

PREFACE

Pub Kamrup College, a degree College having both Science and Arts stream at Baihata Chariali, Dist- Kamrup, Assam was established as an Arts College in the year 1972. The College was brought under Grants-in-Aid system of the Government of Assam during the year 1979. It becomes a multi stream College during 1986 when the science stream was introduced. The College has been provincialised as per the Assam College Provincialisation Act, 2005. It has now turned into a full fledged institution of higher learning providing UG courses in Science, Humanities and Skill based career oriented courses. In the year 2002 the College was recognised by the UGC under section 2f of its regulation as an undergraduate College. In the same year the Institution was included under 12(B) by the UGC Act. ***It is noteworthy that the college feels honoured being recognised under ‘Star College Scheme’ in 2012 by Department of Bio-technology, Govt. of India. It is also matter of encouragement that our college is one of the six selected colleges out of twenty colleges from Assam recently (2014) to have the grant of one core and eighty five lakhs to start vocational degree courses under B.Voc programme of UGC.*** With the changing scenario of new educational policy the institute determines its aim to provide and support the new generation in the field of Research and Skill based quality education. The teaching faculty and Management are endeavouring relentlessly to achieve the determined goal since its inception. Sincerity, hard work and honesty are the prerequisite of the institution which every stakeholder has been nurturing unremittingly. Besides regular Major courses in Humanities and Science subjects our College offers self-finance courses in BBA, BCA, PGDCA, - and side by side under the new UGC scheme entitled as ‘Add- on- Course” MLT and TTM has been introduced from the session 2014-2015. Pub Kamrup College is the only college in North East Region among the general colleges offering Add-on courses in Medical laboratory Technician (MLT) in collaborative effort in PPP mode with city based first grade Hospital named ‘Nemcare Hospital, North Eastern Medical Care and research Centre (P) Ltd.’. New ambitious project for opening Degree courses on Food Technology and Quality Management (which is under process with a financial grant from MOFPI), Post graduate course in Nano science and Nanotechnology is in the plan to be introduced from the coming year. Our Affiliating University and Govt. of Assam selects the College as a Nodal College for TDC final examinations and centre for district and State level govt. programme. Regular departmental as well as Inter-departmental seminars and extra motivational lectures are organized in the College in which eminent personalities from and within the state and outside are invited to deliver talks, demonstration, etc. Another redeeming feature of our college is the organising of group discussions, hands-on-training and workshop for the researchers and students at regular intervals both in house and outreach programmes. The College is in good position from the financial help from DBT for opening the Institutional Biotech Hub and inclusion under Star College Scheme during the XIth plan period to boost up research activities in relevant areas. *The presence of the Former President of India, Dr. A.P.J. Kalam as Chief Guest on the occasion of “Bijnan Mela” held in our college, 2010 supported by Assam Science Technology and Environmental Council, Govt. of Assam becomes a strong boosting point to encourage the young generation towards science education.* Students also take part in subject specific Educational Tour programme to different places of importance and advance laboratories every year organized by the respective Department regularly. We believe that these activities help the students to multiply their intellectual quests for their all round development. The Information and Communications Technology (ICT) is at par with the new academic advancement which ensures the effective institutional functioning. At present it is the only Science College within the radius of 20km in the rural area on the North bank of Brahmaputra and up to the Indo-Bhutan international border towards North.

At present we have 47 numbers of permanent faculty members with 15 regular departments and 32 supporting staff working in different sections of the institution. The teaching and non teaching staffs of past and present irrespective of positions, their contribution is enormous and praiseworthy in the all-round development and growth of this institution. The vision of the College is to transform this rural educational Institution of higher learning into an 'Institute of Higher Education' appropriating all the paradigm shifts. Thus the sole objective of the Institution is clear enough,- that the institute is to prepare students to be skilful, trained and dressed as dynamic citizens of tomorrow. We earnestly hope to turn this institution to an 'Institute of Higher Education' with all paradigm shifts to facilitate our students for learning and research and creating them resourcefully fitted out and motivated to meet any challenge of life.

Now we, the Pub Kamrup College volunteers for the 1st cycle of assessment and accreditation. As we are submitting the self-study report for accreditation, a humble and careful effort has been taken to involve all the faculty and supporting staff of the College by the Steering Committee in its preparation to maintain quality sustenance and improvement to lead the College into the future. The College was accredited by NAAC in 2004 by offering B-grade. Unfortunately due to the non-appointment of permanent Principal by Govt. of Assam from 2009 to 2012, the College could not process for reaccreditation within the stipulated period,- but still the whole fraternity of the College remembers the statement in the 'peer team report'- 'The team is convinced that the College has the potentiality to develop itself as one of the leading Institutions, of the state vis-à-vis the country'. We strongly believe that assessment and accreditation from an autonomous body like NAAC is a matter of pride and honour for our college. We welcome the visit of the Peer Team of NAAC to Pub Kamrup College.

EXECUTIVE SUMMARY

Pub Kamrup College is one of the prestigious institutions in North Eastern region of the country in the field of Teaching, Learning and Research. Established in the year 1972, the Institution was the brain child of some of conscious local people of Baihata Chariali, Kamrup, Assam (longitude 90⁰44" E and latitude 26⁰2" N), in pursuit of quality education for generating better human resources amongst the aspiring progeny hailing primarily from an agrarian society centering the vast rural area on the north bank of Mighty Brahmaputra. With the past 41 years of glorious existence, the College is proud of catering the knowledge in both the fields of Humanities and Sciences among the student fraternity. During the past years the College is able to develop quality education and record a few outstanding achievements to our credit. The untiring effort put in by the Management, staff and the students has been blessed with remarkable support from alumnae, parents and the community at large to give the College to its present status. We believe each of the achievement reminding us to renew our commitment to the stakeholders, without compromising the vision of the founders.

A brief outline of the activities of the College recorded criteria wise in the Self Study Report is given below-

CURRICULAR ASPECTS

Our Institution is offering 15 Under Graduate courses with Major and General Courses. Moreover we have introduced a number of value added Add on, diploma and certificate courses and Self financing Career oriented courses as well as short term skill development programmes designed by the faculty members of the institution which enable students to acquire additional skills by the time they complete their first degrees. The introduction of Choice Based Credit and Semester System in 2010 by the University, offers the College greater flexibility in introducing elective and open courses at the undergraduate level. The College has tied up with other agencies to offer more flexibility and diversity in its academic programmes – it offered Add on courses on Advanced Diploma and Diploma in Medical Laboratory Technician and Diploma in Travel and Tourism Management in 2013-2014 academic sessions. Teachers are actively involved in curriculum design and development of the affiliating University as they are members of academic bodies and subject experts of curriculum revision committees of UG courses. The Institution has always fostered a collaborative network with the university, research bodies and industry to further curriculum design, for higher studies and research. The goals and objectives of the College are integrated to make the College a center of higher education well equipped with modern technology to meet the challenges of recent time.

TEACHING LEARNING

Transparent admission process is ensured at all stages in our institution. Teaching methods are adapted according to the needs of students. The respective teachers prepared the teaching plans and lesson plans for the whole academic session. Moreover the College initiated the steps to keep the daily progress report of each individual teacher to review the curriculum implementation and better future planning in this regard. The teachers availed training programmes within and outside the campus to improve the quality of teaching-learning. Remedial coaching, Peer group learning and tutorial sessions are arranged to help slow learners while advanced learners are motivated through multiple intelligent skills. Special attention is given to the physically challenged students. Good results, campus discipline and general atmosphere conducive to learning may be taken as justification for the

uniformly high demand ratios for all programmes. Regular monitoring and counseling help students to improve their academic performance and psycho-social levels. Fourteen teachers have PhD and ten have M. Phil as their highest qualification. In addition to 29 books edited/compiled, there have been 67 international and 92 national publications by faculty members.

An efficient system of continuous internal assessment has been introduced. The academic calendar and the action plan prepared at the end of each year ensure the smooth conduct of all activities of the following year. Academic audit, both internal and external, are conducted on a regular basis under the initiative of the IQAC. The College library has a collection of more than 26, 000 volumes, subscribes 22 national and international research journals and provides access to e-journals /e-books and ICT facilities. **The institution takes the initiative to arrange national and international programmes for the staff and students to enable them to keep up with the latest developments in their fields. Students get ample opportunities to interact with eminent academicians/scientists who visit the campus.**

RESEARCH, CONSULTANCY AND EXTENSION

The College has a Research and Publication Committee (RPC) to motivate, facilitate as well as monitor the research activities of the faculty members. In addition to this each department has a Departmental Research Committee (DRC). Many departments are in the process of mobilizing research activity. The College is keen to mobilize all available funds for research and allied activities. Financial assistance from UGC, DBT and other funding agencies are channelized for providing/ upgrading research facilities in the College. The College established a well equipped Institutional level Biotech Hub with the assistance from DBT. The College has financial provision for research and development of its own also. Three faculties have acquired Research Guideship of different Universities. At present 24 faculty members are engaged in active research. Provisions of leave are made by the management for newly registered Ph.D scholars to attend the Course Work accordingly. Academic leaves are granted to the faculty members to attend seminars/conferences etc. organized by organization of higher repute. The College has been maintaining a healthy practice of arranging interdepartmental talk at a regular interval. A total 21 faculty members have under taken 31 numbers of UGC funded Minor Research Projects (MRP) during past five years. One of the faculty members has collaborative research activity with National Brain Research Centre (NBRC), Manesar, Haryana and Institute of Advance Studies in Science and Technology (IASST), Guwahati and other has collaborative research activity with GRAPES collaboration. For capacity building in terms of research 8 workshop/seminar have been organized. 76 numbers of International/national/state level conference/seminar/workshop have been attended by the faculty members during last five years.

The authority and the faculty members are helping students to get financial support from the external sources. With the help of the able guidance of the faculty members of Physics Department, Kabita Deka, a student of 6th semester Physics major has got the Scholarship for Innovation in Science Pursuit for Inspired Research (INSPIRE) from the DST, Govt. of India and worked on a project entitled “Brain Rhythms- A Physics Based Investigation” during July- August 2013 as a Summer Research Fellow under the supervision of Dr. Paulsamy Muruganandam, Bharathidasan University, Tiruchirapalli. The Summer Research Fellowship Programme is jointly sponsored by IISc (Bangalore), INSA (New Delhi) and NASI (Allahabad). Harun Al Rashid, a student of Department of Physics, worked

on a summer project entitled “Some Basic Ideas on Friedmann Cosmological model” during July- August 2012 as a Summer Research Fellow under the supervision of Professor Mahammad Sami, Professor, Jamia Millia Islamia, New Delhi. The College is proud to have the gracious presence of 21 eminent scientist/ renowned personalities including ex-President of India Bharat Ratna Dr. APJ Abdul Kalam in a Jana Vigyan Mela held in our College organized jointly with Assam Science Technology and Environment Council (ASTEC), Govt. of Assam, during February, 2010.

The faculty members of the College undertake some programmes in the College campus itself and in the neighbouring schools to create awareness among the students and common mass. The topics of the deliberations are selected considering the present day relevant issues like science education, agricultural and industrial development, health and conservation of environment etc. Students are trained for good citizenship through organizations like NSS, Red Ribbon Club, and also through extension activities of the Departments. Our NSS unit is recognized as one of the best in Gauhati University.

INFRASTRUCTURE AND LEARNING RESOURCES

The institution provides the optimum infrastructure facilities for Curricular and Extra-curricular activities. The Institutional Biotech Hub (IBH), a seminar Hall with state of the art, a computer conference Hall with Chinese Mandarin and necessary Software, laboratories, new books and journals in the Central and department libraries, Smart Board Rooms, virtual lab, Broadband connection to each department are some of the learning resources that help faculty and students to keep pace with the latest developments in their fields. LAN facility is available within the campus. Separate students’ recreation hall for boys and girls has been provided. The institution has all total 24 numbers of class rooms for holding classes. The canteen and Students’ store are open during working hours. College bus caters services to the ADMLT and MLT students to attend the classes of outside laboratories. A 50 KW Solar Power plant, two Generator sets with 10KW and 20KW capacity supply round o’ clock power service. Girls’ hostel with Warden Quarter, Auditorium, College Press (Offset Printing), and administrative offices support the teaching learning process. The college has a field for outdoor games. The completion of Indoor Stadium under construction will definitely boost the sports facilities for the students in near future. All the students of our institution access the facilities of pure cool drinking water from 3 Aqua guard installed in the campus.

A multistoried science building under construction will further add the facilities of infrastructure for teaching and learning.

STUDENT SUPPORT AND PROGRESSION

The College authority considers student support as an essential and most important component of its functioning. Our college is a rural college. The majority of our students comes from rural areas belongs to the families of average and constrained socio-economic conditions. The College provides support services to students for their benefit through Library facility, Computer Lab with internet connectivity, Digital Conference Room / Smart Classroom, Hostel facility (for Girls only), Laboratories (DBT sponsored Bio-tech Hub & Star College Scheme), Scholarship, Canteen, Poor aid fund, Insurance supports and Sports facility. The college implements variety of schemes like free admission to the BPL students on merit and financial help to BPL students. Book Bank facilities for BPL students, ‘*Jnankosh*’ a Book Bank for advanced learners are helping the students in another way. In addition to Central and State government Scholarships the college offers scholarship for

achievers. Career Guidance and Placement Cell and Grievance Redressed Cell provide support services and facilities to students. College enables students to take short term skill development courses and has the support facilities to promote the entrepreneurial skills of students. The College emphasizes the institutional social responsibility and tries to inculcate in students attitudes of social commitment and a concern for the underprivileged. Besides these, the college provided Conveyance and House rent allowance Rs. 2,00,000/- and Rs. 8,00,000/- respectively from the special UGC grant under 11th Plan to the students of BPL family residing in rental house in 2012.

