Office of the Principal TIHU COLLEGE, TIHU

No. TC/ F Misey 2029/79 From : Dr. K. K. Talukdar, M.Sc., B Ed, M. Phil, Ph.D. Principal Tihu College, Tihu



P.O.- Tihu Dist.- Nalbari (Assam), PIN. - 781 371 Ø S.T.D. 03624-281238 (O) website : www.tihucollege.org e-mail : tihucollege@rediffmail.com Date...///arf.?a2..b..

UNDERTAKING

This is to certify that the documents submitted herewith related to Metric No.6.5.2(Quality assurance Initiatives of the IQAC in matters of regular meeting of the IQAC, collaborative quality initiatives with other institutions, participation in NIRF and any other Quality audit/accreditation recognized by state and national or international agencies) are true to the best of my knowledge.

1. Action Taken Reports of IQAC Meetings.

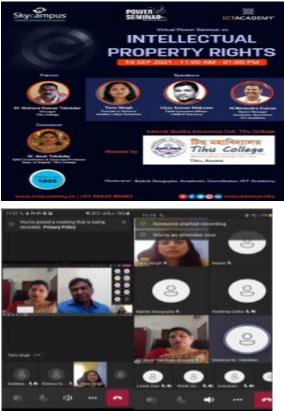
2. Quality initiatives by IQAC during 2017-18 to 2022.

Principal Tihu College, Tihu Principal Tihu College.

- 1. Action taken reports of IQAC meetings web-links are below: <u>http://tihucollege.ac.in/upload/practise/1672386955.pdf</u> <u>http://tihucollege.ac.in/upload/practise/1643883216.pdf</u>
- 2. Quality initiatives by IQAC during 2017-18 to 2022

The IQAC, Tihu College, organizes and facilitates quality throughout the academic year.

Virtual Power Seminar on "Intellectual Property Right" Hosted by IQAC, Tihu College



A Virtual Power Seminar on Intellectual Property Right was organized by IQAC, Tihu College in association with ICT Academy, Guwahati on 10th of Sept, 2021 at 11.00 A.M. Almost 110 nos. of students participated in this programme. Vijay Kumar Makyam , an IPR Professional, Osmania



University International Trademark Association (INTA),Hyderabad, Telangana, India and Tanu Singh, an IPR Facilitator were the two resource persons for the programme.

One Week Workshop on self defence program for women





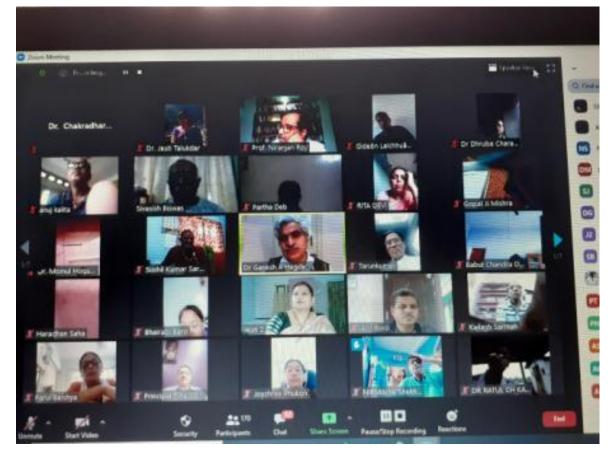
Interactive Session on Open Text Book Examination GU, 2021

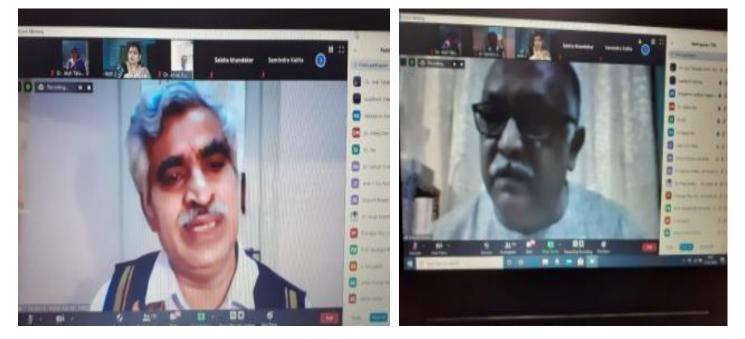


An Interactive Session on Open Text Book Examination GU, 2021 was organised by IQAC, Tihu College, Tihu on 20th of June, 2021 at 07.00 P.M. in association with ICT Academy, Guwahati. Dr. Debahari Talukdar, Deputy Controller of Examinations, Gauhati University was the Resource Person of the programme. Almost 300 nos of participants, mostly students and faculties of our college and B N

