



KATWA COLLEGE

(Affiliated to the University of Burdwan)

Principal's Office,

P.O.: Katwa, Dist.: Purba Bardhaman, West Bengal, PIN: 713 130, India.

Mobile: +918101078393

॥ विद्यया विन्दतेऽमृतम् ॥

INSTITUTION INTEGRATES CROSSCUTTING ISSUES RELEVANT TO GENDER, ENVIRONMENT AND SUSTAINABILITY, HUMAN VALUES AND PROFESSIONAL ETHICS IN TRANSACTIONING THE CURRICULUM-

Section -A

List of programmes relating the issues relevant to gender, environment and sustainability, human values and professional ethics in transactioning the curriculum during the academic year 2019-2024

Section-B

Some Archives of outreach programmes relating the issues in transactioning the curriculum during the academic year 2019-24

Section-C

List of Courses Relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability (offered during the academic session 2019-24, CBCS) with the description of relevance

Signature of the IQAC Coordinator

Coordinator
IQAC
Katwa College

Signature of the Principal

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Section-A

List of programmes relating the issues relevant to gender, environment and sustainability, human values and professional ethics in transacting the curriculum during the academic year 2019-2024:

Sl. No.	Year	Name of the Workshop/ Seminar/ Webinar/Conference	Number of Participants	Date
1	2019	Her Voice: Her Vote: Electoral Literacy of Women	72	13.08.2019
2	2019	Utkarsh Bangla Awareness Programme	89	02.11.2019
3	2020	One Day International Webinar on Emerging Disaster Issues: Causes & Consequences	1355	27.08.2020
4	2022	Azadi ka Amrit Mahotsav: Netaji Subhas Chandra Bose and the Indian Freedom Struggle	140	21.04.2022
5	2022	Right to Vote is a Basic Right	85	17.09.2022
6	2022	Women Also have Minds: An Introduction to Gender and Feminist Criticisms	70	22.11.2022
7	2022	Gender Sensitization Workshop	37	23.11.2022
8	2022	International Human Rights	136	10.12.2022
9	2023	Awareness Programme on Breast Cancer	20	30.01.2023

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10	2023	Celebration of International Women's Day by Gender Sensitization Committee	99	10.03.2023
11	2023	Fuel Emergency & Carbon Footprints: Remedial Measures	92	03-11-2023
12	2023	Special Lecture on Her Voice: Her Vote: Electoral Literacy for Women	43	04-12-2023
13	2023	Special Lecture on Chatro Jibone Vedanta	112	12-12-2023
14	2024	Two Day International Seminar on Dharmasastras: Guide to Sustainable Prosperity	134	05.01.24 & 06.01.24
15	2023	Special Lecture on Present Student Society and Values	54	27-12-2023
16	2024	Seminar on Kanyashree Awareness Programme	55	06-01-2024
17	2024	International Seminar on Artificial Intelligence and our Future	113	09-01-2024
18	2024	Special Lecture on Sanskrit Literature and Character Building	56	09-01-2024
19	2024	Special Lecture on Student Life: A Chapter in Character Building	56	09-01-2024
20	2024	Special Lecture on How Mothers Build a Forest in World's Largest Delta	130	13-01-2024
21	2024	Special Lecture on Environmental Crisis at Present	70	23-02-2024
22	2024	Seminar on Self Help Groups Transforming Lives, Promoting and Sustaining Women Empowerment	150	14-03-2024

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23	2024	An Awareness Programme for Young and New Voters in Connection with Parliament General Election, 2024	50	24-04-2024
24	2024	Seminar on Gender, Nature and Culture for International Women's Day Celebration	110	13-03-2024
25	2024	Know Your Strength Through Self Discovery	95	09.04.2024
26	2024	Special Lecture on Sanskrit Literature and Modern Society	41	27-04-2024
27	2024	Seminar on Career Opportunities in the Fields of Wildlife Conventions & Research	48	17-05-2024
28	2024	JKA India West Bengal Karate Workshop	110	26-05-2024
29	2024	An International Webinar on Recent Trends in Microelectronic Technology for Wireless Communication	26	29-05-2024
30	2024	One Day Seminar on Tackling Plagiarism: Understanding the Ethics of Research	98	31-05-2024
31	2024	Seminar on Breast Cancer and Cervical Cancer	258	14.06.2024
32	2024	One Day Seminar on Woman Rights in Public and Political Life	99	18-06-2024
33	2024	Seminar on Female Foeticide	143	19-06-2024
34	2024	Seminar on Breast Cancer	255	19-06-2024
35	2024	Special Lecture on Human Rights Awareness	100	20-06-2024

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36	2024	Seminar on Intellectual Property Rights: Patents and Designs Process	113	15-06-2024
37	2024	One Day State Level Seminar on Feminist Philosophy	118	26-06-2024
38	2024	One Day Seminar on Scientific Practices in Handling and Use of Plant Protection Chemicals vis-à-vis Safety Measures to be Adopted by the Consumers	91	29-06-2024
39	2024	One Day State Level Seminar on Nature as Teacher: Lessons from Biodiversity Components 26.06.2024	81	26.06.2024

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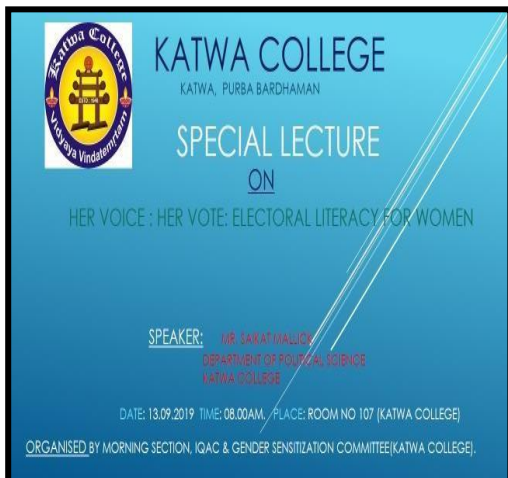
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Date: 13.08.2019

HER VOICE: HER VOTE: ELECTROL LITERACY OF WOMEN



Sl No	Name	Signature
1	Sukali Mondal	
2	Anindita Paramonik	Anindita Paramonik
3	SUSMITA DEY	Susmita Dey
4	Riya De	Riya De
5	Anindita Dutta	Anindita Dutta
6	Jaya Dutta	Jaya Dutta
7	BINA GHOSH	Bina Ghosh
8	Mandira Ghosh	Mandira Ghosh
9	Mousumi Mondal	Mousumi Mondal
10	SAHANARA KHATUN	Sahanara Khatun
11	Priya Mondal	Priya Mondal
12	Supriya Mondal	Supriya Mondal
13	Sumona Das	Sumona Das
14	MAMPTI PRADHAN	Mampti Pradhan
15	Asrupa Khatun	Asrupa Khatun
16	TIYASA PAL	Tiyasa Pal
17	Selvia Ghosh	Selvia Ghosh
18	RAJ MUKHARJEE	Raj Mukharjee
19	Sonal BASAK	Sonal Basak
20	SONALI BASAK	Sonali Basak
21	MANISHA GHOSH	Manisha Ghosh
22	JOITA PAL	Joita Pal
23	SAMIMA KHATUN	Samima Khatun
24	PIV MONDAL	Piv Mondal
25	SANUKA BISWAS	Sanuka Biswas
26	DIYA DAS	Diya Das
27	RIMA KHAN	Rima Khan
28	Dipta Mondal	Dipta Mondal
29	MOU GHOSH	Mou Ghosh
30	Riya Nathi	Riya Nathi
31	Nabanta Roy	Nabanta Roy
32	RIMU BISWAS	Rimu Biswas
33	KAYEL Saha	Kayel Saha
34	RIYA DEBNATH	Riya Debnath
35	NARIN KHATUN	Narin Khatun
36	CHANDRANI GHOSH	Chandrani Ghosh
37	KOYEL MONDAL	Koyel Mondal
38	BIDISHA PAL	Bidisha Pal

39	PARAMITA DAS	Paramita Das
40	SOMA HAZRA	Soma Hazra
41	PUSA PAL	Pusa Pal
42	PRITHA PAL	Pritha Pal
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Date: 02.11.2019

Utkarsh Bangla Awareness Programme

A training programme by Alliance Foundation for Humanity & Education, Organized by Katwa College In Collaboration with Department of TET & SD, Govt. of West Bengal



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Date: 21.04.2022 Azadi ka Amrit Mahotsav: Netaji Subhas Chandra Bose and the Indian Freedom Struggle



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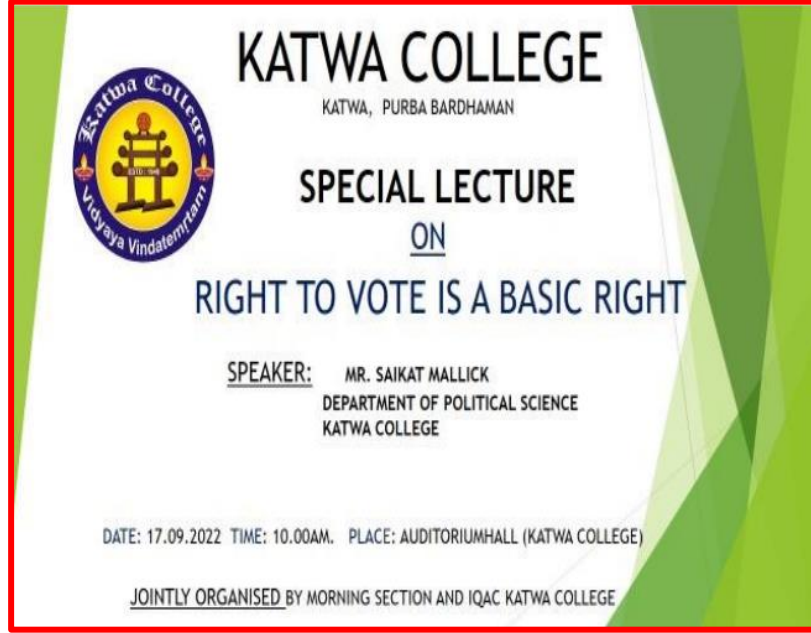
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Date: 17.09.2022

Right to Vote is a Basic Right



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Date: 22.11.2022

Women Also have Minds: An Introduction to Gender and Feminist Criticisms



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Date: 23.11.2022

Gender Sensitization Workshop



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Date: 10.12.2022

International Human Rights



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Date: 30.01.2023

Awareness Program on Breast Cancer

KATWA COLLEGE
KATWA, PURBA BARDHAMAN

Awareness Program on 'Breast Cancer'

Organized by IQAC of Katwa College
Dept. of Physiology
Venue: Katwa College B.Ed. Hall
Speaker: Dr. Aniruddha Sarkar

Date: 30.01.2023



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Date: 10.03.2023

Celebration of International Women's Day by Gender Sensitization Committee

**National Women's Day
Celebration**

Organised By - Katwa College

Gender sensitization & Gender Audit Committee & IQAC & Kanyashree Club

SPEAKERS

Syed Abul Kader
Associate Professor
Dept. of Pol Sc.

And

Rabi Ranjan Sen
Associate Professor
Dept. of History

Venue : Katwa College Auditorium ♦ Date : 10th March, 2023 ♦ Time : 11 A.M



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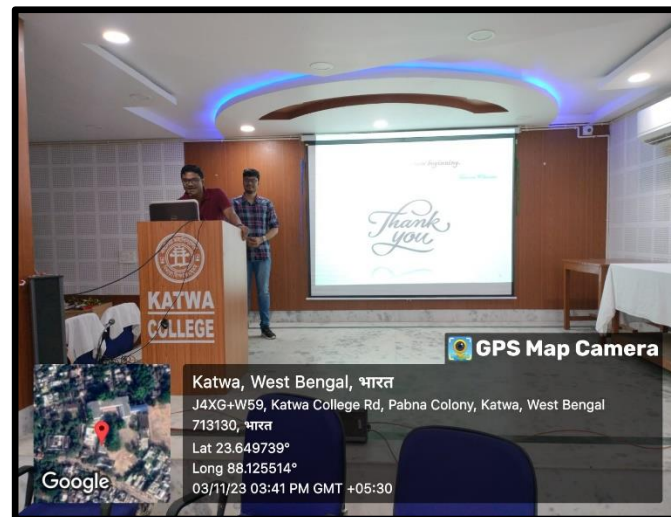
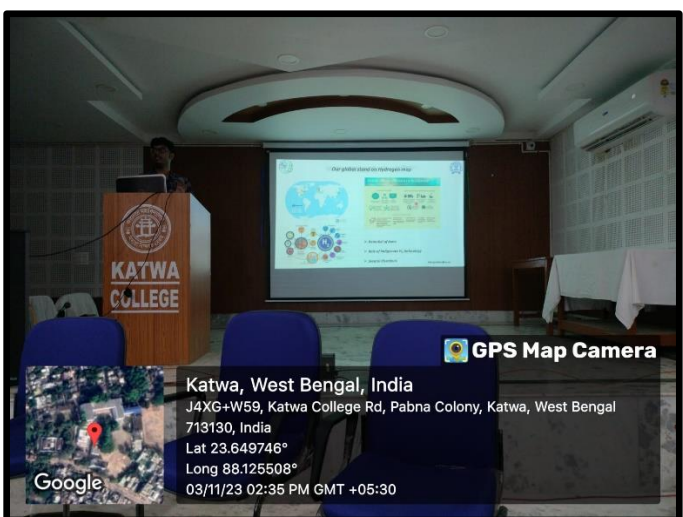
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Date: 03.11.2023

Fuel Emergency & Carbon Footprints: Remedial Measures



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Date: 04.12.2023

Special Lecture on Her Voice: Her Vote: Electoral Literacy for Women



KATWA COLLEGE
KATWA, PURBA BARDHAMAN

INTERACTIVE LECTURE
ON

HER VOICE : HER VOTE : ELECTROAL LITERACY FOR WOMEN

SPEAKER: MR. SAIKAT MALICK
DEPARTMENT OF POLITICAL SCIENCE
KATWA COLLEGE

DATE: 04.12.2023 TIME: 08.00AM. PLACE: ROOM NO-101 (KATWA COLLEGE)

ORGANISED BY MORNING SECTION, IQAC, GENDER SANITIZATION COMMITTEE(KATWA COLLEGE).