The College has a track record of covetable achievements in cultural and literary fields. The college bagged the 2nd, 3rd and the 2nd position in 2011, 2012 and 2013 respectively in the event of Cultural Procession of Gauhati University Youth Festival. In the 2011 Gauhati University Youth Festival our student Pranami Sarma bagged the 2nd prize in Bongeet (Folk song) competition. In 2013 Nabajyoti Rajbonshi, Dhanjit Deka and Chayanika Devi participated in the 3rd Indian Student Parliament (*Bharatiya Chhatra Sansad*) at Maer's Institute of Technology, Pune. Jyotirmoy Sarma clinched Gold Medal in Kung-fu Competition in the '1st National Self- Defense Championship, 2012' organized by Maharashtra Self – Deference Association, Mumbai. Moreover, college organizes Blood Donation Camp in 2010, Yoga training camp in 2010, Lecture on mental health in 2011, Seminar on health awareness in 2012 and Encephalitis Vaccination Camp in 2014.

GOVERNANCE, LEADERSHIP AND MANAGEMENT

Pub Kamrup College being the provincialised college as per the 'Provincialised Act 2005', Govt. of Assam is to be governed by the defined Govt. rules. The College is affiliated to Gauhati University, Assam. So in academic matters our College follows the Gauhati University norms. The College authority ensures the management as per the norms with utmost transparency. In addition to existing statutory bodies, different committees/sub-committees are formed to achieve meaningful decentralizing and participating character which is in other way the factor to strengthen the feeling of attachment to the institute. Moreover, it is also very much effective in grooming leaders in different step.

With well defined vision, and meticulously formulated mission, the College is marching ahead. It is clearly depicted that the spirit of the governance is the team spirit. Regarding academic, construction, financial and student related matters, a team based follow up, that is, lead team, preparation team and visit team based follow up is pursued to find the best management.

INNOVATIONS AND BEST PRACTICES

The College is working towards the fulfillment of its vision and mission. To build a sustainable eco-friendly campus, the entire college community is accustomed with the practice of planting trees, proper use of energy and its conservation, use of renewable energy, use of Public address system, waste management etc. With the motto of **“Every household should have at least a *Neem (Azadirichta indica)* plant”** a plantation cell has been established in the department of Geography in 2003 to make the students aware about the conservation and restoration of the environment. Since then i.e. from 2003 the students and faculty members are involved in planting sapling particularly “Neem Plants” in and around the College campus. From 2013, the College initiates a “Green Dairy Programme” where practice of planting tree sapling for every newly admitted student is made mandatory. Planted saplings are monitored time to time by the assigned in charges of the Departments through **Green Dairy** provided to students.

MAJOR INNOVATIONS INTRODUCED IN THE COLLEGE

Importance has been given to students' participation or involvement in various institutional activities, phase wise up-gradation of class rooms with Plug-n play system, organizing seminar in different departments as well as popular talk by inviting eminent personalities or academicians, arranging motivational talks of prominent personalities from the academics, Certification and add-on courses for students. Emphasis is given to organize extension activities for community development, Alumni and parent-teachers meet and monitoring activities, undertaking renovation and development works of college campus. In addition to the above, some specific measures in this regard are-

- Choice of a thrust area of higher education as per the policies of the UGC and NAAC
- Submission of daily class record by the faculties to the principal for regular monitoring of the Teaching-learning processes.
- A College printing press has been set up for quality and smooth supply of the printing materials of the College such as Question papers of Sessional / Annual examinations, College Magazine, Prospectus, News Bulletin, Brochures for workshops/seminars/conferences organized by the College, Official matters, Materials of the Students Union Election etc.
- To provide Stationeries, Text books, Reference books etc. at a reasonable price, a Book stall is opened for the students in the College premises.
- Establishment of Student Amenity Centre and provision for indoor games
- Inviting Visiting Faculty from higher educational Institution.

SWOC ANALYSIS

Strengths

- The College has an excellent reputation as one of the leading College in the State.
- Members of the Governing Body include eminent and experienced academicians and administrators who help for the quality improvement.
- Competent Faculties are appointed strictly on merit basis.
- The College maintains an atmosphere of discipline, conducive to learning. The College is free from party politics, elections to the Students' Union are conducted in the parliamentary mode.
- Faculties are dedicated who give extra time in tutorial hours, remedial coaching and mentoring.
- IIT Guwahati is situated just at the distance of 14 Kms. The College has an academic linkage with different departments and Biotech park of IIT G.
- Eco-friendly living and socially responsible citizenship is inculcated in students through the routine activities of the NSS, Red Ribbon Club and the different departmental Societies.
- The Institution has enhanced and upgraded regularly the infrastructure facilities and learning resources,
- The College ICT facilities enabled teaching-learning process as the College has 6 numbers of LCDs, 85 computers in LAN network with internet connectivity.
- College has the residential facility for girl students through hostel attached to the College campus.
- The campus has uninterrupted power and water supply.

- Strong and continuing networking with alumnae, parents and retired faculties through their respective organizations who help the institution to receive feedback for quality improvement.

Weaknesses

- According to the policy of the State government, new academic programmes have not been introduced in the aided stream for last several years. At the same time there is also shortage of faculties as the State Govt. has not been providing additional post for last several years.
- Undergraduate curriculum of the College offers less scope and facility for research.

Opportunities

- Being a rural college established in agrarian locality, the College has the scope to introduce some agriculture based course.
- The College being recipient of substantial amount of grant (about 69 lacs) from department of Biotechnology, Govt. of India against Institutional Biotech Hub and Star College Scheme respectively has the ample opportunity to develop life science not only from teaching point but also from research point of view.
- Support from the alumnae and benefactors enables the College to give a good number of scholarships and freeships to students especially on merit cum means basis.
- An increasing number of teachers have acquired research degrees and undertaken research projects, so there is improved scope for upgrading more departments to the status of research centres.
- The College being affiliated to the University and recognized by the UGC it is eligible to apply for development grants and UGC sponsored programmes.
- Since the College enjoys a good reputation, some of the students get opportunities for placement and internship in premier institutions.
- With the internal resources the College provides freeships, fee concessions and other welfare schemes for economically backward students, thus helping them to continue their higher studies.
- Pub Kamrup College is a co-educational Institution and we have no gender inequality.
- Our college can afford low cost uninterrupted renewable source of energy from its own 50 KW solar power plant.
- Our college is privileged with a centre of Indian Meterological Department Automatic Weather Station (IMDAWS)

Challenges

- To meet up the normal teaching-learning process upholding the standard without requisite number of qualified faculty is the biggest problem.
- The Government takes time to grant concurrence for the appointment of teaching and non teaching staff which delayed the appointments in substantive vacancies. As a result, the management is compelled to appoint temporary staff which proves to be a big problem. This affects the smooth functioning of the academic and administrative systems and the financial resources of the College. Apart from this, appointments with

regard to support staff are far less than the necessary number and the management has to appoint a large number of support staff on daily wage basis.

- Number of working days is inadequate to complete the prescribed curriculum in Choice Based Credit and Semester System.
- Being an affiliated college and functioning in accordance with Government policy the College has limited autonomy.
- Our college is a young rural college. The infrastructure and resources of the College are sometimes rather inadequate to meet the needs of increased number of students.

Future Plans

- To apply for new PG programmes and job oriented UG programmes.
- Conversion of best UG departments to Quality Research Centre.
- To apply for more UG programmes in skill development.
- To start more multidisciplinary/ interdepartmental programmes.
- It is proposed to construct a multistoried new science block (now under construction) to accommodate classrooms and allied facilities for science departments and new programmes.
- To start a physical Fitness Centre
- To build an Indoor Stadium (under construction) incorporating a roofed Volleyball court, Badminton court, visitors Gallery and other necessary indoor games amenities.

EXPRESSION OF INTEREST (EOI) FOR INITIATION OF A POLICY RESEARCH CENTRE

The understanding of science and scientific ways of thinking is essential to participation in democratic decision making when issues concerning science are involved. It is already rightly projected that the understanding the complex relationship between cultural diversity, gender and science education is important as it affects the students' choice of taking up an education in science [Chunawala & Natarajan, Homi Bhabha Centre for Science Education]. The timely taken great decision of establishing 4–5 numbers of Policy Research Centre during the 12th Plan Period in the Country is highly expected to take the complex relationship between cultural diversity, gender and science education. From the point of cultural diversity, the North-East is as if a mini India. The comparative slow progress, crippled many ways in communication and strategically important location encourage the North-East to place “Expression of Interest (EOI) for Initiation of a Policy Research Centre” so that the region can come out to be placed in a position to share equally in Nation's prosperity and development. The overall connectivity to the other part of our country, socio-economic status, educational background, etc. project Assam rightly the gateway of North East India. So, at the present juncture, Assam is supposed to have one of the Policy Research Centres to cater the much needed planning for Science, Technology & Innovation (STI) sector specifically to North-East region. **With this understanding and realization, Pub Kamrup College, Baihata Chariali – 781381, Kamrup, Assam, recognized as Star College under ‘Star College Scheme’ sponsored by the Department of Biotechnology, Govt. of India critically analyses its plus and minus points to have the Policy Research Centre in its campus. The analysis promotes the college to have some solid points for this opting specifically for the following grounds:**

(i) The College alumni are pursuing science research & teaching career in prestigious International/National academic institute such as Imperial College, London, Delhi University, IIT Guwahati etc. They are willing to offer possible services if the centre is once established.

(ii) The College is enjoying its locational advantage. Pub Kamrup College is situated in the North bank of Brahmaputra, only 14 km away from IIT Guwahati and 22 km away from Gauhati University, its affiliating University. In various academic and policy making activities, the college gets directly benefited by the faculties from these two premier institutions.

(iii) The College specifically in science stream shows very good academic result in undergraduate university examination. In Physics, the continued good result is the attracting point for the new comers. With brilliant academic results, the some of the promising students are pursuing research activities. The INSPIRE scholarship recipient, Summer Research Fellowship awardees among undergraduate students are also the encouraging points for future planning.

(iv) The visit of academician of repute as for example Prof. Thangavalue from Indian Institute of Science, Bangalore, Prof K. D. Atryee, the visiting faculty of IOWA State University, and their willingness to offer suggestion and help to the welfare of the College are some boosting points for the college future plan. With these above mentioned points and some of the other considerations supposed to be followed with commitment, Pub Kamrup College decides to forward the Expression of Interest (EOI) for initiation of a Policy Research Centre. The future shaping in science, technology and innovation must originate from undergraduate, - with this belief, Pub Kamrup College dares to take the responsibility of one of the Policy Research Centre for formulating and implementing the stated activities of a dedicated PRC specifically for the entire North-East. Our targeted focus field will be mainly of the undergraduate level (submitted to the Department of Science and Technology, Govt. of India).

PROFILE OF THE COLLEGE

1. Name and Address of the College:

Name:	Pub Kamrup College	
Address:	P.O.- Baihata Chariali, Dist- Kamrup	
City: Guwahati	Pin: 781381	State: Assam
Website:	www.pubkamrupcollege.org	

2. For Communication:

Designation	Name	Telephone With STD	Mobile	EMAIL
Principal	Dr. Balendra Kr. Dev Choudhury	03621286300	9435119315	1.principal@pubkamrupcollege.org 2.bdevchoudhury@yahoo.com
Vice Principal	Mrs. Dipsikha Bhuyan	03621286300	9435085887	bhuyandipshikha@gmail.com
Steering Committee Co-ordinator	Dr. Kamal Sarma	03621286300	9954784294	kml.sarma9@gmail.com

3. Status of the Institution: Affiliated College

4. Type of Institution:

- a. By Gender: Co education
- b. By Shift: Day shift

5. It is a recognized minority institution?: No

6. Sources of funding: Government

7. a. Date of establishment of the College: 21-08-1972

b. University to which the College is affiliated: Gauhati University, Guwahati, Assam

c. Details of UGC recognition:

Under Section	Date, Month & Year	Remarks (If any)
i. 2(f)	03-08-2002	Certificate enclosed (Ann-1)
ii. 12(B)	03-08-2002	Certificate enclosed (Ann-1)

d. Details of recognition/approval by statutory/regulatory bodies other than UGC
(AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/ clause (Order No.)	Recognition/Approval details Institution/Department Programme	Day, Month and Year	Validity	Remarks
Rule 18,1978 No.102/IFD/SAN /1045/2012-13 dtd.04.06.2012	Awarded Star College scheme under DBT	05-06-2012	3 Years	Approval letter enclosed (Ann-2)
BT/22/NE/2011 dtd.30.11.2011	Institutional level Bio-Tech Hub funded by DBT	30-11-2011	3 Years	Approval letter enclosed (Ann-3)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges? : No

9. Is the College recognized?

a. by UGC as a College with Potential for Excellence (CPE)? : No

b. for its performance by any other governmental agency? : Yes

If yes, Name of the agency: Under Star College Scheme, Department of
Biotechnology, Govt. of India (Ann-2)

Date of recognition: 05-06-2012

10. Location of the campus and area in sq.mts:

Location*	Rural (Ann-4)
Campus area in sq.mts.	24078.80 sq.mts.
Built up area in sq.mts.	5010.65 sq. mts.

