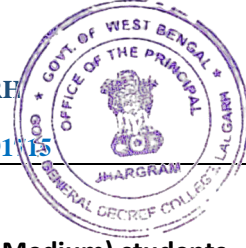




**GOVERNMENT OF WEST BENGAL**  
**GOVERNMENT GENERAL DEGREE COLLEGE LALGARH**  
**LALGARH:: JHARGRAM::721516**  
Website: [www.lalgarhgovtcollege.org](http://www.lalgarhgovtcollege.org) :: Telephone No.: 03221-291155



**List of completed project work of 3 Year Multidisciplinary Study (Santali Medium) students**  
**Course: Vac 01 (Environmental Studies)**

Sl. No.	Name	Registration No	Registration Year	Sem	Title of the Project
1	PURNIMA HEMBRAM	VU231230536	2023-24	1st	STUDY ON KANKRAJHOR VISIT OF JHARGRAM
2	SARASWATI TUDU	VU231230595	2023-24	1st	STUDY ON KANKRAJHOR VISIT OF JHARGRAM

## Value Added Course (VAC)



### Value Added Course (VAC)- 01

VAC-01: ENVIS- Environmental Studies

Credits 04 (Full Marks-100)

#### Course contents:

#### Unit-I: Introduction to environmental studies

(2 lectures)

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

#### Unit-II: Ecosystems

(6 lectures)

- What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems: a) Forest ecosystem; b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

#### Unit-III: Natural Resources: Renewable and Non-renewable Resources

(8 lectures)

- Land resources and land use change; Land degradation, soil erosion and desertification;
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Joint forest management.
- Water: Use and over--exploitation of surface and ground water, floods, droughts, conflicts over water (international & interstate).
- Energy resources: Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

#### Unit-IV: Biodiversity and Conservation

(8 lectures)

- Levels of biological diversity: genetic, species and ecosystem diversity; Bio-geographic 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-V: Environmental Pollution

(8 lectures)

- 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.
- Noise pollution.

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#### Unit-VI: 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: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).
- Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.
- Environmental policy and gender issues



#### Unit-VII: Human Communities and the Environment

(6 lectures)

- 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, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi)

#### Unit-VIII: Field work

(Equal to 5 lectures)

- 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, Delhi Ridge, etc.
- Disaster management.
- Coastal ecosystem

#### Suggested Readings:

- i. Carson, R. 2002. *Silent Spring*. Houghton Mifflin Harcourt.
- ii. Gadgil, M., & Guha, R. 1993. *This Fissured Land: An Ecological History of India*. Univ. of California Press.
- iii. Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
- iv. Gleick, P. H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- v. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
- vi. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. *Science*, 339: 36--37.
- vii. McCully, P. 1996. *Rivers no more: the environmental effects of dams* (pp. 29--64). Zed Books.
- viii. McNeill, John R. 2000. *Something New Under the Sun: An Environmental History of the Twentieth Century*.
- ix. Odum, E.P., Odum, H.T. & Andrews, J. 1971. *Fundamentals of Ecology*. Philadelphia: Saunders.
- x. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. *Environmental and Pollution Science*. Academic Press
- xi. Rao, M.N. & Datta, A.K. 1987. *Waste Water Treatment*. Oxford and IBH Publishing Co.Pvt. Ltd.
- xii. Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. *Environment*. 8th edition. John Wiley & Sons.

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VIDYASAGAR UNIVERSITY, PASCHIM MIDNAPORE, WEST BENGAL



UG 1<sup>st</sup> Semester (CCFUP-NEP) Examination 2023  
Subject- Humanities (Santali Medium)  
Paper- VAC 01 (Environmental Studies Project)

Oral and Evaluations of Project Report



**ATTENDANCE RECORD**

ROLL NO	REGISTRATION NO	REG. YEAR	NAME	SIGNATURE OF THE CANDIDATE
4341123-2319583	VU231230536	2023-2024	PURNIMA HEMBRAM	Purnima Hembram
4341123-2319584	VU231230687	2023-2024	SAMIR TUDU	
4341123-2319488	VU231230593	2023-2024	SARADAPRASAD TUDU	
4341123-2319585	VU231230595	2023-2024	SARASWATI TUDU	Saraswati Tudu

Saraswati Tudu  
25.04.24

**GOVERNMENT GENERAL DEGREE COLLEGE AT LALGARH**



**ESTD-2014**



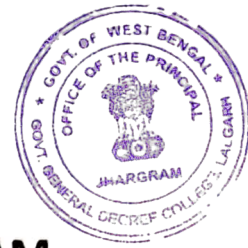
**SUBJECT-ENVORONMENTAL STUDIES**  
**SEMESTER-I**

**COURSE NAME- VALUE ADDED COURSE**

**SUBMITTED BY:**

**NAME: PURNIMA HEMBRAM**  
**PAPER: PROJECT WORK (VAC)** ✓  
**ROLL: 4341123 NO: 2319583**  
**REGN. NO: VU2312305360F2023-2024**