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Date: 06.01.2024

Seminar on Kanyashree Awareness Programme



Katwa, West Bengal, India
J4XG+X6R, Katwa College Rd, Pabna Colony, Katwa, West Bengal 713130, India
Lat 23.650048°
Long 88.125698°
06/01/24 12:45 PM GMT +05:30

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বিজ্ঞপ্তি


Date: - 04.01.2024

এছাড়া কার্যক্রম পরিচালনা, বি.এ., বি.এ., বি.এসি. অফিস ও স্টাফের (সিনিয়র) সহায়কদের ও সিনিয়র অধ্যাপকদের উপস্থিতিতে কলকাতা বিশ্ববিদ্যালয়, "Observation of Students' week programme, 2024" উপলক্ষে সপ্তাহে ৩-৫ কার্যক্রম, ২০২৪ (২০২৪) কার্যক্রম পরিচালনা করা হবে। উদ্দেশ্যে ১-৫ নম্বর খণ্ডে সেরা ১০১০০ টা নম্বর একটি সচেতনামূলক "Seminar on Kanyashree Awareness Programme" পরিচালনা করা হয়েছে। উক্ত কার্যক্রম সকলে উপস্থিত এতদ্বারা স্বাগত।


বিষয় :
১) কন্যাশ্রী স্কিম
২) সচেতন মৌলিক ও সামাজিক মূল্য
৩) কন্যাশ্রী স্কিম
৪) কন্যাশ্রী স্কিমের মূল্য ও উন্নয়ন সম্বন্ধে আলোচনা

Sadananda Halder
Coordinator
Students' Week Programme
Katwa College

N. Saha
Principal
Katwa College
Pabna Colony, Katwa
06/01/2024



Katwa, West Bengal, India
J4XG+X6R, Katwa College Rd, Pabna Colony, Katwa, West Bengal 713130, India
Lat 23.650048°
Long 88.125698°
06/01/24 12:45 PM GMT +05:30



Katwa, West Bengal, India
M42G+54M, Pabna Colony, Katwa, West Bengal 713130, India
Lat 23.650299°
Long 88.125727°
06/01/24 12:47 PM GMT +05:30

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Date: 09.01.2024

International Seminar on Artificial Intelligence and our Future



One Day International Seminar on Artificial Intelligence and Our Future



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Date:13.01.2024

Special Lecture on How Mothers Build a Forest in World's Largest Delta



Special Lecture on How Mothers Built A Forest in World's Largest Delta

Organized by
IQAC, Katwa College in Collaboration with Purbasha Eco-Helpline Society, Sundarban (under MoU)

Speaker: Umashankar Mandal (Mangrove Man, Climate Warrior & Socio-Ecologist)

13/01/2024 12 noon College Auditorium



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Date: 23.02.2024 Special Lecture on Environmental Crisis at Present



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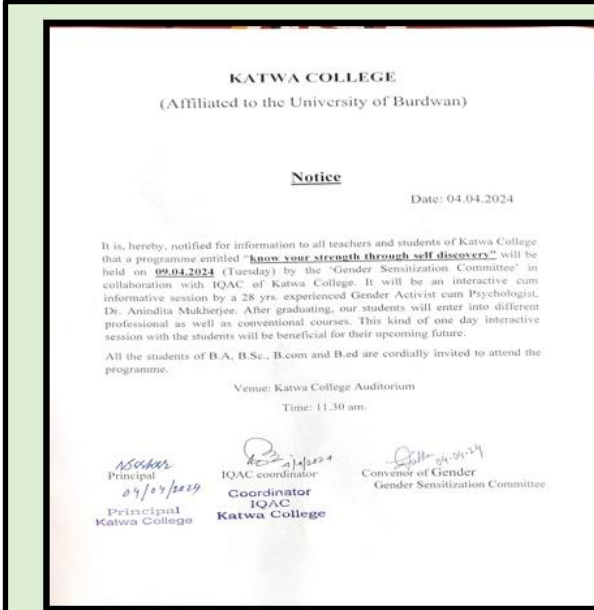
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Date: 09.04.2024

Know Your Strength Through Self Discovery Organized by IQAC & Gender Sensitisation and Gender Audit Committee



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Date: 24.04.2024

Seminar on Voter Awareness in view of Democracy



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Date: 17.05.2024

Seminar on Career Opportunities in the Fields of Wildlife Conventions & Research



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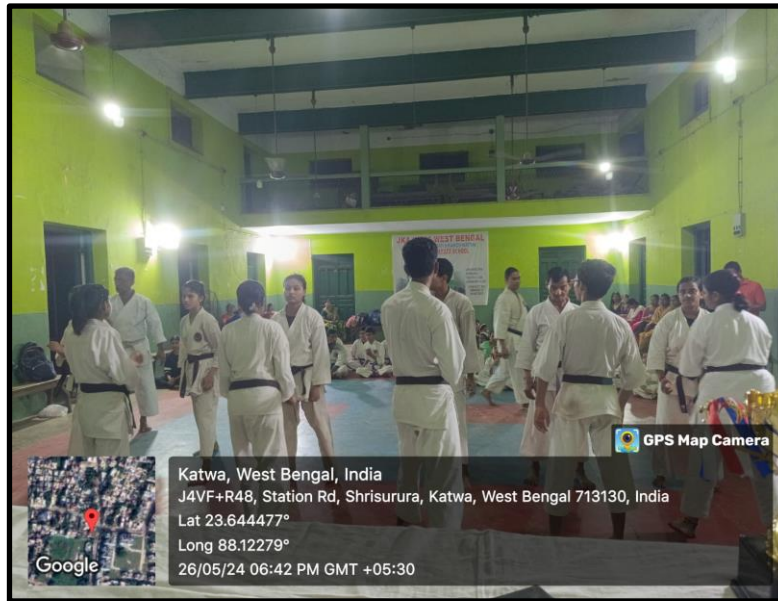
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Date: 26.05.24

JKA India West Bengal Karate Workshop



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Date: 29.05.2024

An International Webinar on Recent Trends in Microelectronic Technology for Wireless Communication

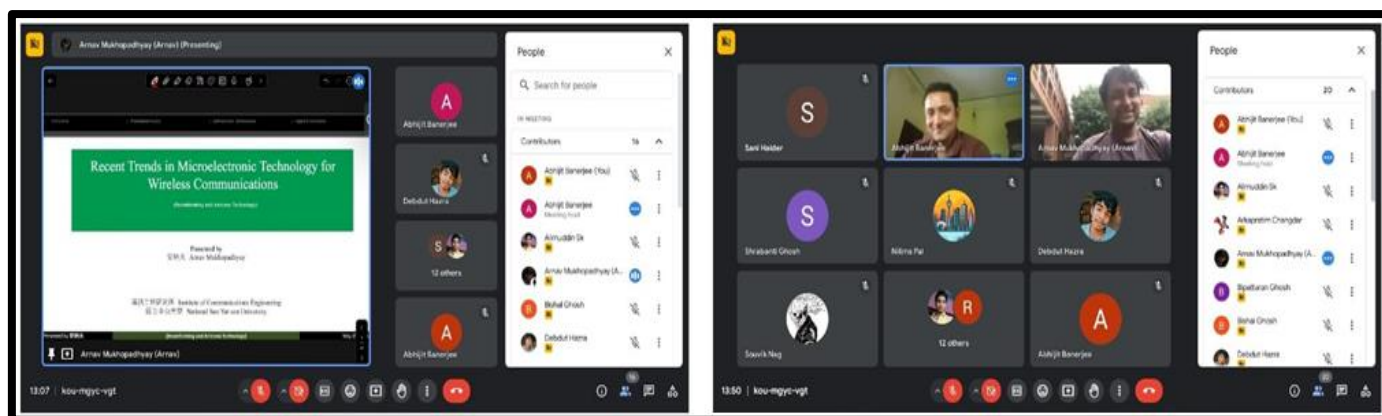
An International Webinar
on
**Recent Trends in Microelectronic Technology
for Wireless Communication**

Speaker
Dr. Arnab Mukhopadhyay
Intelligent Wireless Communication (i-WiC) Lab
Institute of Communications Engineering
National Sun Yat-sen University (NSYSU)
Kaohsiung, Taiwan
通訊工程研究所

Organized by:
**Department of Electronics
Katwa College**

Date: 29.05.2024
Time: 01:00 pm

In Collaboration with
IQAC, Katwa College



Signature of the IQAC Coordinator

**Coordinator
IQAC
Katwa College**

Signature of the Principal

**Principal
Katwa College**



KATWA COLLEGE

(Affiliated to the University of Burdwan)

Principal's Office,

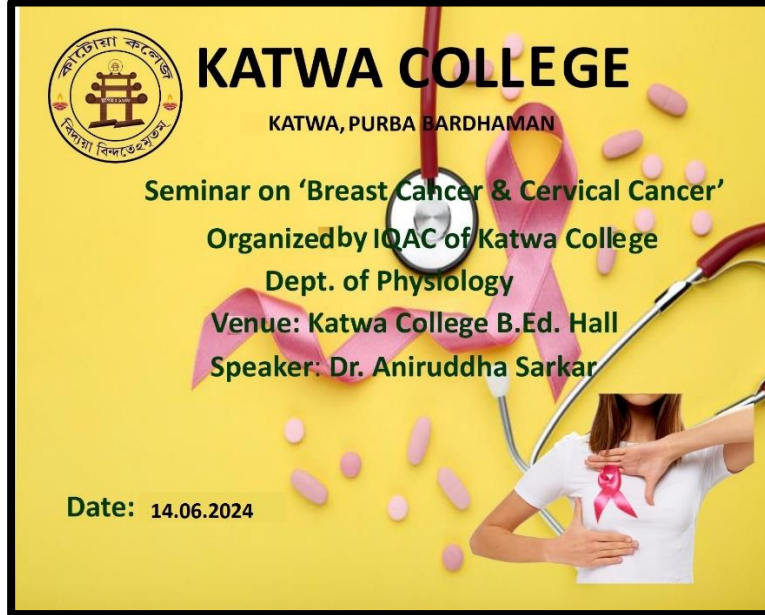
P.O.: Katwa, Dist.: Purba Bardhaman, West Bengal, PIN: 713 130, India.

Mobile: +918101078393

॥ विद्यया विन्दतेऽमृतम् ॥

Date: 14.06.2024

Seminar on Breast Cancer and Cervical Cancer



Signature of the IQAC Coordinator

Coordinator
IQAC
Katwa College

Signature of the Principal

Principal
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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 15.06.2024

Seminar on Intellectual Property Rights: Patents and Designs Process

KATWA COLLEGE
Katwa, Purba Bardhaman

Topic: -One Day Seminar on "Intellectual Property Rights: Patents and Designs Process"

Speaker: Paromita Banerjee, Advocate, Katwa Court & Special P.P under POCSO Act, Katwa court

Venue: Katwa College Auditorium

Date: 15.06.2024 Time: 1:00PM

Organised By Katwa College IQAC



GPS Map Camera
Katwa, West Bengal, India
J4XG+V5X, Katwa College Rd, Pabna Colony, Katwa, West Bengal 713130, India
Lat 23.649722°
Long 88.125555°
15/06/24 01:07 PM GMT +05:30



IPR



GPS Map Camera
Katwa, West Bengal, India
J4XG+W59, Katwa College Rd, Pabna Colony, Katwa, West Bengal 713130, India
Lat 23.649753°
Long 88.125551°
15/06/24 01:09 PM GMT +05:30



GPS Map Camera
Katwa, West Bengal, India
J4XG+V5W, Katwa College Rd, Pabna Colony, Katwa, West Bengal 713130, India
Lat 23.649642°
Long 88.125552°
15/06/24 01:10 PM GMT +05:30

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Coordinator
IQAC
Katwa College

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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 18.06.2024

One Day Seminar on Woman Rights in Public and Political Life

KATWA COLLEGE
Katwa, Purba Bardhaman

One Day Seminar on "Women's Rights in Public and Political Life"

Speakers :- 1) Paromita Banerjee,
Associate Government Pleader, Katwa Court, Empaneled Advocate of Katwa Municipality &
2) Debasish Mondal,
Public Prosecutor, Katwa Court

Date:- 18.06.2024
Time:- 11.30 A.M to 3.30 P.M
Place:- Auditorium Hall

Jointly Organised by Gender Sensitization & Gender Audit Committee and IQAC, Katwa College

Katwa, West Bengal, India
J4XG+W59, Katwa College Rd, Pabna Colony, Katwa, West Bengal 713130, India
Lat 23.64975°
Long 88.125673°
18/06/24 12:24 PM GMT +05:30

Katwa, West Bengal, India
J4XG+V5X, Katwa College Rd, Pabna Colony, Katwa, West Bengal 713130, India
Lat 23.649689°
Long 88.125531°
18/06/24 12:25 PM GMT +05:30

Katwa, West Bengal, India
J4XG+V5W, Katwa College Rd, Pabna Colony, Katwa, West Bengal 713130, India
Lat 23.649637°
Long 88.125485°
18/06/24 12:33 PM GMT +05:30

Signature of the IQAC Coordinator

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IQAC
Katwa College

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Katwa College



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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 19.06.2024

Seminar on Female Foeticide



Signature of the IQAC Coordinator

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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 19.06.2024

Seminar on Breast Cancer

KATWA COLLEGE
KATWA : PURBA BARDHAMAN

Awareness Programme on "Breast Cancer"

Speaker :- Dr. Paresh Nath Banerjee,
Ex-General Physician, Katwa Subdivisinal Hospital
& Member of Katwa College Governing Body

Date:- 19.06.2024

Venue :- Katwa College Auditorium

Organized by IQAC of Katwa College & Department
of Physiology



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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 20.06.2024

Special Lecture on Human Rights Awareness



Signature of the IQAC Coordinator

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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 21.06.2024

Seminar on Intellectual Property Rights



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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 26.06.2024

One Day State Level Seminar on Feminist Philosophy

KATWA COLLEGE

Department of Philosophy
ONE DAY STATE-LEVEL SEMINAR
On
Feminist Philosophy
Organized by
Department of Philosophy and IQAC, Katwa College.
Katwa, Purba Bardhaman, PIN-713130, West Bengal, India.

Resource Persons

SMT. PRIYARANI CHAKRABORTY
Assistant Professor
Department of Philosophy
Centre for Distance & Online Education
The University of Burdwan

MR. BARUN BALL
Assistant Professor & HOD
Department of Philosophy
Chandidas Mahavidyalaya
Khujutpara, Birbhum

Date: 26-06-2024 (Wednesday), Time: 11 A.M.
Venue: Katwa College Auditorium Hall

CHIEF PATRON
MR. RABINDRANATH CHATTERJEE
President, Governing Body, Katwa
College & MLA, Katwa Legislative
Assembly

PATRON
DR. NIRMALENDU SARKAR
Principal, Katwa College.

CO-PATRON
SRI UTPAL DAS
IQAC, Coordinator
Katwa College

CONVENOR (JOINTLY)
ALOKA CHAKRABORTY
Associate Professor & HOD,
Department of Philosophy,
Katwa College &
DR. NAMITA CHOWDHURY
Associate Professor, Department
of Philosophy, Katwa College

TECHNICAL SUPPORT
MR. PRAKASH MONDAL
SACT, Department of Philosophy,
Katwa College &
MR. SOURAV MAJUMDAR
SACT, Department
of Philosophy, Katwa College

ORGANIZING COMMITTEE
MR. HARU MARDI
Assistant Professor, Department of
Philosophy, Katwa College
SMT. SOMA MUKHERJEE
SACT, Department of
Philosophy, Katwa College
MS. BAISHAKHI MODAK
SACT, Department of Philosophy, Katwa College



Signature of the IQAC Coordinator

**Coordinator
IQAC
Katwa College**

Signature of the Principal

**Principal
Katwa College**



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Mobile: +918101078393

॥ विद्यया विन्दतेऽमृतम् ॥

Date: 29.06.2024 One Day Seminar on Scientific Practices in Handling and Use of Plant Protection Chemicals vis-à-vis Safety Measures to be Adopted by the Consumers.

KATWA COLLEGE
Katwa, Purba Bardhaman

ON-DAY SEMINAR ON
"Scientific Practices in Handling and Use of Plant Protection Chemicals vis-a-vis Safety Measures to be Adopted by the Consumers"

Speaker
Dr. Koushik Brahmachari
Professor of Agronomy, Faculty of Agriculture and Director of Extension Education, BCKV. Former Registrar; Former Director of Extension Education and Former Associate Director of the Farmers' Academy and Covention Center, Bidhan Chandra Krishi Viswavidyalaya

Date :29.06.2024, Time : 12.00 Noon
Vane : ICT Room, 2nd Floor, Zoology Department
Jointly Organized by : IQAC & Zoology Department



Signature of the IQAC Coordinator

Coordinator
IQAC
Katwa College

Signature of the Principal

Principal
Katwa College



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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 10.05.2024

Seminar of Carrier Opportunities and Jobs in Industries



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॥ विद्यया विन्दतेऽमृतम् ॥

Section-B

Some Archives of outreach programmes relating the issues relevant to human values and professional ethics, gender, environment and sustainability in transacting the curriculum during the academic year 2019-2024

Signature of the IQAC Coordinator

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IQAC
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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 25.01.2019

Special Summary Revision of Electoral Programme, 2019

Katwa College was felicitated as Best Electoral Literacy Club in recognition of commendable performance, exhibited during the special Summary Revision of Electoral Rolls Programme, 2019 and got the Certificate of Excellence under Katwa subdivision in Purba Bardhaman District.