(*Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities: √
 - i) One Auditorium Hall.
 - ii) One seminar complex.
- Sports facilities
- Playground:√

- i) One outdoor play ground is under construction
 - ii) Construction of one Indoor stadium is going on
 - iii) Karara Mini stadium is used by the College for some Sports activities
 - Gymnasium: √
 - Hostel
 - * Boys hostel- Nil
 - * Girls' hostel: √
 - i. Number of hostels: 01
 - ii. Number of inmates : 65
 - iii. Facilities: furnished room, solar power connection, two daily news paper, pure drinking water facility, indoor game facility etc.
 - * Working women's hostel: Nil
 - Residential facilities for teaching and non-teaching staff (give numbers available—cadre wise): Principal's Quarter is under construction
 - Cafeteria: One
 - Health centre: A Govt. health centre is situated nearby the College and all the health facilities are provided by that centre when needed.

Qualified doctor: Fulltime Part-time √
 Qualified Nurse: Fulltime Part-time √

 - Facilities like banking, post office, book shops
 - i) Two branches of nationalized bank, One Post office are situated nearby College.
 - ii) College has one book shop within the College premises
 - iii) One offset printers
 - Transport facilities to cater to the needs of students and staff:
At present the College provides own transport facility for the students of Add-on Courses.
 - Animal house: Nil
 - Biological waste disposal: Yes
 - Generator or other facility for management/regulation of electricity and voltage:
Two generators with 10 and 20 KVA and one solar power plant with 50 KVA capacities are available.
 - Solid waste management facility- Solid waste management is manually disposed
 - Waste water management- Waste water is through permanent drainage system
 - Water harvesting- The pond inside the College campus serves as a rain water reservoir as well as ground water recharging unit.
12. Details of programmes offered by the College (Give data for current academic year)

Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No.of students admitted (1 st year)
Under-Graduate	UG (Science) UG (humanities)	3 years	10+2	Assamese & English	---	B.Sc - 294 BA- 466
Certificate courses	Certificate course in Medical laboratory Technician (CCMLT)	1 year	10+2	English	40	Not admitted
UG Diploma	Advance Medical laboratory Technician (ADMLT)	2 Years	10+2	English	20	18
	Diploma In Travel & Tourism Management (DDTM)	1 Year	10+2	English	25	21
PG Diploma	PGDCA	1 Year	Graduate	English	30	05
Any Other (specify and provide details)	Bachelor of Bussiness Administration (BBA), Bachelor of Computer Application (BCA)	3 years	Graduate	English	10+10	6+2 = 8

13. Does the College offer self-financed Programmes? : Yes
If yes, how many?: Two (02) numbers, i) BBA and ii) BCA

14. New programmes introduced in the College during the last five years if any?

Yes:√ Number: 02

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common

compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research
Science	Botany, Chemistry, Computer Science, Mathematics, Physics, Statistics, Zoology	√	--	--
Arts	Economics, Education, Geography, History, Philosophy, Political Science	√	--	--
Commerce	---	--	--	--
Any Other (Specify)	BBA, BCA	√	--	--
	1. Advance Diploma in Medical laboratory technician (ADMLT) 2. Certificate in Medical Laboratory Technician (CCMLT) 3. Diploma in Travel And tourism Management (DTTM)	√	PGDCA	--

16. Number of Programmes offered under (Programme means a degree course like BA, B.Sc, MA, and M.Com...)

a. annual system

-
04
--

b. semester system

c. trimester system

17. Number of Programmes with

a. Choice Based Credit System

b. Inter/Multidisciplinary Approach

c. Any other (specify and provide details)

04
02
Nil

18. Does the college offer UG and/or PG programmes in Teacher Education?: No

19. Does the college offer UG or PG programme in Physical Education?: No

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F				
Sanctioned by the UGC/University/ State Government <i>Recruited</i>	--	--	22	03	11	11	23	03		--
<i>Yet to recruit</i>	--	--	--	--	03	--	01	--		
Sanctioned by the Management/ society or other authorized bodies <i>Recruited</i>	--	--	--	--	--	--	--	--	07	--
<i>Yet to recruit</i>	--	--	--	--	--	--	--	--	--	--

*M-Male*F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	--	--	--	--	--	--	--
Ph.D.	--	--	08	02	01	03	14
M.Phil.	--	--	00	00	06	03	09
PG	--	--	13	01	05	05	24
Total	-	-	21	03	12	11	47
Temporary teachers							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	05	03	08
Part-time teachers							
Ph.D.	--	--	--	--	--	01	01
M.Phil.	--	--	--	--			
PG	--	--	--	--	08	11	19

22. Number of Visiting Faculty/Guest Faculty engaged with the College. : 20

23. Number of students at the entry level during the last four academic years.

Categories	2010-2011		2011-2012		2012-2013		2013-2014	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	11	16	10	15	14	15	11	20
ST	12	10	16	06	09	05	16	21

OBC	41	66	81	71	102	105	100	101
General	95	172	142	167	147	173	179	207
Others (Minorities)	36	68	52	60	60	71	65	80
Total	195	332	301	345	327	369	371	389

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M.Phil.	Ph.D.	Total
Students from the same State where the College is located	1836	--	--	--	1836
Students from other states of India	--	--	--	--	--
NRI students	--	--	--	--	--
Foreign students	--	--	--	--	--
Total	1836				1836
*Other Courses	46	06			52
Grand total	-		-	-	1888

*other course- add-on and self funded courses

25. Dropout rate in UG and PG (average of the last two batches)

UG 21 PG 00

26. Unit Cost of Education

(Unit cost=total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component

Rs. 31617/-

(b) excluding the salary component

Rs. 7087/-

27. Does the college offer any programme/s in distance education mode (DEP)? : No

28. Provide Teacher-student ratio for each of the programme/course offered

BA: 1:37
 BSc: 1:25
 BBA: 1:5
 BCA: 1:5
 ADMLT: 1:2
 DTTM: 1:5
 PGDCA: 1:2

29. Is the college applying for
Accreditation: Cycle1 Cycle2 Cycle3 Cycle4
Re-Assessment:

(Cycle1 refers to first accreditation and Cycle2, Cycle3 and Cycle4 refers to re-accreditation)

30. Date of accreditation*(applicable for Cycle2, Cycle3, Cycle4 and re-assessment only): Does not arise
31. Number of working days during the last academic year (2012-13):

32. Number of teaching days during the last academic year:
(Teaching days means days on which lectures were engaged excluding the examination days)

33. Date of establishment of Internal Quality Assurance Cell (IQAC) : 07.04.2003

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC:
Four Annual reports (2005-06, 2006-07, 2007-08 and 2008-09) were submitted to NAAC, Bangalore, after the College was accredited and assessed by NAAC in 2004. Reaccreditation was due on 2009, but the College could not invite NAAC as there was no permanent Principal from 2009 to 2012; and subsequent report was not submitted to NAAC.

35. Any other relevant data (not covered above) the College would like to include:

The College was awarded 'B' grade by NAAC in the year 2004

CRITERION I

CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 The vision, mission and objectives of the institution and how these are communicated to the students, teachers, staff and other stakeholders

Our Vision: Pub Kamrup College envisions to be one of the pioneer higher educational institutions of the state. It aims to impart quality education to the students from all sections of the society and thereby, enable them to meet the needs and challenges of time. The College envisages to erect the proper platform for the teachers and taught to mould knowledge, morality and social commitment for building social order and discipline amidst the plurality and diversity of religion and culture of the nation.

Our Mission: Pub Kamrup College has been working with the mission to provide quality education to the young generation to prepare them as responsible citizen of the nation to face the challenges of time.

Our Goals:

- a) To make the College a center of higher education well equipped with modern technology to meet the challenges of recent time.
- b) To establish community relations in the area through extension activities.
- c) To educate the student community to be self-dependent and responsible citizen.
- d) To emphasize on publications.
- e) To encourage teachers and students to go for research activities relevant to society.
- f) To encourage women education for upliftment of the women community.

Our Objectives:

- a) To inculcate value based education.
- b) To make the society prosperous and healthy through education.
- c) To educate the student community with scientific outlook for removal of the backwardness, poverty, superstitions etc. from the society.

The stated Vision, mission and objectives of the College are transmitted to the students, teachers, staff and stakeholders in the following ways-

- A) The College communicates the goals, vision, mission and objectives to the students through the College website, prospectus, academic routine, college news bulletin, college magazine and books published by the College (i.e. Gramya Paryatan, Bhraman).
- B) The vision of the College is communicated to the students by an awareness programme during the admission procedure.
- C) At the time of admission each newly admitted student has to take an oath publicly to nurture a green environment within the College premises as well as in his/her locality.
- D) The College organizes the regular meetings of the stakeholders for the fulfillment of the vision, mission of the institution.
- E) Extension and co-curricular activities are undertaken by the College in collaboration with the Government, local organizations and NGOs.

- F) Every year College foundation day (21st August) is celebrated as a special occasion to commemorate the vision, mission and objectives of the College.

1.1.2 The institutional action plans for active implementation of the curriculum

In the beginning of every academic session the College prepares an annual routine for the effective implementation of the curriculum framed by the affiliating University in consultation with the faculty members from all the departments. Accordingly, at the departmental level, teachers of the departments are allocated the course contents based mainly on their subject specializations. The respective teachers prepared the teaching plans and lesson plans for the whole academic session. Moreover the College initiates the steps to keep the daily progress report of each individual teacher to review the curriculum implementation and better future planning in this regard.

1.1.3 Support (procedural and practical) to the teachers (from the University/ institution) for effectively translating the curriculum and improving teaching practices

The affiliating university and the College extended multifarious support as well as facilities to the teachers for effectively translating the curriculum and improving teaching practices. Faculties are encouraged to follow their OC/RC from other Universities than his/her own University so that way earned cross learning might be the boosting factor of our academic standard. The teachers of the College participate in the orientation and refresher courses organized by the UGC – ASC (Academic Staff College)s to improve the teaching qualities.

Table 1.1: Faculty nominated to staff development programme in last four years

Programme	Number of faculty	Inside state	Outside state
OC	08	05	03
RC	17	07	13

At the institutional level the College provides the facility to publish the learning materials both in print and online edition. Faculty of the College can take the help of the College printing press for procuring the study material in printed form. Moreover, an Academic Committee is constituted comprising of all the HoDs of the College to improve the overall teaching- learning process.

The College provides the infrastructural facilities for the ICT based teaching-learning process.

1.1.4 Initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University

- The institution takes all-out effort to provide all kinds of infrastructural facilities for the effective and smooth curriculum delivery and transaction. Every department has the internet connectivity to avail the learning resources by the teachers as well as the students. Guest lecturers are appointed to compensate the shortage of teachers in

almost all the departments of the College. The College provides digital facility equipped classrooms for the effective curriculum transactions. The departments of the College organize periodic workshops, student-seminars, field survey and student exchange programmes.

Table 1.2: Lists of the various programmes organized by the departments

Department involved	Type of activity (Students seminar, Workshop, exchange programme etc.)	Name/No. of students participated	Year
Physics	Summer Research Programme for the students held in Jamia Milia Islamia University, New Delhi	Harun Al Rashid	2012
	Summer Research Programme for the students held in Bharathidasan University, Tiruchirappali	Miss Kabita Deka	2013
Mathematics	Mathematics Training and Talent Search Programme (MTTSP), IITG	Simashree Deka	2011
English	Students exchange Programme with MNC Valika Mahabidyalaya, Nalbari	50 students	2012
	Students exchange Programme with K R B Girls college, Guwahati	50 students	2013
Botany	Summer School at Tezpur University	Manashi Bharadwaj	2013
	Students seminar on the occasion of 'National science Day' where 5 nos. of students delivered lecture	55 students	2014
Assamese	Students Seminar on Lakshminath Bezbaruah	11 students	2013
	Field Survey on "Nanara Burha Dangaria Thanar Manasa Puja"	12 students	2012
	Student outreach Programme held at Visva Bharati University, Shantiniketan, Department of Oriya.	15 students	2012
Political Science	Field Survey on "Voting Behavior in the Lok Sabha Election 2014; a case study in the Agdala Gaon Panchayat under the Mangaldoi Lok Sabha Constituency"	50 Students	2014
Economics	Students project on "Annual Socio-Economic Survey"	All Major Students of the Department	Every Year
	Students project on " Selected problems of North-East Economy"	5 th and 6 th Semester students	Every Year
Geography	Project on "Darjeeling town, A Socio-Economic Characteristics: A Case Study of Siv-Gram Village of Darjeeling District, west Bengal"	18 students	2010
	Project on "Pottery Industry on the Socio-Economic Statu of Hira and Kumar caste of Kamrup district, Assam"	17 students	2011
	Project on "Impact of Quarries on Agro-Environment: A case study of Gopeswar	32 students	2012

	village, Kamrup, Assam”		
	Project on “Sea Beach as a tourist industry and its impact on coastal dwellers-A case study of Digha & Udaypur, India”	21 students	2013
	Project on “Marriage: Social Integration, cultural diffusion and assimilation- A case study of some selective ethnic groups of Bihdia Jajikona and Bezera Development Block- Assam”	08 students	2014

1.1.5 Institutional network and interaction with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum

- The College facilitates field visit and exposure tours to the Universities, research institutes and other institutions of national repute to provide additional inputs to the students. For the newly introduced career oriented add- on course of Medical Laboratory Technician we have collaboration with the NEMCARE hospital (North East Medical Care & Research Centre (P) Ltd.), one of the multi-special hospitals in the field of healthcare in the North Eastern region.

