

# PANDIT DEENDAYAL UPADHYAYA ADARSHA MAHA VIDYALAYA, AMJONGA

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## FIRST CYCLE NAAC ACCREDITATION 2024

### CRITERION-I

### (CURRICULAR ASPECTS)

### Key Indicator - 1.3

### Curriculum Enrichment

Submitted to



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Bangalore, Karnataka, India

Metric No:	Heading
1.3.1	Institution integrates crosscutting issues relevant to professional ethics, gender, human value, environment and sustainability into the curriculum.

### Syllabus related to Environment and Sustainability

#### Environment and Sustainability:

Subject	Semester	Course code	Paper
AECC	II	ENV-AE-2014	Environmental Studies
Chemistry	VI	CHE-HE-6016	Green Chemistry
Botany	IV	BOT-HC-4026	Plant Ecology and Phytogeography
Botany	V	BOT-HE-5016	Natural Resource Management
Botany	VI	BOT-HE-6016	Industrial and Environmental Microbiology
Zoology	VI	ZOO-HE-6046	Wildlife Conservation and Management

#### SYLLABUS

Ability Enhancement Compulsory Course  
(All Undergraduate Degree Programmes under Gauhati University)

ENV -AE -2014: Environmental Studies

Total marks: 100 (External: 80 + Internal: 20)

Nature of Course: AECC

No. of Credits: 4

(Approved in the Academic Council 08-11-2019)

No. of hours: 60

#### Unit 1: Introduction to Environmental Studies

- Multidisciplinary nature of environmental studies;
- Scope and importance;
- Concept of sustainable development

(3 lectures)

#### Unit 2: Ecosystems

- 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:
  - a) Forest ecosystem
  - b) Grassland ecosystem
  - c) Aquatic ecosystems (ponds, streams, lakes, rivers)
  - d) Mountain ecosystem

(8 lectures)

#### Unit 3: Natural Resources: Types, Renewable and Non-renewable Resources

- Land resources : land use change; land degradation, soil erosion and desertification
- Forest resources: Deforestation: Causes and impacts due to mining, Construction of big dams and their effects on forests and people.
- Water resources: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state: Indo-China, Indo-Bangladesh, Cauveri disputes) .
- Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies – coal mining, crude oil extraction.

(8 lectures)

#### Unit 4: Biodiversity and Conservation

- 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 diversity services: Ecological, economic, social, ethical, aesthetic and informational value.

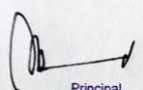
(8 lectures)

#### Unit 5: Environmental Pollution

- Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste.
- Pollution case studies – Bharalu river, Deepor Beel, Kolong river

(8 lectures)

  
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**Unit 6: Environmental Policies & Practices**

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture
- 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; Montreal and Kyoto protocols and Convention on Biological Diversity (CBD), CITES.
- Nature reserves, tribal populations and rights, and human wildlife conflicts in the context of Assam  
(8 lectures)

**Unit 7: Human Communities and the Environment**

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

**Unit 8: Field work**

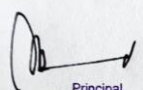
- Visit to an area to document environmental assets : river/forest/flora/fauna, etc
- Visit to a local polluted site - Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems- pond, river, stream

(Equivalent to 8 lectures)

**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. (3<sup>rd</sup> Edition) Oxford University Press
6. S. C. Santra (2011): Environmental Science, New Central Book Agency

  
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### Syllabus related to Environment and Sustainability

#### CHE-HE-6016 : GREEN CHEMISTRY

(Credits: Theory-04, Lab-02)

Theory: 60 Lectures

**Course Objective:** The learners will be taught about the emerging discipline of green chemistry particularly to differentiate as to how the principles of green chemistry may be applied to organic synthesis.

**Learning Outcome:** Apart from introducing learners to the principles of green chemistry, this course will make them conversant with applications of green chemistry to organic synthesis. Students will be prepared for taking up entry level jobs in the chemical industry. They also will have the option of studying further in the area.