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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 01.12.2019

Observation of World AIDS Day



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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 29.09.2021 onwards and 07.10.2021 onwards Covid Vaccination Campaign in Katwa College

Covid Vaccination Drive

DATA REQUIRED FOR COVID-19 VACCINATION													
NAME OF COLLEGE/ UNIVERSITY	ADDRESS	DISTRICT	SUBDIVISION	BLOCK/ MUNICIPALITY	1st Dose to be given			2nd Dose to be given			BOTH THE DOSES TAKEN		
					Number			Number			Number		
					STUDENTS	TEACHERS	NON TEACHING STAFF	STUDENTS	TEACHERS	NON TEACHING STAFF	STUDENTS	TEACHERS	NON TEACHING STAFF
Katwa College	Dubbunglow Road, Katwa, Dist. - Purba Bardhaman, PIN - 713130	Purba Bardhaman	Katwa	Katwa	2519	32	Permanent-00 Hostel-00 Casual-31 Security (Through Agency)-00 Hostel Casual - 00	799	4	Permanent-00 Hostel-00 Casual-04 Security (Through Agency) - 00 Hostel Casual - 00	203	68	Permanent- 8 Hostel-5 Casual-10 Security (Through Agency)-07 Hostel Casual - 7

** Data for the students include only 2nd Semester and 4th Semester. 1st Semester admission process is going on and 6th Semester is already passed out.
** Data also include B.Ed students.

Signature of the IQAC Coordinator

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Katwa College**

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Mobile: +918101078393

॥ विद्यया विन्दतेऽमृतम् ॥

Date: 29.07.2022 Plantation and Free Saplings Distribution for Plantation Drive



Plantation and Free Saplings Distribution for Plantation Drive

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IQAC
Katwa College

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Katwa College



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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 12.01.2023 Swami Vivekananda Birthday Celebration (National Youth Day)



Signature of the IQAC Coordinator

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IQAC
Katwa College

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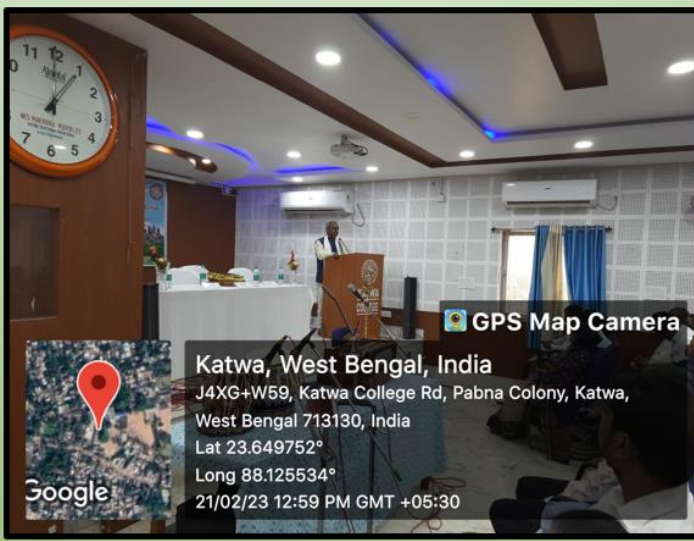
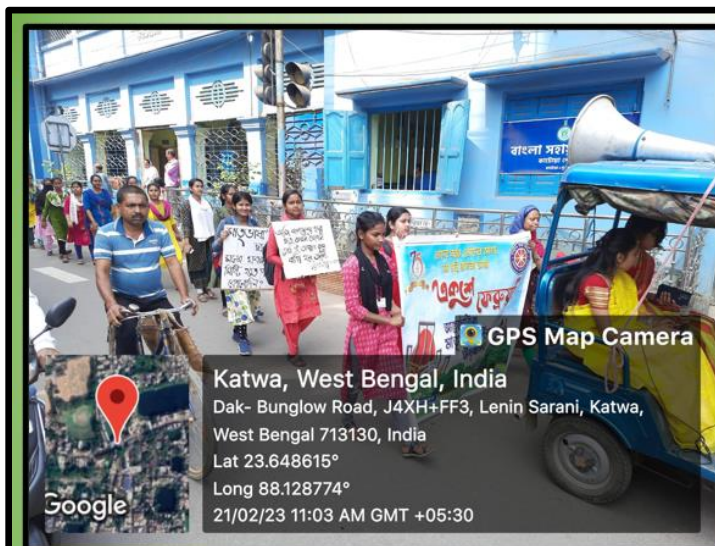
Principal's Office,

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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 21.02.2023 Observation of International Mother Language Day: An awareness of linguistic and cultural diversity



Signature of the IQAC Coordinator

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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 26.05.2023

Ganges River Dolphin Awareness Programme



Signature of the IQAC Coordinator

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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 09.01.2024 One Day International Seminar on Artificial Intelligence and Our Future

KATWA COLLEGE
KATWA, PURBA BARDHAMAN
IN COLLABORATION WITH
BIJNAN PARISHAD, KATWA

ONE DAY INTERNATIONAL SEMINAR
ON
ARTIFICIAL INTELLIGENCE AND OUR FUTURE

Organized by - IQAC, Katwa College & Bijnan Parishad, Katwa

Patron - Dr. Nirmalendu Sarkar, Principal, Katwa College.
Co-Patron - Mr. Sagor Chandra Roy, Jt. Secretary, Bijnan Parishad, Katwa.
Convener - Mr. Utpal Das, Coordinator, IQAC, Katwa College.

SPEAKERS

Dr. Soumik Sarkar
Professor, Mechanical Engineering and Computer Science,
Iowa State University, U.S.A

Dr. Nibaran Das
Professor, Department of Computer Science & Engineering,
Jadavapur University, W.B., India.

DATE: 09/01/2024 TIME: 12.00NOON PLACE: COLLEGE AUDITORIUM



Signature of the IQAC Coordinator

Coordinator
IQAC
Katwa College

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Principal
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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 07.02.2024

Voter Awareness Rally

The Voter Awareness Rally was organized by Electoral Literacy Club in collaboration with IQAC, Katwa College.



Signature of the IQAC Coordinator

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IQAC
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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 20.03.2024

Awareness Campaign for-

- i. Single Use Plastic Free Zone
- ii. Garbage Free College Premises
- iii. Ecological awareness to the local people



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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 01.06.2024

Observation of No Vehicle Day

Katwa College observes 'No Vehicle Day' to raise environmental sensitivity and awareness among students about the vehicular pollution.

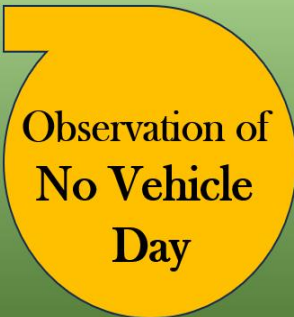


Observation of No Vehicle Day


DATE: 1.6.2024
TIME: 11 A.M.
VENUE: KATWA COLLEGE CAMPUS

KATWA COLLEGE N.C.C. & N.S.S. UNIT (II & III)

Latitude: 23.64993428° Longitude: 88.12548834°
Local 12:01:54 PM Altitude 18 meters
GMT 06:31:54 AM Saturday, 01.06.2024



Observation of No Vehicle Day




Observation of No Vehicle Day

DATE: 1.6.2024
TIME: 11 A.M.
VENUE: KATWA COLLEGE CAMPUS

KATWA COLLEGE N.C.C. & N.S.S. UNIT (II & III)

Latitude: 23.64991136° Longitude: 88.125467°
Local 12:04:04 PM Altitude 18 meters
GMT 06:34:04 AM Saturday, 01.06.2024

On every Saturday students are encouraged to not bring their vehicles in the college.




Observation of No Vehicle Day

DATE: 1.6.2024
TIME: 11 A.M.
VENUE: KATWA COLLEGE CAMPUS

KATWA COLLEGE N.C.C. & N.S.S. UNIT (II & III)

Latitude: 23.64997922° Longitude: 88.12528638°
Local 12:08:32 PM Altitude 18 meters
GMT 06:38:32 AM Saturday, 01.06.2024



Observation of No Vehicle Day

DATE: 1.6.2024
TIME: 11 A.M.
VENUE: KATWA COLLEGE CAMPUS

KATWA COLLEGE N.C.C. & N.S.S. UNIT (II & III)

Latitude: 23.65000985° Longitude: 88.12560734°
Local 12:04:59 PM Altitude 19 meters
GMT 06:34:59 AM Saturday, 01.06.2024

Signature of the IQAC Coordinator

Coordinator
IQAC
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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 05.06.2024

Observation of World Environment Day

The NCC in collaboration of IQAC, Katwa College celebrates the World Environment Day by plantation program



Signature of the IQAC Coordinator

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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 05.06.2024

Observation of World Environment Day

The NCC of Katwa College has observed the World Environment Day in collaboration with IQAC. The Collage has organized a mangrove plantation program along the banks of Ganges in Lahiripur, Gosaba, West Bengal.



Observation of World Environment Day
'Our Land, Our Future...'

Signature of the IQAC Coordinator

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IQAC
Katwa College

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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 31.05.2024

Observation of No Tobacco Day

Katwa College has celebrated the World No Tobacco Day to highlight the health risks of using tobacco, encouraged the smokers to quit smoking and aware the people to protect the children from tobacco interference.



Signature of the IQAC Coordinator

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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 09.06.2024

State Level Seminars on Sundarbans and Environment



Signature of the IQAC Coordinator

Signature of the Principal

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Katwa College

Principal
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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 16.05.2024

Cleanliness Drive in Local Ajay-Bhagirathi River Basin



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Katwa College

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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 16.05.2024

Cleanliness Drive in Local Area

The main purpose of this programme was to create awareness among the students and the local people regarding the cleanliness and its benefits.



Signature of the IQAC Coordinator

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॥ विद्यया विन्दतेऽमृतम् ॥

Date: 09.05.2024 to 16.05.2024 Drinking Water Distribution Campaign During Heat Wave

A 'cool initiative in hot summer' was organized by the NCC and IQAC of Katwa College to serve drinking water, lemon water and oral rehydration solution among the local people in Katwa subdivision, during a massive heat wave attack.



**Drinking Water,
Lemon Water and
ORS Distribution
Among the Local
People During
Massive Heat Wave in
Purba Bardhaman.**

Date: 09.05.2023 to
16.05.2024

Signature of the IQAC Coordinator

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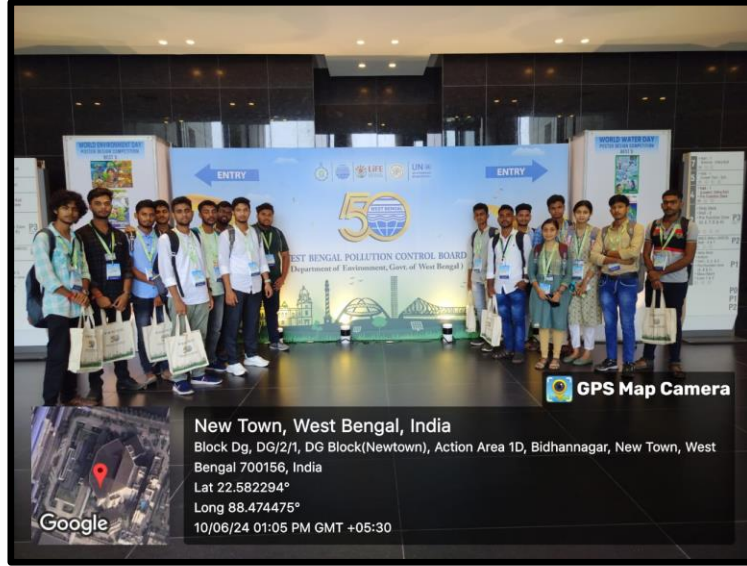
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Date: 10.06.2024 Celebration of World Environment Day at West Bengal Pollution Control Board



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Date: 23.04.2024

Fire Prevention Awareness Campaign

The IQAC of Katwa College along with NCC and fire brigade, Katwa has conducted an extensive awareness campaign to educate the students to prevent gas leaks or inadvertent fires.



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Date: 20.06.2024 & 21.06.2024 Creative Handicraft Exhibition & Fair

The Current and Ex-Students of Katwa College have participated in this handicraft exhibition where the crafts are made by recycled materials.



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Section-C

List of Courses Relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability (offered during the academic session 2019-24, CBCS) with the description of relevance

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1.3.1. List of Courses Relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability (offered during the academic session 2019-24, CBCS) with the description of relevance				
No.	Discipline	Name of Course	Course Code	Short Description of the Course
1	Offered to all students of all subjects	Environmental Science/Education (Environmental Studies)	CVA 1061 (NEP) (AEE101)	Relevance to Environment and sustainability: This Value-Added Course (and/or compulsory ability Enhancement course) is offered to all students of Semester-I. It includes the studies of environmental aspects, particularly conservation and sustainable development and to create awareness and understanding of the environment and its different components.
2	Bengali	Uponyas	CC9	Relevance to Environment: This course is offered to students of B.A. Honours in Bengali in the Semester-IV. The nature of Nara, Boihar, Lobtulia region of Bihar is mentioned in Bibhuti bhusan Bandyopadhyay's 'Aranyak' novel. How nature controls human life and livelihood has come up in the said novel which is taught in the course.

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3	Bengali	Rabindranather Kavita Ebong Adhunik Bangla Kavita	CC8	Relevance to Environment: This course is offered to students of B.A. Program in Bengali in the Semester-IV. Importance of Nature and environment is taught from the poem 'Hariye' by Pamendra Mitra.
4	Botany	Plant Ecology and Phytogeography	CC5	Relevance to Environment and sustainability: This course is offered to students of B.Sc. Honours in Botany in the Semester-III. It includes study of biotic and abiotic environment, their interaction, biodiversity, pollution and study of biomes.
5	Botany	Economic Botany	CC7	Relevance to Environment and sustainability: This course is offered to students of B.Sc. Program in Botany in the Semester-III. It includes study of different types of cereals, legumes, spices, beverages, essential oils and fats, natural rubber, fiber and many more, which have direct impact on environment and society.

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6	Botany	Plant Biotechnology	CC14	Relevance to Environment and sustainability: This course is offered to students of B.Sc. Honours in Botany in the Semester-VI. This course includes study of environmental aspects of genetic engineering.
7	Botany	Intellectual Property Rights	SEC-1	Relevance to Environment and sustainability: This course is offered to students of B.Sc. Honours in Botany as a Generic Elective subject in the Semester-III. This course includes study of Patent, copyright, trademark, geographical indication related to human values and ethics.
8	Botany	Agricultural Botany	SEC-1	Relevance to Environment and sustainability: This course is offered to students of B.Sc. Honours in Botany as a Generic Elective subject in the Semester-III. This course includes study of organic farming which has direct impact on environment.

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9	Botany	Biofertilizers	SEC-2 (Sem-IV Hons) & SEC-1 (Sem-III General)	Relevance to Environment and sustainability: This course is offered to students of B.Sc. Honours in Botany in the Semester-IV as well as B.Sc. General Program in Semester-III. This course includes study of biofertilizer, Mycorrhizal association and organic farming for sustainable development.
10	Botany	Natural Resource Management	DSE-2	Relevance to Environment and sustainability: This course is offered to students of B.Sc. General Program in Botany in the Semester-V. This course includes different types of natural resource and its sustainable utilization.
11	Botany	Plant Diversity and Human welfare	SEC-2	Relevance to Environment and sustainability: This course is offered to students of B.Sc. General Program in Botany in the Semester-IV. This course includes the study of biodiversity, sustainable development and human welfare.

