



INSTITUTIONAL BEST PRACTICE

PRAMATHESH BARUA COLLEGE

GAURIPUR, DIST: DHUBRI, ASSAM

Best Practice 1:

1. Title of the Practice: Clean and Green Campus

2. Objectives of the Practice:

The objectives of the best practice is as follows:

- a) To increase awareness amongst students about the importance of eco friendly practices and sustainable development.
- b) To enrich biodiversity of the campus by introducing various flora through plantation drives at regular intervals.
- c) To inculcate in students the practice of maintaining cleanliness as well as learn to reduce, reuse and recycle plastic.
- d) To make the campus plastic free and practice solid waste management.
- e) To encourage the use of alternative sources of energy and practice other eco friendly measures.

3. Context:

In the backdrop of climate change, it is the need of the hour to institutionalize mechanisms to counter the problem of pollution and the hazards of waste accumulation. Environment crisis leads to health hazards. Large scale deforestation is further contributing to the ill effect of rising temperatures and change in climate patterns. Frequent cloud bursts, delayed or untimely monsoons are already creating havoc for agriculture. Air and water pollution is affecting quality of lives of people. In such a situation, it is important to inculcate amongst students who are the future citizens of the country healthy practices of reduced energy consumption, sustainable development and using alternative sources of energy.

4. The Practice:

The college has an active Eco Club which undertakes various programs to ensure that the policy of clean and green campus is implemented properly. The following steps have been taken to ensure that the policy of clean and green campus is successfully implemented:



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- a) Awareness campaigns are held regularly on the importance of cleanliness and the use of green alternatives for energy consumption.
- b) The college campus has been declared as 'Tobacco free zone' and 'Plastic Free Zone.
- c) Workshops are organized on recycling of plastic waste.
- d) The college has put in place a vermicomposting plant for biodegradable waste management.
- e) The college also practices solid waste management.
- f) Adequate numbers of dustbins have been installed in campus to discourage littering.
- g) To practice smart consumption of power, the college uses LED bulbs and solar lights.
- h) The college authority regularly issues notices to make students aware of the various initiatives taken for green campus.
- i) In addition to regular cleaning of campus, special cleanliness drives are organized and volunteers from NSS, NCC regularly takes part in these programs.
- j) Nature conservationists and activists are invited to spread awareness amongst students.
- k) Environmental study tours are organized regularly as part of EVS curriculum. Students are taken to nearby places and taught to engage with the environmental concerns of those places and suggest reforms in the form of written projects.
- l) Important days like World Environment Day, Water Conservation Day etc are organized to spread further awareness amongst students about environmental issues.

5. Evidence of Success:

The best practice has led to the following tangible successes:

- a) Awareness amongst students regarding sustainable environment has increased to an extent.
- b) Use of tobacco and substance abuse amongst students have gone down.
- c) Campuses are cleaner in comparison and littering has come down.
- d) Use of led bulbs and solar light has led to reduction in power consumption.
- e) Ban on plastic use in campus have encouraged students to cut down the use of single use plastic.

The initiative of clean and green campus has inculcated in students an urge to be a part of the movement for a greener future. Cleanliness drives see a huge participation of



students. Discussion around environment and climate change sees interesting inputs from students pointing to a rise in awareness level.

6. Problems Encountered and Resources Required:

- a) The biggest problem encountered is a financial constraint on further exploring the possibility of shifting to the use of alternative sources of power. The college will need financial resources to install proper solar panels to further reduce dependence on non renewable energy.
- b) Another problem is that there is no employee to regularly monitor the gardens and ensure maintenance of plants planted during various plantation drives. A person appointed for the same by the government will solve this problem.
- c) Lack of local expertise on environment issues also create hurdles in innovational uses of alternative modes of energy. If the government can organize workshops with experts working in the field of sustainable development, the college can benefit.

Best Practice 2:

1. Title of the Practice: ICT Based Blended classes.

2. Objectives of the Practice:

The objectives of the Practice is as follows:

- a) To introduce students to ICT based education.
- b) To deliver quality education using ICT tools in a seamless manner.
- c) To teach and enable students the use of digital resources to enhance their learning.
- d) To make resources more accessible to students.
- e) To blend technology based education along with traditional method of classroom teaching.
- f) To provide resources to students in the form of pdf and video lectures so that student can revisit and relearn a topic at their convenience and at home.