Table 1.3: Departmental network and interactions with Industry, research bodies and the University

Department	Name of the Faculty/Librarian/Research Associate/Student	Name of the collaborating Institution/Industry/University			Type of activity
		State level	National level	International level	
Physics	Dr. Balendra Kumar Dev Choudhury		North Eastern Hill University, Shillong (NEHU)		Research on non-linear dynamics
	Dr. Julie Saikia			1)GRAPES Collaboration, an Indo- Japan Collaboration for studying Gamma Rays in PeV region 2)Yakutsk Group, Russia	1)Selected as one of the Co Investigator of Indo-Japan Collaboration from Gauhati University in GRAPES Collaboration 2) Collaborating work with Prof. Alexei Mikhailov, a senior scientist of the Yakutsk Group to analyze the experimental data of Highest Energy Cosmic Rays recorded by that Group

	Dr. Navajyoti Choudhury		Inter University Accelerator Centre (IUAC), New Delhi		To pursue Beam Time Experiments
Chemistry	Dr. Utpal Jyoti Medhi		Institute of Advanced Studies in Science and Technology (IASST)		Research
	Dr Nripendra Nath Talukdar	Dept. of Chemistry Gauhati, University	Tata Institute of Fundamental Research, Mankurd, Mumbai Homi Bhabha Centre for Science Education		Research
Zoology	Dr. Manas Barthakur	IASST and College of Veterinary science	National Brain Research Centre (NBRC)		Research

1.1.6 Contributions of the institution and/or its staff members to the development of the curriculum by the University. (Number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.)

- The teachers of the College continuously involved in the various committees on curriculum development and implementation constituted by the University. The affiliating University introduced the Semester system since 2011 and some of the faculty members from both the Science and Arts faculties participated in the curriculum design and revision workshops organized by the University and other academic organizations.

Table 1.4: Contribution of the Institution/Staff members to the development of the curriculum (Syllabus/Course design and related activity) by the University

Sl. No.	Name of the Faculty	Activity Involved (Syllabus/Course Design & related activity)	Venue	Year
1.	Dr. B. K. Dev Choudhury	Special Invitee member in the Syllabus Committee of the Departments of Mathematics and Physics, Gauhati	Gauhati University	2012

		University.		
		Resource person in the workshop on curriculum development for semester system under Gauhati University.	Gauhati University	2013
2.	Mr. J.C. Sarma	Attended National Seminar on “Implementation of semester system and role of teacher”	S. B. Deora College, Guwahati	2011
3.	Dr. Kamal Sarma	Prepared Syllabus for Medical Laboratory Technician Course under G.U.	Gauhati University	2013
4.	Mr. M. K. Pathak	Member of Syllabus Committee, Dept. of Mathematics G. U.	Gauhati University	2013
5.	Dwipen Bezbaruah	Attended National Seminar on ‘Teaching Learning English at the Tertiary Level: Problems and Prospective in Rural Colleges’	B B Kishan College, Jalah	2005
6.	Mr. Montu Saikia	Workshop on “The Teaching of Stylistics at the College and University Level”	ELT, Dept. of G. U.	2007
7.	Mr. Dadul Dewri	Attended National Seminar on implementation of semester system and role of teacher	S. B. Deora College, Guwahati	2011
8.	Mr. Khagen Das	Attended National Seminar on implementation semester system and role of teacher	S. B. Deora College, Guwahati	2011

1.1.7 Details of the curriculum developed by the institution for the courses offered by it (Other than those under the purview of the affiliating university)

The College started an add- on courses in Advanced Diploma in Medical Laboratory Technician (ADMLT) and Certificate Course in Medical Laboratory Technician (CCMLT) sponsored by UGC from the academic session 2013-14 which is not offered in any other general college under Gauhati University. The Course committee develops the curriculum (annual system) of the course which is duly approved by the University Academic Council, Gauhati University.

- Medical Laboratory Technician is a person who performs the practical hands-on work in laboratories. Laboratory Technicians work in diverse settings which include health care, industry, research and educational institutions. The Medical Laboratory Technicians get the job opportunities in various Hospitals and Clinical Laboratories, Commercial and Reference Laboratories, Public Health Laboratories, Pharmaceutical, Research and Training Institutions etc. The students enrolled against the course are not only to get the skill of MLT, but also get some research oriented scope for future

higher studies. The College has taken up this ambitious project in collaboration with the NEMCARE Hospital (North East Medical Care & Research Centre Private Ltd.), Guwahati to expose the students in the locality to all the new and modern amenities and training in the field of Healthcare and thereby to serve the locality with their practical knowledge.

Table 1.5: The Course Design:

Name of the Course	Duration	Subject Area	Papers Code
Certificate Course in Medical Laboratory Technician(CCMLT)	1 Year	Fundamentals	101: Essentials of Chemistry
			102: Essentials of Physics
			103: Essentials of Mathematics
			104: Medical Terminology
		Basic Sciences	201: Anatomy
			202:Physiology
203:Biochemistry			
Advanced Diploma in Medical Laboratory Technician (ADMLT)	2 Years	Laboratory	301 Pathology
			302:Microbiology
			303:Biomedical Technology
		Information System	401:Computer Basics
			402:Laboratory Information
		Soft Skills	501: Communications
		Practical	601 Laboratory Visits
			602 Dissertation

- Class routine and Course contents are prepared for 1st and 2nd year Classes (theory/practical) separately.

Future Plans for the Course:

- To incorporate new modules/courses
- To convert the joint venture into an institute to make it self-sustained
- To establish a Para-medical institute with this joint venture, where NEMCARE Hospital, (North East Medical Care & Research Centre Private Ltd.) would provide the technical support.
- To convert it into clinical laboratory with inclusion of more equipments and facilities to make it a self-earning unit.
- To promote academic activities in the form of Research and other activities. Adequate bio-safety measures and experimental protocols would be taken care of by the Institution.

1.1.8 Institutional measures to analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation

- The affiliating University introduced the Continuous Internal Assessment (CIA) system to measure the achievements of the objectives of the curriculum. A comparative study of the results is made by the institution considering the entry level results and their achievements in the semester level examinations which is documented for future upliftment. Each department of the College keeps the records

of the pass out students and their achievements to analyze the outputs of the curriculum implementation for the better future planning.

1.2 Academic Flexibility

1.2.1 Details of the certificate/diploma/skill development courses etc. offered by the institution.

- Our College offers add-on courses on Advanced Diploma in Medical Laboratory Technician (ADMLT) and Certificate Course in Medical Laboratory Technician (CCMLT). Apart from that two other diploma courses namely Diploma in Travel and Tourism Management (DTTM) and Post Graduate Diploma in Computer Application (PGDCA) approved by the Gauhati University is also offered by the College.

Table 1.6: List of certificate/diploma/skill development courses in the College

Name of the Courses	Duration	Intake capacity	Collaborating Institute	Year of Introduction
Certificate course in Medical Laboratory Technician	1 year	40	NEMCARE Hospital, Guwahati	2013
PGDCA	1 year	20	-	2012
ADMLT	2 years	40	NEMCARE Hospital, Guwahati	2013
DTTM	1 year	40	-	2013

Goals of the courses are:

- 1) To introduce it as a career.
- 2) To enhance market oriented skill for job and self-employment.
- 3) To empower the students.
- 4) To explore and exploit the tourist avenues of the local potentiality through the DTTM Course.
- 5) To explore the prospects of the eco-tourism in the locality.

1.2.2 Details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability.

- **Range of Core/ Elective options offered by the University and those opted by the College.**
The College offers 15 nos. U.G. level Government aided courses, 2 nos. U.G. level self-financed courses, 2 nos. add-on courses, 1 P.G. self-financed Certificate course.

Table 1.7: The details of the programmes offered in the College:

Type of the programmes	Number of the programme	Mode of operation	Name of the Programme
Under Graduate	15	Government aided	BA in Assamese BA in Economics BA in Education BA in English BA in History BA in Philosophy BA in Political Science BA/B.Sc in Mathematics BA/B.Sc in Geography B.Sc in Botany B.Sc in Chemistry BSc in Physics B.Sc in Statistics B.Sc in Zoology B.Sc in Computer Science
Under Graduate	2	Self- financed	BBA BCA
Add-on Course	2	UGC funded	MLT DTTM
PG Diploma Course	1	Self-financed	PGDCA

- Besides two skill based courses will be offered as undergraduate programme by the College from the academic session 2014-15. These two courses namely Food Processing & Quality Management and Software Development & System Administration have been approved with a grant amount of Rs. 1.85 Crore by UGC under the Bachelor of Vocational Courses (B.Voc.).

- Range of subject options:**

For Arts stream each student is to take the English and MIL (Assamese) as compulsory subjects and two elective subjects from the list of subject combinations offered by the College. From the elective subjects one subject can be offered as the Major subject. In case of the students opting for the major in English or in Assamese, they will have to take one elective subject instead of MIL as per Gauhati University guideline.

For Science stream each student is required to offer Functional English as compulsory subject and three elective subjects from the list of subject combinations offered by the College. One of the elective subjects may be offered as Major Subject in conformity with the list of subject combinations.

Regular students of science stream may opt for add-on course in Advance Diploma in Medical Laboratory Technician (ADMLT) as one of the subject simultaneously during their study in the degree courses.

Students from arts and science stream may opt for Diploma in Travel and Tourism and Certificate Courses in ADMLT.

To meet the challenge of the contemporary situation, talented students in Geography major are advised to pursue their major course through science stream. In the same light promising students in Philosophy major advised to take Mathematics as one of the elective subject. Similarly the combination of Economics, Mathematics and Statistics is highly encouraged. Some achievements are summarized below-

Table 1.8 Outstanding results of the student opted Geography through science stream

Name of the student	University Rank	Year
Semimwara Begum	1 st class 1 st	1998
Jonamoni Deka	1 st class 2 nd	2012
Pankhi Baishya	1 st class 4 th	2013

To motivate the promising students in Philosophy major to take Mathematics as one of the elective subject, a series of lectures were organized by the College on the occasion of ‘International year of Physics’, 2005.

Table 1.9 Lecture series of ‘International year of Physics

Lecture theme	Resource person	Institute
Science and Religion- Einstein’s View	Prof. Sibnath Sarma	Dept. Of Philosophy, G.U.
	Prof. Pabitra Borgohain	Dept. Of Physics, Cotton College
	Prof. Bhaben Kalita	Dept. of Mathematics, G.U.

- Subject combination offered:**

Students admitted in Humanities and Science subjects have to select the following combinations.

Arts Stream

A student is required to offer English and MIL* as compulsory subject and two elective subjects. One of the elective subjects may be offered as Major Subject in conformity with the following combination of subjects.

(*Assamese is the only MIL subject offered in the College)

Major	Elective (any one of the following subjects except in English and Assamese Major)
-------	---

Assamese	Economics, Political Science, History/ Mathematics, Philosophy, Education.
----------	--

English	Economics, Political Science, History/ Mathematics, Philosophy, Education.
Economics Statistics.	Political Science, History/ Mathematics, Education, Geography,
Education	Economics, Political Science, History/ Statistics, Geography / Elective Assamese, Philosophy.
Geography Education.	Economics, Political Science, History/ Mathematics, Statistics,
History	Economics, Education, Philosophy, Political Science/ Geography.
Mathematics	Economics, Political Science, Statistics, Geography.
Philosophy	Economics, Political Science, History/ Mathematics, Education, Geography/ Elective Assamese.
Political Science	Economics, History, Elective Assamese, Education, Philosophy, Geography.

NB: Students offering Major in Assamese and English will have to take two Elective subjects other than Assamese and English respectively.

Science Stream

A student is required to offer functional English as compulsory subject and three elective subjects. One of the elective subjects may be offered as Major Subject in conformity with the following combination of subjects.

Major	Elective (any two subjects of the following)
Botany	Chemistry, Zoology .
Chemistry	Physics, Mathematics and Computer Science
Economics	Mathematics and Statistics/ Computer Science.
Geography	Economics, Statistics and Mathematics.
Mathematics	Physics, Chemistry /Statistics/ Economics/ Computer Science.
Physics	Mathematics, Chemistry/Statistics, Computer Science.
Zoology	Chemistry and Botany.
Statistics	Mathematics, Economics, Physics/ Computer Science.

The subject Environmental Studies is compulsory for both the streams.