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12	Chemistry	Environmental Chemistry	CCID/ GE4	Relevance to Environment and sustainability: This course is offered to students of B.Sc. General in Chemistry in the Semester-IV. This course covers different aspects of environmental chemistry, such as the atmospheric pollution, air pollution episodes, principles for the estimation of different air pollutants in the air samples, aspects of environmental inorganic chemistry such as smog, acid rain, hazards of nuclear disasters, water pollution, noise pollution, agricultural and industrial pollution and finding green solutions to various environmental hazards
13	Chemistry	Green Chemistry	DSE3	Relevance to Environment and sustainability: This course is offered to students of B.Sc. Honours in Chemistry in the Semester-VI. This course covers different aspects of environment friendly techniques of chemical synthesis covering the 12 principles of Green Chemistry. It focusses on the use of green solvents,

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				selection of starting material etc
14	Chemistry	Applied Chemistry	DSE4	Relevance to Environment: This course is offered to students of B.Sc. Program in Chemistry in the Semester-VI. This course in Unit -II covers different aspects of green chemistry as the alternative chemistry for protection of environment. It includes tools of green chemistry including the use of alternative feed stocks or starting materials, reagents, solvents, target molecules, and catalysts (homogeneous, heterogeneous and biocatalysis) which are environment friendly.
15	Chemistry	Industrial Chemistry	DSE-IA	Relevance to Environment: This course is offered to students of B.Sc. Program in Chemistry in the Semester-V. This course in Unit -II covers different aspects of green chemistry as the alternative chemistry for protection of

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				environment. It includes tools of green chemistry including the use of alternative feed stocks or starting materials, reagents, solvents, target molecules, and catalysts (homogeneous, heterogeneous and biocatalysis) which are environment friendly.
16	Chemistry	Industrial Chemistry	DSE4	Relevance to Environment: This course is offered to students of B.Sc. Program in Chemistry in the Semester-VI. This course in Unit -II covers different aspects of green chemistry as the alternative chemistry for protection of environment. It includes tools of green chemistry including the use of alternative feed stocks or starting materials, reagents, solvents, target molecules, and catalysts (homogeneous, heterogeneous and biocatalysis) which are environment friendly.

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17	Chemistry	Industrial Chemistry	DSE1B	Relevance to Environment: This course is offered to students of B.Sc. Program in Chemistry in the Semester-VI. This course in Unit -II covers different aspects of green chemistry as the alternative chemistry for protection of environment. It includes tools of green chemistry including the use of alternative feed stocks or starting materials, reagents, solvents, target molecules, and catalysts (homogeneous, heterogeneous and biocatalysis) which are environment friendly.
18	Economics	Development Economics	CC10	Relevance to Environment and Sustainability: This course is offered to students of B.Sc. Honours in Economics in the Semester-IV. The course consists of the topic "Sustainable Development" which is relevant to Environment and sustainability.
19	Economics	Environmental Economics	DSE2	Relevance to Environment and Sustainability: This course is offered to

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				students of B.Sc. Honours in Economics in the Semester-V. The course consists of the topic "Sustainable Development" which is relevant to Environment and sustainability.
20	Economics	Environmental Economics	DSE-1B	Relevance to Environment and Sustainability: This course is offered to students of B.Sc. Honours in Economics in the Semester-VI. The course consists of the topic "Sustainable Development" which is relevant to Environment and sustainability.
21	Economics	Development Economics	CC1C/GE3	Relevance to Environment and Sustainability: This course is offered to students of B.Sc. Honours in Economics in the Semester-III. The course consists of the topic "Sustainable Development" which is relevant to Environment and sustainability.
22	Economics	Rural Development	DSE1	Relevance to Gender: This course is offered to students of B.Sc. Honours in Economics in the Semester-V. The course covers the issue of

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				Women Empowerment of Rural Women which is relevant to Gender.
23	English	British Poetry, Drama: Sixteenth to Seventeenth Century	CC4	This course is offered to students of B.A. Honours in English in the Semester-II. Aphra Behn, a woman novelist's work Oroonoko is itself enough to deal with all the items listed above: Professional Ethics, human values, gender, and environment. The same holds true for Bacon's essays and the plays in this paper
24	English	Contemporary India: Women and Empowerment	GE3	This course is offered as a Generic Elective Course in English in Semester-III. It deals with key concepts of gender like 'gender', 'sex', 'patriarchy' etc and includes topics like 'Women and Law' and 'Women and Violence'. The topics address professional ethics as well as environment and sustainability. It encourages women empowerment through topics like women's participation in nationalistic movements and Partition. Literary

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				texts complement the same ideas.
25	English	British Literature: Eighteenth Century	CC8	This course is offered to students of B.A. Honours in English in the Semester-IV. The eighteenth-century periodical essays were brought out and circulated with the avowed aim of bringing "philosophy out of closets, and libraries, schools, and colleges, to dwell in clubs and assemblies, at tea-tables and in coffee-houses." – Addison. Neo-classicism and Enlightenment brought to the fore areas necessitating attention on topics like professional ethics, gender and human values
26	English	Indian Writing in English	CC3	This course is offered as a Generic Elective Course in English in Semester-II. R. K. Narayan's <i>The English Teacher</i> , besides the other poems in the course, touches on these topics: professional ethics, gender, human

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				values, environment. Literature blends diverse values essential for development as a responsible and sensitive human with pleasure and special skills related to the course.
27	English	British Romantic Literature	CC9	This course is offered to students of B.A. Honours in English in the Semester-IV. Romanticism which signifies a 'return to nature' is inextricably bound up with issues of environment and sustainability ; Jane Austen's <i>Pride and Prejudice</i> includes discussion on gender and human values
28	English	British Literature: Nineteenth Century - Victorian	CC10	This course is offered to students of B.A. Honours in English in the Semester-IV. Growth in industry and subsequent replacement of landscapes with factories, imperial missions make it imperative to be alert to issues like human values and environment and sustainability besides gender and professional ethics .

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29	English	Indian Classical Literature	CC1	This course is offered to students of B.A. Honours in English in the Semester-I. This course, being Classical Literature, comprises texts that deal with myriad aspects of life including professional ethics, human values, gender and environment . The characters, the setting, the situations the characters find themselves in are archetypal and sensitise learners to vital aspects of life.
30	English	European Classical Literature	CC2	This course is offered to students of B.A. Honours in English in the Semester-I. This course, being Classical Literature, comprises texts that deal with myriad aspects of life including professional ethics, human values, gender and environment . The characters, the setting, the situations the characters find themselves in are archetypal and sensitise learners to vital aspects of life.
31	English	British Literature: The Early Twentieth Century	CC12	This course is offered to students of B.A. Honours in English in the Semester-V. Topics like 'The World Wars', 'Women's Movements',

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				<p>'Psychoanalysis' and 'The Uses of Myth' are intimately connected to issues of human values, gender and environment and sustainability. Virginia Woolf's novel <i>Mrs Dalloway</i> is a thoroughgoing study of gender and human values in the early 20th century. So is T.S. Eliot's <i>The Love Song of J. Alfred Prufrock</i>.</p>
32	English	Popular Literature	CC6	<p>This course is offered to students of B.A. Honours in English in the Semester-III. Gender and human values are discussed while dealing with 'detective fiction', 'nonsense poetry' and 'children's literature'. Popular Literature blurs the distinction between high and low literature or non-literature and ropes in various issues through a medium acceptable to all.</p>
33	English	Indian Literature in Translation	DSE2	<p>This course is offered as a Generic Elective Course in English in the Semester-VI. Most of the essays and short stories of this paper are concerned with human values</p>

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34	English	Modern European Drama	CC13	This course is offered to students of B.A. Honours in English in the Semester-VI. Henrk Ibsen's drama Ghosts deals with gender, professional ethics and human values ; the other plays also deal with human values . Topics question the meaning of existence and portray the uncertainty and erosion of values.
35	English	American Literature	CC5	This course is offered to students of B.A. Honours in English in the Semester-III. The poems, plays and novels in this paper deal with gender, human values and professional ethics through topics that critique ways of living and their implications.
36	English	Literary Criticism and Histroy of the English Language	DSE4	This course is offered to students of B.A. Honours in English in the Semester-VI. Texts like Aristotle's <i>Poetics</i> , Dr Johnson's <i>Preface to Shakespeare</i> and Matthew Arnold's <i>The Study of Poetry</i> touch upon issues relating to human values
37	English	Post Colonial Literatures	CC14	This course is offered to students of B.A. Honours in English in the Semester-VI. Mahesh Dattani's play <i>Tara</i> is a searching

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				analysis of gender discrimination and professional ethics; the poems and plays in this paper deal with environment and human values
38	English	Women's Writing	CC11	This course is offered to students of B.A. Honours in English in the Semester-V. The paper contains texts which are crucially related to issues of gender and associated topics.
39	English	Literary Theory	DSE3	This course is offered to students of B.A. Honours in English in the Semester-VI. Literary theories like Marxism, Feminism and Postcolonialism sensitise learners to issues relating to gender, professional ethics. and human values
40	Philosophy	Outlines of Indian Philosophy - I	CC1	Relevance to Human values: This part of the syllabus includes the different schools of Indian Philosophy like the Nyāya-Vaiśeṣika; Sāṃkhya and Yoga. For example, it includes the Four Noble Truths of Buddhism and also the cittavṛtti, cittavṛttinirodha of Yoga Darsana. Such Philosophical thoughts help to inculcate human

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				values in students in Semester -I
41	Philosophy	Outlines of Indian Philosophy-II	CC3	Relevance to Human values: This part of the syllabus includes the different schools of Indian Philosophy like the Nyāya–Vaiśeṣika; Sāṃkhya and Yoga. For example, it includes the Four Noble Truths of Buddhism and also the cittavṛtti, cittavṛttinirodha of Yoga Darsana. Such Philosophical thoughts help to inculcate human values in students in Semester - II
42	Philosophy	Indian Ethics	CC5	Relevance to Ethics: This part of the syllabus upholds the concept of puruṣārtha, niṣkāmakarma, brahmavihārabhāvanā and himsā, ahimsā, yama and niyama of Bauddha Darsana and Yoga ethics respectively; which helps in inculcating ethical values in students in Semester - III

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43	Philosophy	Western Ethics	CC6	Relevance to Ethics: This part of the syllabus includes on the one hand Nature and Scope of Ethics; Nature of Morality, Moral and Non-moral actions while on the other it includes issues like, Concerns of Environmental Ethics: Anthropocentrism, Non-anthropocentrism and Eco-feminism. This definitely prepares the students to be moral in their decision making and with the responsibility towards their environment both social and physical in Semester - III
44	Philosophy	Philosophy of Religion	CC10	Relevance to Ethics and human values: This part of the Syllabus deals with Origin and Development of Religion, Dharma, Dhamma which helps in developing a rational view on religion and strengthens their belief system there by inculcating tolerance and ethical values in Semester - IV

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45	Philosophy	Socio-Political Philosophy	CC11	Relevance to human values: This part of the syllabus includes topics like; Social Class and Caste: Class Attitude and Class Consciousness, Marxian Theory of Class, Caste System in India, B. R. Ambedkar's Criticism of Caste System, Dalit Movement, Nation, Nationalism and Internationalism (Rabindranath Tagore), Humanism (Manabendranath Roy) Swaraj and Sarvodaya (M. K. Gandhi). These studies improve the social awareness and ignites a sense of a sustainable living with a sense of we feeling. These studies in way definitely inscribes a sense of professional ethics in students in Semester -V
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46	Philosophy	Philosophy in the Twentieth Century: Indian	CC13	<p>Relevance to Human values and Ethics: This part of the syllabus includes contemporary Indian thinkers and the ethical values that their system of Philosophical thoughts includes. For example; Rabindranath Tagore's concept of the Nature of man: The Finite Aspect of Man, the Infinite Aspect of Man, the Finite-Infinite Aspect of Man and Swami Vivekananda's Practical Vedānta. It undoubtedly helps in developing the concept of Equality and Fraternity amongst students which are very essential in developing human relations. This in its turn help in developing Professional Ethics in Semester - VI</p>
47	Philosophy	Ethics in Practice	SEC4	<p>Relevance to Ethics: The syllabus for 3rd semester generic includes almost all topics of the paper "Western Ethics" that has been allotted for 3rd semester Hons by the University (KNU). So, we find that students benefit equally in inculcating social, moral and ethical values in Semester - VI</p>

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48	Philosophy	Philosophy of Human Rights	SEC2	Relevance to Ethics: The syllabus for third semester Generic and third semester Program is the same. We find that our Program Students benefit equally in inculcating social, moral and ethical values in Semester - IV
49	Political Science	Gender Sensitization	SEC3	Relevance to Gender: The topic Feminist Approach to Politics studied by the students of Fifth Semester in the Political Theory paper enlightens the young minds to uphold the value of equality of all . The injustices suffered by women since time immemorial and their struggle to attain equality empowers the students to envision a society which is devoid of any discrimination in Semester - V
50	Political Science	Political Theory	CC2	Relevance to Human values: The topic Feminist Approach to Politics studied by the students of First Semester in the Political Theory paper enlightens the young minds to uphold the value of equality of all . The injustices suffered by women since time

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				immemorial and their struggle to attain equality empowers the students to envision a society which is devoid of any discrimination in Semester - I
51	Political Science	Indian Political Thought	CC3	Relevance to Human values: The paper on Indian Political Thought throws light on the philosophies of eminent Indian personalities like Raja Rammohun Roy, Mahatma Gandhi, BR Ambedkar and Swami Vivekananda. This opened the avenues for the students to dwell upon the noble ideals of justice, liberty, freedom of thought, social justice and equality . A close analysis of the life experiences and contributions of the above-mentioned personalities creates awareness amongst the students to uphold and cherish the same values individually as well as in the best interest of the development of their nation in Semester - II

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52	Political Science	Social Movements in India	CC11	Relevance to Environment and Sustainability: The paper Social Movements in Contemporary India studied by the students of Semester V has a unit on the major environmental movements in India . It enlightened the students about the interdependence of human with their physical environment. It highlighted the role of organized actions across communities in India who collectively participated in large scale movements to protect their natural environment. The paper focused on historic movements like Chipko Andolan, Narmada Bachao Andolan and Silent Valley movement . The outcomes of these movements led to greater understanding of the strength of organized sustained non-violent mass movement to address the threat caused to environment.
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53	Political Science	Human Rights Education	SEC4	Relevance to Environment and Sustainability: The paper Social Movements in Contemporary India studied by the students of Semester Vi has a unit on the major environmental movements in India . It enlightened the students about the interdependence of human with their physical environment. It highlighted the role of organized actions across communities in India who collectively participated in large scale movements to protect their natural environment. The paper focused on historic movements like Chipko Andolan, Narmada Bachao Andolan and Silent Valley movement . The outcomes of these movements led to greater understanding of the strength of organized sustained non-violent mass movement to address the threat caused to environment.
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54	Political Science	Environmental Awareness	SEC2	Relevance to Environment and Sustainability: The paper Environment Politics offered to Semester IV Honours and Program students helps them to understand the various components of the physical environment, the threat that is being caused to it by uncontrolled human activities and the ways in which the environment can be protected. The unit on climate change helped the students to understand about the collective responsibility of mankind to prevent the damage being caused to the environment. It led to the discussion on the measures which can be taken in this direction and facilitated awareness amongst them. For example, the importance of sustainable lifestyle, avoiding single use plastics, emphasis on recycling, taking public transportation etc. The unit on green governance led to discussions on the concept of sustainable development and
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				balancing economic growth with environment protection.
55	Political Science	Environmental Politics	SEC02	Relevance to Environment and Sustainability: The paper Environment Politics offered to Semester VI Honours and Program students helps them to understand the various components of the physical environment, the threat that is being caused to it by uncontrolled human activities and the ways in which the environment can be protected. The unit on climate change helped the students to understand about the collective responsibility of mankind to prevent the damage being caused to the