3. Context:

With use of technology in every sphere, education also became technology based. The importance of use of ICT tools became more relevant during the Covid 19 pandemic which



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saw the dependence of students on internet to carry on their education. This was the context at the backdrop of which the college decided to opt for a blended mode of teaching which included ICT based classes with power point presentations, online classes, video lectures, dissemination of notes to students etc.

4. Practice:

- a) The college has a wifi enabled campus providing high speed internet to the students and the teachers.
- b) Almost 50% of the classroom have LCD projection facility.
- c) The college has three smart classrooms to help the teachers deliver interactive lectures with the use of power point presentations, e modules and other learning tools.
- d) The college has well equipped computer laboratories for the students of B.A and B. Com Courses.
- e) Every department disseminate notes and information to students through active Whatsapp groups.
- f) The students are encouraged to make power point presentations to learn the use of ICT tools.
- g) Students are given subscription to N List so that they can access digital resources.
- h) Through awareness programs organized by the college library, students are made aware of the available open access resources.
- i) Students are encouraged to use National Digital Library and also enroll in courses on the Swayam Platform.

5. Evidence of Success:

The best practice had the following successes:

- a) Digital resources became more accessible to the students.
- b) Students started using more innovative ways while preparing for classroom presentations and projects.
- c) Teaching became more seamless as teachers can make up for classes missed due to other engagements.
- d) Classes have become more interesting and interactive.
- e) Use of ICT tools by students in presentations make them more confident.



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- f) Use of online test method has made evaluation of students easy and regular.
- g) ICT based teaching has become an important supplement of traditional method of teaching.

6. Problems Encountered and Resources Required:

- a) Inadequate infrastructure for ICT based classes. More well equipped smart classes can ensure that more number of ICT based classes are taken simultaneously.
- b) Training facilities for the faculty members can help them use updated methods for imparting quality teaching using ICT tools.
- c) More computers for the college computer laboratory can ensure that a larger number of students get hands on training on use of ICT tools in education. Financial support for these from the government will help enhance the impact of this best practice manifold.

1. Year 2018-19

a) *Seminar on Beating Plastic Pollution*

On the occasion of World Environment Day on 5th June, 2018, a Seminar was held in the College on the theme “Reducing Plastic Use and Protection of Environment”. The theme of the year was Beat Plastic Pollution. Teachers and students deliberated on the dangers of plastic pollution and talked about the possibility of reducing plastic pollution through recycling.





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b) *Cleanliness Drive*

A cleanliness drive was undertaken by the students and teachers of the college in which NSS volunteers and NCC cadets cleaned the college premise and the classrooms on 10th August, 2018.



c) *Talk on Heritage Management*

An interactive talk on the natural and cultural heritage management of Western Assam was held on 1.10.2018 in the college by the Department of English in collaboration with the Nilima Barua Folk Art Museum, Gauripur. The speaker Dr. Sangeeta Dutta is an archivist at the American Institute of Indian Studies in Gurgaon. She spoke on the role that natural and cultural heritage plays in shaping the identity of a place and the need to conserve these resources. Students attended the program and participated in the interactive session that followed the talk.





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d) *Environmental Tour*

An environmental tour of Commerce students were organized on 4th November, 2018 and students were taken to the Sareswar Beel which is a prominent Wetland of Dhubri District. The students learned about the importance of Wetlands and the presence of Migratory birds and the role that such wetlands play in the biodiversity of the area.



e) *Environmental Educational Tour*

An environmental tour was organized by Eco Club and students were taken to Matiabag Hills on 17th March, 2019. Students were directed to look at the biodiversity of the area and write a project on the same.





