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27. Fundamentals of Disaster Management

--By Laharighat College

Unit-I: Introduction to Environmental Studies

- a) Multidisciplinary nature of environmental studies.
- b) Scope and importance.
- c) Concept of sustainable development.

Unit-II: Ecosystems.

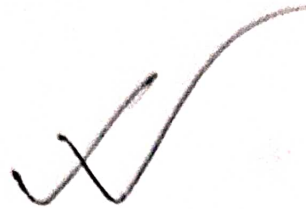
- a) What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem; food chains, food web and ecological succession. Case studies of the following ecosystems.
- b) Forest ecosystem.
- c) Grassland ecosystem.

Unit-III: Biodiversity and Conservation.

- a) Levels of biological diversity; genetic, species and ecosystem diversity; biogeographic zones of India, biodiversity patterns and global biodiversity hot spots.
- b) India as a mega-biodiversity nation; endangered and endemic species of India.
- c) Ecosystem and diversity services: Ecological, economic, social, ethical, aesthetic and informational value.

Unit-IV: Human Communities and the Environment.

- a) Human population growth: Impacts on environment, human health and welfare.
- b) Resettlement and rehabilitation of project affected persons; case studies.
- c) Disaster management: floods, earthquake, cyclones and landslides.
- d) Environmental movements: Chipko, silent valley, Narmada Bachao, Bishnois of Rajasthan.
- e) Environmental ethics: Role of India and other religions and cultures in environmental conservation.
- f) Environmental communication and public awareness, case studies (CNG electric vehicles, green energy, waste minimization)



VAC

Environmental Studies

Total marks: 50

Course level:100-199

No. of Credits: 2

No. of hours: 30

Unit1: Introduction to Environmental Studies

5 lectures

- Multidisciplinary nature of environmental studies;
- Scope and importance;
- Basic concepts: Renewable resources, non renewable resources, Common Property resources, Tragedy of commons, Climate change, global warming
- Concept of sustainable development

Unit 2: Ecosystems

10 lectures

- What is an ecosystem? Difference between ecology and ecosystem. Structure and function of ecosystem: Energy flow in an ecosystem: food chains, food web and

ecological succession.

- Case studies on any one of the following
 - a) Forest ecosystem
 - b) Grassland ecosystem
 - c) Aquatic ecosystems (ponds, streams, lakes, rivers)
 - d) Mountain ecosystem

Unit 5: Environmental Pollution and laws

15 lectures

- Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution
- Solid waste management: Control measures of urban and industrial waste.
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements, policies and treaties

Suggested Readings:

1. Bharucha Erach : Text book on Environmental Studies, UGC, New Delhi
2. Carson, R 2002. Silent Spring. Houghton Mifflin Harcourt.
3. De A.K.: Environmental Chemistry, Wiley Eastern Ltd.
4. Kaushik Anubha and C.P.Kaushik : Perspective in Environmental Studies, New Age International
5. Rajagopalan, R. (2018). Environmental Studies. (3rd Edition) Oxford University Press
6. S. C. Santra (2011): Environmental Science, New Central Book Agency

Graduate Attributes

- I. Course Objective:
The course objective is to develop an understanding of the basic concepts of environmental studies. This course will help to know the environment around us. It also gives an idea of various laws to protect environment.
- II. Learning Outcome:
 - After going through this course students can visualize the importance of environment for human mankind. This course will help to make an understanding of the various concepts which are frequently used by us. This course also enable students to know the problems of a particular environmental event through case studies and also help them to go through the various available laws that can minimize the environmental problems.

Theory Credit: 2

No. of Required Classes: 30

No. of Contact Classes: 30

No. of Non-Contact Classes: 0

5. Humanities and Social Sciences

MDC-1: Humanities & Social Sciences-I: Makers of Modern Assam

Unit I: Language, Literature & Culture

- Architects of modern Assamese language & literature
Anandaram Dhekiyal Phukan, Lakshminath Bezbaruah & Banikanta Kakati
- Architects of modern Assamese music & culture
Jyoti Prasad Agarwala, Bisnhu Prasad Rabha & Dr. Bhupen Hazarika

Readings:

Anandaram Dhekiyal Phukan:

Amalendu Guha, *Impact of Bengal Renaissance on Assam 1825-1875*, The Indian Economic and Social History Review, 1972.

