Packing and Advertisement – After Sales Service

UNIT V

Management of Self and understanding Human Behaviour – Stress Management – Social Responsibility and Business Ethics

LEARNING RESOURCES

Recommended Books

- 1. P.C. Jain, A Handbook for New Entrepreneurs, Entrepreneurship Development Institute of India, OUP, New Delhi, 1998
- 2. S. Anil Kumar, et. al., Entrepreneurship Development, New Age Intl. Pvt. Ltd. Pub., New Delhi, 2003
- 3. S.S. Khanka, Entrepreneurial Development, S. Chand & Co. Ltd., New Delhi, 2020
- 4. Sangeeta Sharma, Entrepreneurship Development, PHI Learning Pvt. Ltd., Delhi, 2021

References

- 1. Jay Narayan Vyas, Planning an Industrial Unit, N.K. Vyas Family Trust, 1982
- 2. Udai Pareek and T. Venkateswara Rao, Developing Entrepreneurship: A Handbook, Learning Systems, New Delhi, 1978

Web Resources

1. http://www.startupindia.gov.in

NAAN MUDHALVAN INTRODUCTION TO POLITICAL SCIENCE

Learning Objectives

The learning objectives are to impart:

- Understanding of the role of the centre and states.
- Compare and contrast the role of citizens
- Knowing the forms of the Government.
- Understanding the positions of the executives.
- Identifying the role of the political parties.

Unit I

State and its elements – relationship between Government and Society – Organs of Government – Legislative, Executive and Judiciary.



Unit II

Citizenship – meaning – rights of the citizen – Duties of Citizen – Fundamental rights – How rights are safeguarded.

Unit III

Forms of Government – Unitary and Federal - Types of Constitutions – Written and Unwritten Flexible and rigid.

Unit IV

Executives – Parliamentary and Presidential – Legislature – Unicameral – Bicameral – Judiciary – Judicial review – Rule of Law and Administrative Law.

Unit V

Separation of Powers – Pressure groups – Political parties – Single Party, Bi-party and Multi-party systems

Reference Books:

- 1. V. D. Mahajan, Select Modern Constitutions, S. Chand and Co, New Delhi, 1975.
- 2. A. C. Kapur, Select Constitutions, S. Chand and Co, New Delhi, 1975
- 3. Hiermer Finer, The Theory and Practices of Modern Government, Surject Publications, New Delhi, 1977.

ENVIRONMENTAL STUDIES

Course Objectives:

The main objectives of this course are:

• Enable the students to be aware of our natural resources, ecosystems and their linkages to society, livelihood, environment and conservation.

Unit I

Multidisciplinary Nature of Environmental Studies and Natural Resources:

Concept of Renewable and non-renewable resource, Natural resources and associated problems: Forest resources: Deforestation, Timber extraction, mining, dams and their effects. Water resources: Over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Land resources: Land degradation, man induced landslides, soil erosion and desertification.

UNIT II

Ecosystem: Concept of an Ecosystem, Structure and Functions of Ecosystem, Energy flow in the Ecosystem; Ecological Succession, Food Chains, Food webs and Ecological Pyramids, Characteristic Features of the following Ecosystem: Forest



Ecosystem, Grassland Ecosystem and Desert Ecosystem, Aquatic Ecosystem (Ponds, Streams, Lakes, Rivers and Ocean Estuaries)

UNIT III

Biodiversity and its Conservation: Definition, levels and values of biodiversity; Threats to biodiversity- habitat loss, poaching of wildlife, man-wildlife conflicts, IUCN categories of threat; Terrestrial and marine hotspots of biodiversity in India; Conservation of Biodiversity - In-situ and Ex-situ conservation; Conservation schemes: Gir lion sanctuary project, Project tiger, Project elephant, Conservation of sea turtles in India. Ecotourism

UNIT IV

Environment Pollution: Types, causes, effects, and control - Air, Water, Soil and Noise pollution. Nuclear hazards and human health risks. Solid waste management: Control measure of urban and industrial waste. Climate change global warming, ozone layer depletion, acid rain, and impacts on human communities and agriculture

UNIT V

Social Issues and the Environment: Sustainable Development, Water Conservation, Resettlement and rehabilitation of people. Disaster Management: Floods, earthquake, cyclone and landslides. Consumerism and waste products; Environment Protection Act; Air and water (Prevention and control of Pollution) Act; Wild life protection Act; Forest conservation Act; Environmental movements (Chipko, Silent valley, Bishnois of Rajasthan). Environmental ethics. Environmental communication and public awareness.

Reading list

- 1. Erach Bharucha, 2021, Textbook of Environmental Studies for Undergraduate Courses, Third Edition, Orient blackswan Pvt. Ltd., Hyderabad.
- 2. V.K. Ahluwalia, Environmental Studies (Second Edition), Ane books India, T-Nagar, Chennai.
- 3. Y.K. Singh, 2006, Environmental science, New Age International (P) Ltd., Publishers, New Delhi.
- 4. S. P. Misra, 2023, Essential Environmental Studies, 4th Edn, Ane Books Pvt. Ltd., New Delhi.
- 5. G.S. Vijayalakshmi, A.G.Murugesan and N.Sukumaran, 2006, Basics of Environmental Science, Manonmaniam Sundaranar University Publications, Tirunelveli.

Recommended texts

- 1. N.Arumugam and V. Kumaresan, 2014, Environmental studies, 4th edition, Saras Publication, Nagercoil, TamilNadu.
- 2. M.Basu, and S. Xavier, 2016, Fundamentals of Environmental Studies, Cambridge University Press.
- 3. A.K. Mitra and R. Chakraborty, 2016, Introduction to Environmental Studies, Book Syndicate.



- 4. J.S. Singh, S.P.Singh, and S.R. Gupta, 2014, Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi.
- 4. B. C. Rai, The World Constitutions, Universal Publications, New Delhi, 1971.