CRITERION I : Curricular Aspects

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

RAMANANDA COLLEGE

BISHNUPUR * BANKURA

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1.3.1 List and description of courses addressing Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum prescribed by the affiliating Bankura University

Programme	Semester	Course Code	Course Title	Issue Addressed				
				Gender	Environment and Sustainability	Human Values	Professional Ethics	Health and Nutrition
Pol. Science	5th Sem	AHPLS-503/DSC-1	HUMAN RIGHTS IN A COMPARATIVE PERSPECTIVE			✓		
Pol. Science	5th Sem	APPLS-503/GE-1	HUMAN RIGHTS, GENDER AND ENVIRONMENT	✓	✓	✓	✓	
Pol. Science	5th Sem	AHPLS-603/DSE-3	WOMEN, POWER AND POLITICS	✓				
Philosophy	6th Sem	APPH1 603 SEC-4	PHILOSOPHY OF HUMAN RIGHTS			✓		
Philosophy	2nd Sem	APPH1 603 GE-2	FEMINISM	✓				
Geography	3rd Sem	SHGEO/301/C-5	CLIMATOLOGY		✓			
Geography	4th Sem	SHGEO/403/c-10P	ENVIRONMENTAL GEOGRAPHY		✓			
Geography	5th Sem	SHGEO/501/C-11	EVOLUTION OF GEOGRAPHY THOUGHT		✓		✓	
Geography	6th Sem	SHGEO/601/C-13T	DISASTER MANAGEMENT		✓	✓		
Geography	6th Sem	SHGEO/602/C-14P	RESEARCH METHODOLOGY AND FIELD WORK		✓			
Geography	5th Sem	SHGEO/504/DSE-3	SOIL AND BIOGEOGRAPHY		✓			
Geography	6th Sem	SHGEO/603/DSE-4	POPULATION GEOGRAPHY		✓	✓		
Geography	6th Sem	SHGEO/604/DSE-4	GEOGRAPHY OF HEALTH AND WELLBEING		✓			✓
Zoology	3rd Sem	UG-SH/ZOOH/303/C-7	ENVIRONMENT AND PUBLIC HEALTH		✓	✓		✓
Zoology	1ST SEM	UG/104/AECC-1	ENVIRONMENTAL STUDIES		✓			
Zoology	1ST SEM	UG-SH/ZOOH-102/C-2	PERSPECTIVE IN ECOLOGY		✓	✓		
Zoology	1ST SEM	UG/104/AECC-ENV	ENVIRONMENTAL STUDIES		✓			
Zoology	3RD SEM	UG/ZOO/304/GE-3	ENVIRONMENT AND PUBLIC HEALTH & ENVIRONMENT AND PUBLIC HEALTH LAB		✓	✓		✓

Zoology	2ND SEM	UGP/S.C./201/C-1B	ECOLOGY		✓			
Nutrition	1st Sem	12311	HUMAN PHYSIOLOGY I			✓		✓
Nutrition	1st Sem	12312	FOOD SCIENCE AND BASIC NUTRITION I			✓		✓
Nutrition	2nd Sem	22311	HUMAN PHYSIOLOGY II			✓		✓
Nutrition	2nd Sem	22312	FOOD SCIENCE AND BASIC NUTRITION II			✓		✓
Nutrition	3rd Sem	32311	NUTRITIONAL BIOCHEMISTRY I			✓		✓
Nutrition	3rd Sem	32312	FOOD COMMODITIES			✓		✓
Nutrition	3rd Sem	32313	HUMAN NUTRITION			✓		✓
Nutrition	4th Sem	42311	NUTRITIONAL BIOCHEMISTRY II			✓		✓
Nutrition	4th Sem	42312	DIET THERAPY I			✓		✓
Nutrition	4th Sem	42313	DIET THERAPY II			✓		✓
Nutrition	4th Sem	42325	PRACTICAL APPROACHES IN FOOD AND NUTRITION			✓		✓
Nutrition	5th Sem	52311	COMMUNITY NUTRITION			✓		✓
Nutrition	5th Sem	52312	COMMUNITY HYGIENE AND SANITATION		✓	✓		✓
Nutrition	5th Sem	52316	FOOD SAFETY AND SUSTAINABLE NUTRITION		✓	✓		✓
Nutrition	5th Sem	52317	MATERNAL AND CHILD NUTRITION			✓		✓
Nutrition	6th Sem	62311	FOOD MICROBIOLOGY		✓	✓		✓
Nutrition	6th Sem	62312	EPIDEMIOLOGY			✓		✓
Nutrition	6th Sem	62316	PUBLIC HEALTH NUTRITION			✓		✓
Nutrition	6th Sem	62317	NUTRIGENOMICS			✓		✓
Education	5th Sem	AH/EDN/503/DSE-1	ENVIRONMENTAL EDUCATION		✓			
Education	5th Sem	AH/EDN/504/DSE-2	MENTAL HEALTH AND HYGIENE			✓	✓	✓
Education	5th Sem	AH/EDN/502/C-12	EDUCATIONAL MANAGEMENT			✓	✓	
Physical Education	4th Sem	UG/PEDG/401/C – ID	HEALTH EDUCATION AND COMPLETE WELLNESS			✓		✓

Economics	5th Sem	SP/ECO/501/DSE-1A (5.1.3)	ENVIRONMENTAL ECONOMICS		✓			
Economics	4th Sem	SH/ECO/404/GE 4.2	ENVIRONMENTAL ECONOMICS		✓			
Economics	6th Sem	SH/ECO/603/DSE 3.2	ENVIRONMENTAL ECONOMICS		✓			
Economics	6th Sem	SH/ECO/604/DSE 4.1	ISSUES IN DEVELOPMENT ECONOMICS		✓	✓		
Economics	6th Sem	SP/ECO/604/SEC-4	CONTEMPORARY ECONOMIC ISSUES			✓		
Economics	4th Sem	SH/ECO/403/C-10	DEVELOPMENTAL ECONOMICS			✓	✓	
English	3rd Sem	UG-ENG-304/GE-3	CONTEMPORARY INDIA : WOMEN AND EMPOWERMENT	✓		✓	✓	
English	5th Sem	UG-ENG-502/C-12	WOMEN'S WRITING	✓		✓	✓	
English	3rd Sem	APENG-301/C-1C	CONTEMPORARY INDIA : WOMEN AND EMPOWERMENT	✓		✓	✓	
English	2nd Sem	206EF	HUMAN RIGHTS AND VALUE EDUCATION / YOGA AND LIFE SKILLS			✓		
English	2nd Sem	ENG 304 C	LITERARY THEORY (GENDER STUDIES AND ECOCRITICISM)	✓		✓		
ENVS	1st Sem	ACSHP/104/AECC1	ENVIRONMENTAL STUDIES		✓			
Botany	1st Sem	ACSHP/104/AECC-1	ENVIRONMENTAL STUDIES		✓			
Botany	2nd Sem	SHBOT/203/GE-2	PLANT ECOLOGY, MORPHOLOGY & TAXONOMY		✓			
Botany	2nd Sem	SPBOT/201/C-1B	PLANT ECOLOGY, MORPHOLOGY & TAXONOMY		✓			
Botany	3rd Sem	SHBOT/305/SEC-1	BIOFERTILIZER		✓			
Botany	3rd Sem	SPBOT/304/SEC-1	BIOFERTILIZER		✓			
Botany	5th Sem	SHBOT/503/DSE-1	NATURAL RESOURCE MANAGEMENT		✓			
Botany	6th Sem	SHBOT/603/DSE-3	INDUSTRIAL & ENVIRONMENTAL MICROBIOLOGY		✓			
Botany	4th Sem	BOT 401C (TH)	ECOLOGY & EVOLUTION		✓			