#### Introduction to Green Chemistry

What is Green Chemistry? Need for Green Chemistry. Goals of Green Chemistry. Limitations/ Obstacles in the pursuit of the goals of Green Chemistry.

(4 Lectures)

#### Principles of Green Chemistry and Designing a Chemical synthesis

Twelve principles of Green Chemistry with their explanations and examples; Designing a Green Synthesis using these principles; Prevention of Waste/ byproducts; maximum incorporation of the materials used in the process into the final products (Atom Economy); prevention/ minimization of hazardous/ toxic products; designing safer chemicals – different basic approaches to do so; selection of appropriate auxiliary substances (solvents, separation agents), green solvents, solventless processes, immobilized solvents and ionic liquids; energy requirements for reactions - use of microwaves, ultrasonic energy; selection of starting materials; avoidance of unnecessary derivatization – careful use of blocking/protecting groups; use of catalytic reagents (wherever possible) in preference to stoichiometric reagents; designing of biodegradable products; prevention of chemical accidents; strengthening/ development of analytical techniques to prevent and minimize the generation of hazardous substances in chemical processes.

(24 Lectures)

#### Examples of Green Synthesis/ Reactions

- Green Synthesis of the following compounds: adipic acid, catechol, BHT, methyl methacrylate, urethane, citral, ibuprofen, paracetamol, furfural.
- Microwave assisted reactions in water: Oxidation of toluene, alcohols. Microwave assisted reactions in organic solvents: Esterification, Fries rearrangement, Diels-Alder Reaction. Microwave assisted solid state reactions: Deacetylation, Deprotection. Saponification of esters, Alkylation of reactive methylene compounds, reductions, benzimidazoles.
- Selective methylation of active methylene group using dimethylcarbonate: Solid-state polymerization of amorphous polymers using diphenylcarbonate; Use of “Clayan”, a nonmetallic oxidative reagent for various reactions; Free Radical Bromination; Role of Tellurium in organic syntheses; Biocatalysis in organic syntheses.

(24 Lectures)

#### Future Trends in Green Chemistry

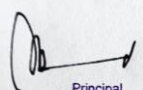
Oxidation reagents and catalysts; Biomimetic, multifunctional reagents; Solventless reactions; Green chemistry in sustainable development.

(8 Lectures)

#### Recommended Books:

- V.K. Ahluwalia & M.R. Kidwai: New Trends in Green Chemistry, Anamalaya Publishers (2005).
- P.T. Anastas & J.K. Warner: Oxford Green Chemistry- Theory and Practical, University Press (1998).
- A.S. Matlack: Introduction to Green Chemistry, Marcel Dekker (2001).
- M.C. Cann & M.E. Connely: Real-World cases in Green Chemistry, American Chemical Society, Washington (2000).
- M.A. Ryan & M. Tinnensand, Introduction to Green Chemistry, American Chemical Society, Washington (2002).

  
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**BOT-HC-4026**

**Plant Ecology and Phytogeography**

Total Lectures : 60 Credits : 6 (Theory - 4, Practical - 2)

### 9.1 THEORY

**Unit 1 : *Introduction* (4 lectures)**

Basic concepts; Levels of organization. Inter-relationships between the living world and the environment, the components and dynamism, homeostasis.

**Unit 2 : *Soil* (8 lectures)**

Importance; Origin; Formation; Composition; Physical; Chemical and Biological components; Soil profile; Role of climate in soil development.

**Unit 3 : *Water* (4 lectures)**

Importance: States of water in the environment; Atmospheric moisture; Precipitation types (rain, fog, snow, hail, dew); Hydrological Cycle; Water in soil; Water table.

**Unit 4 : *Adoptation of plants to various environmental factors* (6 lectures)**

Light, temperature, wind and fire

**Unit 5 : *Biotic interactions* (2 lectures)**

Trophic organization, basic source of energy, autotrophy, heterotrophy; symbiosis, commensalism, parasitism; food chains and webs; ecological pyramids; biomass, standing crop.