College, Dhubri and some students of neighbouring Colleges had participated in thgis interactive session.

Webinar on NAAC





Quality Initiatives by Internal Quality Assurance Cell (IQAC)

The IQAC, Tihu College, organizes and facilitates quality initiatives throughout the academic year. But, due to the Covid-19 induced pandemic some of the quality initiatives planned could not be carried out in the offline mode. To overcome the situation, the IQAC initiated various online academic activities.



One Week Online Gender Sensitisation Programme. Date: From 3rd August to 8th August, 2020 Welcome Address : Dr. Kishore Kr. Talukdar, Principal, Tihu College

Inaugural Speech : Purabi Konwar, Deputy Commissioner, Nalbari. Coordinator : Dr. Jeuti Talukdar, Coordinator, IQAC, Tihu College The programme aimed at providing a critical approach to the social and cultural gender constructs that shapes the behavioural patterns towards men and women in society. The main objective was to raise awareness about gender equality concerns. In this week long programmewe dealt with various

gender related issues, like Gender Concept: Issues and Challenges: Promoting Rights of Women-Global Trends and Influences; Women and Health; Women and Culture; Judicial redressal and awareness on the rights of women and Gender Sensitization and Sexual Harassment at Workplace: Policing and Law Enforcement etc.



Topic : Gender Concept: Issues and Challenges

Resource Person Prof. Polly Vauguline HoD, Department of Women's Studies, Gauhati University



Topic : Promoting Rights of Women-Global Trends and Influences

Resource Person Dr. Aparajita Barvah, Faculty and Research Guide, Past Graduate Department of Law, Gauhati University.



Topic : Women and Health

Resource Person Dr. Marami Das, HaD, Dept. of Nurology, GMCH



Topic : Women and Culture

Resource Person Dr. Mousumi Kandali, Asst. Praffessor, Dept. of Cultural Studies, Tezpur University



Topic : Judicial redressal and awareness on the rights of women.

Resource Person Dr. Nazrana Ahmed, An Advocate



Topic : Gender Sensitization and Sexual Harassment at Workplace: Policing and Law Enforcement

Resource Person Indrani Baruah, Commandant 4* Assam Police Battalian

Webinar on Covid 19 & Mental Health

Webinar on Covid 19 & Mental Health was organised by IQAC, Tihu College, Tihu on 7th January, 2021 at 6.00 P. M. in association with Women's Forum, Tihu College. The Resource Person of the webinar was Dr. Nahid Islam, Consultant Psychiatrist, GNRC Hospital, Guwahati. 101 nos of participants, mostly students and faculties of our college had participated in this webinar.



Observation of International Women's Day



International Women's Day was celebrated on 8th of March, 2021. On this occasion IQAC, Tihu College, Tihu in association with the Women's Forum, Tihu College felicitated three women of greater Tihu area, namely, Mrs. Pratibha Das, Mrs. Bhabani Talukdar and Mrs. Anima Devi for their contributions in three different fields

Ceremonial opening of the newly constructed Digital Conference Hall



A Talk on National Education Policy, 2020 was organised on 10th of March, 2021 on the occasion of the ceremonial opening of the newly constructed Digital Conference Hall of our College by Hon'ble Vice Chancellor, Gauhati University, Prof. Pratap Jyoti Handique. Faculties, non-teaching staff and students of our college had participated in this talk.

Two-Day Online Training programme

A Two-Day Online Training programme was organized by IQAC Tihu College in Association with the Teaching Learning Centre, Tezpur University.

The Program was exclusively for the Faculty Members of Tihu College during 12-13 May, 2021.