Botany	4th Sem	BOT 404 EB	MICROBIOLOGY (SPECIAL PAPER)		✓			
History	5th Sem	APHST 503GE-1	Women's Studies in India	✓				
History	6th Sem	APHST 603GE-2	Gender and Education in India	✓				

Code of Conduct

RAMANANDA COLLEGE

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CAMPUS CODE OF CONDUCT FOR STUDENTS'

1. Students are expected to maintain the highest standards of discipline and dignified manner of behavior inside as well as outside the College campus. They shall abide by the rules and regulations of the College and should act in a way that highlights the discipline and esteem of the College.
2. All the students are expected to be present in the class well within time. Students shall rise from their seats when the teacher enters the class room and remain standing till the teacher takes her/his seat or they are allowed by the teacher to sit. Silence shall be observed during class hours. No student shall enter or leave the class room when the session is on without the permission of the teacher concerned.
3. Teachers shall be greeted appropriately with "Good Morning Sir/Madam" or "Good Afternoon Sir/Madam" and a "Thank you Sir/Madam" when the teacher leaves the class room.
4. All students shall leave the classes immediately after the classes are over. No students shall wander or gather in verandah, corridor, and staircase etc. Theyshould not spend much time in canteen, coffee shops etc.
5. All the students are expected to attend college functions, seminars and conferencesand be present for the entire session.
6. All the students shall wear their identity cards, well displayed. Identity badge is a public documentand any teaching staff and non-teaching staff shall have the right to peruse it. Denial of that aloneinvites disciplinary action.
7. All kinds of tattooing, body piercing, hair styling etc. that goes against the existing social norms will be referred to the disciplinecommittee.Any dresscode violation noticed within the campus could initiatefurther disciplinary actions.
8. Students are expected to maintain silence in the academic buildings to maintain the decorum and, anydeviant behavior such as hooting, whistling, loitering etc. will be treated as an instance of indiscipline.
9. For independent study, students are expected to use the class rooms, library or the demarcated areas ofthe academic building and shall not resort to sitting in staircases or circulation areas where they couldinterfere with the free movement.
10. Students are encouraged to make use of the library, common computing facilities and to involve inprofessional body activities or any program authorized by the college beyond class hours. Howeverunder normal circumstances students shall retreat to their hostels or residences by 6.00PM.
11. Students are expected to keep the campus neat and clean. They should not put any waste anywhere in the campus except in the waste baskets.
12. Consumption of intoxicants / psychotropic substances in any form or smoking or using chewinggum, panmasala etc. are strictly prohibited inside the campus.
13. It is strongly advised to refrain from activities such as scribbling or noting on walls, door orfurniture which could deface the college and destroy the academic ambiance.
14. Carefully handle the furniture, equipment, fixtures and appliances of the college and laboratory.Careless handling/misuse of the above could result personal injuries or damage to property. Follow safety precautions near moving machines and electrical installations. In the event ofdamage of property, the responsible students will have to bear the cost of replacement/repairwith fine.
15. Students are not permitted to arrange any unauthorized celebrations and decorations of anymagnitude in the campus.
16. Students are not permitted to distribute or display (both physically and electronically) materialsuch as notices, banners etc. in the campus without the permission of the competentauthority.

17. Students are expected to make use of academic, co-curricular and extracurricular facilitiesavailable to the optimum levels. This will certainly make them physically fit, academicallycompetent, mentally alert and socially sensitive.
18. Students who intend to represent the college in intercollegiate events shall take prior permissionfrom the concerned head of the department and the selection will be based on parameters such asacademic performance, attendance, character and competence of thestudent in the proposed event for participation.
19. Unauthorized meetings,propaganda work, processions or fund collections are forbidden within the College, hostels, andoutside the college.
20. Harassing juniors, ill treatment to other fellow students or any such form of ragging isobjectionable and liable to be treated as criminal offence by the law enforcing agencies as per thedirectives of Hon'ble Supreme Court of India.
21. Misbehavior towards girl students, use of threat or violence against members of the staff or fellowstudents will be considered as very serious cases of misconduct.
22. Any violation of the above rules will invite penalty in the form of warning, fine, bringing ofparents or any course of corrective measure as found suitable by any staff member or higherauthority of the College.

Mobile Phone Policy:

The purpose of this policy is to establish clear cut guidelines regarding the usage of mobile phones insidethe campus. This policy is applicable to the students who enter inside the college campus.Realizing the importance of communication and the possible impact of mobile phone usage inside thecampus, the following guidelines are arrived at:

1. Students are not permitted for using mobile phones without enough cause, within the campus.However, use of phones for academic purposes is allowed if prior permission from a teacher has been taken. The mobile phones must be kept in silent mode during the class hours.
2. Accessing Social Networking Sites such as Facebook, Whatsapp, Twitter etc. is prohibited within the college campus, however access to these sites are permitted in hostel building during time slots specified by the hostel wardens.