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				environment. It led to the discussion on the measures which can be taken in this direction and facilitated awareness amongst them. For example, the importance of sustainable lifestyle, avoiding single use plastics, emphasis on recycling, taking public transportation etc. The unit on green governance led to discussions on the concept of sustainable development and balancing economic growth with environment protection.
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56	History	Women and Social Change in Nineteenth Century	DSE 02	Relevance to Gender: The final semester students of History Hons. have a course on Women and Social Reform in Nineteenth Century in the CBCS Under Graduate syllabus. We teach the students of our college this course, so that they develop an understanding of the social norms and hindrances on the path to progress for women and the endeavours of pioneering women to cross these unsurmountable barriers during the dawn of modernity in India. Although the course primarily deals with the colonial Indian situation, a comparison has been drawn with contemporary Britain where the female suffragists had successfully campaigned for voting rights during the nineteenth century and thus pushed the envelope to some extent. Contemporary women's question and the endeavours of the pioneering social reformers to address this in India has been a
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				significant aspect of this paper. It also tells us about the successful women achievers like Pandita Ramabai, Begum Rokeya, Rukhmabai, Anandibai Joshi and Kadambini Ganguly and how they had to rebel against contemporary social practices. This course also highlights some areas like early regulations on child marriage, problems and prospects of women's education etc. which have remained contemporaneous issues in recent times also. It also enables one to understand women's foray into the public world and its problems.
57	Sanskrit	Classical Sanskrit Literature (Poetry)	CC3	Relevance to Human values through slokas: This course enables student to get a better understanding of metrics and this helps them to decipher slokas in Semestre - II
58	Sanskrit	Classical Sanskrit Literature (Drama); Abhijñānaśakuntalam (Whole)	CC5	Relevance to Gender and Human values: This course focusses on the social relevance of relationship as well as institution of marriage etc in Semester - III

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59	Sanskrit	Basic Elements of Ayurveda	SEC 601	Relevance to Environment and Sustainability: This course discusses about the significance of environmental resources in the form of basic elements of Ayurveda
60	Sanskrit	Dramaturgy Dasarupaka & Sahitya Darpana 6th	DSE 504	Relevance to Human values: Criticism is that dramaturgy which focusses the impact of larger social units, such as institutions on human behaviour.
61	Sanskrit	Classical Sanskrit literature (Prose)	SNS C202	Relevance to Human values: The sanskrit literature discussed in the course (i.e, Vedas, Upanishads, epics) has given much importance to human values in ancient India.
62	Sanskrit	Sanskrit Prose	SNS C201	Relevance to Human values: This course is on Sanskrit poetry and dramatic literature focusses on ethics. Rama has been treated as an ideal man and ethics is explained.

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63	Sanskrit	Vedic literature	SNS C403	Relevance to ethics: This course gives a general concept regarding the Vedic literature, discussed the ethics of the Vedic mantra and also discusses about the origin, phonetic, morphological characteristics of Vedic language.
64	Sanskrit	Vedic literature	SNS DSE 501	Relevance to ethics: Gives a general concept regarding the Vedic literature, discusses the ethics of the Vedic mantra and also discussed about the origin, phonetic, morphological characteristics of Vedic language.
65	Sanskrit	Political Thought in Sanskrit Literature	SNS SE402	Relevance to ethics: This topic gives the discussion of various ministers on the management of the king's kingdom and concerning the king's instruction, which is related with ethical teaching.
66	Sanskrit	Manusanhita Saptam Adhyay	SNS GE501	Relevance to ethics: This course gives insight on the sense of justice towards human life and the ethical teachings in Manusanhita.

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67	Sanskrit	Vedic Literature	SNS C403	Relevance to human values and ethics: Importance of nature in human life, social policy and religious principles & beliefs.
68	Sanskrit	Indian Social Institutions and Polity	SNS C601	Relevance to human values and ethics: This course focuses on royal policy and social policy understanding human values in proper perspective, efficient way of rearing.
69	Sanskrit	Poetics Literary Criticism (Kavya Prakash-I & II)	SNS C501	Relevance to human values and ethics: This course includes manifestation of human moral consciousness, through literature.
70	Sanskrit	Ancient Indian Polity	SNS GE301	Relevance to ethics: The various duties of the king for good governance, punishment policy, tax policy, war policy etc. have been discussed in the chapter Manu samhita, related with ethical teaching.
71	Zoology	Ecology	CC2	Relevance to Environment and Sustainability: It describes the basic concepts of ecology and environment. The syllabus is divided into 4 units. The course highlights on some of the important aspects as

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				for example growth and survival of populations and communities in different habitats, energy flow in the ecosystems, interactions between the communities, exclusion of niches and consequences of changing environment on the biodiversity. The practical syllabus strengthens the theoretical concepts as it involves field study on the theoretical concepts learned by the students in Semester-I
72	Zoology	Aquatic Biology	DSE1	Relevance to Environment and Sustainability : Theory paper describes the aquatic biomes, freshwater and marine ecology and management of aquatic resources. The practical paper strengthens the theoretical concepts by field studies to water bodies, testing of various physicochemical water parameters and their impact on environment in Semester-V

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73	Zoology	Wildlife Conservation and Management	DSE6	Relevance to Environment and Sustainability: This course describes the values of wildlife, importance and ethics of conservation, world conservation strategies, census methods, planning and management of wild life in protected areas and ex situ and in situ conservation methods in Semester-IV
74	Zoology	Communicative Nutrition and Health Statistics	SEC4	Relevance to Environment and Sustainability: This course describes the sources of environmental hazards, effect of climate change on public health, different types of pollution, their sources and control, diseases caused by the environmental pollution and waste management technologies in Semester-VI
75	Zoology	Biodiversity Conservation and Sustainable development	E301	Relevance to Environment and Sustainability: This course describes biodiversity conservation strategies and sustainable development

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76	Geography	Environmental Issues	CC10	Relevance to Environment and Sustainability: In the Semester - IV the course describes the sources of environmental hazards, effect of climate change on public health, different types of pollution, their sources and control, diseases caused by the environmental pollution and waste management technologies.
77	Geography	Environmental Issues	CCID	Relevance to Environment and Sustainability: In the Semester - IV the course describes the sources of environmental hazards, effect of climate change on public health, different types of pollution, their sources and control, diseases caused by the environmental pollution and waste management technologies.

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Related Syllabus: Environmental Science/Education

SEMESTER-I	
VALUE ADDED COURSE	
PAPER CODE: CVA 1061 [COURSE NO. 1]	
ENVIRONMENTAL SCIENCE/EDUCATION	
Unit 1: Basics of Environmental Studies:	(05)
Definition, Nature, Scope and Importance; Components of environment: Environmental education	
Unit 2: Natural Resources: Renewable and Nonrenewable Resources	(10)
Nature and natural resources their conservation and associated problems:	
<ul style="list-style-type: none">• Forest resources: Uses, types and importance, Joint Forest Management & symbiotic relationship between tribal population and forests, Deforestation and its effects• Water resources: Distribution of water on Earth; Use, over exploitation of surface and ground water; Dams: Benefits and problems; Flood and Drought• Mineral resources: Mineral resources in India; Use and exploitation, Social impacts of mining• Food resources: World food problems and food insecurities.• Energy resources: Renewable and Nonrenewable energy sources; Use of alternate energy sources - Case studies• Land resources: Land as a resource; Land degradation, landslides, soil erosion, desertification• Use of resources for sustainable development (Concepts & Goals)	
Unit 3: Ecology and Ecosystems	(08)
<ul style="list-style-type: none">• Concept of ecology, Population ecology, Community ecology• Concept of an ecosystem, different types of ecosystem• Food chains, food webs and ecological succession• Energy flow in the ecosystem and energy flow models	
Unit 4: Biodiversity and its conservation	(08)
Biodiversity: Levels of biological diversity	
<ul style="list-style-type: none">• Values of biodiversity• Hot-Spots of biodiversity, IUCN Red Data Book, Mega-biodiversity countries• Threat to biodiversity• Threatened and endemic species of India	

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- Conservation of biodiversity (*In-situ* and *Ex-situ*)
- Ecosystem services: Ecological, Economic, Social, Ethical, Aesthetical and Informational values

Unit 5: Environmental Pollution and Management (08)

- (a) Nature, Causes, Effects and Control measures of – Air pollution, Water pollution, Soil pollution, Noise pollution
- (b) Solid waste management: Causes, effects and disposal methods; Management of biomedical and municipal solid wastes
- (c) Disaster management: Floods, Earthquake, Droughts, Cyclone and Landslides

Unit 6: Environmental Policies and Practices (10)

Constitutional Provisions for protecting environment- Article 48(A), 51A(g)

- Environmental Laws: The Environment (Protection) Act, 1986; The Air (Prevention and Control of Pollution) Act, 1981; The Water (Prevention and Control of Pollution) Act 1974; Forest (Conservation) Act, 1980
- The wildlife Protection Act, 1972
- Climate change, Global warming, ENSO, Acid rain, Ozone layer depletion; Montreal and Kyoto Protocols

Unit 7: Human Communities and Environment (06)

- Human population growth; Impacts on environment
- Environment and human health: Concept of health and disease; Common communicable and Non- communicable diseases; Public health awareness programmes in India
- Environment movements in India: Chipko Movements, Silent Valley Movement, *Narmada Banchao Aandolan*

Unit 8: Field Work Report/Project Report/Term paper Marks: 20

[Based on any one of the following topics and to be evaluated by internal teachers only]

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Subject: Bengali

Semester IV

CC-8 :কবিতা (Kabita)

Class 60

রবীন্দ্রনাথের কবিতা

Class 30

(পাঠ্য কবিতাসমূহ: নির্ব্বারের স্বপ্নভঙ্গ , মেঘদূত, দুইপাখি, বিদায় অভিশাপ, ব্রাহ্মণ, হারিয়ে যাওয়া, ছেলেটা, পৃথিবী)

আধুনিক বাংলা কবিতা – বর্ধমান বিশ্ববিদ্যালয় প্রকাশিত

Class 30

(পাঠ্যকবিতা : বনলতা সেন- জীবনানন্দ দাশ, মানুষ – কাজী নজরুল ইসলাম, শাস্ত্রী- সুবীন্দ্রনাথ দত্ত, সংগতি – অমিয় চক্রবর্তী, হারিয়ে – প্রেমেন্দ্র মিত্র, একখানা হাত – বুদ্ধদেব বসু, তুমি শুধু পঁচিশে বৈশাখ – বিষ্ণু দে, ভারতবর্ষ – দিনেশ দাস , একটি কবিতার জন্য – সুভাষ মুখোপাধ্যায়, কলকাতার যীশু – নীরেন্দ্রনাথ চক্রবর্তী, প্রিয়তমাসু – সুকান্ত ভট্টাচার্য, জন্মভূমিকেই – শামসুর রাহমান, বাবরের প্রার্থনা – শঙ্খ ঘোষ, যেতে পারি কিন্তু কেন যাব – শক্তি চট্টোপাধ্যায়, উত্তরাধিকার – সুনীল গঙ্গোপাধ্যায়)

CC – 9 : উপন্যাস (Upanyas)

Class 60

চন্দ্রশেখর – বঙ্কিমচন্দ্র চট্টোপাধ্যায়

Class 30

গণদেবতা – তারাশঙ্কর বন্দ্যোপাধ্যায়

Class 30

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Subject: Botany

Semester III

Core Course 5 : Plant Ecology and Phytogeography (Theory-4, Practical-2)

Credits: 6

THEORY

Lectures: 60

Unit 1: Introduction

(6 lectures)

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

Unit 2: Soil

(6 lectures)

Importance; Origin; Formation; Composition; Physical; Chemical and Biological components.

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.

Unit 4: Light, temperature, wind and fire

(4 lectures)

Climatic variables; adaptations of plants to their variation.

Unit 5: Ecosystem

(8 lectures)

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

Unit 6: Population ecology

(4 lectures)

Characteristics and Dynamics .Ecological 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: Functional aspects of ecosystem

(8 lectures)

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

Unit 9: Phytogeography

(12 lectures)

Principles; Continental drift; Theory of tolerance; Endemism; Characteristicfeatures of major terrestrial biomes (one each from tropical, temperate & tundra); Phytogeographical division ofIndia [Phytogeographical classification of India (D. Chatterjee- 1962)]; Vegetation Characteristics of Eastern Himalaya and Sunderbans.

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Core Course 7 : Economic Botany	Credits: 6
THEORY	Lectures: 60
(Theory-4, Practical-2)	
Unit 1: Origin of Cultivated Plants (6 lectures) Concept of Centres of Origin, their importance with reference to Vavilov's work. Examples of major plant introductions; Crop domestication and loss of genetic diversity; evolution of new crops/varieties, importance of germplasm diversity.	
Unit 2: Cereals (6 lectures) Wheat and Rice (origin, morphology, processing & uses); Brief account of millets.	
Unit 3: Legumes (6 lectures) Origin, morphology and uses of Chick pea, Pigeon pea and fodder legumes. Importance to man and ecosystem.	
Unit 4: Sources of sugars and starches (4 lectures) Morphology and processing of sugarcane, products and by-products of sugarcane industry. Potato – morphology, propagation & uses.	
Unit 5: Spices (6 lectures) Listing of important spices, their family and part used. Economic importance with special reference to fennel, saffron, clove and black pepper	
Unit 6: Beverages (4 lectures) Tea, Coffee (morphology, processing & uses)	
Unit 7: Sources of oils and fats (10 lectures) General description, classification, extraction, their uses and health implications groundnut, coconut, linseed, soybean, mustard and coconut (Botanical name, family & uses). Essential Oils: General account, extraction methods, comparison with fatty oils & their uses.	
Unit 8: Natural Rubber (3 lectures) Para-rubber: tapping, processing and uses.	
Unit 9: Drug-yielding plants (8 lectures) Therapeutic and habit-forming drugs with special reference to Cinchona, Digitalis, Papaver and Cannabis; Tobacco (Morphology, processing, uses and health hazards).	
Unit 10: Timber plants (3 lectures) General account with special reference to teak and pine.	
Unit 11: Fibers (4 lectures) Classification based on the origin of fibers; Cotton, Coir and Jute (morphology, extraction and uses).	

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Core Course 14: Plant Biotechnology

Credits: 6

(Theory-4, Practical-2)

THEORY

Lectures: 60

Unit 1: Plant Tissue Culture

(16 lectures)

Historical perspective; Composition of media; Nutrient and hormone requirements (role of vitamins and hormones); Totipotency; Organogenesis; Embryogenesis (somatic and zygotic); Protoplast isolation, culture and fusion; Tissue culture applications (micropropagation, androgenesis, virus elimination, secondary metabolite production, haploids, triploids and hybrids; Cryopreservation; Germplasm Conservation).

Unit 2: Recombinant DNA technology

(12 lectures)

Restriction Endonucleases (History, Types I-IV, biological role and application); Restriction Mapping (Linear and Circular); Cloning Vectors: Prokaryotic (pUC 18 and pUC19, pBR322, Ti plasmid, BAC); Lambda phage, M13 phagemid, Cosmid, Shuttle vector; Eukaryotic Vectors (YAC).

Unit 3: Gene Cloning

(10 lectures)

Recombinant DNA, Bacterial Transformation and selection of recombinant clones, PCR-mediated gene cloning; Gene Construct; construction of genomic and cDNA libraries, screening DNA libraries to obtain gene of interest by genetic selection; complementation, colony hybridization; PCR

Unit 4: Methods of gene transfer

(8 lectures)

Agrobacterium-mediated, Direct gene transfer by Electroporation, Microinjection, Microprojectile bombardment; Selection of transgenics- selectable marker and reporter genes (Luciferase, GUS, GFP).