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**Unit 6 : Population ecology** (4 lectures)

Population characteristics, Growth curve, population regulation, r and k selection.  
Ecological speciation: Allopatric/ Sympatric and Parapatric speciation.

**Unit 7 : Plant communities** (8 lectures)

Concept of ecological amplitude; Habitat and niche; Characters: analytical and synthetic;  
Ecotone and edge effect; Dynamics: succession – processes, types; climax concepts.

**Unit 8 : Ecosystems** (4 lectures)

Structure; Processes; Trophic organisation; Food chains and Food webs; Ecological pyramids.

**Unit 9 : Functional aspects of ecosystem** (8 lectures)

Principles and models of energy flow; Production and productivity; Ecological efficiencies;  
Biogeochemical cycles; Cycling of Carbon, Nitrogen and Phosphorus.

**Unit 10 : Phytogeography** (12 lectures)

Principles; Continental drift; Theory of tolerance; Endemism; Brief description of major terrestrial biomes (one each from tropical, temperate & tundra); Phytogeographical division of India; Vegetation types of NE India with special reference to Assam.

## 9.2 PRACTICAL

1. Study of instruments used to measure microclimatic variables: Soil thermometer, maximum and minimum thermometer, anemometer, psychrometer/hygrometer, rain gauge and lux meter.
2. Determination of pH of various soil and water samples using pH meter.
3. Analysis for carbonates, chlorides, nitrates, sulphates, organic matter and base deficiency from two soil samples by rapid field tests.
4. Determination of organic matter of different soil samples by Walkley & Black rapid titration method.
5. Determination of dissolved oxygen of water samples from polluted and unpolluted sources.
6. (a). Study of morphological adaptations of hydrophytes and xerophytes (four each).

(b). Study of biotic interactions of the following: Stem parasite (*Cuscuta*), Root parasite (*Orobancha*) Epiphytes, Predation (Insectivorous plants).

7. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus, by species area curve method (species to be listed).
8. Quantitative analysis of herbaceous vegetation in the college campus for frequency and comparison with Raunkiaer's frequency distribution law.
9. Quantitative analysis of herbaceous vegetation for density and abundance in the college campus.
10. Field visit to familiarise students with ecology of different sites.

### Suggested Readings

1. Odum, E.P. (2005). Fundamentals of ecology. Cengage Learning India Pvt. Ltd., New Delhi. 5<sup>th</sup> edition.
2. Singh, J.S., Singh, S.P., Gupta, S. (2006). Ecology Environment and Resource Conservation. Anamaya Publications, New Delhi, India.
3. Sharma, P.D. (2010). Ecology and Environment. Rastogi Publications, Meerut, India. 8<sup>th</sup> edition.
4. Wilkinson, D.M. (2007). Fundamental Processes in Ecology: An Earth Systems Approach. Oxford University Press. U.S.A.
5. Kormondy, E.J. (1996). Concepts of ecology. PHI Learning Pvt. Ltd., Delhi, India. 4<sup>th</sup> edition.
6. Smith and Smith(2012): Elements of Ecology. Pearson Publisher (Sixth edition).
7. Bhattacharya, K., Ghosh, A.K. and Hait, G. (2017). A text Book of Botany (Ecology, Environmental Biology, Economic Botany and Pharmacognosy). New Central Book Agency (P) Ltd.
8. Ambasht and Ambasht (2002): A text book of Plant Ecology. CBS publisher and Distributors.
9. Agarwal, A.K. and Deo, P.P. (2006). Plant Ecology. Agrobios (India)
10. William D Bowmen, Sally D Hacker and Michael L. Cain (2018) Ecology, Oxford University Press
11. Verma, P.S. and Agarwal V. K.(2003) Environmental Biology-Principles of Ecology. S Chand & Company Ltd, Ramnagar, New Delhi-110055.