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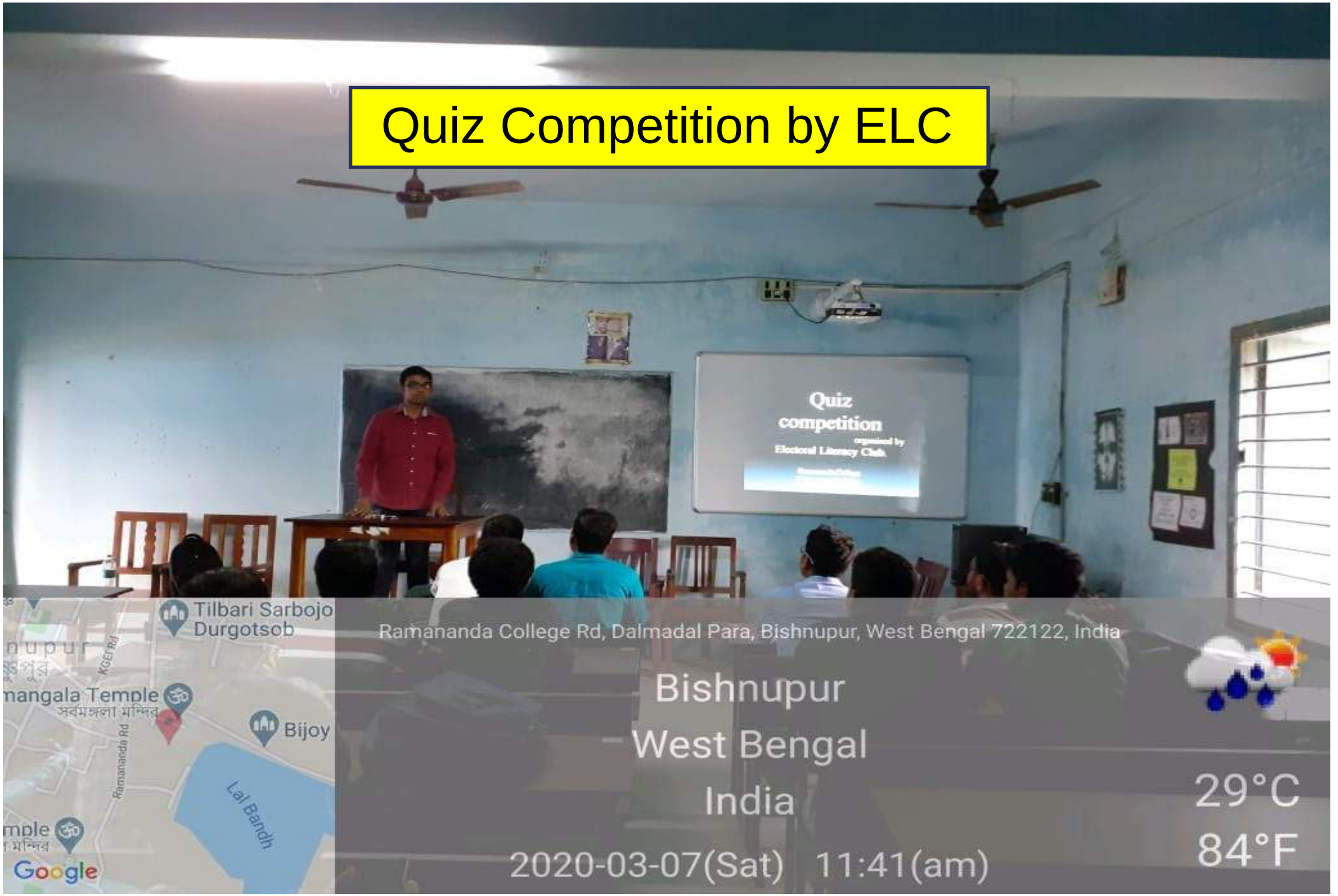
CODE OF CONDUCT FOR TEACHING AND NON-TEACHING

All employees should comply with the directives of all competent authorities, like **Governing Body**, **State Govt.**, **Higher Education Council**, **UGC**, **MHRD**, **Bankura University** and **RUSA**. They should be committed to the **Vision and Mission** of the institution.

i. **Integrity:** Behaviour of everybody must be consistent with the positive moral and ethical principles and standards, based on core values of the institution.
ii. **Respect for others:** All must show respect for the dignity and for the physical and psychic integrity of beneficiaries and stakeholders involved in the institution, recognise the general rights of stakeholders to preserve their privacy, and to be protected from physical and verbal violence.
iii. **Trust:** All stakeholders should have a firm belief in the reliability of each other to be honest, truthful and act with integrity.
iv. **Accountability:** All stakeholders of the college are held responsible for executing their powers and responsibilities properly.
v. **Fairness:** All stakeholders of the institution must treat others with impartiality, free from discrimination or dishonesty.
vi. **Equity, Justice and Social Justice:** All stakeholders must adhere to the educational and social values of sustainability, equality and justice and recognise the rights and responsibilities of future as well as current generations, put into practice fair, transparent, inclusive and sustainable policies and practices in relation to age, disability, gender, race, ethnicity, religion and belief and sexual orientation.
vii. **Personal and Systems Improvement:** All stakeholders should recognise the importance of making the maximum contribution possible to the continuous improvement of the institution.
viii. One should protect the property of the college and must not misuse the resources of the institution, or personal or commercial information held by it, for personal gain.
ix. All should have the endeavour to make the environment clean and eco-friendly.
x. **Harassment and discrimination** of any form by any member of the college are strictly prohibited irrespective of sex, religion, caste and creed.

i. **Non-compliance to the above model code of conduct is subject to disciplinary and punishable measures to be taken by the college authority in accordance with the institutional, statutory and legal provisions.**

Seminar, Workshop of Women Cell, NSS, Prevention of Sexual Harassment Cell etc.


Quiz Competition by ELC
Quiz competition
organized by
Electoral Literacy Club
Tilbari Sarbojo Durgotsob
Ramananda College Rd, Dalmadal Para, Bishnupur, West Bengal 722122, India
Bijoy
Lal Bandh
Google
Bishnupur
West Bengal
India
29°C
84°F
2020-03-07(Sat) 11:41(am)



International Women's Day - 08.03.2019



International Women's Day - 08.03.2019



Constitution Day, ELC - 26.11.2020



International Mother Language Day - 21.02.2018



Legal Awareness Camp - 27.03.2019


NSS Awareness Programme in College - 27.03.2019
(NSS)
Ramananda College Rd, Dalmadal Para, Bishnupur, West Bengal 722122, India
Bishnupur
West Bengal
India
2020-02-29(Sat) 11:13(AM)
30°C
86°F
Google


Plastic Free Zone
PLANT



Road Safety Weak - 27.07.2018

Karate Class and Student List

RAMANANDA COLLEGE (1)

BISHNUPUR * BANKURA
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Tel (03244) 252059
Tele Fax. (03244) 254427
Mobile No. - +916297976619
E-mail : principal@ramanandacollege.org
Website : www.ramanandacollege.org

Batch I, 2020

Sl. No.	Name	Semester	College Roll No.	Phone No.
1	Shampa Singhadeb	4th	911	9083150 895
2.	Krishna Dhara	4th	632	6295953630
3.	Ibu Bairagi	4th	343	8101393325
4.	Mon Dhar	6th	20	8637875752
5.	Baishakhi Bauri	6th	16	8918497750
6.	Sneha Sankhel	6th	02	8617642970
7.	Rajasree Ray	6th	1188	9476414031
8.	Tanusree Nandi	6th	1073	8167319935
9	Mallika Elend	6th	1072	6295 5 31073
10.	Shuma Lohar	6th	1107	6296171128
11	Mampi Lohar	6th	1078	8515955899
12	Priyanka Murhi	6th	421	8927925844
13	Dipasani Kuila	6th	761	8768349400
14.	Nisha Ghosh	2nd	278	6296465960
15.	Annisha Dash	2nd	1085	9474596091
16.	Priyoshree Sankar	2nd	277	8617091097
17.	Riya Laha	4th	863	6296557768
18.	Sneha Nandi	4th	486	6297290592
19.	Lakshmipriya Dey	4th	793	7044703072
20.	Rupa Dey	2nd	642	6296262927
21	Priyanka Dutta	4th	370	6297277569

List of Students for Self Defence course.