- **Choice Based Credit System:**
Choice Based Credit System (CBCS) under the Semester System is introduced by the affiliating University since 2011. All the courses offered in the College come under the purview of the CBCS.
- **Credit Transfer and accumulation facility:**
There is no scope for Credit Transfer and accumulation facility for any institution under the affiliating University.
- **Lateral and Vertical Mobility within and across programmes and courses:**
There is opportunity for the students for switch over from the Major courses to the General courses within the programme but no option to move ahead across the programme. More over students of the science stream can offer any one of the add-on courses (ADMLT, DTTM & CCMLT) and Students of humanities can offer DTTM course simultaneously along with their regular course of study.
- **Enrichment Courses:**
To enhance the skill of the general degree students, to explore the opportunity for self-employment and also to enrich the local environment the College offers two skill based add-on courses namely Advance Diploma (ADMLT) and Certificate course in Medical Laboratory Technician (CCMLT) and Diploma in Travel and Tourism Management (DTTM). Besides, considering the need of the time our College offered the compulsory Computer Literacy programme for all Major Students from the academic session 2013-14. For the purpose a Computer Laboratory with all modern amenities accommodating 60 students at a time is arranged in the College. Two faculties one for science and one for Humanities are appointed for smooth running of the programme.
- Need based and supplementary programmes (seminar/workshops/talks) are organized by the Career Guidance Cell of the College for the enrichment of the students.

Table 1.10: Programmes organized by Career Counseling and Guidance Cell in the last four years

Sl. No	Year	Programme Name	Resource person/Organization	Organizer
1	2009	Career Advancement Programme	ICA, Panbazar, Guwahati	CCGC
2	2009	Counseling for allied health degree course	Down Town College of Allied Health Service, Guwahati	CCGC
3	2010	Counseling for Information Technology	NIIT, Chandmari, Guwahati	CCGC
4	2011	Legal literacy classes & distribution of legal literacy books	Assam State Legal Services Authority	CCGC
5	2011	Orientation programme on semester system	Dr. Sanjay Dutta, Gauhati University	CCGC
6	2011	Career Counseling	Trident Institution of Corporate Services	CCGC
7	2012	Career prospecting higher education	Dr Sasanka Deka, Associate Professor, Department of Chemistry, Delhi University	CCGC
8	2012	How to face Civil Service examination	Mrs Barnali Deka, IAS	CCGC

- **Details (admission, curriculum, fee structure, teacher qualification, salary etc.) of the self- finance programmes offered by the Institution.**

The College offered 3 self- financed courses. The details of the Courses are given below:

Table 1.11: Self- financed courses in the College

Name of the Course	Admission Procedure	*Fee Structure	Curriculum
BBA	The course is of 3 years (6 semester) duration. Students passed 10+2 exam with at least 45% in any stream are eligible for the admission in the course.	Admission fees: Rs- 1000 Tuition fees: 10000/- per semester	Set by the University
BCA	The course is of 3 years (6 semester) duration. Students passed 10+2 exam with mathematics as one of the subject from any stream are eligible for the admission in the course.	Admission fees: Rs- 1000 Tuition fees: 11000/- per semester	Set by the University
PGDCA	The course is of 1 year (2 semester) duration. Graduates from any recognized university are eligible for the admission in the course.	Admission fees: Rs- 1000 Tuition fees: 6000/- per semester	Set by the University

*Fees structure as per 2013-14 session

The details of the Teachers in the self-financed courses are given below:

Table 1.12: List of the Teachers in the Self- finance courses

Name of the Teachers	Educational Qualification	Salary
Pratul Kalita	MCA	Negotiable
Dhanjit Das	M.Sc (Computer Science)	-do-
Bandana Deka	M.Sc (Information Technology)	-do-
Arup Sarma	MCA	-do-
Nilanjana Deka	MBA	-do-
Nayan Deka	MBA	-do-
Dipen Mazumdar	M.Com	-do-
Rajib Deka	M.Sc (Mathematics), B. Ed	-do-
Himasri Sarma	MA (English)	-do-

1.3 Curriculum Enrichment:

1.3.1 Efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated

The College constantly motivates the departments to organize the programmes supplementary to the fulfillment of the University's curriculum. Each Department of the College accordingly organizes such supplementary programmes such as holding special talks delivered by subject experts (from the College or outside the College), inter departmental faculty exchange etc. which enrich the academic skill of the students. Inter-departmental activity is organized among faculty and the students on cross cutting issues to enrich the skills of the students. An Inter-departmental Activity Organizing Committee is constituted for the purpose. The

departments and the relevant committees of the College always try to devise the programmes with the objectives to integrate the goals and objectives of the institution along with the curriculum set by the University. Students are encouraged to take up projects on different topics and they are

The College every year conducts remedial classes under the UGC remedial course scheme. Although the scheme is meant for the students from backward classes, the College initiated to extend the benefits of such programme to all the students of the College since a good number of the students of the college belong to the economically poor family.

1.3.2 Measures taken up by the institution to modify, enrich and organize the curriculum to explicitly reflect the experiences of the students and cater to needs of the dynamic employment market.

The teachers of our College continuously communicate to the concerned bodies of the University responsible for the development of the syllabus about the learner's expectations and to modify or upgrade the syllabus according to the needs of the dynamic employment market.

To enrich the students according to the needs of the contemporary employment market, the institution organizes various career oriented programmes focusing on the grey areas through the Career Guidance Cell.

The College is offering two Career-Oriented Courses (Medical Laboratory Technician and Diploma in Travel and Tourism Management) with the seed-money from UGC. Another two self-financed Career Oriented Courses (Bachelor of Business Administration and Bachelor of Computer Application) are offered in the College to empower the students according to the needs of the contemporary employment market. Moreover two undergraduate programmes under the Bachelor of Vocational Courses (B.Voc.) on Food Processing & Quality Management and Software Development & System Administration approved and funded by UGC are going to be introduced from the session 2014-15.

1.3.3 Institutional efforts to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum.

The College undertakes multiple activities to integrate the cross cutting issues such as environmental education, gender, human rights, ICT etc.

Environmental study is offered in the College as an integral subject of the University curriculum. The College introduces a programme of maintenance of green diary by every student provided by the College during the time of admission under which each student has to plant at least three saplings in his homestead and has to maintain the record of nurturing the plant. The College rewards the best student at the end of the academic session for the excellence of green diary maintenance through which the College helps to promote the environmental awareness among the students. To execute the programme a committee is constituted by the College in every year in the name 'Committee for Environmental Concerns'.

The Women's studies Cell of the College undertakes various programmes i.e. holding street play on domestic violence against the women, blood donation camp, talks on health related problems, pink ribbon distribution in the neighbouring schools for awareness against breast cancer etc. to bring the awareness on various gender sensitive issues among the students as

well as in the locality. The College observes, 'International Women Day' every year by holding various programmes related to the gender issues.

To bring the awareness about the issues on Human Rights among the students as well as in the locality, the college hosted a seminar on Human Rights Awareness, on 11th November 2012, organized by the **National Human Rights Commission in collaboration with the State Human Rights Commission** and the District Administration of Kamrup District, presided over by the Chairman of the State Human Rights Commission and former Chief Justice of Jammu and Kashmir High Court Mr. Aftab Hussain Saikia where one of the faculty member of the College from the department of Political Science, delivered a lecture on **"Rights of the Women: issues and challenges"**.

To empower the students on the ICT, the College introduces the compulsory computer literacy classes for all the major students from the 2013-14 academic sessions. Two Faculties in contractual basis are engaged for the purpose.

1.3.4 Details of the various value-added courses/ enrichment programmes offered by the institution to ensure holistic development of students.

- a. moral and ethical values**
- b. employable and life skills**
- c. better career options**
- d. community orientations**

The College organizes a number of value-added/enrichment programmes for the enrichment of the students. A committee for Youth Empowerment and Value Education is constituted in the College to conduct the programmes.

The list of some special Value-added/enrichment programmes at the College organized in the last four years are:

Table 1.13: List of Value-added/enrichment programmes

Sl No.	Name of the Programme	Resource person/guest	Year
1.	Talk on 'Role of Newspaper and Journalism in Building Modern Society'	Dhirendra Nath Chakraborty, Eminent journalist	2009
2.	Two Blood donation camp in association With the NGO <i>Prakhyalan</i>	-	2010
3.	Jana Vigyan Mela	Dr. A.P.J. Abdul Kalam, Eminent Scientist and Former President of India	2010
4.	Yoga Camp, Resource person from Indian Army	Personnel from Indian Army, Red Horn Division	2010
5.	Yoga Camp in collaboration with Mohabahu Sangha (NGO)	Personnel from Mahabahu Sangha	2010
6.	Street play on Awareness on HIV/AIDS (Theme: Away!Away!HIV/AIDS)	Department of Education.	2010
7.	Programme On Vitamin A		2010
8.	Lecture on 'Ethics of Journalism'	D. N. Bezbarua, Eminent	2010

		journalist	
9.	5 days Volley Ball Coaching camp in the College	-	2011
10.	Kamrup district Inter-College Volley Ball competition	-	2011
11.	Students Seminar on 'Climate Change and Our Future' organized by the Extension Education Cell participated by the students from the feeder schools and students of the college	Dr. Nripendra Nath Talukdar, Department of Chemistry, Pub Kamrup College	2011
12.	AIDS awareness programme, organized by the Red Ribbon Club, PKC	Mr. suresh Deka, Department of Zoology, Dr. Dipak Konwar, Department of Botany, Pub Kamrup College	2011
13.	Street Play on 'Domestic Violence' organized by Women Studies Cell, PKC	-	2011
14.	World Forest Day and Earth Day organized by ' <i>Seuj Dharani Surakshita Dharani</i> '	Mr Harekrishna Haloi, Department of Geography, Pub Kamrup College	2011
15.	Talk on 'Mental Health in the Changing World-the need' delivered by	Dr. Jayanta Das, Psychiatrist, Guwahati	2011
16.	Lecture on Mental Health by Oisoriya Biswa Vidyalaya.	Resource personnel from Oisoriya Biswa Vidyalaya.	2011
17.	Programme on 'Legal Literacy classes & distribution of Legal Literacy books'	Resource personnel from Assam State Legal Services Authority, Govt. of Assam	2011
18.	Mock Parliament organized by the Debate and Symposium section Pub Kamrup College	-	2012
19.	Holding talk on 'Career Prospect in Higher Education'	Dr. Sasanka Deka, Department of Chemistry, Delhi University	2012
20.	Celebration of Gandhi Jayanti	Dr. J. Balaji, D.C. Kamrup, Assam Mr. F. Rahman Noted freedom Fighter, Kamrup	2012 And 2013
21.	Awareness programme on Human Rights organized by National Human Rights Commission in collaboration with State Human Rights Commission, Assam and District Administration, Kamrup	Justice Aftab Hussain Saikia, Chairperson, Human Rights Commission, Assam	2012
22.	Lecture delivered by on "Constraint in Self focus of the Assamese Youth in the National Perspective"	Prof. Jayanti Chutia, Scientist, Plasma Research Centre, Assam	2012
23.	Programme on 'Career Options'	Barnali Deka, IAS	2013
24.	District level Quiz competition entrusted by the State Government as a nodal College in the district on the occasion of <i>Gandhi Jayanti</i> .	-	2013
25.	Milad-E-Mehfil and Swaraswati puja	-	Every Year
26.	" <i>Safai Abhiyan</i> " (Cleanliness Drive) on the occasion of 'World Environment Day' organised by NSS unit of the College	-	5 th June Every Year
27.	Celebration of Republic Day and Independence Day	-	Every Year

Over and above the Departments of the College from time to time organize various value-added programmes attended by the eminent personalities coming across the country with an objective to ensure the holistic development of the students. The Departments constitute the Departmental organizations involving the students to hold such type of activities.

1.3.5 Institutional measures to use the feedback from stakeholders in enriching the curriculum.

Since the College is located in a rural area it is our prime objective is to transmit the knowledge of the academia for the socio-economic upliftment of the locality. Efforts are made by the institutions to enrich the curriculum internally best suited for the skill development apart from moldings the students for better citizenship. In this perspective the college thrives to integrate the ideas and feedbacks from the stakeholders with the curriculum by organizing various curriculum enrichment programmes. Institutional bodies like the Extension Education Cell (EEC), Career Guidance Cell (CGC), Women studies Cell (WSC), Inter Departmental Activity Organizing Committee (IDAOC), Youth Empowerment and Value Education Committee (YEVEC) etc. are constituted to organize various curriculum enrichment programmes in the College.

Specific inputs are communicated to the respective curriculum and syllabus designing committees of the Universities through the teacher representatives of the College for the necessary curriculum enrichment.

1.3.6 The institution monitors and evaluates the quality of its enrichment programmes.

The quality of the enrichment programmes and the overall curriculum transaction in the College are evaluated through feedback from the students, alumni and stakeholders. Threadbare discussions on the academic proceedings of the College are held in the Stakeholders and Alumni meet in the College and the proceedings of the meeting is duly communicated to the College authority for the better future planning and improvement. Considering the suggestions from the stakeholders the College initiates steps for introducing degree course on Food processing and quality management.

1.4 Feedback System

1.4.1 Institutional mechanism to obtain feedback from students and stakeholders on curriculum and measures through which the feedbacks communicate to the University and made use internally for curriculum enrichment and introducing changes/new programmes.