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**Syllabus related to Environment and Sustainability**

**BOT-HE-5016**

**Natural Resource Management**

Total Lectures : 60 Credits : 6 (Theory - 4, Practical - 2)

**1.1 THEORY**

**Unit 1 : *Natural resources***

Definition and types. **(2 lectures)**

**Unit 2 : *Sustainable utilization***

Concept, approaches (economic, ecological and socio-cultural). **(8 lectures)**

**Unit 3 : *Land***

Utilization (agricultural, pastoral, horticultural, silvicultural); Soil degradation and management. **(8 lectures)**

**Unit 4 : *Water***

Fresh water (rivers, lakes, groundwater, aquifers, watershed); Marine; Estuarine; Wetlands; Threats and management strategies. **(8 lectures)**

**Unit 5 : *Biological Resources***

Biodiversity-definition and types; Significance; Threats; Management strategies; Bio-prospecting; IPR; CBD; National Biodiversity Action Plan). **(10 lectures)**

**Unit 6 : *Forests***

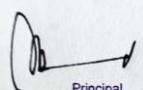
Definition, Cover and its significance (with special reference to India); Major and minor forestproducts; Depletion; Management. **(6 lectures)**

**Unit 7 : *Energy***

Renewable and non-renewable sources of energy. **(6 lectures)**

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### Syllabus related to Environment and Sustainability

**Unit 8 : *Contemporary practices in resource management*** (8 lectures)

EIA, GIS, Participatory Resource Appraisal, Ecological Footprint with emphasis on carbon footprint, Resource Accounting; Waste management.

**Unit 9 : *National and international efforts in resource management and conservation*** (4 lectures)

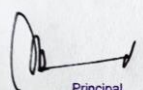
## 1.2 PRACTICAL

1. Estimation of solid waste generated by a domestic system (biodegradable and non-biodegradable) and its impact on land degradation.
2. Collection of data on forest cover of specific area.
3. Measurement of dominance of woody species by DBH (diameter at breast height) method.
4. Calculation and analysis of ecological footprint.
5. Uses of GPS and GIS (Mapping of an area).

## Suggested Readings

1. Vasudevan, N. (2006). Essentials of Environmental Science. Narosa Publishing House, New Delhi.
2. Singh, J. S., Singh, S.P. and Gupta, S. (2006). Ecology, Environment and Resource Conservation. Anamaya Publications, New Delhi.
3. Rogers, P.P., Jalal, K.F. and Boyd, J.A. (2008). An Introduction to Sustainable Development. Prentice Hall of India Private Limited, New Delhi.

  
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### Syllabus related to Environment and Sustainability

**BOT-HE-6016**

## Industrial and Environmental Microbiology

Total Lectures : 60 Credits : 6 (Theory - 4, Practical - 2)

### 3.1 THEORY

**Unit 1 : *Scope of microbes in industry and environment* (6 lectures)**

**Unit 2 : *Bioreactors/Fermenters and fermentation processes* (12 lectures)**

Solid-state and liquid-state (stationary and submerged) fermentations; Batch and continuous fermentations. Components of a typical bioreactor, Types of bioreactors-laboratory, pilotscale and production fermenters; Constantly stirred tank fermenter, tower fermenter, fixed bed and fluidized bed bioreactors and air-lift fermenter.

A visit to any educational institute/ industry to see an industrial fermenter, and other downstream processing operations.

**Unit 3: *Microbial production of industrial products* (12 lectures)**


Microorganisms involved, media, fermentation conditions, downstream processing and uses; Filtration, centrifugation, cell disruption, solvent extraction, precipitation and ultrafiltration, lyophilization, spray drying; Hands on microbial fermentations for the production and estimation (qualitative and quantitative) of Enzyme: amylase or lipase activity, Organic acid (citric acid or glutamic acid), alcohol (Ethanol) and antibiotic (Penicillin)

**Unit 4: *Microbial enzymes of industrial interest and enzyme immobilization* (8 lectures)**

Microorganisms for industrial applications and hands on screening microorganisms for casein hydrolysis; starch hydrolysis; cellulose hydrolysis. Methods of immobilization, advantages and applications of immobilization, large scale applications of immobilized enzymes (glucose isomerase and penicillin acylase).