Sl No	Name of Student	Sem	UID/ Roll No	phone no	Signature
1.	Supriya Maji	VI (History Hons.)	17181104022/ 159.	7047967241	Supriya Maji
2.	Anushree Dhibar	VI. (Hist. Hon)	17181104004 162.	7047755034	Anushree Dhibar
3.	Mallika Karmakar	VI. (Prog.)	17181201184 376	8001910609	Mallika Karmakar
4.	Pampa Mal	VI. (Hist. Hons).	17181104016 151	7908220307	Pampa Mal.
5.	Mantu Loho	II. (Hist. Hons)	~~99~~ 223	8327420326	Mantu Loho
6.	Priya Lohar	II. (Hist Hons)	198	8436301932	Priya Lohar
7.	Shipra Rana	II. (Eng. Hons.)	162	7908154536	Shipra Rana.
8.	Anisha Maji	II. (Eng Hons.)	100	6296547155	Anisha Maji
9.	Sudipa Biswas	II. (Eng. Hons.)	123	7047716924	Sudipa Biswas
10.	Tanushree Lohar	6th Sem. (Prog.	17181209007 823	7872031631	Tanushree Lohar
11.	Priya Dhibar	VI. Sem (Prog.)	17181206087 322	9749591638	Priya Dhibar
12.	Mousumi Kundu	VI. Sem. (Prog.)	17181206039 724	6294634885	Mousumi Kundu
13.	Mithu Lohar.	VI. Sem Prog.	17181209837 422	8942935223	Mithu Lohar
14.	Samapti Mandal	IV. Sem Math Hons.	18179121012 42	7864883850	Samapti mandal
15.	Mitu patra	IV Sem Math Hons.	18173121022 52	8158957984	Mitu Patra

Sl no	Name of Students	Sem	UID/ Roll no	Phone no	Signature
16.	Sarona Murmu	IV Sem Hist Hons.	181731010 12 90	9382748951	Sarona Murmu
17.	Rajashree Rana	II Sem Hist. Hons	191711040 05	9064080190	Rajashree Rana
18.	Riya Nandi	II Sem Hist. Hons	03	6295138486	Riya Nandi
19.	Asha Ganai	IV Sem Hist. Hons	119	7679043332	Asha Ganai
20.	Lakshmi Dey	VI Sem Edu Programme	430	7001037917	Lakshmi Dey
21.	Mamoni Bag	VI Sem Edu Programme	1052	7031906691	Mamoni Bag
22.	Trishnali Chowdhury	VI Sem Edu Programme	715	8514950 293	Trishnali Chowdhury
23.	Sanchita Dutta	VI Sem Bengali Programme	590	6294467 185	Sanchita Dutta



Karate Classes



Biodiversity

Ramananda College at a glance

Ramananda College, affiliated to Bankura University, is located in the heritage town of Bishnupur and named after Internationally renowned journalist, editor, social reformer and essayist Ramananda Chattopadhyay. The motto of the college ***Sraddhaban labhate jnanam*** expresses the aims and objectives of the management, teachers, learners and non-teaching staff of this institution. The foundation of this college to a great extent caters the need of the local populace. Since its inception in 1945 the college has been serving for more than 71 years as the Alma Mater of thousands of students coming from rural Bengal. It is the only full-fledged degree college with all the three major conventional streams - B.A., B.Sc. and B.Com (Honours and General course in 19 and 20 subjects respectively) in the entire locality. In addition, our college offers PG courses in Bengali, English, Sanskrit, Mathematics and Botany. The Vision of the college is to provide best academic standards and opportunities to its students and equip them with such skills that will help them to become global citizens.

Biodiversity Management Committee, Ramananda College organizes this international seminar on BIODIVERSITY AND ITS CONSERVATION.



Theme of the Seminar

The biosphere constitutes a vital life support system for man. Its existence in a health and functional state is essential for the existence of human race. It is the complex collection of innumerable organism - the biodiversity which makes our lives both pleasant and possible. Complex beyond understanding and valuable beyond measure biological diversity is the total variety of life on our planet. The fast rate of extinction of life forms which is causing serious concern to us. Before man's appearence our this planet the rate of extinction was one species per thousand years. However the pressure of human activities has drastically changed the picture. In a span of three hundred years between 1650 A.D. to 1950 A.D. about 30 species of high animals here lost and now we are probably losing one species every year. No doubt it is impossible to preserve all of the species but prudence demands that we should intensify our efforts far exsitu as well as in situ conservation.

About Bishnupur

It is located at 23005'N 87019'E. It is located in the Bankura district of West Bengal and is famous for the terracotta temples made from the locally available laterite stones.

Bishnupur was the capital of Malla Kings. Bishnupur's glorious past is emulated in its traditional architecture, monuments and handicrafts such as pottery and weaving. Under the patronage of Malla Kings, Bishnupur developed as a town of several temples with unique terracotta work.

Bishnupur is also known for its traditional handloom saris as well as terrocotta pottery, artifacts and jewelry and the Bishnupur school of painting.

The rich tradition of the Bishnupur Gharana, a school of classical music is kept alive through local music academies.

Communication

Bishnupur is well connected via roads to almost all major places of Bengal. Long distance buses connect Bishnupur to places like Kolkata, Durgapur, Asansol, Midnapur, Kharagpur etc. There are regular and frequent bus services available between Kolkata and Bishnupur. Bishnupur is well connected by rail to the rest of the country via Kharagpur and Adra. Nearest International Airport is Dumdum, Kolkata (Netaji Subhas International Airport) Which is about 140 km from Bishnupur.

Invitation

Ramananda College cordially invites the teachers, students and research scholars to participate in the One Day National Seminar on the topic 'Biodiversity and Its Conservation' which is scheduled to be held on 2nd March, 2020 at the College

Co-operation from all corners is highly solicited.