One Week Online Career Counselling Programme was Organised by IQAC, Tihu College in Collaboration with IGC-Cell, Tihu College, Tihu Date: From 15th July to 21stJuly, 2021 Welcome Address : Dr. Kishore Kr. Talukdar, Principal, Tihu College Inaugural Speech : Dr. Dr. Bidyut Chandra Deka, Vice chancellor, Assam Agricultural University, Jorhat Coordinator : Dr. Jeuti Talukdar, Coordinator, IQAC, Tihu College

Organising Secretary : Dr. Ratul Chandra Kalita, Coordinator, IGC-Cell, Tihu College



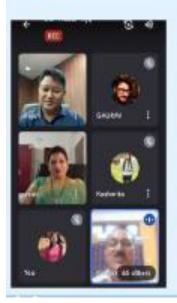
Topic: What it takes to be a Journalist

Resource Person: Kaushik Deka, Deputy Editor, Indian Today Magazine



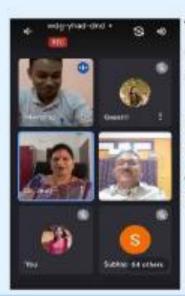
Topic: Government Job: Opportunities, Probabilities in the Context of the Changed Scenario

Resource Person: Diganta Das, District Development Commissioner, Barpeta



Topic: Career in United Nations Organisation, Sports & Sports Management

Resource Person: Rajen Singh, SP, Baksa



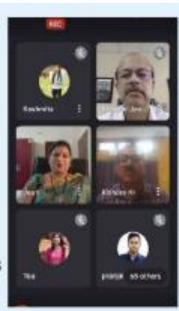
Topic: Civil Service as a Career Option

Resource Person: Monoj Swargiary, ASP Law and Order, Dhanbad.



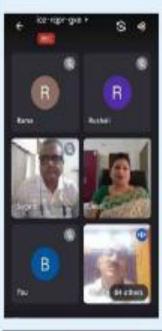
Topic: Career Review in Health Sector

Resource Person: Dr, Bhargab Jyoti Sahariah, Principal, NETES Institute of Pharmaceutical Science, NEMCARE Group of Institutions



Topic: Upcoming Technologies and Businesses: An Overview

Resource Person: Bhaskar Jyoti Phukan, Director (Technical), Numaligarh Refinery



Valedictory Session

Resource Person: Sugato Lahiri, Chairman, Railway Recruitment Board / Guwahati



Valedictory Session

Guest of Honour: Dr. Ramananda Das

Hon'ble President of Governing Body, Tihu College, Tihu





Interactive Session on Open Text Book Examination GU, 2021

An Interactive Session on Open Text Book Examination GU, 2021 was organised by IQAC, Tihu College, Tihu on 20th of June, 2021 at 7.00 P.M. in association with ICT, Academy, Guwahat, Dr. Debahari Talukdar, Deputy Controller of Examinations, Gauhati University was the Resource Person of the programme. Almost 300 nos of participants, mostly students and faculties of our college and B N College, Dhubri and some students of neighboring Colleges had participated in this interactive session



Interactive Session on Open Text Book Examination GU, 2021



An E-Interactive Session with ELT experts on Developing English Language Skills of UG Students, was organised by IQAC, Tihu College, Tihu on 6th July 2021 at 11.30 A.M. Respected Prof. Joytiprakash Tamuli, HoD, Dept. of Linguistics, Guahati University; Respected Prof. Anita Tamuli were the Resource Persons of the programme. Almost 215 nos of participants, mostly faculties and students of HCDG College, Nitaipukhuri, faculties and students of Pragjyotish College, the faculties and students of our college virtually joined us in the Google platform

E-Interactive Session on Assamese as a Means of Communication

An E-Interactive Session on Assamese as a Means of Communication was organized by IQAC in association with Dept. of Assamese, Tihu College on 16th of July. 2021 at 11. 00 A.M. in the Google Platform. Dr. Banani Chakrabarty . Assistant Professor, Dept. of Assamese, Guahati University and Dr. Bibha Bharali, Professor, Dept. of Assamese were the resource persons of the programme. 120 nos. of students actively participated in this interactive programme