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### Syllabus related to Environment and Sustainability

**Unit 5: Microbes and quality of environment. (6 lectures)**

Distribution of microbes in air; Isolation of microorganisms from soil, air and water.

**Unit 6: Microbial flora of water. (8 lectures)**

Water pollution, role of microbes in sewage and domestic waste water treatment systems. Determination of BOD, COD, TDS and TOC of water samples; Microorganisms as indicators of water quality, check coliform and fecal coliform in water samples.

**Unit 7: Microbes in agriculture and remediation of contaminated soils. (8 lectures)**

Biological fixation; Mycorrhizae; Bioremediation of contaminated soils. Isolation of root nodulating bacteria, arbuscular mycorrhizal colonization in plant roots.

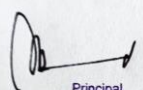
### 3.2 PRACTICAL

1. Principles and functioning of instruments in microbiology laboratory
2. Hands on sterilization techniques and preparation of culture media.
3. Pure culture techniques.

### Suggested Readings

1. Pelzar, M.J. Jr., Chen E.C. S., Krieg, N.R. (2010). Microbiology: An application based approach. Tata McGraw Hill Education Pvt. Ltd., Delhi.
2. Tortora, G.J., Funke, B.R., Case. C.L. (2007). Microbiology. Pearson Benjamin Cummings, San Francisco, U.S.A. 9th edition.

  
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### Syllabus related to Environment and Sustainability

CODE: ZOO-HE-6046

#### WILD LIFE CONSERVATION AND MANAGEMENT

#### THEORY

(CREDITS 4)

##### Unit 1: Introduction to Wild Life

Values of wildlife-positive and negative; Conservation ethics; Importance of conservation; Causes of depletion; World conservation strategies.

##### Unit 2: Evaluation and management of wild life

Habitat analysis, Physical parameters :Topography, Geology, Soil and water; Biological Parameters: food, cover, forage, browse and cover estimation; Standard evaluation procedures: remote sensing and GIS.

##### Unit 3: Management of habitats

Setting back succession; Grazing logging; Mechanical treatment; Advancing the successional process; Cover construction; Preservation of general genetic diversity; Restoration of degraded habitats

##### Unit 4: Population estimation

Population density, Natality, Birth rate, Mortality, fertility schedules and sex ratio computation; Faecal analysis of ungulates and carnivores: Faecal samples, slide preparation, Hair identification, Pug marks and census method.

##### Unit 5: Management planning of wild life in protected areas

Estimation of carrying capacity; Ecotourism/wildlife tourism in forests; Concept of climax persistence; Ecology of perturbation.

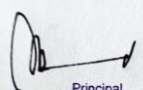
##### Unit 7: Management of excess population

Bio-telemetry; Care of injured and diseased animal; Quarantine; Common diseases of wild animal

##### Unit 8: Protected areas

National parks & sanctuaries, Community reserve; Important features of protected areas in India; Tiger conservation - Tiger reserves in India; Management challenges in Tiger reserve.

  
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### Syllabus related to Environment and Sustainability

#### WILD LIFE CONSERVATION AND MANAGEMENT

#### PRACTICALS

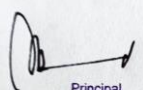
(CREDITS 2)

1. Identification of flora, mammalian fauna, avian fauna, herpeto-fauna
2. Demonstration of basic equipment needed in wildlife studies use, care and maintenance (Compass, Binoculars, Spotting scope, Range Finders, Global Positioning System, Various types of Cameras and lenses)
3. Familiarization and study of animal evidences in the field; Identification of animals through pugmarks, hoofmarks, scats, pellet groups, nest, antlers etc.
4. Demonstration of different field techniques for flora and fauna
5. PCQ, Tentree method, Circular, Square & rectangular plots, Parker's 2 Step and other methods for ground cover assessment, Tree canopy cover assessment, Shrub cover assessment.
6. Trail/transect monitoring for abundance and diversity estimation of mammals and bird (direct and indirect evidences)