With thanks

DR. SWAPNA GHORAI
Principal, Ramananda College
DR. AJIT KUMAR DUTTA
Convenor
Associate Professor, Dept. of Botany
Ramananda College
DR. SHYAMAL KANTI MALLICK
Joint Secretary
Assistant Professor, Dept. of Botany
Ramananda College
DR. SUBHANKARI PRASAD CHAKRABORTY
Joint Secretary
Assistant Professor, Dept. of Physiology
Ramananda College

Resource Persons

Honourable Resource Persons

Key Note Address

PROF. SHYAMAL SANTRA

Minister of State, Dept. of Panchayat and
Rural Development and Public Health Engineering
Govt. of West Bengal
and President of Governing Body

PROF. NIRANJAN BEHERA

School of Life Sciences,
Sambalpur University, Orissa

PROF. PRABIR RANJAN SUR

Scientist
Botanical Survey of India,
Shibpur, West Bengal

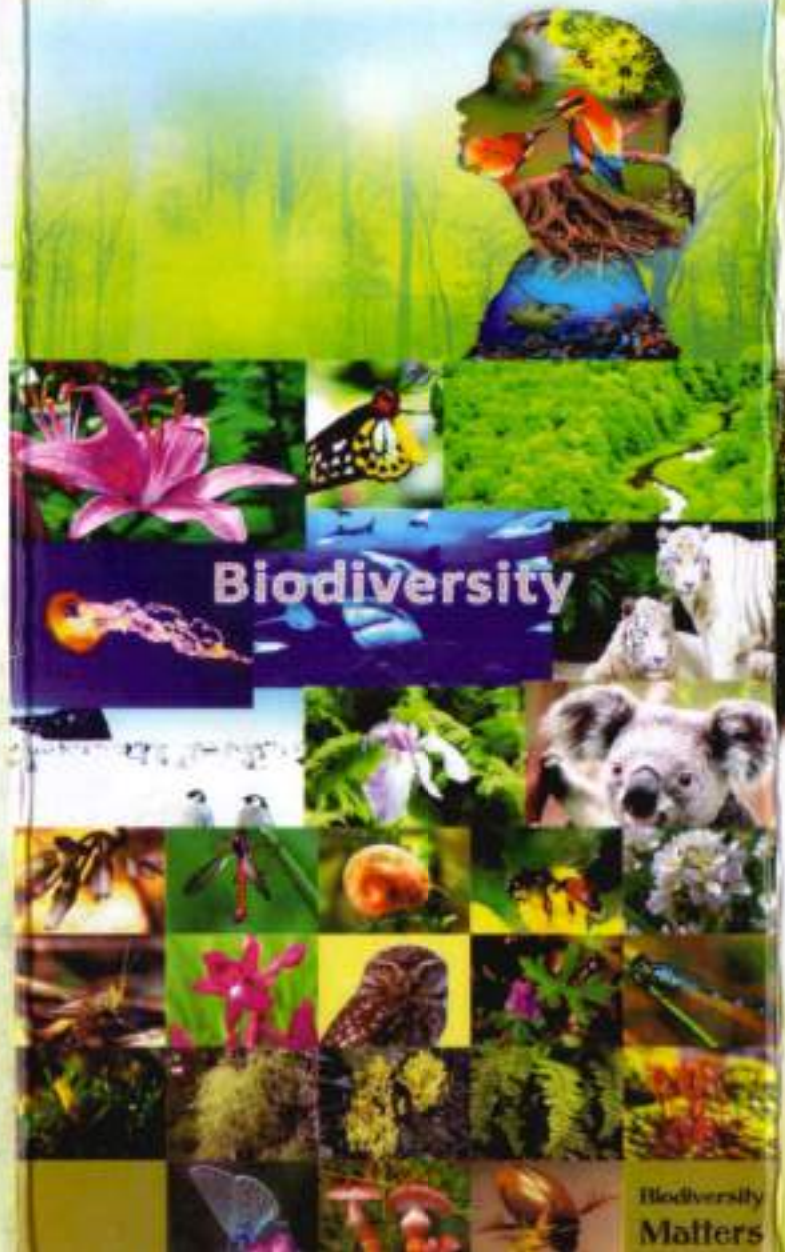
DR. PARTHA PRATIM CHAKRAVORTY

Associate Professor and Head
P.G. department of Zoology
Raja N.L.Khan Women's College (Autonomous)



Registration Fees

Academic delegates Rs.200/-
Students Rs. 100/-



One Day
National Seminar
on

BIODIVERSITY AND ITS CONSERVATION

Date : 2nd March, 2020

Organized by

Biodiversity Management Committee
Ramananda College
Bishnupur, Bankura



At

RAMANANDA COLLEGE

Estd. - 1945

UGC Recognised & State Government Aided
Constituent College
Under the Bankura University
(Accredited by NAAC at B Level)

P.O. - Bishnupur, Dist. - Bankura
Pin - 722122, State - West Bengal
Tel - 6297976619
Website - www.ramanandacollege.org

One Day National Seminar on

BIODIVERSITY AND ITS CONSERVATION

Date : 2nd March, 2020

Sponsored by

West Bengal Biodiversity Board
Dept. of Environment
Government of West Bengal

Organized by

Biodiversity Management Committee
Ramananda College
Bishnupur, Bankura

The Organizing Committee cordially invites you to the inaugural ceremony of the One day National Seminar on **"BIODIVERSITY AND ITS CONSERVATION"** *to be held on 2nd March, 2020 at 10 am in the Biram Bhavan, Ramananda College, Bishnupur, Bankura.*

Prof. Shyamal Santra, Minister of State for Panchayat & Rural Development and Public Health Engineering, Govt. of West Bengal and President of governing body, Ramananda College has given his kind consent to inaugurate the seminar. Prof. Niranjan Behera, School of Life Sciences, Sambalpur University, Orissa, Prof. Prabir Ranjan Sur, Scientist, BSI, Shibpur, Dr. Partha Pratim Chakravorty, Associate professor and Head, P.G. Department of Zoology, Raja N.L. Khan Womens' College, Midnapur will deliver their valuable lecture. Dr. Swapna Ghorai, Principal, Ramananda College will preside over the function.

We also invite everybody for heartiest presence in this programme.

Dr. Swapna Ghorai
Principal
Ramananda College, Bishnupur, Bankura

Dr. Ajit Kumar Datta (Convenor)
Dr. Shyamal Kanti Mallick (Jt. Secretary)
Dr. Subhankari Prasad Chakraborty (Jt. Secretary)
Organising Committee, National Seminar



Biodiversity and its Conservation Seminar - 02.03.2020


Biodiversity and its Conservation Seminar - 02.03.2020

Green Audit

Environmental Audit Report 2019

RAMANANDA COLLEGE, BISHNUPUR BANKURA, W.B.