## **STUDY ON KANKRAJHOR VISIT OF JHARGRAM**

**(A PROJECT REPORT ON ENVIRONMENTAL STUDIES BASED ON FIELD VISIT FOR THE PARTIAL FULFILLMENT OF THE 1<sup>ST</sup> END SEMESTER B.A (GENERAL) DEGREE IN HUMANITIES UNDER NEP-2020)**

**Report Submitted to:**

**Lalgarh Govt College,. Lalgarh, Jhargram, W.B. 721516  
Affiliated to: VIDYASAGAR UNIVERSITY,  
MIDNAPORE, W.B. 721102**

**REPORT SUBMITTED BY:**

**Roll: 4341123 No. 2319583**

**Registration No.VU231230536 of Year: 2023-2024  
ABC ID:**

**(Affiliated to Vidyasagar University, Midnapore, W.B)**

***Supervised by:***

**Prof. Manjushree Hembram W.B.E.S  
Assistant Professor,of Santali,Dept of Santali,**

**Lalgarh Govt College,. Lalgarh, Jhargram, W.B. 721516**

**Year: 2024**

## To Whom It May Concern



This is to Certify that Smt./Sri./Miss/Mr./Mrs. Prasanna Hembram (Regd. No. VU231230536 of 2023-24), a 1<sup>st</sup> Semester B.A. (Hons. / GEN) students of UG NEP-2020/GGDC Lalgarh, Jhargram, W.B. has done the allotted Project work on Value Added Course (VAC-01) entitled project, "**STUDY ON KHANKRAJHOR VISIT OF JHARGRAM**" as per the guideline of Vidyasagar University under the title Flora at Local *in-situ* site for the fulfilment of end semester B.A./B.Se. general degree from Vidyasagar University in the year 2024 with full of satisfaction. He/She has completed 10 hours field visit for data collection and photography in connection with the Project work supervised by Manjushree Hembram, Assistant Professor of Santali, GGDC Lalgarh, Jhargram, W.B. on 29/01/2024 from 6:00 a.m. to 6:30 p.m. He/She also completed study on the major topic in the field/College and at home to prepare the project report complete in all aspects covering 30 hours. We wish her/him every success in life.

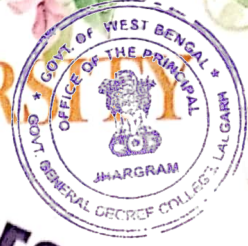
  
Signature of Supervisors:

(Asst. Prof. Manjushree Hembram)  
Assistant Professor of Santali, Dept. of Santali,  
Govt. General Degree College Lalgarh, Jhargram,  
Jhargram, W.B.





VIDYASAGAR UNIVER



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ESTD-2014



SUBJECT-ENVIRONMENTAL STUDIES

SEMESTER-I

COURSE NAME- VALUE ADDED COURSE

SUBMITTED BY:

NAME: SARASWATI TUDU

ROLL:4341123 NO:2319585

REGN. NO:VU231230595 OF 2023-2024

PAPER: PROJECT WORK

# STUDY ON KANKRAJHOR OF JHARGRAM



(A PROJECT REPORT ON ENVIRONMENTAL STUDIES BASED ON FIELD VISIT  
FOR THE PARTIAL FULFILLMENT OF THE 1<sup>st</sup> END SEMESTER B.A (GENERAL)  
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**Report Submitted to:**

Government General Degree College, Lalgarh. Lalgarh, Jhargram, W.B.  
Affiliated to: VIDYASAGAR UNIVERSITY,  
MIDNAPORE, W.B. 721102

**REPORT SUBMITTED BY:**

Roll: 4391123 No. 2319585

Registration No. VU231230595 of Year: 2023-2024

(Affiliated to Vidyasagar University, Midnapore, W.B)

**Supervised by:**

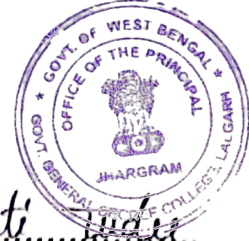
**Prof. Manjushree Hembram W.B.E.S**  
Assistant Professor, of Santali, Dept of Santali.

Government General Degree College, Lalgarh. Lalgarh, Jhargram, W.B. 721516

**Year: 2024**



## To Whom It May Concern



This is to Certify that Smt./Sri./Miss/Mr./Mrs. S. Anaswati.....  
(Regd. No. VU.23.123.0595 of 2023-24), a 1<sup>st</sup> Semester B.A. (Hons. / GEN)  
students of UG NEP-2020/GGDC Lalgarh, Jhargram, W.B. has done the allotted  
Project work on **Value Added Course (VAC-01)** entitled project, "**STUDY ON  
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the major topic in the field/College and at home to prepare the project report  
complete in all aspects covering 30 hours. We wish her/him every success in life.

  
Signature of Supervisors:

(Asst. Prof. Manjushree Hembram)  
Assistant Professor of Santali, Dept. of Santali,  
Govt. General Degree College Lalgarh, Jhargram,  
Jhargram, W.B.