Anandaram Dhekiyal Phukan, *A Few Remarks on the Assamese Language and vernacular education in Assam*

Gunabhiram Barua, *Anundaram Dhekiyal Phukanar Jivan Charitra.*, Publication Board Assam, 1971

Hiren Gohain, *Origins of the Assamese Middle Class*, Social Scientist, 1973

Maheswar Neog, *Anandaram Dhekiyal Phukan: Plea for Assam and Assamese.*, Assam Sahitya Sabha, 1977

Nanda Talukdar (ed), *Ananda Ram Dhekiyal Phukanar Rachana Sangrah* (9th Edition): published by Khagendra Narayan Dutta Barua, Lawyers Book Stall, 1999
Prafulla Mahanta, *Asomiya Madhyabitta Shrenir Itihas.*, Purbanchal Prakash, Guwahati, 2021.

Lakshminath Bezbaruah:

Hiren Gohain, *Origin of the Assamese Middle class*, Social Scientist, 1973

Lakshminath Bezbaroa, *Mur Jivon Sowaran.*, Lawyers Book Stall, 1999

Madhumita Sengupta, *Becoming Assamese: Colonialism and New Subjectivities in Northeast India*, Routledge, 2016

Maheswar Neog, *Lakshminath Bezbaroa; The Sahityarathi of Assam.*, Gauhati University, 1972

Maheswar Neog, *Lakshminath Bezbarua: An Introduction*, Assam Sahitya Sabha, 1968

Prafulla Mahanta, *Asomiya Madhyabitta Shrenir Itihas.*, Purbanchal Prakash, Guwahati, 2021.

Tilottama Misra, *Literature and Society in Assam*, Bhabani Books, Guwhati, 2019

Banikanta Kakati:

Maheswar Neog, *Banikanta Rachanvali* (2nd Edition), Publication Board Assam, 2002

Jagat Chandra Kalita (ed), *Assamese: Its Formation and Development* (4th Edition): Banikanta Kakati, LBS Publications

Jyoti Prasad Agarwala

Akhil Ranjan Dutta, *Jyoti Prasad Agarwala: A Revolutionary Cultural Architect of Twentieth century Assam*, Social Change, 2012

Arup Kumar Dutta, *Jyotiprasad: Prince of Beauty*, Anwasha, 2003

Anil Roychowdhury, *Axamiya Bhashar Darshan*, AankBaak, 2016.
Dayananda Pathak, *JyotiprasadAgarwala: Man and Mission*, Publication Board of Assam, 2007
Hiren Gohain (ed), *JyotiprasadRachanavali* (6th edition), Publication Board Assam, 2003
SurjyaKanta Hazarika, *Bhupen Hazarika Rachanavali*(Vol 1, 2, 3), S.H Educational Trust, 2008

BishnuRabha

Anil Roychowdhury, *AxamiyaBhashar Darshan*,AankBaak, 2016.
ArupjyotiSiakia, *A Century of Protests: Peasant Politics in Assam Since 1900*, Routledge, New Delhi, 2014.
Ismail Hussain, *Bishnu Rabhar Jivon Aru Darshan (2nd Edition)*, JyotiPrakashan, 2000
Rava Rachanavali Prakasan Sangha, *Bishnuprasad RabhaRachanaSamahar*, 2008
Surjya Hazarika (ed), *Bhinnajanar Dristit Bishnu Prasad Rabha*, S.H Educational Trust, 2008

Bhupen Hazarika:

AkhilRanjan Dutta, *Forcing Prison Doors: Socio-Cultural Mission of Bhupen Hazarika*, Social Change, 2012
Tarun Kalita, Manik Chandra Nath (eds), *Dr. Bhupen Hazarika: A Multifaceted Personality*, TTN College Publication Board
Surjya Kanta Hazarika, *Bhupen Hazarika Rachanavali* (Vol 1, 2, 3), S.H Educational Trust, 2008

Unit: Framers of the Political Foundations

- a. Initial foundation: *AsomChatraSanmilian& Assam Association*
- b. Consolidating the foundation: *Tarun Ram Phukan&GopinathBardoloi*
- c. Tribal consciousness and their rights: *Kalicharan Brahma &BhimbarDeori*

Readings

Asom Chatra Sanmilian and Assam Association:

Devabrata Sharma, *AsomiyaJatigathanPrakriya* Aru
JatiyaJanagosthigataAnusthanSamuh, EkalavyaPrakashan, 2022

Manorama Sharma, *Student Power and Nationalism: An Assessment of the Assam ChatraSanmilian, 1916-1939*, in *Student power in Northeast India: Understanding Student Movements*, Apurba K. Baruah (ed), Regency Publications, New Delhi, 2002.

PrafullaMahanta, *AsomiyaMadhyabittaShrenirItihas*;, Purbanchal Prakash, Guwahati, 2021.