The Covid-19 pandemic has affected educational systems worldwide, leading to the total closures of universities and colleges and has given us a space to think, to find out ways and means to help our students living in the remote area of our locality, to enlighten them with new area of knowledge and to empower them to take new challenges in their lives. We also feel that every higher education institutions should have a predetermined notion to educate not only the student community but also to empower the society at large by arranging different awareness programme on some of vital issues of our society. Taking into account on this moral responsibly of our institution, the IQAC of Tihu College since the beginning of the nation-wide lockdown, started various students' welfare programmes, like online essay competition, online creative writing competition, awareness programme on mental health and career counselling programme, gender sensitisation programme etc. and at the same time arranged different web-seminars on different relevant topics in this present scenario involving students, faculties and others from different parts of the country. A brief report has been shorted out on the different programmes organised by IQAC, Tihu College during countrywide lockdown period.



1. A Webinar on "Turning Covid Challenges to Opportunities: Exploring Entrepreneurial Potentials in Native Bioresources." Date: 16th June, 2020 (Tuesday)

Resource Person : Dr. Narayan Ch. Talukdar, Former Director, Institute of Advanced Study in Science and Technology, under DST, Govt. of India.

Total Participants : 247 (Two hundred forty seven) Participants mostly were faculties and students from different colleges and universities across the country joined through Zoom Platform.

2. A Webinar on "Strategic Management of Online Classes in Post-Covid Educational Scenario."

Date: 21st June, 2020 (Sunday)

Resource Person : Dr. Khanidra Pathak, Dean (Infrastructure) & Prof. of Mining, IIT, Kharagpur.

Total Participants: 269 (Two hundred sixty nine) The webinar was organised in view of tackling the challenges in education scenario posed by the unprecedented deadly outbreak of Corona Virus. It was a humble attempt on our part to familiarise the tools and techniques that teachers and students will have to use in online classes. Here again the participants were mostly from faculties and students from different colleges and universities across the country virtually joined through Zoom Platform. Some of the Principals of different colleges of Assam also joined as participants in this Webinar.





1. Web Awareness Programme on Mental Health and Well-Being. Date: 7th July, 2020 (Tuesday)

Welcome Address : Dr. Kishore Kr. Talukdar, Principal, Tihu College Coordinator : Dr. Jeuti Talukdar, Coordinator, IQAC, Tihu College Resource Persons:

i. Dr. Shyamanta Das, MD, Assistant Professor, Dept. of Psychiatry, GMCH

ii. Dr. Simanta Talukdar, MD, Resident Physician, Dept. of Psychiatry, GMCH

iii. Dr. Mythili Hazarika, PhD, Associate Prof. of Clinical Psychology, Dept. of Psychiatry, GMCH

iv. Dr. Bornali Das, PhD, Senior Lecturer of Psychiatric Social Work , Dept. of Psychiatry, GMCH

Total Participants: 175 (One hundred seventy five) The webinar was a humble initiative to strengthen the mental health of our students during the lockdown period. The participants were mostly students

4. National Webinar on "Revised Accreditation Framework and Quality Assurance Paradigm in HEI organised Jointly with Assam University, Diphu Campus.

Date: 11 July, 2020 (Saturday)

Chairperson : Prof. Sivasish Biswas, Pro-Vice Chancellor, Assam University, Diphu Campus

Welcome Address : Dr. Kishore Kr. Talukdar, Principal, Tihu College Coordinator : Dr. Jeuti Talukdar, Coordinator, IQAC, Tihu College Resource Persons:

Speaker-1: Dr. Ganesh Anant Hegde, Adviser, NAAC Bangalore

Speaker-2: Prof. Niranjan Roy, Dept. of Economics, Assam University, Silchar



Total Participants: 254 (Two hundred fifty four) The webinar aimed at discussing and clarifying the revised framewo and pattern of assuring quality standards in Higher Educational Institutions (HEI). The faculties from different High Educational Institutions of the North-East India and beyond participated in the webinar. Prominent among them we some of the Principals of different colleges of North-East India and some faculties of different universities of th country like Assam University, Jawaharlal Nehru University, University of Hyderabad, University of Calcutta, Manipi University, North Eastern Hill University, Gauhati University, Dibrugarh University, Mizoram University, Assam Dow Town University, Cotton University etc.