PREPARED BY

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Environmental Audit Report of Ramananda College, Bishnupur, Bankura has been prepared by Tropical Institute of Earth and Environmental Research (TIEER) based on visit to the college campus, checking records and interactions with faculty, non-teaching staff and students. No intrusive study was conducted during the audit.

The audit was conducted on **5th April, 2019.** The audit report presents green initiatives taken up by the institution, and provides suggestions and recommendations to improve environmental sustainability.

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The Enquiry Team with Principal, Ramananda College

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1. Introduction:

1.1 About the College

The inception of Ramananda College in 1945 was the beginning of providing higher education to the otherwise marginalized youths of this locality. The "Temple Town" Bishnupur, a Sub-Divisional Head Quarter is endowed so far with this only co-educational Degree College, which has been serving for more than 74 years as the Alma Mater of thousands of students coming from rural Bengal.



Green and healthy college premises

The proposal to establish a centre of higher education was initially made by Sri Ramnalini Chakraborty, freedom fighter and social worker of Bishnupur. Initiative was taken by Sri Radhagobinda Roy, founder Principal of this college and Ex-minister, Government of West Bengal and many other eminent personalities of the town and the district. Fund was generated by the contributions of Sri Ramnalani Chakraborty (Rs. 25,000/-), Koley family (Rs. 36,000/-), Sri Anil Kumar Bhattacharya (Rs. 10,000/-), Members of the Friends' Union Club (Rs. 10,000/-) and by the donations of the common people. The college was named after the illustrious son of the district of Bankura, Sri Ramananda Chattopadhyay, noted journalists, editor and scholar.

Ramananda Chattopadhyay was the editor, publisher and owner of the Modern Review, a high grade illustrated monthly magazine published in English and Prabasi, a Bengali organ, published in the vernacular. He was pre-eminently an editor although during his useful life he was associated with many reform movements.

The sapling of the past has become the full-grown tree of the present. It fulfils the academic need of the students and nourishes them with the knowledge of real value. The College was initially affiliated to the University of Calcutta and later on to the University of Burdwan and presently to the Bankura University since 1st January, 2017.

The college, with best academic standard, offers Honours & General courses in Bengali, English, Sanskrit, History, Political Science, Philosophy, Geography, Economics, Education, Music, Physical Education, Computer Science, Mathematics, Physics, Chemistry, Botany, Zoology, Physiology and Nutrition. It has separate morning shift for the Commerce section. Every year some students secure ranks in the University Final Examinations. The rate of success in the University Final Examination is more than 90%. Along with this excellent

academic performance the students are involved in social activities like Extension Programme, Adult Education Programme, organizing Health Camp, Plantation Programme, etc. With equal enthusiasm the students serve the nation by being an integral part of N.S.S. & N.C.C. units of the college.

Initially the College was affiliated to the University of Calcutta and later, to the University of Burdwan and now under the affiliation of the Bankura University since 1st January, 2017. The College is recognized by the UGC under Sections 2f and 12B. As the college was established before Independence, it predates both the creations of the UGC and the University of Burdwan. In 2015, the National Assessment and Accreditation Council (NAAC) re-accredited (2nd cycle) the College with 2.75 score. Further, with the introduction of different Post Graduate Courses in Science and Humanities, the College has become a constituent College of the Bankura University. Now the College is complaint with the visions of RUSA.



Location of the College and Land use map

2. Environmental Audit

The Audit covered the following major areas:

2.1. Water Efficiency and Wastewater Management

2.2. Indoor Air Quality

2.3 Energy Efficiency

2.3. Paper Waste Management

2.5. E-Waste Management

2.6. Canteen and Solid Waste Management

2.7. Green Belt

2.1. Water Efficiency and Wastewater Management:

The water is stored in the four storage tanks (Make – Sintex, one of 6 KL, capacity and three of 2Kl capacity each) located on building terrace. Water from bore well is pumped to storage tank around 3 times daily. Stored water is used for drinking, flushing and cleaning. 12 Aquagaurds are provided for drinking water purpose. Water tanks of Hostels are not included.



Polluted water in Unusable tank

No leaking faucets were seen anywhere in washrooms. If water leakage is observed, in-house plumber is called immediately to attend to the complaints. Water conservation faucets in washrooms were not seen. Installation of such faucets can save water and will help in minimising the water footprint of the institute. No signage emphasising water conservation was found in the institute. Sanitary wastewater generated from washrooms is connected to sewerage system. Chemical wastewater generated in chemical labs in the institute is also connected to sewerage system.



Chemical liquid wastage

Waste water recycle is not practiced in the institute as grey water/ sewage treatment /recycle facility is not provided.

Ramananda College is in Bankura region of W.B, which is a water scarce area. Therefore, proper water management practices along with rooftop rain water harvesting system must be installed for recharging ground water and meeting part of the water requirements.

2.2. Indoor Air Quality

Indoor Air Quality (IAQ) refers to the air quality within and around buildings and structures, as it relates to the health and comfort of building occupants. Some common indoor pollutants are listed as below:

• Molds and other allergens – This may arise from water seeping into the building envelope or skin, plumbing leaks, condensation due to improper ventilation, or from ground moisture penetrating a building part.

• Carbon monoxide – Sources of carbon monoxide are incomplete combustion of fossil fuels.

• Volatile organic compounds – VOCs are emitted by paints and lacquers, paint strippers, pesticides, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions etc.

• Carbon dioxide – Due to human respiration

• Particulate matter – Due to construction and maintenance activities

Major observations under indoor air quality is as below:

a) Ventilation is achieved by fans in the institute and air conditioners in some places.

b) Heating Ventilation and Air Conditioning (HVAC) system is not installed.

c) Smoke detectors are not provided in the institute.

d) Exhaust fans are only provided in washrooms and chemistry lab.

e) No indoor plants were observed in the entire institute. Indoor plants can be plotted not only for the aesthetic appearance but also for health benefits.

2.3. Energy Efficiency

- Good Daylight Design and Ventilation:

a) All the corridors receive good daylight due to the large windows.

b) Corridors are wide with good ceiling height.

c) Classrooms also have high ceiling with wide doors and large windows. Windows are kept open to receive sunlight.

d) Curtains are provided on some of the windows to avoid glare. Due to the location some classrooms do not receive ample natural light and fresh air. Hence these rooms are provided with tube lights even during day time.



Spacious Laboratories



Conversation with students to
Study of environment in laboratories

- **Electricity:**

07 electricity meters are provided for the entire complex. The monthly average electricity consumption is around 7000 KWh (units) approximately. It is necessary to monitor the electricity consumption and we suggest that institute carries out an energy audit to understand the reasons & take corrective action.