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2. 2019-20

a) *Cleanliness Drive*

On the occasion of Gandhi Jayanti on 02-10-2019, the IQAC and Eco Club organized a discussion on the contribution of Mahatma Gandhi in shaping the nation. The Principal in Charge Hanif Talukdar inaugurated the discussion which was followed by a cleanliness drive by the NCC cadets and NSS volunteers.



b) *Awareness Program on Energy Conservation*

Keeping in line with the college's policy of efficient use of environment, an awareness programme was held on how to save energy on 26th Feb, 2020. The Eco Club in collaboration with the Petroleum Conservation and Research Association under the Ministry of Petroleum and Natural Gas organized a talk on how we can save energy in our daily lives. The invited speaker spoke on various ways in which we can reduce energy consumption in our daily lives and rely more on renewable resources as opposed to limited non renewable resources.





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c) *Plantation Drive*

On the occasion of World Environment Day, the Eco Club of P B College collaborated with 48th Battalion of CRPF and organized a plantation drive. This was another milestone in the college's journey towards a greener campus. Despite the limitations of a Covid induced lockdown, the day was organized.



4. 2021-22

a) *Cleanliness Drive and Fit India*

Keeping in line with the motto that a healthy mind resides in a healthy body, the Eco Club along with the NCC unit of P B College organized a Fit India Freedom Run and a Cleanliness Drive on 14th August, 2021. Students along with faculty members participated in the programme whole heartedly.





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b) *One District One Green Champion*

The college participated in One District One Green Champion Programme held on 26th August, 2021 in which green initiatives by the College was appreciated by the District administration.

c) *Plogging and Peace Rally*

As part of the celebration of AzadikaAmritMahotsav, the NSS and Eco Club of P B College organized a Plogging and Peace Rally in which volunteers from the college cleaned the college vicinity and also spread the message of peace and harmony.



d) *Wall magazine on Environment*

Keeping in line with the celebration of World Environment Day, the Department of Political Science and Expressions: The Literary Society of P B College inaugurated a wall magazine on the theme of conservation and saving energy.





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e) *Plantation Drive*

On the occasion of World Environment Day on 5th June, 2022 a plantation drive was carried out in the college campus. Free saplings were also distributed by the convenor of Eco Club.



f) *Plantation Drive*

A plantation drive was carried out in the college premise on 22nd July, 2022 to ensure a green campus and also encourage students to take part in the initiatives. Students were made aware about the impact of planting trees and the need to counter large scale deforestation at an individual level.





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5. 2022-23

a) *Environmental Tour*

The students were taken for an environmental tour to the Snanghat near Bagribari on 4th September, 2022. The students were guided by the teachers in recording the biodiversity of the place that they visited and recording the varied flora and fauna of the area. They were later told to submit a project on the basis of the field visit. These field visits are very crucial in instilling in students a sensitivity towards environment and inculcate an urge in them to conserve it.



b) *Plantation Drive and Cycle Rally*

On the occasion of World Environment Day on 5th June, 2023, the Eco Club organized a plantation drive and a bicycle rally.





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b) Cleanliness Drive

The Eco Club and the NCC and NSS Unit of the College also organized a cleanliness drive amongst students and the college premise was cleaned.



2. Best Practice 2: ICT based blended mode of teaching

The college provides support to the students through ICT based classroom teaching. ICT based teaching is a part and parcel of P B College's teaching. The Covid 19 Period Lockdown compelled the educational society to shift to online teaching. The college also imparted online classes to ensure that the students' education was not hampered.

Even after the lockdown, the college made online classes a part and parcel of regular classes to provide a blended mode of teaching. It was also aimed to familiarize students with the upgraded use of ICT in teaching and open newer avenues for the students.

During Lockdown Period, the college formed an Online Class Management Committee which was entrusted with the task of preparing a Routine for online classes. Teachers took classes at allotted time and regularly updated the Committee about the classes taken.