5. International Webinar on 'Youth and the New Normal: The Way Forward", in association with the Post Graduate Dept. of History, Tihu College.

Date and Time: 12-07-2020 (Sunday)

Resource Persons:

i. Prof. Paromita Das, Visiting Professor in Indian Studies, Faculte des Letters et Science Humaines, Mohammed V University, Rabat, Morocco

ii. Dr. Deepa Deka, Post Graduate Trainee, Dept. of Prosthodontics, Regional Dental College, Guwahati-32

iii. Mr. Raj Kamal Sarma, Senior Business System Analyst, Equinix, Singapore

Total Participants: 293 (Two hundred ninety three) Participants from different Universities of India and Assam State Govt. Departments joined the webinar. A few of them are from –Jawaharlal Nehru University, University of Hyderabad, University of Calcutta, Panjab University, Arunachal University of Studies, North Eastern Hill University, Gauhati University, Dibrugarh University, Bodoland University, Mizoram University, Assam Down Town University, Assam University, Cotton University, Tezpur University, Madhabdev University, Different DIETs etc.

Winers of online Creative Writing compitition Organised by IQAC







Some of the Winners



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TIHU COLLEGE GREEN AUDIT REPORT 2021-2022



ABOUT TIHU COLLEGE

Tihu College is one of the premiere academic institutions of higher education affiliated to Gauhati University located at the heart of the Tihu town of Nalbari District, Assam. The college was established on 4th July, 1963 and started functioning from the Tihu Gandhi Bhawan. Later, the college was shifted to the present site (26°28′40″ N to 26°28′45″ N and 91°16′00″ E to 91°16′05″ E) on 15th of August, 1966.

After coming under the fold of Deficit Grants-in-Aid system of Govt. of Assam in 1969, the College has been showing the marks of progress in all respects to the satisfaction of the students and guardians along with the elite education-enthusiasts of greater Tihu, Namati, Baksa, Khetri and Dharmapur areas of Nalbari, Baksa and Barpeta districts of Assam in last five decades. The serene beauty and ecofriendly campus of the College with calm green surroundings is conducive to the pursuit of academic activities.



Plate 1 : The Tihu College Campus

With the full-fledged streams of Arts and Science and Major course in all the teaching departments, Tihu College continues to add new feathers in its cap so far as its academic excellence is concerned. The College was therefore accredited for the second time with B+ Grade by the NAAC during the academic session 2016-17.

A total of 2526 students enrolled in the UG courses (including HS programme) at Tihu College in the session 2020-2021 agaist the 48 faculty members including one librarian. There are 21 supporting staffs at present in the college. The Principal is the chief executive of the College and the Vice Principal who has been nominated from the teachers is assisting him in acadmic activites.

GREEN AUDIT AT TIHU COLLEGE

Participating in the "Green Campus, Clean Campus" mission launched by the University Grants Commission for all higher educational institution of India and in compliance with the . 'Environmental Consciousness' a mandatory criterion (Criterion VII) of National Assessment and Accreditation Council (NAAC), the sustainability and sustainable development policies are kept on the agenda of Tihu College. Green Audit is one of the step which has therefore been taken up by the College in order to record, document, analyse and report of the environmental constituents of the college through an impartial and inclusive method. It is anticipated that Green Auditing has helped the institute in preserving the rich floral and faunal diversity in and around the campus; garnering interest and creating awareness among the stakeholders.

Tihu College is committed to responsible stewardship of resources and to demonstrate leadership in sustainable academic practices for a better tomorrow with the policy goals of Green audit as follows.

- Identification and documentation of the ecofriendly practices for a sustainable college campus
- Increasing awareness amongs the all stakeholders for sustainable use of available resources.
- Collection of baseline data on different components of environment before pose threat to the college and the society.