#### SUGGESTED READINGS

- Caughley, G., and Sinclair, A.R.E. (1994). *Wildlife Ecology and Management*. Blackwell Science.
- Woodroffe R., Thirgood, S. and Rabinowitz, A. (2005). *People and Wildlife, Conflict or Co-existence?* Cambridge University.
- Bookhout, T.A. (1996). *Research and Management Techniques for Wildlife and Habitats*, 5th edition. The Wildlife Society, Allen Press.
- Sutherland, W.J. (2000). *The Conservation Handbook: Research, Management and Policy*. Blackwell Sciences
- Hunter M.L., Gibbs, J.B. and Sterling, E.J. (2008). *Problem-Solving in Conservation Biology and Wildlife Management: Exercises for Class, Field, and Laboratory*. Blackwell Publishing.

  
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**Professional ethics**

**“Career Counselling Programme” organised by IQAC**



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**Human Value & Health**

**Celebration of Yoga Day organised by IQAC**



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**Environment and Sustainability**

**“Mega Cleanliness Drive” at college campus organised by NSS**



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**Human Value & Health**

**“Run For Unity” Organised by NSS**



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**Human Value & Health**

**Celebration of “World No Tobacco Day”  
organised by NSS**



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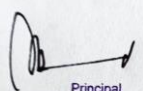
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 Principal  
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Metric No:	Heading
1.3.1	Institution integrates crosscutting issues relevant to professional ethics, gender, human value, environment and sustainability into the curriculum
<b>Environment and Sustainability</b>	

## Swachh Bharat Mission at Amjonga Bazar organised by NSS



  
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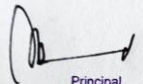
Metric No:	Heading
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**Human Value & Health**

**Sports cell**



  
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1.3.1	Institution integrates crosscutting issues relevant to professional ethics, gender, human value, environment and sustainability into the curriculum

**Human Value & Environment**

**7 days special camp organised by NSS**



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Metric No:	Heading
1.3.1	Institution integrates crosscutting issues relevant to professional ethics, gender, human value, environment and sustainability into the curriculum

**Environment and Sustainability**

**Celebration of “ World Environment Day” at adopted village organised by Unnat Bharat Abhiyan**

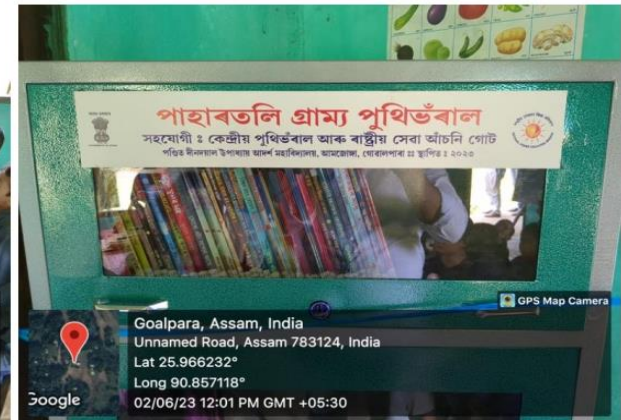


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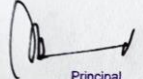
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Metric No:	Heading
1.3.1	Institution integrates crosscutting issues relevant to professional ethics, gender, human value, environment and sustainability into the curriculum
<b>Human Values</b>	

## Opening ceremony of Pahartoli Rural Library, an initiative taken by Library Development Committee and NSS



  
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Metric No:	Heading
1.3.1	Institution integrates crosscutting issues relevant to professional ethics, gender, human value, environment and sustainability into the curriculum