The areas of major consumption of electricity are:

LED lights– 100 approximately

Fans – 250 nos. approximately

Air Conditioners – 2nos. (Not energy rated)



Insufficient day light in Classrooms

Computers -150

Fridge 1 in almost every department

Three generators of 20 capacity and one of 15 capacity each are installed in every department, Office, Library and labs as backup in case of power failure.



LPG gas use for chemistry lab.

It was observed that reflectors are not provided for tube lights which can reduce electricity consumption. Computers are always kept on standby mode with power saving screensavers.

There are no signage encouraging users to switch off light and fans to save electricity. Providing signage through screensavers & posters near electrical switches will help in making students responsible for conservation of electricity.

There is no renewable source of energy used e.g. Solar, Wind.

a) LPG gas cylinders are used in laboratories and in the hostel and canteen building for cooking. Other than this, LPG gas is not used anywhere.

b) There is no dedicated gas storage area. Gas cylinders are refilled as and when required.

c) There are no diesel generators used in the premises.

About waste

Waste (or wastes) are useless or unusable materials or components which are discarded after principal use. Sometimes, it is a defective article and of no use. In modern outlook waste may be a valuable substance subject to an appropriate operation or action on the waste. With the context of waste management RRR (reduce, reuse and recycle) model may be followed in appropriate fashion. Keeping the objective of the audit the following study will be limited to the waste generated in an academic campus and surroundings.

Kinds of waste

The following categories of wastes are generated in the college campus:

a) Solid waste

Nearby the physics department old instruments and furniture cause dump. Waste generated through plastic packaging causes nuisance. Some wastes are generated after various experiments, primarily, chemistry laboratory; broken test tube, glassware are the example.

b) Liquid waste

There are bio-chemical wastes generated through various chemical reactions and biological processes. Generally, these are being drained to nearby pond contaminating water and soil. Appropriate means is suggested to adopt scientific liquid waste management practices. These are neutralization, bacterial control, and natural control through plantation.

2.4. Paper Waste Management:

Being academic institution, waste paper is the main solid waste generated in the premises. The institution has taken steps to minimise and avoid paper usage. Faculty and administration staff uses old papers and envelops for internal usages as rough work, file markers, page separators etc. Paper notices are displayed on the notice boards .The dissertation reports, journals, and answer papers are stored as per the University rules. Most of the storage is in computer laboratory, library and staff room. After couple of years, old submissions and answer papers will be archived and stored in a record room at ground floor. Old publications are still stored in the library. As per the memo, for the disposal of old newspaper scrap dealer is called by central purchase department.



Perception study for paper waste management

2.5. E-Waste Management:

The institute has around 150 PCs and 2 air conditioners in working condition. The data on E-waste generation and its disposal is not available. There is no documented policy for collection, segregation of e-waste.

2.6. Solid Waste Management:

It was observed that:

a) Wet waste and dry waste segregation is not practised in the premises. No separate bins are provided for wet biodegradable and dry recyclable waste.

b) Combined waste is directly handed over to the Municipality

c) Hostel is the main area where biodegradable and non-biodegradable waste is generated. In the back of the girls hostel the sanitary napkins are mostly observed scattered here and there.



Crisis of solid wastage management

e) In other areas like classrooms, it is mostly paper waste and plastic wrappers

Impact of waste on health and environment

Throwing the old furniture here and there is strongly discouraged because it causes the home for spiders, rats, snakes and mosquitoes. Plastics can choke drainage system by causing flood. If get mixed with soil, plastics hinder the growth of root of plants. Generally, bio-chemical wastes are being drained to nearby pond contaminating water and soil.



Inorganic and plastic wastage scattered here and there

2.6.1. Waste management

a) Solid waste

The suggestion is that old instruments may be preserved in a central museum (may be developed if does not exist). The same may be used for demonstration to the new and passionate students and to school children for their project purpose.

Old furniture may be reassembled to make stools, desks, chairs, tables, racks and book shelves with appropriate renovation. Moreover, since cutting of threes is not suggested, whatever timber we have from the ancestors must be preserved and utilize properly.

For plastic three dimensional package-of-practices is suggested. First of all, awareness on plastics material (and its life cycle), its uses and disposal will be there regularly among students. In the second stage, practice of keeping plastics wrapping, packaging, and other plastic-made things in the appropriate bin should be there. For this purpose sufficient numbers of bins will be placed in appropriate locations like students' common room, canteen etc. A mechanism will be there for regular collection by dedicated manpower. At the end, the plastics will recycled by grinding/ chopping instrument and final material is to be dispatched to market. The institution has accepted the suggestion of use of such innovative recycling machine and suggested to design the machine.

Wastes generated from chemical experiments are to be disposed safely maintaining chemical hazard disposal protocol.

b) Liquid waste

Appropriate means is suggested to adopt scientific liquid waste management practices. These are neutralization, bacterial control, and natural control through plantation.

2.6.2 Waste prevention

Since waste demands a cost for recycling, it is better to design such product which takes less recycling cost. So, at the design phase the proper need assessment is to be undertaken to reduce the target cost for disposal.

Major audit issues in management of waste:

The following are being emphasized during audit of waste management:

a) Name of the waste

b) Category of waste

c) Quantity of waste

d) Hazardous effect of the waste

e) Institutional action and mechanism for waste management

Compliance audit of waste issues:

At the present stage the institute is capable in managing their waste. They are complying with the essential requirements of waste management although suggestions are given for future improvements.

6.3 Performance audit of waste issues:

No critical audit issue is there with respect to the waste management.

2.7. Green belt/ Landscaping:



Indigenous plants

The Institute has a sprawling campus of 37,635.82 Sq.m

a). Plantation is needed in the compound in the periphery of the campus. This plantation will also help keep down severe heat and cold. The trees should be planted in such a way that it should not completely obstruct the view of the building from outside and sunlight to room.



Medicinal plants garden

b). Indoor plants can be potted along the corridors and entrance of the building. For enhancing the scenic beauty it is suggested to plant flowering trees, which bloom in different seasons, in front of the large trees along the periphery.

d).Vertical Gardening can be done on the compound wall of the institute.



Famous 'Lalbandh' water bodies



Rain water harvesting area around the college campus



Playground without any Greenary

Table. 1. Summary of Quantitative Environmental Impact Evaluation

Factors	Weightage
Water Efficiency and Wastewater Management	M
Indoor Air Quality	L
Energy Efficiency	M
Paper Waste Management	A
E-Waste Management	A
Green Belt	A

Key: Significant Impact – requires assessment and establishment of measures

Impacts of low or non-existent significance (rated as A = High, M = Moderate, L = Low)

2.8. For Improving Energy Consumption:

a) Every classroom and lab with central switch board should have a diagram linking place of tube light, fan etc. with corresponding switch. This will ensure that correct fitting is switched on/ off and can save time & unnecessary operation.

b) Installation of automatic lights with sensors can be considered.

c) Standard Operation Procedures (SOPs) should be prepared and followed for green purchasing wherein equipment's with star rating; those using eco-friendly materials; those with safe disposal policy or return to supplier after defunctioning, can be considered.