Unit 5: Applications of Biotechnology

(14 lectures)

Pest resistant (Bt-cotton); herbicide resistant plants (RoundUp Ready soybean); Transgenic crops with improved quality traits (Golden rice); Improved horticultural varieties (Moondust carnations); Role of transgenics in bioremediation (Superbug); edible vaccines; Industrial

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Agricultural Botany (Organic Farming)

(5) Agricultural Botany Credit 2

Lectures =30

Unit: 1 Plant physiology (Lectures : 11)

- Plant water relation, stomatal regulation, mineral nutrition, N₂ cycle.
- CO₂ fixation mechanism in C₂, C₃, C₄ and CAM plants. Transport of water and photosynthate.
- Plant development Phytohormones : IAA, GA, Cytokinin, ABA, Ethylene; their role and regulation in plant system
- Physiology of flowering and seed development

Unit: 2 Organic farming (Lectures : 6)

- Microbes used as bio fertilizer
- Cyanobacteria isolation and mass multiplication
- Mycorrhizal association in Agriculture

Unit:3 Plant breeding, Tissue culture and Biotechnology (Lectures : 13)

- Mass selection and pure line selection, heterosis breeding
- Marker assisted breeding for agronomic crops
- Micro propagation techniques, different organ culture
- Agrobacterium* mediated transformation, vector mediated transformation, Biolistics
- GMO, transgenic plant, patent.
- Molecular markers used in Agriculture

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Skill Enhancement Courses

SEC-1 (any one)

(2) Intellectual Property Rights Credits 2 Lectures: 30

Unit 1: Introduction to intellectual property right (IPR) (2 lectures)
Concept and kinds. Economic importance. IPR in India and world: Genesis and scope, some important examples. IPR and WTO (TRIPS, WIPO).

Unit 2 : Patents (3 Lectures)
Objectives, Rights, Patent Act 1970 and its amendments. Procedure of obtaining patents, Working of patents. Infringement.

Unit 3: Copyrights (3 Lectures)
Introduction, Works protected under copyright law, Rights, Transfer of Copyright, Infringement.

Unit4: Trademark (3 Lectures)
Objectives, Types, Rights, Protection of goodwill, Infringement, Passing off, Defences, Domain name.

Unit 5: Geographical Indications (3 Lectures)
Objectives, Justification, International Position, Multilateral Treaties, National Level, Indian Position.

Unit 6: Protection of Traditional Knowledge (4 Lectures)
Objective, Concept of Traditional Knowledge, Holders, Issues concerning, Bio-Prospecting and Bio-Piracy, Alternative ways, Protectability, need for a Sui-Generis regime, Traditional Knowledge on the International Arena, at WTO, at National level, Traditional Knowledge Digital Library.

Unit 7: Industrial Designs (2 Lectures)
Objectives, Rights, Assignments, Infringements, Defences of Design Infringement

Unit 8: Protection of Plant Varieties (2 Lectures)
Plant Varieties Protection-Objectives, Justification, International Position, Plant varieties protection in India. Rights of farmers, Breeders and Researchers. National gene bank, Benefit sharing. Protection of Plant Varieties and Farmers' Rights Act, 2001.

Unit 9: Information Technology Related Intellectual Property Rights (4 Lectures)
Computer Software and Intellectual Property, Database and Data Protection, Protection of Semi-conductor chips, Domain Name Protection. Computer Software and Intellectual Property, Database and Data Protection, Protection of Semi-conductor chips, Domain Name Protection

Unit 10: Biotechnology and Intellectual Property Rights (4 Lectures)
Patenting Biotech Inventions: Objective, Applications, Concept of Novelty, Concept of inventive step, Microorganisms, Moral Issues in Patenting Biotechnological inventions.

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Skill Enhancement Courses

SEC-2 (any one)

(1) Biofertilizers

Credits : 2

Lectures: 30

Unit 1: General account about the microbes used as biofertilizer – Rhizobium – isolation, identification, mass multiplication, carrier based inoculants, Actinorrhizal symbiosis.

(4 lectures)

Unit 2: *Azospirillum*: isolation and mass multiplication – carrier based inoculant, associative effect of different microorganisms. *Azotobacter*: classification, characteristics – crop response to *Azotobacter* inoculum, maintenance and mass multiplication.

(8 lectures)

Unit 3: Cyanobacteria (blue green algae), *Azolla* and *Anabaena azollae* association, nitrogen fixation, factors affecting growth, blue green algae and *Azolla* in rice cultivation.

(4 lectures)

Unit 4: Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence and distribution, phosphorus nutrition, growth and yield – colonization of VAM – isolation and inoculum production of VAM, and its influence on growth and yield of crop plants.

(8 lectures)

Unit 5: Organic farming – Green manuring and organic fertilizers, Recycling of bio-degradable municipal, agricultural and Industrial wastes – biocompost making methods, types and method of vermicomposting – field Application.

(6 lectures)

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(5) Plant Diversity and Human Welfare

Credits 2

Lectures: 30

Unit 1: Plant diversity and its scope- Genetic diversity, Species diversity, Plant diversity at the ecosystem level, Agrobiodiversity and cultivated plant taxa, wild taxa. Values and uses of Biodiversity: Ethical and aesthetic values, Precautionary principle, Methodologies for valuation, Uses of plants, Uses of microbes. (8 lectures)

Unit 2: Loss of Biodiversity: Loss of genetic diversity, Loss of species diversity, Loss of ecosystem diversity, Loss of agrobiodiversity, Projected scenario for biodiversity loss, **Management of Plant Biodiversity:** Organizations associated with biodiversity management-Methodology for execution- IUCN, UNEP, UNESCO, WWF, NBPGR; Biodiversity legislation and conservations, Biodiversity information management and communication. (8 lectures)

Unit 3: Conservation of Biodiversity: Conservation of genetic diversity, species diversity and ecosystem diversity, *In situ* and *ex situ* conservation, Social approaches to conservation, Biodiversity awareness programmes, Sustainable development. (8 lectures)

Unit 4: Role of plants in relation to Human Welfare; a) Importance of forestry their utilization and commercial aspects b) Avenue trees, c) Ornamental plants of India. d) Alcoholic beverages through ages. Fruits and nuts: Important fruit crops their commercial importance. Wood and its uses. (6 lectures)

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(3) Natural Resource Management (Theory-4, Practical-2)	Credits: 6
THEORY	Lectures: 60
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; Bioprospecting; IPR; CBD; National Biodiversity Action Plan).	(12 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)
Unit 8: Contemporary practices in resource management EIA, GIS, Participatory Resource Appraisal, Ecological Footprint with emphasis on carbon footprint, Resource Accounting; Waste management.	(8 lectures)
Unit 9: National and international efforts in resource management and conservation	(4 lectures)

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Subject: Chemistry

Course Code: Generic Elective-4 (Theo)

4 Credits

(For the students of discipline other than chemistry)

Title: **Solutions, Phase Equilibria, Conductance, Electrochemistry & Analytical and Environmental Chemistry**

2. Environmental Chemistry

a. The Atmosphere: composition and structure of the atmosphere; troposphere, stratosphere, mesosphere and thermosphere; ozone layer and its role; major air pollutants: CO, SO₂, NO_x and particulate matters – their origin and harmful effects; problem of ozone layer depletion; green house effect; acid rain and photochemical smog; air pollution episodes: air quality standard; air pollution control measures: cyclone collector, electrostatic precipitator, catalytic converter.

b. The Hydrosphere: environmental role of water, natural water sources, water treatment for industrial, domestic and laboratory uses; water pollutants; action of soaps and detergents, phosphates, industrial effluents, agricultural runoff, domestic wastes; thermal pollution, radioactive pollution and their effects on animal and plant life; water pollution episodes: water pollution control measures : waste water treatment; chemical treatment and microbial treatment; water quality standards: DO, BOD, COD, TDS and hardness parameters; desalination of sea water : reverse osmosis, electrodialysis.

c. The Lithosphere: water and air in soil, waste matters and pollutants in soil, waste classification, treatment and disposal; soil pollution and control measures.

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4th Semester:

Discipline 1 (Chemistry): CC-1D (Theo)

4 Credits

Course Title: Solutions, Phase Equilibria, Conductance, Electrochemistry & Analytical and Environmental Chemistry

Physical Chemistry

2. Environmental Chemistry

a. The Atmosphere: composition and structure of the atmosphere; troposphere, stratosphere, mesosphere and thermosphere; ozone layer and its role; major air pollutants: CO, SO₂, NO_x and particulate matters – their origin and harmful effects; problem of ozone layer depletion; green house effect; acid rain and photochemical smog; air pollution episodes: air quality standard; air pollution control measures: cyclone collector, electrostatic precipitator, catalytic converter.

b. The Hydrosphere: environmental role of water, natural water sources, water treatment for industrial, domestic and laboratory uses; water pollutants; action of soaps and detergents, phosphates, industrial effluents, agricultural runoff, domestic wastes; thermal pollution, radioactive pollution and their effects on animal and plant life; water pollution episodes: water pollution control measures : waste water treatment; chemical treatment and microbial treatment; water quality standards: DO, BOD, COD, TDS and hardness parameters; desalination of sea water : reverse osmosis, electrodialysis.

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Course Code: DSE-3

2 Credits

Course Title: Green Chemistry (Prac)

1. Preparation of propene by two methods can be studied

a. Triethylamine ion + OH⁻ → propene + trimethylpropene + water

b. 1-propanol $\xrightarrow{H_2SO_4/\Delta}$ propene + water

2. Other types of reactions, like addition, elimination, substitution and rearrangement should also be studied for the calculation of atom economy.

3. Benzoin condensation using Thiamine Hydrochloride as a catalyst instead of cyanide.

4. Photoreduction of benzophenone to benzopinacol in the presence of sunlight.

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Course Code: DSE-4

Course Title: Inorganic materials of industrial importance (Theo)

4 Credits

Silicate Industries

1. Glass: Glassy state and its properties, classification (silicate and non-silicate glasses). Manufacture and processing of glass. Composition and properties of the following types of glasses: Soda lime glass, lead glass, armoured glass, safety glass, borosilicate glass, fluorosilicate, coloured glass, photosensitive glass.

2. Ceramics: Important clays and feldspar, ceramic, their types and manufacture. High technology ceramics and their applications, superconducting and semiconducting oxides, fullerenes carbon nanotubes and carbon fibre.

3. Cements: Classification of cement, ingredients and their role, Manufacture of cement and the setting process, quick setting cements.

Fertilizers

Different types of fertilizers. Manufacture of the following fertilizers: Urea, ammonium nitrate, calcium ammonium nitrate, ammonium phosphates; polyphosphate, superphosphate, compound and mixed fertilizers, potassium chloride, potassium sulphate.

Surface Coatings

Objectives of coatings surfaces, preliminary treatment of surface, classification of surface coatings. Paints and pigments-formulation, composition and related properties. Oil paint, Vehicle, modified oils, Pigments, toners and lakes pigments, Fillers, Thinners, Enamels, emulsifying agents. Special paints (Heat retardant, Fire retardant, Eco-friendly paint, Plastic paint), Dyes, Wax polishing, Water and Oil paints, additives, Metallic coatings (electrolytic and electroless), metal spraying and anodizing.

Batteries

Primary and secondary batteries, battery components and their role, Characteristics of Battery. Working of following batteries: Pb acid, Li-Battery, Solid state electrolyte battery. Fuel cells, Solar cell and polymer cell.

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Discipline 1 (Chemistry): **DSE-1A (Theo)**

4 Credits

Course Title: **Transition Metal & Coordination Chemistry, Analytical and Industrial Chemistry**

2. Industrial Chemistry

a. Fuels: classification of fuel; heating values; origin of coal, carbonization of coal, coal gas, producer gas, water gas, coal based chemicals; origin and composition of petroleum, petroleum refining, cracking, knocking, octane number, antiknock compounds, kerosene, liquefied petroleum gas (LPG), liquefied natural gas (LNG); petrochemicals (C₁ to C₃ compounds and their uses).

b. Fertilizers: manufacture of ammonia and ammonium salts, urea, superphosphate, biofertilizers.

c. Glass and ceramics: definition and manufacture of glasses, optical glass and coloured glass; clay and feldspar, glazing and vitrification, glazed porcelain, enamel.

d. Cement: portland cement: composition and setting of cement, white cement.

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Course Code: DSE-4

Course Title: Inorganic materials of industrial importance (Theo)

4 Credits

Silicate Industries

1. Glass: Glassy state and its properties, classification (silicate and non-silicate glasses). Manufacture and processing of glass. Composition and properties of the following types of glasses: Soda lime glass, lead glass, armoured glass, safety glass, borosilicate glass, fluorosilicate, coloured glass, photosensitive glass.
2. Ceramics: Important clays and feldspar, ceramic, their types and manufacture. High technology ceramics and their applications, superconducting and semiconducting oxides, fullerenes carbon nanotubes and carbon fibre.
3. Cements: Classification of cement, ingredients and their role, Manufacture of cement and the setting process, quick setting cements.

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Fertilizers

Different types of fertilizers. Manufacture of the following fertilizers: Urea, ammonium nitrate, calcium ammonium nitrate, ammonium phosphates; polyphosphate, superphosphate, compound and mixed fertilizers, potassium chloride, potassium sulphate.

Surface Coatings

Objectives of coatings surfaces, preliminary treatment of surface, classification of surface coatings. Paints and pigments-formulation, composition and related properties. Oil paint, Vehicle, modified oils, Pigments, toners and lakes pigments, Fillers, Thinners, Enamels, emulsifying agents. Special paints (Heat retardant, Fire retardant, Eco-friendly paint, Plastic paint), Dyes, Wax polishing, Water and Oil paints, additives, Metallic coatings (electrolytic and electroless), metal spraying and anodizing.

Batteries

Primary and secondary batteries, battery components and their role, Characteristics of Battery. Working of following batteries: Pb acid, Li-Battery, Solid state electrolyte battery. Fuel cells, Solar cell and polymer cell.

Alloys

Classification of alloys, ferrous and non-ferrous alloys, Specific properties of elements in alloys. Manufacture of Steel (removal of silicon decarbonization, demanganization, desulphurization dephosphorisation) and surface treatment (Ar and heat treatment, nitriding, carburizing). Composition and properties of different types of steels.

Catalysis

General principles and properties of catalysts, homogenous catalysis (Hydroformylation, Wacker (Smidt) Process, Monsanto acetic acid process, Wilkinson's catalyst), and heterogenous catalysis (Zeigler-Natta Polymerizations, water gas reaction), catalytic steps and their industrial applications, Deactivation or regeneration of catalysts.

Phase transfer catalysts, application of zeolites as catalysts.

Chemical explosives

Origin of explosive properties in organic compounds, preparation and explosive properties of lead azide, PETN, cyclonite (RDX). Introduction to rocket propellants.

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Subject: Economics

CC10 Development Economics

Full Marks: 75

Credit: 6

Lectures: 70

1. Economic Development

(20 Lectures)

Different concepts of development – Sustainable development, Participatory development, Inclusive development, Human development, Growth and Development– Broad Indicators of Economic Development– Per capita Income– PQLI – Basic needs approach– Human Development Index– Gender Development Index– Gender Empowerment Measure– Human Poverty Index.

2. Development and Underdevelopment as a Historical Process

(12 Lectures)

Dependency theory of Baran – Frank's Theory of colonial exploitation – Merchant Capital in shaping underdevelopment (Kay) – Emmanuel's theory of unequal exchange.