To achieve the aforementioned goals, the present audit endeavours towards the following objectives:

- To identify current and emerging environmental issues.
- To monitor environmental management practices.
- To create awareness among the various stakeholders of the College.
- To prepare a status report on environmental compliances

TIHU COLLEGE GREEN AUDIT REPORT 2021-2022

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AUDIT STAGE

Green auditing is the process of identifying and determining whether the College maintaines eco-friendly and sustainable practices. As an effective ecological tool, it helps to create a culture of sustainability as a administrative policy throughout an organization and it needs to be implemented through regular identification, quantification, documenting, reporting and monitoring of environmentally important components.

Green auditing in Tihu College began with the formation of the Green Audit team incorporating faculty members and researcher of Gauhati University and Tihu College. The audit team visited the campus on regular basis and monitored different facilities from the audit perspectives and, simultaneously made the assessment of the status of the green cover of the Institution followed by waste management practices and energy conservation strategies, etc. Data collection was done by onsite visit through structured questionnaires in different sectors such as water, energy, waste, biodiversity status. The data were collated accordingly and analyzed to prepare this Green Audit report of Tihu College. The Audit team was led by Prof. Partha Pratim Baruah, Department of Botany, Gauhati University and Chairperson, Gauhati University Green Audit Committee (2019-2022).

METHODOLOGY ADOPTED

- The methodology adopted to conduct the Green Audit of Tihu College had the following components
- On site field visits by the Green Audit Team at and when necessary.
- Data collection were done through distribution of structured questionnaires amongst different stakeholders and interviews with the executives, official staffs and general students.
- The water quality analysis was done at the Plant Ecology Laboratory of Gauhati University.
- GIS tools were used to prepare the map of the campus for LULC survey
- Different standard taxonomic and ecological protocols were followed to document and estimate the floral and faunal account for biodiversity audit.

TIHU COLLEGE GREEN AUDIT REPORT 2021-2022

ACADEMIC AUDIT OF TIHU COLLEGE 2022

The Academic Audit of the **Tihu College** was conducted on 19th July, 2022 by the team constituted by Honourable Vice Chancellor, Gauhati University with the following members:

Prof. Partha Pratim Baruah, Gauhati University Prof. Sudeshna Bhattacharyya, Gauhati University Prof. Dhrubajyoti Saharia, Gauhati University

Audit Outcome:

Percentage acquired	: 73.3%
Grade accorded	: B

Overall observations and Recommendations

During the visit of the Academic Team, the Principal, Vice Principal and the Coordinator of IQAC apprised the team on various academic aspects of the College and facilitate the team to visit all departments, centres and facilities. The members had department wise detailed interactions on points necessary for a healthy teaching-learning environment. The Committee's focal points for these interactions were guided by the matrices that will be assessed by NAAC, which the College authority is contemplating to invite shortly. Overall, the Committee is happy to see the positive developments in the College even in the pandemic situation and consequent countrywide lockdown.

Though the science stream was recent in the college, organisational set up in each Department along with the laboratories are good. All Departments under the Arts faculty were also nicely organized and functional. Out of a total of 42 faculty members, 19 are with Ph. D. degree, and this is about 45.24% out of the permanent faculties.

It is noted with concern that a few Departments are running with very limited faculty members against the sanctioned post which need to be strengthened considering the students' enrolment in recent years. Chemistry, Political Science and Sanskrit, though are important subjects, have been suffering for lesser number of teachers. It is hoped that the appointments in these Departments shall be made as soon as possible.

The College has the provision of recording data on the Class register, student's progression and alumni in each department which the committee feels a good academic practice. The Records submitted by almost all the departments for the verification of the Committee and the same are duly noted. The record-keeping in the departments are seen to be systematic.

The Committee has noticed that a few faculty members have publications in high impact factor journals and UGC CARE listed journals, which is a good sign. However, the majority of the members' publications are not in high-quality journals or books. The committee advises not to waste time and energy for the sake of numbers of publication, instead the faculty members should try for better publication in standard journals. Though potentiality exists, research enthusiasm seems to be missing; hence, the Committee recommends submitting research proposals by the faculty members to various funding institutions.