### Human Value & Gender

#### Activities of anti-sexual harassment cell

##### Activity 1: Workshop

**Title: Prevention of Sexual Harassment**

**Date: 10/11/22**

**Time: 11:00 am**

**Venue: Smart Class Room 1, PDUAM, Amjonga**

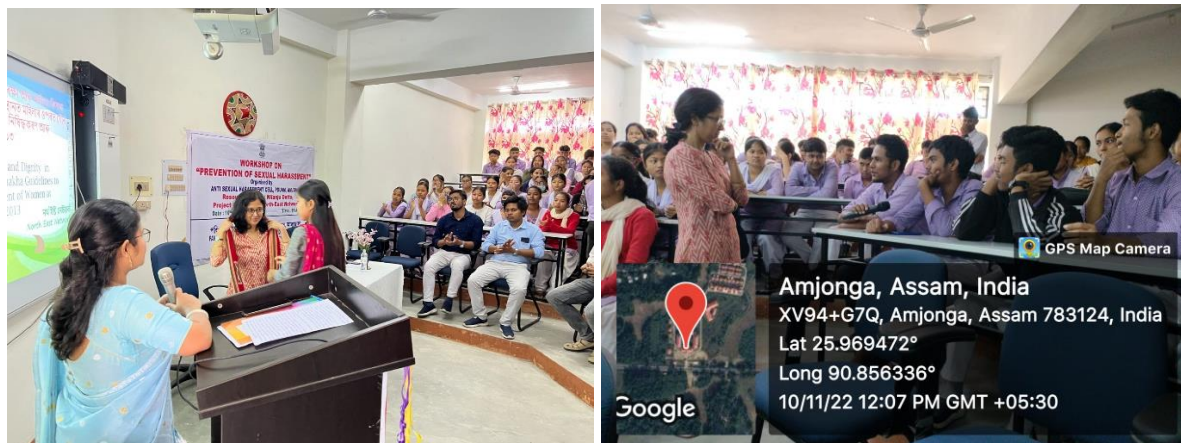
**No. of Participants: 160**

**Resource Person: Mrs. Nilanju Dutta, Project Consultant, North East Network.**

**Report:**

The anti-sexual harassment cell organised a workshop on “Prevention of Sexual Harassment” at PDUAM, Amjonga. The session was started by the welcome speech of Dr. Chandrama Sarkar, Convenor, anti-sexual harassment cell followed by felicitation of the guest and introduction of her. Vice-Principal of PDUAM, Amjonga, Dr. Hari Prasad Gautam delivered the purpose of the meeting. After that the chief guest Mrs. Nilanju Dutta started the session and interacted with the teachers, staff and students. She shared different scenarios regarding ways which can result into sexual harassment and also provided insights on the steps that needs to be taken during such circumstances. This workshop has immensely benefitted our students, teachers and staff which will help in creating a conducive environment in the college.

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Metric No:	Heading
1.3.1	Institution integrates crosscutting issues relevant to professional ethics, gender, human value, environment and sustainability into the curriculum

### Human Value & Gender

#### Activities of anti-sexual harassment cell

#### Activity 2: Certificate course

**Title: Women Self Defence**

**Date: 20/03/23 to 19/03/23 (10 days)**

**Time: 1:00 pm to 4:00 pm**

**Venue: College campus**

**No. of Participants: 31**

**No. of Students Completed the course: 11**

**Course Instructor:** Mr. Bitupan Kalita, President, Matia Martial Art Academy, Wushu State Judge, National kick boxing bronze medallist.

**Trainer: 1.** Miss Nupur Rajbanshi, Student PDUAM, Amjonga, Gold medallist in khelo India 10 ka dum, National kick boxing gold medallist.

**2.** Miss Shruti Sapkota, Silver medallist in khelo India 10 ka dum.

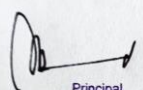
**Course Co-ordinator:** Dr. Chandrama Sarkar, Presiding officer, ICC, PDUAM, Amjonga.