Local biodiversity patch

d) For purchasing new electronic appliances, star rating provided by Bureau of Energy Efficiency (BEE) should be considered. The equipment which has maximum star ratings could be purchased, which will consume less energy, ensure environmental sustainability and also operate at low cost.

e) Usage of light reflectors is recommended as the reflectors can spread light to relatively large areas.

f) Notices/ signage can be put up/ displayed near switches and on notice boards, informing students and staff to switch off all electricals when not in use

g) Use of renewable energy should be considered.

2.9. Water Conservation:

a) Encourage efficient water use and reporting by installing water meters at key locations. Provide information on water usage and savings to students/ staff through notices, screen savers in computer labs.

b) Minimize/ reduce water usage by installing water saving faucets such as tap pressmatic taps, tap aerators, jet sprays etc.

c) Dual flushing system can be installed for toilet flushing which saves considerable amount of water.

d) Grey water/ sewage recycling system can be installed for flushing toilets. This will reduce the fresh water footprint.

e) Installation of waterless urinals can be considered to reduce water consumption.

f) Water balance diagram can be prepared to quantify the water consumption by installing water meters at key points. Based on data gathered, appropriate measures can be taken to reduce the water consumption. Encourage efficient water use.



Proposed water recharge site

2.10. Paper and other Solid Waste Reduction:

a) There should be waste segregation practices at source by providing separate bins.

b) Enhance recycling. This can be done by creating a group where students can recycle books, personal clothes and other material to needy students. This can be an initiative under green program.

c) Training as well as awareness programs should be organized on segregation of biodegradable waste and recycling of waste. Efforts should be taken to inform students about recycling options and signs should be posted on appropriate bins indicating what could be dumped in each bin. Biodegradable waste from canteen can be used for composting.

d) Plastic bottles to be handed over to PET recyclers.

e) The college can introduce online medium/ app, which can be useful for conducting internal exams, assignment/ reports submission. This system can also be used for displaying important notices, timetables.



Minimum wastage management methods

f) Paper usage shall be monitored to understand the impact of digitisation in the facility.

2.11. Others

a) Environmental advisory committee could be formed. The discussions and information sharing among different departments can generate lot of ideas and awareness on green issues.



Little water bodies and flora & fauna

b) Maintain minutes of meetings of environmental committees; evaluate the effectiveness of various environmental programs conducted by the institutes. Set annual targets for Green Initiatives & monitor them closely. Create 'Green Champions'.

c) Since each student uses computer lab, the screen savers can be set up for creating environmental awareness. (Ergonomics, water conservation etc). Wallpapers informing students about environment conservation can be created.

d) Adopt environmentally responsible purchasing policy, and work towards creating and implementing a strategy to reduce environmental impact of its purchasing decision.

e) Small composting facility can be provided for canteen to treat the biodegradable waste. Compost generated can be utilised for plants near compound wall.

f) Vertical gardening can be done using indoor plants. Hydroponic garden can be an option where in small space also plants can be planted. Drip irrigation system can be provided for plants.

g) Indoor air quality can be monitored to ensure safe and healthy environment.



Sign of healthy environment

3. Suggestions and Proposal and policy on environment management planning for sustain green and healthy college campus

1. The proper conservation and management of heritage Lalbandh Water bodies should be properly done to protect the ecosystem.
2. An eco- green hub for teachers, students and staffs to sustain healthy environment, and to promote environmental awareness can be setup at premises.
3. A solar power grid can be established for implementation of non conventional energy and eco-friendly campus.
4. A ground water recharge station can be established to balance the GWL for water conservation as it is a drought prone area.
5. A green generator can be established for healthy environment.
6. A weather monitoring station can be set up at the college campus for weather forecasting to aware students and local villagers about natural hazard and for collection of weather and atmospheric data for weather forecasting and Disaster management.
7. Micro water harvesting methods could be applied around the catchment area of low land for Water Park at the north- eastern part of college campus.
8. Grass cover and trees walls can be grown at the play ground.
9. To apply the eco-sustainable organic Kitchen garden for the production of fruits, vegetables, flowers and medicinal plants by organic and biotic methods.
10. A Vermi composed pit can be set up to produce the organic fertilizer.
11. To be established the separate bin for chemical liquid waste, solid waste & e-waste.
12. To be maintained and reformed the water bodies (bandh) and ponds for aquaculture and fish farm.
13. Environment departments and offices can be established for perception of healthy environment.
14. Rules and regulations for the pollution free travel and transport system can be created.
15. To arrange the workshops for promoting tourism and skill development. The seminar, symposium, awareness programme can be organized to create awareness and concern about the bio-diversity and environmental conservation and need for management among students and local communities.

16. Can be a planning design for paradise green and healthy environment in college premises and a model for environmental awareness and beautification.

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Environmental enquiry team with principal and staff



'Silent Drive to Environment Management'

Plantation



Plantation by NSS and students
30.09.2019



Sample of Curriculum into Professional Ethics, Gender, Human Values, Environment and Sustainability

SEMESTER II
COURSE CODE: 206EF
COURSE TITLE: VALUE EDUCATION AND HUMAN RIGHTS
MARKS: 50 (ESE - 50)

CREDIT: 1 (Credit earned for these courses, shall not be considered while preparing the final result. However, the candidates are required to obtain Satisfactory or Not Satisfactory to become eligible for the final semester examination / award of the P.G. Degree. **)**

UNIT I: Concept and nature of Value Education. Need and importance of Value Education in contemporary social context. Concept of human value with special reference to Indian tradition and culture. Different types and components of value education.

UNIT II: Moral education vis-à-vis religious education.Moral judgment and moral action. Concept of moral development of child. Approaches of moral development: Social theory approach and cognitive development approach.

UNIT III: Human Rights – Universal Declaration of Human Rights Human Rights violations – National Integration – Peace and non-violence Dr. A P J Kalam's ten points for enlightened citizenship Social Values and Welfare of the citizen The role of media in value building.

UNIT IV: Environment and Ecological balance, Constitutional or national values - Democracy, socialism, secularism, equality, justice, liberty,freedom and fraternity and different social values

Suggested Readings

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https://www.bankurauniv.ac.in/Upload/Files/206EF_15220.pdf

NSS Classes


NSS Regular Class



Parade Practice by NSS