3. Persistence of Underdevelopment and Way to Develop

(20 Lectures)

Characteristics of underdevelopment – Obstacles to underdevelopment – Trap Models – Vicious circle of poverty – Critical minimum effort thesis – Low level equilibrium trap – Process of cumulative causation – Concept of surplus labour – Surplus labour as potential saving – Economic development with unlimited supplies of labour (Lewis Model).

4. Development Strategy

(8 Lectures)

Capital intensive Vs Labour intensive technique – Choice of technique in a labour surplus economy – Sustainable development.

5. Migration and Development – Haris-Todaro Model

(5 Lectures)

6. Poverty and Inequality

(5 Lectures)

Absolute and Relative Poverty- poverty line - poverty measurement: Head Count Ratio, Income Gap Approach- HPI- Inequality axioms- Common Measures of Inequality-Gini index.

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DES 2

Environmental Economics

Full Marks: 75

Credit: 6

Lectures: 70

1. Introduction

(L- 10)

- Interaction between man and nature, Key environmental issues and problems, Link between economy and environment: basic ideas,

2. Externalities

(L- 18)

- Pareto optimality and market failure in the presence of externalities; types of externalities – effects - local, national and global, Environmental Assessment -Measurement issues of externalities, Cost-Benefit analysis (Concept), internalization of externalities

3. Property Right

(L- 10)

Concept of property rights, the Coase theorem. Distinction among public, private, open access and common property resources

4. Environmental Policy

(L- 12)

- Overview, Pigouvian taxes and effluent fees, tradable permits, choice between taxes and quotas, optimum pollution control model

5. International Environmental Problems

(L- 10)

- Trans-boundary environmental problems; economics of climate change; trade and environment.

6. Institutions

(L-5)

- Pollution Control Institutions/Organizations, - local-national-International level, UNEP, IPCC, CPCB, Green Bench,

7. Sustainable Development

(L- 5)

- Concepts, rules and measurement.

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Semester – VI

DSE – 1B : Environmental Economics

Full Marks: 75

Credit: 6

Number of Lectures: 70

1. Introduction

(L- 8)

- Key environmental issues and problems, Link between economy and environment: basic ideas

2. The Theory of Externalities

(L- 12)

- Market failure in the presence of externalities;

3. Issues of property right

(L- 12)

Concept of property rights, the Coase theorem. Distinction among public, private, open access and common property resources

4. The Design and Implementation of Environmental Policy

(L- 16)

- Overview, Pigouvian taxes and effluent fees, tradable permits, choice between taxes and quotas,

5. International Environmental Problems

(L- 16)

- Trans-boundary environmental problems; economics of climate change; trade and environment.

6. Sustainable Development

(L- 6)

- Concepts, rules and measurement.

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Discipline Specific Elective Papers in Semester- V

DSE1

Rural Development

Full Marks: 75

Credit: 6

Lectures: 70

1. Rural Development - Background & Concept:

L-15

Understanding Rural Communities: Structure, Culture and Polity. Development Theories. Lewis model of development, Gandhian model of development; Sustainable Development. Basic concept and issues; Decentralized Governance. Decentralised Planning and Participatory Approach to Rural Development and Role of NGOs

2. Policies and Programmes for Rural Development:

L-15

Rural Development Programmes since independence: IRDP RLEGP, NREP; Rural Development Programmes for Sustainable Development and Poverty Alleviation.: MGNREGA, SGSY, IAY, PMGSY; Vulnerable Groups and Rural Development. Issue of empowerment of Rural women : Role of Govt and NGOs

3. Resources and Livelihoods:

L-15

Livelihoods: State of Agriculture as a source of livelihood and need for diversified employment Resources. and Environment: forestry , fishery, watershed development and peoples' livelihood Non-Farm Livelihoods: Importance of development of non farm sector; rural industrialization programme

4. Stakeholders in Rural Development:

L-10

Rural development and its Stakeholders; Cooperatives and other Formal and Informal Organizations; Credit and Micro-finance

5. Rural Development Approaches In Other Selected Countries

L-15

Rural Developments Experiments and Experiences from the following countries:

Asian Countries – Bangladesh/ China

Latin American Countries – Brazil/ Mexico

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Subject: English

SEMESTER II	
<p>✓ CC - IV: British Poetry, Drama (16th – 17th Centuries) & Rhetoric and Prosody</p> <p>Section A</p> <p>1. a) William Shakespeare: 'Sonnet No. 18', 'Sonnet no. 116' b) John Donne: 'Good Morrow', 'The Sun Rising'</p> <p>Rhetoric and Prosody (Recommended Bose and Sterling)</p> <p>Section B</p> <p>2. William Shakespeare: <i>Macbeth</i> 3. Christopher Marlowe: <i>Edward II</i> (ND) 4. William Shakespeare: <i>Twelfth Night</i> (ND)</p> <p>Topics Renaissance Humanism, The Stage, Court and City, Religious and Political Thought, Ideas of Love and Marriage, The Writer in Society</p> <p>Recommended Readings</p> <p>1. Pico Della Mirandola. Excerpts from The Oration on the Dignity of Man, in <i>The Portable Renaissance Reader</i>, ed. James Bruce Ross and Mary Martin McLaughlin (New York: Penguin Books, 1953) pp. 476–9. 2. John Calvin. 'Predestination and Free Will', in <i>The Portable Renaissance Reader</i>, ed. James Bruce Ross and Mary Martin McLaughlin (New York: Penguin Books, 1953) pp. 704–11. 3. Baldassare Castiglione. 'Longing for Beauty' and 'Invocation of Love', in Book 4 of <i>The Courtier</i>, 'Love and Beauty', tr. George Bull (Harmondsworth: Penguin, rpt. 1983) pp. 324–8, 330–5. 4. Philip Sidney. <i>An Apology for Poetry</i>, ed. Forrest G. Robinson (Indianapolis: BobbsMerrill, 1970) pp. 13–18.</p>	<p>4 (L) + 1 (T) 4(L) + 1 (T) 12(L) + 3 (T) 20(L) + 3 (T) 16(L) + 3 (T) 20(L) + 3 (T) 76 Lectures + 14 Tutorials = 90</p>

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SEMESTER III [ONLY TICKED TEXTS]	
✓ GE – 3: CONTEMPORARY INDIA: WOMEN AND EMPOWERMENT	
1. Social Construction of Gender: ➤ Masculinity, Femininity ➤ Patriarchy ➤ Sex and Gender ➤ Gender Socialization ➤ Gender Discrimination ➤ Gender Stereotyping	10(L) + 2(T)
Text: • 'Complicating Gender: Rights of Transexuals in India' by Ashwini Sukthankar. From Nivedita Menon. <i>Sexualities: Issues in Contemporary Indian Feminisms</i>	10(L) + 2(T)
2. History of Women's Movements in India (Pre- and Post-Independence): ➤ Women and Nationalism ➤ Women and Partition ➤ Women and Political Participation	10(L) = 2(T)
Texts: (any two) • "Letters to a Wife: Satyandranath Tagore's Letters to Jynadanandini Tagore" from <i>Epistolary Cultures in 19th Century Bengal</i> , Stree Samya, Kolkata (Forthcoming) • Gholam Murshed. "Chapter Four" from <i>The Reluctant Debutante</i> • Urvashi Butalia. "Beginnings" from <i>The Other Side of Silence</i> • Jashodhara Bagchi and Shubharanjan Dasgupta. <i>The Trauma and the Triumph: Gender and Partition in Eastern India</i> , Vol. 1 ("Introduction")	10(L) + 2(T)
3. Women and Law: ➤ Women and the Indian Constitution ➤ Personal Laws ➤ Customary Practices on Inheritance and Marriage	8 (L) + 2 (T)
Text: • Sudhir Chandra. <i>Enslaved Daughters</i> [From <i>Women and Law in India: An Omnibus</i>] Selections to be taught: (a) Prologue, and (b) Chapter 1 (May be supplemented by workshop on legal awareness)	8 (L) + 2 (T)
4. Women and Violence: ➤ State Interventions ➤ Domestic Violence ➤ Female Foeticide ➤ Sexual Harassment	8 (L) + 2 (T)
Texts: (any one) • Rokeya Sakhawat Hussain – <i>Sultana's Dream</i> (ND) • Bama Faustina Soosairaj – <i>Karukku</i> (ND)	10 (L) + 2 (T)
	74 Lectures +

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SEMESTER IV	
✓ CC - VIII: British Literature (18 th Century)	
Section A	
1. William Congreve: <i>The Way of the World</i> (ND)	25 (L) + 5 (T)
2. a) Thomas Gray: 'Elegy'	10(L) + 2 (T)
b) William Collins: 'Ode to Evening'	4(L) + 1 (T)
Section B	
3. Daniel Defoe: <i>Moll Flanders</i> (ND)	14(L) + 3 (T)
4. Jonathan Swift: <i>Gulliver's Travels</i> (Books I and II)	22 (L) + 4 (T)
Topics	
The Enlightenment and Neoclassicism, Restoration Comedy, The Country and the City, The Novel and the Periodical Press	75 Lectures + 15 Tutorials = 90
Recommended Readings	
1. Jeremy Collier. <i>A Short View of the Immorality and Profaneness of the English Stage</i> (London: Routledge, 1996).	
2. Daniel Defoe. 'The Complete English Tradesman' (Letter XXII), 'The Great Law of Subordination Considered' (Letter IV), and 'The Complete English Gentleman', in <i>Literature and Social Order in Eighteenth-Century England</i> , ed. Stephen Copley (London: Croom Helm, 1984).	
3. Samuel Johnson. 'Essay 156', in <i>The Rambler</i> , in <i>Selected Writings: Samuel Johnson</i> , ed. Peter Martin (Cambridge, Mass.: Harvard University Press, 2009) pp. 194–7; <i>Rasselas</i> Chapter 10; 'Pope's Intellectual Character: Pope and Dryden Compared', from <i>The Life of Pope</i> , in <i>The Norton Anthology of English Literature</i> , vol.1, ed. Stephen Greenblatt, 8th edn (New York: Norton, 2006) pp. 2693–4, 2774–7.	
4. <i>From Dryden to Johnson</i> by Boris Ford	

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SEMESTER II

✓ CC - III: Indian Writing in English

Section A

1. Lal Behari Day: *Govinda Samanta or the History of Bengal Raiyat* (ND)

20 (L) + 4 (T)

2. Anita Desai: *Clear Light of Day*

20 (L) + 4 (T)

Section B

3. a) H.L.V. Derozio: 'Freedom to the Slave'

3 (L) + 1 (T)

b) Kamala Das: 'Introduction'

3 (L) + 1 (T)

c) Nissim Ezekiel: 'The Night of the Scorpion'

3 (L) + 1 (T)

d) Robin S. Ngangom: 'A Poem for Mother'

3 (L) + 1 (T)

4. Mahesh Dattani: *Bravely Fought the Queen* (ND)

22 (L) + 4 (T)

Topics

Indian English, Indian English Literature and its Readership, Themes and Contexts of the Indian English Novel, The Aesthetics of Indian English Poetry, Modernism in Indian English Literature

74 Lectures +
16 Tutorials = 90

Recommended Readings

1. Raja Rao. Foreword to *Kanthapura* (New Delhi: OUP, 1989) pp. v–vi.

2. Salman Rushdie. 'Commonwealth Literature does not exist', in *Imaginary Homelands* (London: Granta Books, 1991) pp. 61–70.

3. Meenakshi Mukherjee. 'Divided by a Common Language', in *The Perishable Empire* (New Delhi: OUP, 2000) pp. 187–203.

4. Bruce King. 'Introduction', in *Modern Indian Poetry in English* (New Delhi: OUP, 2nd edn, 2005) pp. 1–10.

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SEMESTER IV

✓ CC - IX: British Romantic Literature

Section A

- | | |
|--|----------------|
| 1. a) William Wordsworth: 'Tintern Abbey' | 10 (L) + 2 (T) |
| b) Samuel Taylor Coleridge: 'Kubla Khan' | 5 (L) + 1 (T) |
| 2. William Blake: 'Lamb', 'Chimney Sweeper' (<i>Songs of Innocence</i>)
'Chimney Sweeper' (<i>Songs of Experience</i>), 'The Tyger' | 9 (L) + 2 (T) |

Section B

- | | |
|---|----------------|
| 3. Jane Austen: <i>Pride and Prejudice</i> (ND) | 18 (L) + 3 (T) |
| 4. a) George Gordon Byron: <i>Childe Harold's Pilgrimage</i> (Canto III,
verses 36-45) | 15 (L) + 3 (T) |
| b) P.B. Shelley: 'Ode to the West Wind', 'Ozymandias' | 8 (L) + 2 (T) |
| c) John Keats: 'Ode to a Nightingale', 'To Autumn' | 10 (L) + 2 (T) |

Topics

Reason and Imagination, Conceptions of Nature, Literature and Revolution, The Gothic, The Romantic Lyric

75 Lectures +
15 Tutorials = 90

Recommended Readings

1. William Wordsworth. 'Preface to Lyrical Ballads', in *Romantic Prose and Poetry*, ed. Harold Bloom and Lionel Trilling (New York: OUP, 1973) pp. 594-611.
2. John Keats. 'Letter to George and Thomas Keats, 21 December 1817', 'Letter to Richard Woodhouse, 27 October, 1818', in *Romantic Prose and Poetry*, ed. Harold Bloom and Lionel Trilling (New York: OUP, 1973) pp. 766-68, 777-8.
3. Jean-Jacques Rousseau. 'Preface' to *Emile or On Education*, tr. Allan Bloom (Harmondsworth: Penguin, 1991).
4. Samuel Taylor Coleridge. *Biographia Literaria*, ed. George Watson (London: Everyman, 1993) chap. XIII, pp. 161-66.
5. *From Blake to Byron* by Boris Ford

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SEMESTERIV

✓ CC - X: British Literature (19th Century)

Section A

1. Charles Dickens: *Hard Times*(ND)
2. a) Alfred Tennyson: 'The Lady of Shallot'
b) Robert Browning: 'My Last Duchess'
c) Christina Rossetti: 'The Goblin Market'

25 (L) + 5 (T)

4(L) + 1 (T)

3 (L) + 1 (T)

3 (L) + 1 (T)

Section B

3. Charlotte Bronte: *Jane Eyre*
4. Thomas Hardy: *Return of the Native*(ND)

25(L) + 5 (T)

14(L) + 3 (T)

Topics

Utilitarianism, The 19th Century Novel, Marriage and Sexuality, The Writer and Society, Faith and Doubt, The Dramatic Monologue

74 Lectures +

16 Tutorials = 90

Recommended Readings

1. Karl Marx and Friedrich Engels. 'Mode of Production: The Basis of Social Life', 'The Social Nature of Consciousness', and 'Classes and Ideology', in *A Reader in Marxist Philosophy*, ed. Howard Selsam and Harry Martel (New York: International Publishers, 1963) pp. 186–8, 190–1, 199–201.
2. Charles Darwin. 'Natural Selection and Sexual Selection', in *The Descent of Man in The Norton Anthology of English Literature*, 8th edn, vol. 2, ed. Stephen Greenblatt (New York: Norton, 2006) pp. 1545–9.
3. John Stuart Mill. The Subjection of Women in *Norton Anthology of English Literature*, 8th edn, vol. 2, ed. Stephen Greenblatt (New York: Norton, 2006) chap. 1, pp. 1061–9.
4. *From Dickens to Hardy* by Boris Ford

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SEMESTER I

✓ CC - I: Indian Classical Literature

Section A

- | | |
|--|----------------|
| 1. Vyasa: 'The Book of the Assembly Hall', in <i>The Mahabharata</i> : tr. and ed. J.A.B. van Buitenen (Chicago: Brill, 1975) (ND) | 20 (L) + 4 (T) |
| 2. Sudraka: <i>Mrcchakatika</i> , tr. M. M. Ramachandra Kale (New Delhi: Motilal Banarasidass, 1962). | 20 (L) + 2 (T) |

Section B

- | | |
|--|----------------|
| 3. Banabhatta: <i>Kadambari</i> (Chapter I, II) (ND) | 18 (L) + 4 (T) |
| 4. Kalidasa: <i>Abhijnana Shakuntalam</i> in <i>The Loom of Time</i> (tr. Chandra Rajan, New Delhi: Penguin, 1989) | 18 (L) + 4 (T) |

Topics

The Indian Epic Tradition: Themes and Recensions, Classical Indian Drama: Theory and Practice, Alamkara and Rasa, Dharma and the Heroic

**76 Lectures +
14 Tutorials
= 90**

Recommended Readings

1. Bharata. *Natyashastra*, tr. Manomohan Ghosh, vol. I, 2nd edn (Calcutta: Granthalaya, 1967) chap. 6: 'Sentiments', pp. 100–18.
2. Iravati Karve, 'Draupadi', in *Yuganta: The End of an Epoch* (Hyderabad: Disha, 1991) pp. 79–105.
3. J.A. B. Van Buitenen, 'Dharma and Moksa', in Roy W. Perrett, ed., *Indian Philosophy*, vol. V, *Theory of Value: A Collection of Readings* (New York: Garland, 2000) pp. 33–40.
4. Vinay Dharwadkar, 'Orientalism and the Study of Indian Literature', in *Orientalism and the Postcolonial Predicament: Perspectives on South Asia*, ed. Carol A. Breckenridge and Peter van der Veer (New Delhi: OUP, 1994) pp. 158–95.
5. G. N. Devy. Ed. *Indian Literary Criticism*. Orient Longman.