Online Class Routine
DEPARTMENT OF ECONOMICS, P B COLLEGE, GAURIPUR, HS & BA1st, 3rd and 5th Semester, 2020

Days	8.00 Live	8.30 Live	9.00 Live	9.30 Live	10.00 Live	10.30 Live	11.00 Asynchronous	11.30 Asynchronous	12.00 Asynchronous	12.30 Asynchronous
MON			HSI-Iq IH K 3H H	HSII-Iq	5M H	1 DSE K 3 SEC I	3 DSE IC Iq			5M K
TUE			IH Iq 3H K	1 GEK	5M H	3 GE Iq	3 DSE IIC K			5M Iq
WED			IH H 3H Iq 5MK		5M Iq		3 DSE IC K			5M K
THU			IH Iq 3H K 5M H		5M H		3 DSE IC K			5M Iq
FRI		HSII-K	IH H 3H Iq 5M K		HSI-K 5M Iq		3 DSE IIC H			5M Iq
SAT			IH K 3H H 5M Iq		5M K		3 DSE IIC Iq			5M Iq

Indications:
H- A. H. Talukder
K- D. C. Karmakar
IQ- H. M. Iqbal

sd/- D. C. Karmakar
Head i/c
Department of Economics

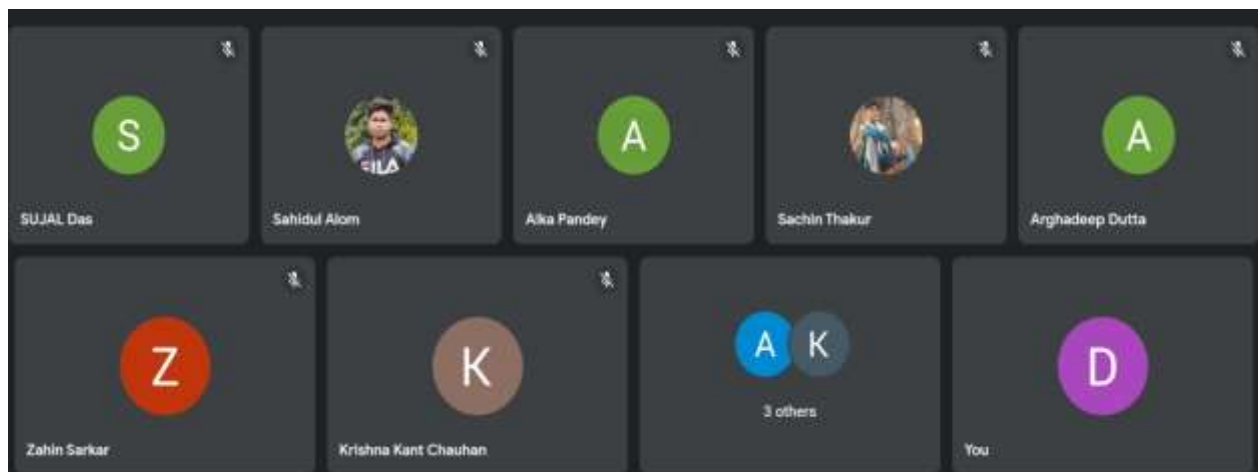
Departments prepared separate routines for their classes like this.



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The attendance of students was maintained by different departments either in the form of screen shots or in excel forms.



Different departments regularly submitted the report of classes taken to the Committee.

A handwritten report titled "Department of Mathematics, Pramathesh Barua College, Gauripur, Assam". It contains a table with the following data:

Sl. No.	Name of the Teacher	Name of the Class	No. of Students	No. of Classes Taken	Percentage of Completion
1.	S. K. Das	Mathematics	25	25	100%
2.	S. K. Das	Mathematics	25	25	100%
3.	S. K. Das	Mathematics	25	25	100%
4.	S. K. Das	Mathematics	25	25	100%

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The teachers also submitted course completion reports to ensure that the courses are completed on stipulated time.

Department of economics

Pramathesh Barua College, Gauripur

Session: 2019-20 Class: 2nd, 4th and 6th Semester, 2020

Report of Course Completion:

Till today we could complete the course as shown in the table below:

Sl. No.	Subject	Classes (Semester-wise) UG/PG	Mode of teaching for online classes	Nos. of students Covered	Course Completion in percentage
1	Economics	BA 2 nd Semester (Major)	Whatsapp, Mail, Google Classroom, Google drive	05	30
2	Economics	BA 2 nd Semester (Regular & Generic)	Whatsapp	08	25
3	Economics	BA 4 th Semester (Major)	Whatsapp, Mail, Tele Conferencing, Google Classroom, Hangouts, Google drive	15	45
4	Economics	BA 4 th Semester (General)	Whatsapp	19	25
5	Economics	B.Com 4 th Semester	Whatsapp	52	35
6	Economics	BA 6 th Semester (Major)	Whatsapp, Mail, Tele Conferencing, Google Classroom, Hangouts, Google drive	14	60
6	Economics	BA 6 th Semester (General)	Whatsapp	09	25