Shiela Bora, *Trends in the Rise of Student Power in Assam 1916-1947*, in *Student power in Northeast India: Understanding Student Movements*, Apurba K. Baruah (ed), Regency Publications, New Delhi, 2002.

Tarunram Phukan:

LaxmiNathTamuly, *GopinathBordoloi (2nd Edition)*, Publication Board Assam, 2003

TarunramPhukanRachanvali: AxamPrakashanParishad, 2015

Gopinath Bordoloi:

Bordoloi Committee Report/ Sub-committee on the Northeast Frontier (Assam) Tribal and Excluded Areas.

LaxmiNathTamuly, *GopinathBordoloi (2nd Edition)*, Publication Board Assam, 2003

Nirode K Barooah, *GopinathBordoloi, The Assam Problem and Nehru's Centre*, Bhabani Publications, 2010

Nirode Kumar Barooah, *GopinathBordoloi Aru Assam: Tetia Aru Etia*, 2010

UdayonMisra, *Burden of History*, Oxford University Press, 2018

Kalicharan Brahma:

B. Narzary, M. Mitra, *Journey Towards Enlightenment: Gurudev and Bodo Society*, GBD Publishers, 2004

Devendranath Sharma, *GurudevKalicharan Brahma*, Assam Sahitya Sabha, 1983

KumudRanjanBasumatary, *GurudevKalicharan Brahma: The Emergence of Bodo Ethnic Consciousness in early 20th century*, International Journal of Humanities and Social Sciences, 2017

M.K Brahma, *GurudevKalicharan Brahma: His Life and Deeds*, N.L Publications, 2001

Sujit Choudhury, *The Bodos: Emergence and Assertion of an Ethnic Minority:*

BhimbarDeuri

Dr.RatneshwarDeuri, *JononetaBhimbarDeuri*, Publisher AnjanliDeuri, 2018

IndibarDeuri, *JonogosthiyoSamasya: Atit, Bartaman Aru Bhabishyat*, Bandhab, 2015

MadhabjyotiDeuri, *AxomorTrankortaBhimbarDeuri*, SamannayPrakashan, 2009

Munindra Das, *AxamarNrigosthiyaUttaranarItihash: Samashya- Sangram- Prapti*, Banalata, 2020

Unit 3: Women Education, Politics and Literature

- a. Baptist Missionaries & women education
- b. ChandraprabhaSaikiani, AmalPrabha Das & Raja Bala Das
- c. AsomLekhikaSamaroh

Baptist Missionaries and Women Education:

American Baptist work in Assam, India, 1926.

Anupama Ghosh, *Evangelism in Assam: Schools and Print Culture 1830s-1890s*, Indian History Congress, 2014.

ArchanaChakravarty, *History of Education in Assam 1826-1919*, Mittal Publications, 1989

Lakshahira Das, *Development of Secondary Education in Assam*, Omsons Publications, 1990

Milton S Sangma, *History of American Baptist Mission in North-East India (Vol 2)*, Mittal Publications, New Delhi, 1992

Suryasikha Pathak, *Missionary Wives in the Evangelical Project in Colonial Assam: Life and Times of Mrs P.H Moore*, ICHR, Guwhati, 2008

Chandraprabha Saikiani

Aparna Mahanta,

Chandraprabha Saikiani:

Swadhinatapurba Asam or Stri Sikshaaru Nari Jagaran, Anwasha Publications, 2014.

Hiranya Borah, *Chandraprabha: The Iron Lady of Assam*, Bluerose publishers, 2021

Madhurima Goswami (ed), *Chandraprabha Saikiani: A Force in History*, DVS Publishers, 2020

Nandana Dutta (ed), *Communities of Women in Assam: Being, Doing and Thinking Together*, Routledge, London, 2016

R Doley, N Choudhury, *Agnikanya Chandraprabha Saikiani: A Collection of Articles*, Tezpur University, 2014.

Amal Prabha Das

Smaranika: A Souvenir of Amal Prabha Das Birth Centenary Celebration, Sarania Ashram, Guwahati, 2011

Samiran Das, *Amalprabha Das: A Biographical Work*, Kasturba Gandhi National Memorial Trust, Guwahati, 2004/2011

Rajabala Das

Rajabala Das, *Three Score Years and Ten: One Life Many Memories* (An autobiography of Rajabala Das translated by Aditi Choudhury), Handique Girls' College, Guwahati, 2017

Pori Hiloidari, *Assamese Women: The Pathbreakers*, Handique Girls' College, Guwahati

Asom Lekhika Samaroh:

Nandana Dutta, *Communities of Women in Assam: Being, Doing and Thinking Together*, Routledge, London, 2016