The teachers of the College continuously involved in the various committees on curriculum developments and implementations constituted by the University. However the curriculum for the UG courses is finally designed by the affiliating University.

The institution takes feedback from the students, alumni, stakeholders on the curriculum and the overall academic activities of the College. Feedback from the Stakeholders and alumni is obtained during the alumni and stakeholders meet held time to time. At the departmental level, the departments of the College take the feedback from the students and guardians on the curriculum transaction and communicate to the authority for further enrichment. Students are encouraged to share their experiences on the curriculum delivery in the department.

The feedbacks received from the students, stakeholders and the alumni are communicated to the respective Departmental committee on curriculum and syllabus development of the University by the teachers of the College who represents in the body.

Most of the teachers also look for feedback directly from the student during the class hours and appropriate steps are taken accordingly. Any student can contact the Principal directly for his or her feedback. To collect the feedback from the student an automated feedback mechanism has been installed in this year. Any student can register his feedback in the device by using his special card meant for this purpose.

Feedback received through the mechanisms are scrutinized and based on the feedback from the students, stakeholders and alumni the College is trying to introduce the vocational and skill development courses to enrich the students according to the needs of the contemporary job market. So far, the College introduces two career oriented add-on courses considering the needs of the present job market. In addition to that our College offers three self-financed professional courses (BBA, BCA& PGDCA) for the professional competence of the students.

The College developed a mechanism for the ICT skill development of the students. A compulsory computer literacy programme for the students from all the major classes is introduced from the academic session 2013-14. A sophisticated computer laboratory of 60 numbers of computers intake capacities, with all modern amenities is arranged in the College. Another computer laboratory infrastructure of 40 intake capacity is being developed, funded by the Indian Army of Red Horn Division, Changsari Camp under the Army Welfare Scheme. Steps are taken by the College authority to incorporate the feedbacks from the students, stakeholders, alumni and from the academic society of the locality in the academic planning of the institution which is proved to be helpful in curriculum enrichment.

1.4.2 Details of the new programmes/courses introduced by the institution during last four years and the rationale for introducing such courses/ programmes.

Being the rural College the most of the student comes from the marginalized family. Introduction of skill based career oriented courses are thought to be fruitful in placement of the outgoing and desirous students who does not opt for further studies. Our College therefore is planning to introduce more skill based courses in the College curriculum and already two skill based courses (MLT and TTM) are offered by the College from the session 2013-14. Some more UG courses of skill based in nature such as a) Food processing & Quality Management and b) Software Development & System Administration under Bachelor of Vocational Courses (B.Voc) approved and funded by UGC are going to be introduced from the session 2014-15.

Moreover a PG programme in new area of science i.e., Nano Science and Nano Technology is planning to introduce in our College and necessary approval is awaited from the concerned authority.

The new programmes introduced by the institution during last four years are as follows-

Table 1.10: List of new programmes introduced

Name of the Programme	Year of Introduction	Rationale of the Course
PGDCA		<ul style="list-style-type: none"> • To introduce it as a career.

	2010	<ul style="list-style-type: none"> • To enhance market oriented skill for job and self-employment. • To train-up the students for employment in industries, laboratories etc.
MLT	2013	<ul style="list-style-type: none"> • To introduce it as a career. • To generate skill among the students thereby empowering the students. • To convert the joint venture into establishing a Para-medical institute with the technical support from the NEMCARE Hospital, (North East Medical Care & Research Centre Private Ltd.) • To promote academic interest among the students for further studies and Research.
DTTM	2013	<ul style="list-style-type: none"> • To introduce it as a career. • To enhance the skill of the students to cater the job market in the related field. • To explore and exploit the local tourist potentiality. • To explore the prospects of the eco-tourism in the locality.

CRITERION-II

TEACHING, LEARNING AND EVALUATION

2.1 Student enrollment and Profile

2.1.1 Admission-Publicity, Transparency, Criteria and Process

The College follows a self regulation in receiving applications for admission into different courses. Our College publishes the admission notification in highly circulated regional Daily news papers, displaying notice board and banners, website detailing date of form issue, form submission and date of admission etc.

The Prospectus of the College reflects all the details about academic programmes offered, eligibility, admission process including fee structure and other aspects related to the admission process. The prospectus also provides a brief profile and facilities available in the College.

Admission forms and supporting documents submitted by the students are scrutinized thoroughly before admission and prepares merit list for admission. On the day of admission name of the applicants are announced in order of merit and enrolled accordingly. Reservations of seats for different categories are strictly maintained according to the government rules. The seats fixed for respective courses gets filled up on the day of admission.

2.1.2 Admission Process:

College Admission Committee' is formed well ahead of the admission schedule by the College authority. The Committee maintains the whole enrollment processes in a very judicious manner. The structure of the Admission Committee of the College is as follows-

- a) Advisor(s)- (i) President, College Governing Body
(ii) President, Stake holders committee
(iii) President, Alumni Association

b) Chairperson - Principal of the College

c) Convener- One faculty of the College

d) Members- Four faculty and four non-teaching staffs including Librarian

Necessary steps are taken to publicize the admission schedule well ahead of the admission through media, banner and notice board.

Table-2.1: Amount spent on advertisements for admission procedures

YEAR	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Amount in Rs.	6500.00	6900.00	7000.00	8000.00	21000.00

Every year the Admission Committee reviews the admission process and takes up necessary steps to make the process smooth and transparent. As the College is situated in a rural area a number of problems related to admission have to be tackled by the Admission

Committee. Mention may be made here that most of the applicants apply for the admission into various courses generally come from the economically marginalized family. Therefore the College encounters a number of admission cases related to financial aspects. The Committee in consultation with the College Authority tries its best for a justified solution of the cases and some cases take up for discussion and necessary steps are taken for further improvement.

Just after the admission process the student profile is preserved through software. Admission procedures of the self-financing courses- BBA, BCA, PGDCA, and Add-on courses- Travelling & Tourism management (TTM) and Medical Laboratory Technician (MLT) are executed by the respective Monitoring committees of the courses.

2.1.3 Marks at entry Level

Generally our College receives large numbers of application for different programmes and enrollment is done as per its intake capacity. There is no distinct cut off mark for admission in the College for both the stream. As per information no specific cut off marks are fixed for admission in other colleges of the District. The maximum and minimum marks of the student admitted in our College during the last four years are shown in the following table.

Table-2.2: Maximum and minimum marks of students of pub Kamrup College at entry Level.

Programme	Year	Marks at Entry Level in percentage			
		B.Sc		B.A	
		Maximum	Minimum	Maximum	Minimum
	2009-2010	78	45	82	41
	2010-2011	82	46	86	41
	2011-2012	81	47	85	39
	2012-2013	82	47	85	40
	2013-2014	85	50	82	45

Table-2.3: Marks at entry Level (subject wise)

Subject	Marks at Entry Level (%)		
	Session	Maximum	Minimum
English	2009-2010	82	55
	2010-2011	83	54
	2011-2012	85	53
	2012-2013	82	50
	2013-2014	80	53
Economics	2009-2010	73	41
	2010-2011	86	45
	2011-2012	78	39
	2012-2013	76	40
	2013-2014	74	49
Political science	2009-2010	72	47
	2010-2011	74	46
	2011-2012	82	51
	2012-2013	85	53

	2013-2014	79	49
Geography	2009-2010	78	50
	2010-2011	76	51
	2011-2012	75	52
	2012-2013	79	54
	2013-2014	77	51
Assamese	2009-2010	70	50
	2010-2011	60	55
	2011-2012	68	55
	2012-2013	80	55
	2013-2014	70	49
Philosophy	2009-2010	74	45
	2010-2011	79	46
	2011-2012	70	48
	2012-2013	80	48
	2013-2014	79	47
Physics	2009-2010	71	45
	2010-2011	64	46
	2011-2012	81	50
	2012-2013	75	64
	2013-2014	85	64
Chemistry	2009-2010	78	45
	2010-2011	82	47
	2011-2012	79	48
	2012-2013	82	48
	2013-2014	82	57
Botany	2009-2010	54	45
	2010-2011	67	49
	2011-2012	69	48
	2012-2013	68	50
	2013-2014	69	47
Zoology	2009-2010	70	54
	2010-2011	73	53
	2011-2012	74	47
	2012-2013	79	50
	2013-2014	78	49
Statistics	2009-2010	58	45
	2010-2011	74	57
	2011-2012	81	47
	2012-2013	63	48
	2013-2014	74	48
Mathematics	2009-2010	65	48
	2010-2011	67	50
	2011-2012	61	52
	2012-2013	63	51
	2013-2014	81	55

2.1.4 Review of the admission process and student profiles

The College admission committee reviews the admission process and student profile. When a number of applicants are less in particular subjects, policies are adopted to enhance the number by motivating the students for those subjects. On the other hand for subjects

having a high demand ratio, the committee suggests the authority to enhance the seat capacity. Efforts are made to increase the student enrollment in departments having low enrollment through counseling on the importance and scope of the subjects concerned and its impact. Special programmes are organized to motivate the students towards the specific subjects. Following programmes are organized in the College as a part of motivational programme-

Table 2.4: Some motivational programmes organized by the College

Topic	Name of the Resource person	Institute	Year
Popularization of Statistics and its application in different fields	Dibyajyoti Bhattacharjya	Deptt. Of MBA, Assam University, Silchar, Assam).	2012
a)Joy of proving and disproving and b)Who wants to be a millionaire?	Prof. S. Thangavelu	IISc, Bangalore	2012
Plant resource of Assam: its importance in traditional knowledge and modern science.	Dr. T.C. Sarma	Director level senior level scientist RRL, Jorhat.	2012
Application of Mathematics in different fields	Prof. Bhaba Kr. Sarma Prof Bhaben Ch. Kalita	Head, Deptt. Of Mathematics, IIT Gauhati Department of Mathematics GU	2012

Table 2.5: Increase in student number in particular major subject due to counseling

Department	Previous enrollment		Present enrollment (2013-14)
	2011-12	2012-13	
Mathematics	16	12	30
Statistics	04	02	20
Botany	04	30	32

Table 2.6: Increase in student number in different programmes due to counseling

Class	Session		
	2011-12	2012-13	2013-14
UG	646	690	760

Table 2.7(A): Programme wise Demand ratio

Sl. No	Programme	Year	Number of applicants	Number of students admitted	Demand Ratio
1.1	B Sc	2009-2010	71	64	1.11
		2010-2011	115	101	1.13
		2011-2012	226	200	1.13
		2012-2013	276	246	1.24
		2013-2014	416	294	1.41
1.2	B A	2009-2010	545	407	1.34
		2010-2011	577	426	1.35
		2011-2012	598	446	1.34
		2012-2013	613	450	1.36
		2013-2014	702	466	1.50

Table 2.7 (B): Students in Professional Course

Sl. No	Professional course	Year	Number of applicants	Number of students admitted
1	B C A	2010-2011	06	06
		2011-2012	05	05
		2012-2013	08	03
		2013-2014	06	02
2	B B A	2010-2011	06	06
		2011-2012	05	05
		2012-2013	08	08
		2013-2014	06	06
3	PGDCA	2011-2012	06	06
		2012-2013	21	21
		2013-2014	05	05

Table 2.7 (C): Students in Add-On Course

Sl. No	Programme related to Add-on Course	Year	Number of applicants	Number of students admitted
1	ADMLT	2013-2014	18	18
2	DTTM	2013-2014	21	21

2.1.5 Student profile reflecting diversity and inclusion

Admission policies are made by the admission committee depending on the students profile, Govt. and University rules. The committee thoroughly reviews the prepared list and takes necessary step for the benefit of every category of student in a reciprocal manner so that equity and social justice can be maintained. Free admission, book bank facility is provided to below poverty line (BPL) category students. *Gyan Kosh*, a Book Bank facility for meritorious students is also offered by the College. The College office ensures the scholarships for the deserving students and the concession and financial assistance are figured out by the respective committees for implementation. Following table reflects the Diversity and inclusion of various categories.

Table 2.8: Women/SC/ST, OBC/MOBC, BPL, Differently able, Minority, Extracurricular quota beneficiaries.

Session	Total Students (Entry Level)	Women	SC/ST	OBC/MOBC	Differently able	Economically weaker sections/BPL	Minority	EC (Sports & culture)
2009-10	471	316	30	108	-	02	61	-
2010-11	527	349	49	107	-	05	104	-
2011-12	646	322	47	152	-	07	112	-
2012-13	690	349	43	207	01	04	131	-
2013-14	760	420	68	201	01	08	145	01

2.1.6 Trend of enrollment across the programme offered

Number of student entry in Science stream is witnessed to be in increasing trend from the last few years. More over the College authority has organized some programmes aiming at the student fraternity from motivational perspective.

- Invitation of eminent personalities to the College like eminent scientist Dr A P J Abdul Kalam, Dr S Thangavallu etc.
- Organization of various science based programme like Jana Bijan Mela, Science Quiz, Science Exhibition, Model Competitions etc.
- Workshop like teaching learning mathematics at school level
- Motivational and awareness programme among school students of the feeder schools to encourage the students for pursuing mathematics and science education in their higher studies
- Seminar on Popularization of Statistics and its application in different fields
- Introduction of new skill based courses.