It is noted that we could not cover whole of the students under study during lockdown period as most of our students are residing in remote villages. Students residing there could connect hardly because of negligible or no net work service. Most of them are hailing from poor background and as a result of which they do not have Android Mobile Phones and some of them do not know how to operate them conveniently. Consequently they could not be covered under distance mode of teaching.



Assignments were given to students online to evaluate their progress and ensure continuous evaluation.

Home assignment-2020
BA 2nd semester
Sub: Economics (HONS)
ECO-HC-2026: Mathematical Methods for Economics-II
Marks: 20

1. Answer the following questions: 2x5=10

- When two matrices are said to be defined for addition?
- If dimensions of two matrices are not equal, then can we subtract the matrices? Yes or No? If not, why?
- What is linearly homogeneous function?
- Define homothetic function.
- Define the concept of Determinant.

2. Answer the following questions: 2x5=10

- Explain the properties of Determinant with examples.
-

Given

$$A = \begin{pmatrix} 3 & 1 \\ 2 & 3 \\ 1 & 0 \end{pmatrix}_{3 \times 2}$$

Show that $AI=IA=A$



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After the lockdown period, the college continued its effort to strive towards ensuring that blended mode of teaching is continued.

1. Webinar on use of online resources



Online webinar on 02.06.2020

A webinar on the 'use of online resources' organized by P.B.College Central Library and IQAC (Internal Quality Assurance Cell) of the college on June 2, 2020. The webinar aimed to educate participants on effectively utilizing online resources for academic and research purposes. It covered various aspects including:

1. Accessing Online Databases: Guidance on navigating through the college's subscribed databases and electronic journals.
2. Search Techniques: Tips and strategies for efficient searching within databases and on the internet.
3. Evaluation of Sources: Importance of critically evaluating online sources for reliability and credibility.
4. Copyright and Plagiarism: Understanding copyright laws and policies related to using online resources, and strategies to avoid plagiarism.
5. Q&A Session: Participants had the opportunity to ask questions and clarify doubts related to accessing and using online resources.

The webinar was well-attended by faculty members, researchers, and students, providing them with valuable insights into leveraging digital resources effectively for their academic endeavours.

2. A hands on training program was organized for the faculty members to further enable them to impart online education to students in a seamless manner.



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A Hands on Training Programme
ON
Online Teaching Learning Tools
Organized by
Online Class Management Committee
and
Internal Quality Assurance Cell, P.B.College, Gauripur
Date: 19/07/2021 Time: 10.00 AM
Venue: Computer Laboratory, P.B.College, Gauripur
Pramathesh Barua College, Gauripur
Dist. Dhubri(Assam)



The college at present has three smart classrooms with facilities of projector along with a digital classroom with facilities of video conferencing. The college has organised a number of activities through online mode for students. Every department maintains specific whatsapp groups to provide students with relevant information regarding classes and upcoming departmental activities. Departments have also made online tests through Google form a part of evaluation of students. A photograph of current facilities in the college to impart education through online mode is shared herewith.


Online Study Material:

Teachers of the college share notes and important questions to students through online mode. Important questions are given to students through Whatsapp groups. Notes are given to students through video lectures and blogs. A few links of blogs and video lectures has been shared below:

1. <https://parvinsultana2023.blogspot.com/2023/06/higher-secondary-second-year-part-b.html>
2. <https://daskdotblog.wordpress.com/page/3/>
3. <https://www.youtube.com/watch?v=88Zxgabm810>
4. <https://www.youtube.com/watch?v=sStPppka7kk>

Infrastructure:

The college has 3 smart classrooms along with rooms enabled with projectors for class. The Digital Classroom and the Conference Room of the college has facilities for Video Conferencing.


Principal
Pramathesh Barua College
Principal
P.B. College, Gauripur