The College conducted a good number of initiatives on faculty development in teaching-learning in the last few years and the teachers are benefited by taking part in such programmes.

The Committee is happy to note that in some departments the pass percentage is more than 80% in major subjects. A good number of students could secure first class in University examinations from the college, which is laudable. The committee is worried about the fact that the overall pass percentage in general courses is not satisfactory.

It is very satisfying to notice that almost 70 percentage of the faculty members are trained with application of ICT tools, specifically in the use of the internet in teaching-learning. A few faculty members are actively engaged in the preparation of e-contents. These contents are disseminated among the students, which are very helpful for the students. The Committee wishes to upgrade those teaching materials regularly and put in use for the benefit of learners. The college authority may take initiatives to institute a biennial teacher award to encourage the teachers.

The College campus is having sound internet connectivity with a dedicated leased line which helps the students and teachers interacting and collating study materials. It is a worthy step taken by the College authority. The college has three well-equipped Computer labs with dedicated browsing centres for teachers and students. The college is trying to generate some resources by offering a few self-financing courses. The B Voc. section is helping in generating much-needed skills in the areas of Computer Application and Food Sciences.

The College Library has been provided with all modern settings. There are 41167 books, 37 periodicals and a remote access facility. The library is yet to be fully automated; the committee therefore suggests expediting the process on priority basis. The students-support and counseling for "how to use the college library" is a regular practice that is assumed to be a good student-friendly practice of the College.

The faculty with active encouragement from the IQAC prepared the Lesson Plans for each of the courses. The committee has appreciated the coordination that exists between administration and the faculty members.

The College with the initiatives of the different Departments and IQAC Cell organized several programmes in last couple of years, which is commendable. The College Canteen is good. From the students' welfare side, the College has a stadium, well-laid sports facilities, girls' and boys' common rooms, hostels etc. The committee is pleased to see the Day Care Centre for the wards of the faculty members along with the activities of NSS and NCC cadets. These can be treated as one of the best practices of the college for the welfare of students and staff members.

The team prefers to appreciate the Department of Education for the community services and well documentation of the records and the Department of Mathematics, Philosophy, Zoology for their academic initiatives.

Specific Suggestions:

The committee feels it as a duty to offer certain suggestions for the improvement of the academic atmosphere of the college. However, these are not stand-alone activities; rather they would be a part of continuous efforts of the faculty members and administration of the college in their relentless pursuit towards achieving the highest academic standard.

- Lesson plans may be prepared based on the PO-CO matrix for all programmes.
- More Student-friendly wellness programmes incorporating Yoga etc. along with regular courses may be started.
- It is suggested to maintain students' progression records along with their performances which could be displayed in each Department to encourage the budding students stepping into the college.
- Efforts may be initiated on an urgent basis for improvement of the pass percentage in general courses (and in some of the major subjects).
- A database on slow learners may be kept ready so that more and more remedial classes/doubt clearing sessions/one-to-one contact counseling may be arranged at a time mutually convenient for faculty and such struggling students with the initiative of administration.
- Departments may be awarded based on performances. A teacher award may also be instituted.

- Research works should be promoted among the faculty and they may be encouraged to publish in reputed Journals only. To create a more conducive publication atmosphere in the college, best researcher award may be instituted for the faculty members.
- Faculty members may be encouraged to publish more text and reference books through peer review mechanism.
- Subjects like, Sanskrit and Chemistry should be more effective and vibrant.
- Steps should be taken in augmenting the 'Department of Food Science".
- If budget permits every faculty should be allotted a PC with a dedicated LAN connection.
- Teachers may still be encouraged to take part in more quality improvement programmes offered by reputed institutions even in offline mode without disrupting the regular academic activities.
- Students' Satisfaction Survey should be conducted regularly preferably after completion of each Semester so that the issues if any of the previous Semesters could be traced and resolved.
- Though the College has tremendous potential as a whole, full dedication is expected from each and every faculty member to bring laurel to the College.

Signature of the Team Member(s)

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Partha Pratim Bardah Gauhati University

Sudeshna Bhattacharyya Gauhati University

Sudeshra Bhallacham

Dhrubajyoti Sahariah Gauhati University