Pub Kamrup College maintains a high demand ratio in humanities from last several years.

Different motivational value based programmes, awareness camp, etc. are held time to time through different cells like- Career Guidance Cell, Women Study Cell, etc. which encourage and attracts the students for pursuing their higher study in the College in different programmes.

Table-2.9: The increasing trends of student enrollment in various programmes (in Major Course)

Subject	2009-10		2010-11		2011-12		2012-2013		2013-14	
	Forms submitted	Student Admitted	Forms submitted	Student Admitted	Forms submitted	Student Admitted	Forms submitted	Student Admitted	Forms submitted	Student Admitted
Assamese	115	38	120	40	125	60	212	80	188	50
Botany	01	01	03	02	04	01	05	03	32	27
Chemistry	10	10	20	18	35	33	45	39	60	51
English	24	12	26	13	28	15	38	31	28	15
Education	95	46	103	50	112	50	124	57	130	55
Economics	41	41	63	53	44	43	42	42	39	35
Geography	25	17	35	22	27	17	28	22	47	32
History	35	30	55	50	63	55	60	40	75	50
Mathematics	18	7	20	9	25	20	30	13	59	30
Physics	32	26	42	22	50	40	61	48	88	54

Philosophy	116	35	108	40	121	40	116	40	142	40
Political	51	32	65	40	85	45	75	40	92	54
Statistics	6	6	6	6	4	4	2	2	25	20
Zoology	17	13	35	14	95	37	99	43	104	47

2.2 Maintenances of Diversity of seats

2.2.1 Catering the needs of the differently- able students

The College has a provision to admit the differently able students to pursue their courses in UG level. The classes of differently able students are generally arranged in ground floors. Their fellow students are always very cooperative to them in their regular activities. The visually disabled students are provided with separate arrangement for examinations using amanuensis.

A special project proposal has been submitted to UGC under the XII Plan, for benefit of the differently able student under the following two heads:

- For special steps and special toilets
- For visually challenged students material

2.2.2 Assessment of the students' needs in terms of knowledge and skills

Orientation lecture is arranged for the new students and guardians on the days of admission to familiarize with the systems, rules and regulations of the College before the admission process starts. In a way to assess the knowledge and skill levels of the newly admitted students, every department of the College takes introductory classes and gives necessary orientation to the students. Each department maintains new students' database in the form of attendance register. Necessary hints about the scientific facility, provisions and rules of the College are given to newly admitted students coming from +2 levels from different feeder schools.

Central Library conducts two special orientation classes about the operational procedures and opportunities available in the library for the new comers just after the admission process is over.

2.2.3 Strategies to bridge the knowledge gap of the enrolled students

Remedial Classes are conducted under the UGC Remedial Course scheme meant for the students of backward classes, but the College initiates to extend the benefit of this programme to the general students as well belonging to the economically backward classes and to bridge the knowledge gap of slow learners.

2.2.4 Sensitization of staff and students on gender, inclusion, environment issues

* Our College is offering co-education system; hence gender biasness is less among the students, staff and stakeholder.

* The College bears record of leading the student community by girl student as General Secretary, and girl students hold different portfolios of the Students Union of the College.

* Participation in activities (curricular & co-curricular) in and outside the College campus is inclusive in nature.

* Environmental sensitization is a part of syllabus of UG courses.

* Maintenance of a 'Green Diary' by each student has been made mandatory by the College where the students maintain the record of their involvement in environmental works and activities throughout the year.

* Celebration of Environment Day and mandatory plantation agenda before selected functional events of the College every year.

2.2.5 Identification and response to special educational/learning needs of advanced learners

Advanced learners are identified through the student's profile and selection process. The departments use different methods to categorize the students. Some more ways to identify the advance learners are-

- Model classes by students
- Seminar lecture
- Assignments
- Writings for wall Magazine
- Classroom performance
- Performance in various internal and external tests/ examinations

Outgoing outstanding advanced learner is recognized by displaying their names in the respective departments and the names of extra-ordinary advanced learners are displayed in the Principal's room.

Faculties always encourage the advanced learners to participate seminars/ workshops held in the College. The College authority provides facilities to advanced learners for joining different competitions outside the College.

Students having advance learning capacity are selected and are motivated and guided to apply in various advance level academic programme. Special classes are arranged for the

advance learner by the individual teacher through discussion with the students in the convenient time. Students can approach any teacher during the working hours for the quest of their knowledge.

Computer literacy programme is made mandatory for major student.

Special mechanism for teaching and guidance to advanced learners from the session 2014-15.

Objective- Exploration and acceleration of their inherent potentiality.

- All major students of each department are considered as advance learners.
- The students of each semester are grouped comprising of suitable numbers as per the availability of teachers.
- Expertise will be searched and made available in particular cases from inter departmental and other institutions.
- One faculty will be assigned to each group so that the assigned teacher might be the friend philosopher and guide of the students of the respective groups
- Continuous observation on the learners’ performance.
- To provide additional study material to the learners.

Table 2.10: Advance level academic programme participated by the student

Sl No	Name of the Student	Department	Programme attended	Institution	Funded by	Year
1	Harun Al Rashid	Physics	Summer Research Fellowship Programme	Jamia Millia Islamia, New Delhi	IAS, Bangaluru & NSA, New Delhi	2012
2	Manashi Bharadwaj	Botany	Summer School	Tezpur University		2012
3	Seemasri Deka	Mathematics	Mathematics Training and Talent search programme	IIT, Guwahati	National Board for Higher Mathematics	2011
4	Kabita Deka	Physics	Summer Research Fellowship Programme	Bharathidasan University, Tiruchirappalli	IAS, Bangaluru & NSA, New Delhi	2013

2.2.6 Collection, analysis and use of the data and information on the academic performance of the students at risk of drop out

Student comes from the marginalized family generally shows the highest risk of dropout. However other factors may also compels the students for discontinuing their studies. Every department of Pub Kamrup College maintains the record of the students’ performance on the basis of the marks they obtained in various internal examinations. Students vulnerable to drop out are identified and necessary steps are taken to motivate the student to continue his /her study. Steps taken -

- Financial assistance by the individual teacher
- Counseling by individual teacher

- Special class for slow learners
- Rental & Conveyance allowance
- Book bank facility

Pub Kamrup College maintains a low drop-out rate. Though the College is surrounded by a greater locality of various disadvantaged sections like low income, ethnic and religious groups vulnerable to high dropout rate, the College through its strategic measures, has been able to keep the drop-out rate at bay. Following table depicted the drop out number of last four years -

Table 2.11: Drop-out rate of the College in the last five years

Session	Arts			Science		
	Enrolled	Appeared in university examination	Drop-out	Enrolled	Appeared in university examination	Drop-out
2009-10	407	388	19	64	56	08
2010-11	426	411	15	101	89	12
2011-12	446	425	21	200	184	16
2012-13	450	435	15	246	218	24
2013-14	466	445	21	294	268	26

Various reasons have been identified behind the drop-out cases–

- Financial hardship
- Change of residence
- Switch over to other curriculum
- Illness
- Employment
- Ethnic clashes
- Slow learners

2.3 Teaching-Learning Process

2.3.1 Planning and organization in teaching, learning and evaluation schedules

As the Pub Kamrup College is affiliated to Gauhati University, it follows the syllabus, academic calendar and holiday list of the University. Depending upon these the teaching programmes of the College are scheduled and executed. The Principal constitutes a committee for preparation of annual class routine.

The Routine Committee prepares the College class routine in the beginning of every academic session. Every department prepares the teaching plan in their departmental meeting and distributes the allotted classes covering the course content among the faculty members. The Faculty members arrange their routine in such a way that at least one faculty member may be available in the department during the College working hours as far as possible.

The course content and lesson-plan allotted to individual faculty is intimated to the learners at the beginning of the classes.

The College internal examination committee conducts internal examination centrally as per the University guide line. Moreover internal evaluation of the students is also based on unit test, home assignment, projects preparation and seminars conducted departmentally.

2.3.2 Contribution of IQAC in improving the teaching –learning process

The College IQAC through Principal takes the daily progress report from each and every faculty members in a prescribed format. The cell collects the Self- appraisal of the teachers to know about their strength and weakness and after thorough discussions, suggestions are intimated to the respective faculty. Coordinator and other members of IQAC keep contact with the teacher incharge of the College students' Union body and chalk-out problems faced by the students and recommended for solution to the authority. The members of the IQAC cell invite guardians, students of each department randomly to know about teacher's performance and the matter is intimated to the teacher through the Principal, for taking necessary steps to overcome the shortcomings. The IQAC identifies the innovative and time demanding courses and in consultation with the authority prepares projects for submission to concerned funding agencies. Moreover the cell collects the information related to teaching -learning of the departments and general requirements of the College and place the matter before the Principal for implementation.

The Coordinator attends seminar related to IQAC activities and visits reputed institutes to gather up-to date knowledge about NAAC guidelines, best practices, and modern learning resources. The Coordinator has initiated to take part in Students Parliament of India attending *3rd Indian Students Parliament* with a group of students of the College held at Pune, Maharashtra in the Month of August, 2012.

2.3.3 Support structures and systems available for teachers to develop skills for collaborative and independent learning among the students

- The primary objective of the departments is to make the subject matter clear for the learners while interpreting and implementing the curriculum.
- The lecture-delivery is bilingual, especially in the textual context for clarity of the subject-matter and overall involvement of the learners. This generates interest in the text and helps them to respond to the context.
- As far as possible the class room dynamics is kept flexible so that there is enough room for queries, clearing of doubts, supplement reference to the lecture from the students, and also inviting queries that necessitates the authority of the teachers in the subject-matter. Special care is taken for Advance learners.
- Most of the general classrooms are equipped with the black/ green-board, while use of audio- visual devices in the class is also in practice.
- The facilities offered by the central and departmental library and are easily accessible for any student as well as faculty of the College.
- The syllabi encourage the practice of optimal learning through interaction, team-working and provoking ideas. A platform for greater motivation of learning is designed and provided through thought provoking classes to invite more students' participation and cross analysis. Though greater concentration is given in completing the voluminous syllabi, this methodology is applied to major classes only in a lesser scale.
- Home & class assignments are frequently followed, apart from the scheduled College sessional test, class unit test, seminar presentation for assessment of learners with or without prior announcement. To develop the collaborative and independent learning departmental Projects are assigned to the students making different groups with slow and advance learners. Abstracts of interdisciplinary summer research projects are

invited from the students of science stream of our College from this session (2014-15) to develop research skill among the students. The research projects will be monitored by the Institutional Biotech hub of the College.

- Students are encouraged to meet the teachers in the department to clear their doubts and solve problems on any academic matters and library affairs during the working hours of the College.
- The record of Student attendance is maintained in each class for identification of the irregular students and wherever discrepancy is noticed, concern student calls for explanation and further corrective measures are taken in consultation with the guardian. The faculties of the respective department convene open sessions through Teacher Unit to incite suggestions, grievances and confusion. Solutions are taken through discussion and forwarded to the authority for implementation.

2.3.4 Nurturing of critical thinking, creativity and scientific temper among the students

- College nurtures the Students' critical and creative thinking through College magazine, departmental magazine and wall magazine. Three departments publish departmental publication to foster the knowledge of the student.
- Exhibitions organized in the College, and visits to different research centers, laboratories in and outside the state create scientific temperament amongst the students. In addition to these our College organizes science programme like 'Jana Bigyan Mela' etc. The departments arrange educational tours every year for the students of TDC classes (major) to different places of historical and natural importance, higher educational and research & development institutions (regional and national), apart from the compulsory field visits & studies.
- The syllabus has the facility for nurturing critical thinking and creativity and scientific temper of all students through various support systems like project preparation on environmental studies and also students of major courses of all departments prepare project under the guidance of faculty. Our College library provides facilities of different avenues to the student-
 - Journals in science and humanities
 - Popular local & National Magazines
 - Daily and weekly local & National news papers
 - E-journal facility
 - Open access journal
 - E-books
- Mock parliament, debate competition, quiz competition, art competition and general election of students union organized in the College every year, are also the platform for nurturing critical thinking and scientific temperament
- Interaction with the scientists and eminent personalities from various fields, visiting the College helps the student to satisfy their intellectual quests.