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SEMESTER I

✓ CC - II: European Classical Literature

Section A

- | | |
|--|----------------|
| 1. Homer: <i>The Iliad</i> , Book I & II (tr. E. V. Rieu; Harmondsworth: Penguin, 1985) (ND) | 20 (L) + 4 (T) |
| 2. Sophocles: <i>Oedipus the King</i> , in <i>Sophocles: The Three Theban Plays</i> (tr. Robert Fagles Harmondsworth: Penguin, 1984) | 20 (L) + 4 (T) |

Section B

- | | |
|--|----------------|
| 3. Ovid: Selections from <i>Metamorphoses</i> 'Bacchus', (Book III). | 15 (L) + 3 (T) |
| 4. Plautus: <i>Pot of Gold</i> , (tr. E. F. Watling; Harmondsworth: Penguin, 1965). (ND) | 20 (L) + 4 (T) |

Topics

The Epic, Comedy and Tragedy in Classical Drama, The Athenian City State, Catharsis and Mimesis, Satire, Literary Cultures in Augustan Rome

75 Lectures +
15 Tutorials = 90

Recommended Readings

1. Aristotle: *Poetics*, translated with an introduction and notes by Malcolm Heath, (London: Penguin, 1996) chaps. 6–17, 23, 24, and 26.
2. Plato: *The Republic*, Book X, tr. Desmond Lee (London: Penguin, 2007).
3. Horace: *Ars Poetica*, tr. H. Rushton Fairclough, Horace: Satires, Epistles and *Ars Poetica* (Cambridge Mass.: Harvard University Press, 2005) pp. 451–73.

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SEMESTER V

✓ CC - XII: British Literature (Early 20th Century)

Section A

1. Virginia Woolf: *Mrs. Dalloway* (ND)
2. John Osborne: *Look Back in Anger*

16 (L) + 4 (T)
20 (L) + 4 (T)

Section B

3. a) W.B. Yeats: 'Leda and the Swan', 'The Second Coming'
b) T. S. Eliot: 'The Love Song of J. Alfred Prufrock', 'The Hollow Men'
4. James Joyce: *A Portrait of the Artist as a Young Man* (ND)

9(L) + 2 (T)
15(L) + 3 (T)

14 (L) + 3 (T)

Topics

Modernism, Post-modernism and non-European Cultures, The Women's Movement in the Early 20th Century, Psychoanalysis and the Stream of Consciousness, The Uses of Myth, The Avant Garde

74 Lectures +
16 Tutorials = 90

Recommended Readings

1. Sigmund Freud. 'Theory of Dreams', 'Oedipus Complex', and 'The Structure of the Unconscious', in *The Modern Tradition*, ed. Richard Ellmann et. al. (Oxford: OUP, 1965) pp. 571, 578-80, 559-63.
2. T.S. Eliot. 'Tradition and the Individual Talent', in *Norton Anthology of English Literature*, 8th edn, vol. 2, ed. Stephen Greenblatt (New York: Norton, 2006) pp. 2319-25.
3. Raymond Williams. 'Introduction', in *The English Novel from Dickens to Lawrence* (London: Hogarth Press, 1984) pp. 9-27.
4. *From James to Eliot* by Boris Ford

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SEMESTER III	
✓ CC - VI: Popular Literature	
Section A	
1. Lewis Carroll: <i>Alice's Adventures in Wonderland</i> (ND)	20 (L) + 4 (T)
2. Agatha Christie: <i>The Murder of Roger Ackroyd</i>	20 (L) + 4 (T)
Section B	
3. L. Frank Baum: <i>The Wonderful Wizard of Oz</i> (ND)	15 (L) + 3 (T)
4. Herge: <i>Tintin in Tibet</i>	20 (L) + 4 (T)
Topics	75 Lectures +
Coming of Age, The Canonical and the Popular, Caste, Gender and Identity, Ethics and Education in Children's Literature, Sense and Nonsense, The Graphic Novel	15 Tutorials = 90
Recommended Readings	
1. Martin Gardner's <i>The Annotated Alice</i> .	
2. Sumathi Ramaswamy. 'Introduction', in <i>Beyond Appearances?: Visual Practices and Ideologies in Modern India</i> (Sage: Delhi, 2003) pp. xiii-xxix.	
3. Leslie Fiedler. 'Towards a Definition of Popular Literature', in <i>Super Culture: American Popular Culture and Europe</i> , ed. C.W.E. Bigsby (Ohio: Bowling Green University Press, 1975) pp. 29-38.	
4. Felicity Hughes. 'Children's Literature: Theory and Practice', <i>English Literary History</i> , vol. 45, 1978, pp. 542-61.	

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Subject: Political Science

CC-8 : INTERNATIONAL RELATIONS

6 Credits

Total Classes : 60

1. Nature and Scope of International Relations; Idealist, Realist, and Neo-Realist approaches in IR.
2. National Power: Concepts and Elements
3. Balance of Power and Collective Security
4. Origin and End of the Cold War
5. Post Cold War global issues: (a) Globalization (b) **Human Rights** (c) Terrorism
6. Disarmament: NPT, CTBT, and NSG.
7. Foreign Policy and Diplomacy: Concepts, Determinants and Objectives
8. Indian Foreign Policy: Basic Tenets.

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CC-9 : SOCIOLOGY AND POLITICS

6 Credits

Total Classes : 60

1. Political Sociology and Sociology of Politics: Nature and Scope
2. Political Culture: Meaning, Components and Types; Political Socialization: Meaning, Role and Agencies
3. Political Participation: Meaning and Components
4. Concepts of Power and Authority; Types of Authority
5. Feminism: Meaning, Significance and Different Schools
6. **Environment and Politics; Environment Movements: An Overview; Eco-Feminism**
7. Religion and Politics; Concept of Secularism
8. State and Civil Society: Media, Society and Politics

SEC-2 : Democratic Awareness Through Legal Literacy

2 Credits

Total Classes 30

- 1 Constitution – fundamental rights, fundamental duties, other constitutional rights
- 2 Laws relating to dowry, sexual harassment and violence against women – laws relating to consumer rights and cyber crimes
- 3 Anti-terrorist laws: Implication for security and **human rights**
- 4 System of courts/ tribunals and their jurisdiction in India – criminal and civil courts, writ jurisdiction, specialized courts such as juvenile courts, Mahila courts and tribunals
- 5 Alternate dispute such as lokadalats, non-formal mechanisms

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Subject: History

Discipline Specific Elective Semester-V Paper –II

6. Changes in the 20th Century

- Influence of Nationalism on Literature;
Introduction of popular Utsab and Melas
- Evolution Theatres in the 20th Century
- Visions of integration and humanity – Rabindranath, KaziNazrul and Sarat Chandra Chattopadhyay
- Social and cultural impact of the Partition; changing role of **Women** in Society.

Subject: Sanskrit

CC -3	Classical Sanskrit Literature(Prose)	Core Course	5-1-0	6	75
	Section-A (15 classes) Śukanāśopadeśa- Kādambarī (As in Sanskrit Pāṭhamālā, B.U. (evarṅ samatīkrāmatsu-----bhrātara ucchedyāḥ)				
	Section-B (15 classes) Daśakumāracarita-(Rājavāhanacarita)--- As in Sanskrit Pāṭhamālā ,BU				
	Section-C (30 classes) (I)The History of Sanskrit Literature (Prose). (Subandhu, Daṇḍin, Bāṇabhaṭṭa) (II) The History of Sanskrit Literature (Fables) (Pañcatantra, Hitopadeśa, Vetālapañcaviṃśati, Siṅhāsanaadvātarimśikā, Puruṣaparīkṣā)				

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CC -5	Classical Sanskrit Literature (Drāmā)	Core Course	5-1-0	6	75
	Section-A (40 classes) (I) Abhijñānaśakuntala (I-V)				
	Section-B (20 classes) (I) The History of Sanskrit Literature (Drāmā) (Bhāsa, Kālidāsa, Śūdraka, Viśākhadatta, Śrīharṣa, Bhavabhūti, Bhaṭṭanārāyaṇa)				

DSE-1	Dramaturgy -- Sāhityadarpaṇa - Chapter- VI (60 classes) (Rūpaka, Nāndī, Vṛttis (without Aṅgas), Prastāvanā, Arthaprakṛti, Arthopakṣepaka, Patākāsthānakas, Kārya, Avasthā, Sandhi (without Aṅgas) & Nāṭikā	Discipline Specific Elective	5-1-0	6	75

CC -3	Classical Sanskrit Literature (Prose)	Core Course	5-1-0	6	75
	Section-A (15 classes) Śukanāśopadeśa- Kādambarī (As in Sanskrit Pāṭhamālā, B.U. (evaṁ samatikrāmatsu-----bhrātara ucchedyāḥ)				
	Section-B (15 classes) Daśakumāracarita-(Rajavāhanacarita)--- As in Sanskrit Pāṭhamālā ,BU				
	Section-C (30 classes) (I) The History of Sanskrit Literature (Prose). (Subandhu, Daṇḍin, Bāṇabhaṭṭa) (II) The History of Sanskrit Literature (Fables) (Pañcatantra, Hitopadeśa, Vetālapañcaviṁśati, Sinhāsanadvātarimśikā, Puruṣaparīkṣā)				

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Course Code	Course Title	Course Type	L.T.P	Credit	MarkS
CC -11	Vedic Literature	Core Course	5-1-0	6	75
	Section-A (40 classes) Rgvedasamhitā –(Agnisūkta-(2/6) , Indrasūkta-(2/12), Akṣasūkta-(10/34) , Devīsūkta-(10/125)				
	Section-B (10 classes) Declension of a-stems, Vedic Subjunctive, Vedic Infinitive, The Vedic Accent & Pada-pāṭha				
	Section-C (10 classes) Íṣopaniṣad - Whole				

	Political Thought in Sanskrit Literature				
	I. Mudrārākṣasa –(Acts-I & II) (20 classes)				
	II. Arthaśāstra- Śāsanādhikāra(20 classes)				

CC-7	Indian Social Institution and Polity	Core Course	5-1-0	6	75
	Section-A (35 classes) Manusamhitā –Chapter-VII State Politics-(1-15), Upāyacatuṣṭaya-(106-110) & Sādgunya –(161-170)				
	Section-B. Arthaśāstra- (Dūtāpranidhi) (25 classes)				

Subject: Zoology

Ecology	Credits 2
List of Practical	
1. Study of life tables and plotting of survivorship curves of different types from the hypothetical/real data provided	
2. Determination of population density in a natural/hypothetical community by quadrat method and calculation of Shannon-Weiner diversity index for the same community	
3. Study of an aquatic ecosystem: Phytoplankton and zooplankton, Measurement of area, temperature, determination of pH and free CO ₂	
4. Report on a visit to National Park/Biodiversity Park/Wild life sanctuary/ Biodiversity Centre/ Any Museum/Sea shore	

Signature of the IQAC Coordinator

Coordinator
IQAC
Katwa College

Signature of the Principal

Principal
Katwa College



KATWA COLLEGE

(Affiliated to the University of Burdwan)

Principal's Office,

P.O.: Katwa, Dist.: Purba Bardhaman, West Bengal, PIN: 713 130, India.

Mobile: +918101078393

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Ecology	4 Credits	Class
Unit 1: Introduction to Ecology		4
History of ecology, Autecology and synecology, Levels of organization, Laws of limiting factors, Study of Physical factors, The Biosphere.		
Unit 2: Population		20
Unitary and Modular populations Unique and group attributes of population: Demographic factors, life tables, fecundity tables, survivorship curves, dispersal and dispersion. Geometric, exponential and logistic growth, equation and patterns, and K strategies. Population regulation, density dependent and independent factors Population Interactions, Gause's Principle with laboratory and field examples, Lotka-Volterra equation for competition.		
Unit 3: Community		11
Community characteristics: species diversity, abundance, , dominance, richness, Vertical stratification, Ecotone and edge effect. succession with one example		
Unit 4: Ecosystem		10
Types of ecosystem with an example in detail, Food chain: Detritus and grazing food chains, Linear and Y-shaped food chains, Food web, Energy flow through the ecosystem, Ecological pyramids and Ecological efficiencies Nutrient and biogeochemical cycle with an example of Nitrogen cycle Human modified ecosystem		
Unit 5: Applied Ecology		5
Wildlife Conservation (in-situ and ex-situ conservation). Management strategies for tiger conservation; Wild life protection act (1972)		

Unit 5: Applied Ecology

Wildlife Conservation (in-situ and ex-situ conservation).

Management strategies for tiger conservation; Wild life protection act (1972)

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Unit 5: Aims and objectives of wildlife conservation

6

1. Wild life conservation in India-through ages; different approaches of wildlife conservation;
2. Modes of conservation ;in- situ conservation and ex-situ conservation
3. Necessity for **wildlife conservation**

Subject: Geography

Theoretical Credit 4 Total Marks: 40 End Term Examination Time: 2 hours

Environmental Issues

1. Geographers' Approach to Environmental Studies
2. Changes in Perception of Environment in different stages of Human Civilization
3. Ecosystem: Concept, Structure and Functions
4. Environmental Degradation and Pollution: Water and Air
5. Environmental Issues related to Agriculture
6. Urban Environmental issues related to Waste Management
7. Concept and Issues related to Bio-diversity
8. Environmental Programs and Policies on Forest and Wetland: National and Global

CC 10 (Practical) : ENVIRONMENTAL GEOGRAPHY Credit: 2

Total Marks: 20 {10+ 10(5+5)} End Term Examination Time: 2 hours

Pattern of Setting Questions:

- 2 questions to be answered, each question carries 5 Marks, Total 10 Marks;
- Evaluation of Laboratory Note Book 5 Marks
- Viva-Voce 5 Marks

Environmental Geography (Practical)

1. Preparation of questionnaire for perception survey on environmental problems
 2. Environmental Impact Assessment: Leopold Matrix
 3. Quality assessment of soil using field kit: pH and NPK
 4. Interpretation of air quality using CPCB / WBPCB data
- Internal Assessment: 15 (Assessment 10 and Attendance 05) Marks**

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