#### Report:

The Internal Complaints Committee along with NSS and IQAC, PDUAM, Amjonga in collaboration with Matia Martial Art Academy organized free training on Women Self Defence for ten days (30-hour duration) from 20/03/23 to 19/03/23 at college campus. On 20<sup>th</sup> may 23, in the inaugural programme the Committee felicitated Miss Nupur Rajbanshi, Gold medallist in khelo India 10 ka dum and national kick boxing. After inauguration, the training started by the course instructor Mr. Bitupan Kalita and Miss Nupur Rajbanshi where 31 girl students participated in the training. The training continued till 19<sup>th</sup> May, 2023. Mr. Bitupan Kalita, Miss Nupur Rajbanshi and Miss Shruti Sapkota trained the students. 11 students completed the training and demonstrated fight in the valedictory ceremony.

Dr. Chandrama Sarkar started the valedictory ceremony on 19<sup>th</sup> May, 2023 and explained the purpose of the meeting. The Principal of PDUAM Amjonga, Dr. Navajyoti Sarmah delivered the welcome speech in the valedictory ceremony and distributed certificates among the trainees. Mr. Gautam Dalu, yoga trainer demonstrated yoga and Mr. Dikshant Shivam, gold medallist in district level wushu demonstrated Taolu in front of the audience. Mr. Gupto Mondol, Wushu state judge, national kick boxing judge and Mr. Gautam Dalu judged the fights held between the trainers. Mr. Bitupan Kalita played the role of referee. The overall programme helped our girl students to learn and understand about martial

  
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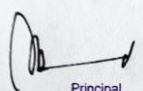
  
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art which will definitely help them in building the confidence and skills to fight any kind of anti-social elements prevailing in our society. Moreover, this training helped our girl students to be more confident in performing day to day activities.

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Metric No:	Heading
1.3.1	Institution integrates crosscutting issues relevant to professional ethics, gender, human value, environment and sustainability into the curriculum
<b>Human Value &amp; Gender</b>	



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Metric No:	Heading
1.3.1	Institution integrates crosscutting issues relevant to professional ethics, gender, human value, environment and sustainability into the curriculum

### Human Value & Gender

#### Activities of anti-sexual harassment cell

#### Activity 3: Celebration of World Menstrual Hygiene Day

**Title:** Celebration of World Menstrual Hygiene Day

**Date:** 31/05/23

**Time:** 12:00 pm

**Venue:** Smart Class Room 2, PDUAM, Amjonga

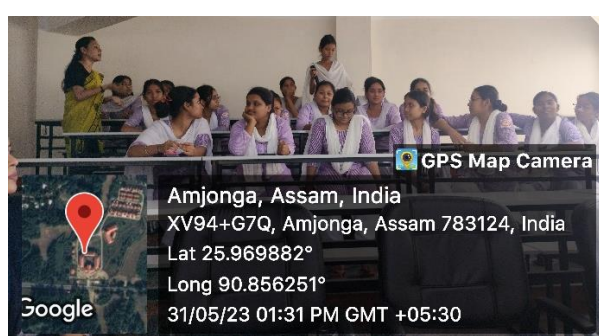
**No. of Participants:** 67

**Resource Person:**

1. Ms Angshumala Patgiri, Multi Skilled Counsellor, Civil Hospital, Goalpara
2. Mrs. Sajida Khatun

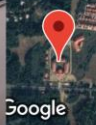
**Report:** The Internal Complaints Committee along with IQAC, PDUAM, Amjonga celebrated World **Menstrual Hygiene Day** at the college campus by creating awareness regarding menstrual health and hygiene and also distributed free sanitary napkins among girl students, female faculties and staffs. Dr. Hari Prasad Gautam, vice-Principal of the college delivered the welcome speech and Dr. Chandrama Sarkar, Presiding Officer of ICC explained the importance and objectives of the MH day. Dr. Chandrekha Deka, HoD, dept. of Zoology presented a power point presentation on menstrual cycle. Resource persons Ms Angshumala Patgiri and Mrs. Sajida Khatun shared detailed knowledge regarding this important topic. They also discussed on the prevailing taboos in the society and explained how this awareness program will help in preventing such social issue.

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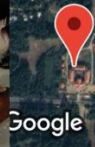
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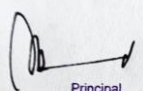
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