Table 2.12: Some eminent personalities' visit to the College

Name	Year of visit
Dr. A.P.J. Abdul Kalam, Eminent Scientist and Former President of India	2010
Prof. S. Thangavelu, IISC, Bangalore	2012

Prof. S. Pattanayak, Former Director, Institute of Mathematical Science and Application, Bhubanewar	2014
Prof. Gautam Baruah, Former Director, IIT G	2010
Prof. Gautam Biswas, Director, IIT G	2014
Prof. Amarjyoti Choudhury , Former Vice Chancellor, Gauhati University, Pro Vice Chancellor, Tezpur University	2012
Prof. Dhrubajyoti Saikia, Vice Chancellor, Cotton State University	2013

Table 2.13: Some academic tours conducted by different departments

Department	Places	Year
Assamese	NEHU, Shillong	2012
English	NEHU, Shillong	2012
Economics	Tezpur University	2012
Education	NEHU, Shillong	2012
Geography	Planetarium, Indian Museum, National Library- Kolkata Science Centre, Digha	2012
History	Sibsagar	2012
Philosophy	Tezpur University	2012
Political Science	NEHU, Shillong	2012
Botany	National Research Laboratory on Pig, Rani, Guwahati	2014
	Nameri National Park	2013
	Birla Science and Technology, Jaipur	2012
	TERI, New Delhi	2012
Chemistry	Tezpur University	2012
Mathematics	Science city, Saha Institute of Nuclear Physics - Kolkata	2012
Physics	Institute of Plasma physics, Sonapur, Assam	2011
	IIT, Guwahati	2012
	Saha Institute of Nuclear Physics- Kolkata	2012
Statistics	Science city, Saha Institute of Nuclear Physics -Kolkata	2012
Zoology	Sundarban Biosphere Reserve, West Bengal	2012
	National Research Laboratory on Pig, Rani, Guwahati	2014

In 2013, to foster critical thinking and creativity, a book '*Bhraman*' compiling all the experiences gathered by the visiting groups of departments from the educational visits was published by the grant received from the Govt. of Assam.

2.3.5 Technologies and facilities available and used by the faculty for effective teaching

Pub Kamrup College encourages the use of modern teaching aids in the class room teaching-learning process. Multimedia projectors, smart boards, internet facilities are used by the faculties in the classes, seminars, workshops and hands on training. The faculties and students of major classes can access to internet at any time in the departments. Teachers use computer facility in teaching- learning process.

In 2013, a special computer laboratory attached to the PKC Library has been established where all the departments may arrange at least one class for major students in a day using computer and other multimedia facility. N-LIST programme of INFLIBNET is made available for the Faculty to enrich the knowledge.

Table 2.14: List of ICT based Teaching Aid

Sl. No	Name of equipments	No of equipments
1	Computer set	85
2	Laptop	06
3	Internet connected computer	80
4	LCD projector	06
5	Smart board	04
6	OHD projector	02
7	Audio system	05

Beside these facilities, the Bio-Tech Hub laboratory facilitates the research scopes for students and intending researchers of biological sciences where sophisticated laboratory apparatus are installed.

2.3.6 : Students and faculty exposed to advanced level of knowledge and skills

In addition to regular access of ICT facilities, E-resources and different journals and News papers, the teacher participates in refresher courses, seminars, workshops and conferences to keep touch with recent advancement in respective subjects. The faculty members participate and present paper in international, national and regional seminars and take up minor research projects and engage themselves in academic research works. Inter-departmental activity organizing committee organizes popular lecture among the teachers and students to share advance knowledge of different fields and subjects.

For enhancing knowledge and skill Pub Kamrup College always motivates the enthusiastic student to engage themselves in research work and advance level courses. Central Library and departmental library procures Books on newer area and recent editions regularly for the teachers and students.

Table 2.15: Seminar/ workshop/ popular talk organized by the College

Level	Title of the workshop/training/sensitizing programme	Funding/Collaboration
National	Workshop on Motivation generation towards mathematics among the students of middle and secondary level	DST, Govt. of India

	Workshop on Application of allied sciences(Physics, Chemistry, Mathematics, Computer Science) in life-science study	Department of Biotechnology (DBT), Govt. of India
	Environmental Pollution : Management and Planning with Spl. Ref. to N. E. India	UGC
	National Seminar on Indigenous scientific knowledge (ISK) With special reference to Assam	Pub Kamrup College in Collaboration with Assam Science Technology and Environment Council, Govt. of Assam.
College	Hands on training on molecular biology with special emphasis on PAGE and PCR	IBH
	Workshop on Basic concepts and techniques of histology	IBH
	Workshop on Basic Biochemical and Molecular Biological Techniques Used in Biotechnology	IBH
	Workshop on Tools and Techniques used in Biotechnology and Molecular Biology with special emphasis on Protein Chemistry, Drug Designing and Immunological Techniques	IBH
	Seminar on Mental Health in the changing world	Navajyoti Bhattacharya Memorial Trust
	Seminar on: Plant resource of Assam: its importance in traditional knowledge and modern science.	Deptt. Of Botany
	Application of Mathematics, Popular lecture	Deptt. Of Mathematics
	Joy of proving and disproving, Popular talk	Deptt. Of Mathematics
1. Lecture on 'DNA' delivered by Mr. Suresh Deka, Asso Prof, Dept of Zoology	Inter Departmental Acitivity Organising Committee	
2. Lecture on 'Comparative Literature' delivered by Mr. Montu Saikia, Asst Prof, Dept of English		
3. Lecture on 'Economics of Happiness' delivered by Dr. Nripendra Nath Talukdar, Asso Prof, Dept of Chemistry		
4. Lecture on 'Parasite in fresh water Fishes' delivered by Dr. Kamal Sarma, Asso Prof. Dept. of Zoology		
	Orientation programme for NSS volunteers	NSS unit

2.3.7 Academic, personal and psycho-social support and guidance services provided to students

- **Personal counseling**

In Pub Kamrup College, teachers play the role of counselor to help the students through counseling in one to one mode with the objective to generate self analysis, and improve their thoughts, behaviour, feelings and the way in which these might pose as problems in their lives.

In November, 2010 the Pub Kamrup College Library and Department of computer Science, jointly organized a Popular Talk, for the benefit and awareness of the students, on 'Interpersonal Skills and Conflict Management' where Professor Mukulesh Barua, Professor & HOD, Department of Business Administration, GIMT, Guwahati deliberated as Resource Person.

- **Academic Counseling**

The College authority and the faculty members offer necessary suggestions to the students for their academic benefit. Departmental committees and forums regularly conduct meetings to extend helping hands to the students in Academic problems.

- **Career counseling**

There is a Career Counseling and Guidance Cell which guides and instructs the students about all possible opportunities and competitive exams etc. Various Career oriented programmes have been organized under the aegis of the Cell of the College.

Table 2.16: Various programmes under Career Counseling and Guidance Cell

Sl.No	Year	Programme Name	Resource person/Organization	Organizer
1	2009	Career Advancement Programme	ICA, Panbazar, Guwahati	CCGC
2	2009	Counseling for allied health degree course	Down Town College of Allied Health Service, Guwahati	CCGC
3	2010	Counseling for Information Technology	NIIT, Chandmari, Guwahati	CCGC
4	2011	Legal literacy classes & distribution of legal literacy books	Assam State Legal Services Authority	CCGC
5	2011	Orientation programme on semester system	Dr. Sanjay Dutta, Gauhati University	CCGC
6	2011	Career Counseling	Trident Institution of Corporate Services	CCGC
7	2012	Career prospecting higher education	Dr Sasanka Deka, Associate Professor, Department of Chemistry, Delhi University	CCGC
8	2012	How to face Civil Service examination	Mrs Barnali Deka, IAS	CCGC

In March, 2014, Pub Kamrup College Library & Career Guidance Cell of this College hosted a one day workshop on career Counseling & IT Workshop for the degree students in collaboration with JETKING, Guwahati centre.

- **Psycho-Social Counseling**

For the psycho-social counseling of the students, the College organizes programmes time to time.

Each and every programme meant for the student has the psychological and social impact. However numbers of programmes organized by the College are directly related to both the context.

** In 19 November 2011, esteemed consultant Psychiatrist Dr Jayanta Das delivered a thought provoking lecture on the topic 'Mental Health in the Changing World- the Need'. This programme was held under the banner of "Navajyoti Bhattacharyya Memorial Trust" (NBMT) where the students addressed their problems they face in their day to day socio-academic life. Dr Das analyzed their problems and counseled those who face any psychological problems. He also prescribed tips for mental health and stress-burn.*

**In April, 2014 a workshop on stress management for adolescence student held at Pub Kamrup College. This day long programme has been organized by Women study Cell, PKC in collaboration with School of Humanities, Assam Don Bosco University, Assam.*

2.3.8 Innovative teaching approaches/methods adopted by the faculty

The College invites some subject experts of various disciplines for sharing their expertise in particular area by deliberating on selected topic for the benefit of the students of the concerned area. Some departments of the College conduct Student exchange programme in and outside the campus amongst students (inbound and outbound). This demands self-analysis and enquiries, acquainting students to areas of concern needing improvement, and share those experiences where they excel. Some departments organize lecture programme to be deliberated by the students on course related topic. Group discussions, interdepartmental lectures organized by IDAOC and interdepartmental faculty exchange are some other methods of teaching.

In addition to those Multimedia projectors, smart boards and other allied devices are used in innovative teaching learning process. Other than black board teaching computer is used in some special topics.

2.3.9 Use of library resources to augment the teaching learning process

The Central Library of Pub Kamrup College is the center of knowledge and learning. The relevant collection of library resources in the form of books, journals, magazines etc. both in printed and electronic forms are utilized by its user community i.e. students & teachers inside the library as well as issued against library card. The Library has open door access facility at any time of the working hours. Students are also encouraged to use the Central Library even in their vacation period too. For reference sources-encyclopedia, dictionary, year book etc; reference books related to the demand of the departments; different subject-related journals, the Library is sought for guidance of notes on the topic. This is the regular practice of the departments to foster and improve knowledge of the learner. The curriculum of semester system where the project work, assignment, seminar paper, dissertation, group discussion is mandatory, the library resources are frequently explored.

The reprographic facility available in the college library comes of immense use in the teaching learning process as the reference sources are solely usable inside the library.

The question paper preserved in the question bank of the Library serves to acquaint the students to the question pattern of the university examination.

The computer cum e-resource centre annexed to the library building facilitates computer education as well as audio visual teaching to advanced learners.

2.3.10 Challenges encountered in completing the curriculum

The challenge which is frequently encountered is the scarcity of teaching staff and the radical change in the curriculum pattern encouraging activity and project based syllabus makes it difficult to cover the voluminous theoretical units by the limited staff.

The most challenging factor is the parallel conduct of annual system with the newly implemented semester system. Moreover, the responsibility of higher secondary course has been borne by the College, on demand of Government and socio-academic situation, tolls on the syllabus of UG classes.

The vernacular background of the admitted students, necessitating bilingual teaching is a time consuming factor impeding the completion of the syllabus on time.

To overcome the above mentioned challenges, the following measures are taken.

- To meet scarcity of teaching staff, guest lecturers are appointed time to time.
- Additional classes over and above the routine ones are taken for completion of the syllabus as far as possible.
- Missed classes are compensated through special classes.
- Special class routines are prepared and followed during the time of different examinations hours to continue the spirit of the classes to the non-examinees.

2.3.11 Monitoring and evaluation of the quality

i. Quantitative teaching record of individual faculty is ascertained through chits, submitted to the Office of the Principal on daily basis. It also records the non-teaching activities of the faculty. Matter comes directly to the principal related to feedback of the students are discussed in the proper forum for necessary measures.

ii. Qualitative progress of teaching and learning is assessed by the IQAC through learners' feedback, as well as from consultation with guardian, monitored by the authority.

iii. Quality of a student is assessed through different methods-

- Interaction in the classes
- Group discussion
- Home assignment
- Seminar paper presentation
- Participation in different events in the College
- Reading habit in the Library
- The internal assessment and sessional examination conducted during a particular semester period

These help the departments to undertake conscious measures for the weaker and advanced learners through special classes.

2.4 Teacher Quality

2.4.1 Strategies adopted for the planning and management

UGC and State Government norms are strictly followed for appointment of teachers in sanctioned post. Necessary advertisements for the posts are done through print media. Specialization, merit and experience form the criterion of selection. Faculty in self finance courses, Add- on courses and need base guest faculty in Govt. aided courses are appointed by the management on contract basis. Qualified guest faculties are appointed by the management on payment of salary approximating their output, subject to hike for retention of efficient and quality faculty.

Table 2.17: Faculty Profile of the College

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	--	--	--	--	--	--	--
Ph.D.	--	--	08	02	01	03	14
M.Phil.	--	--	00	00	06	03	09
PG	--	--	13	01	05	05	24
Total	-	-	21	03	12	11	47
Temporary teachers							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	05	03	08
Part-time teachers							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--			
PG	--	--	--	--	08	12	20

2.4.2 Coping up with the new programmes/ modern areas

To cope up with the new/modern areas, the faculty members attend different workshops, training programmes etc. organized by the College itself or organized by the institute of higher learning. The College authority deposes faculty members to attend short term as well as long term courses in newer and relevant areas. Some of such programmes are summarized below -

Table 2.18: Faculty members deputed to higher institute to pursue knowledge on new/modern areas

Name of the faculty	Institute	Area	Session
Dr B. K. Dev Choudhury	SINP, Kolkata	General Relativity and Cosmology	2010
Dr J. Saikia	Gauhati University, Assam	Simulation and data analysis techniques	2009
	Gauhati University	Embedded system design for scientific application	2013
Dr M. Barthakur	NBRC, Maneswar,	Neurology	2013

	Haryana		
Dr. Dipak Konwar	TERI, New Delhi	Bio Technology & Tissue Culture	2012
Ayez Ali	Dept. of Geography, Gauhati University	Remote Sensing & GIS	2014
Dr. U. J. Medhi	Cotton College, Guwahati	Advance Instrumental Techniques (Analytical chemistry)	2013
Dr N. J. Choudhury	Department of Physics, Cotton College,	Electronics and Computer Laboratory Applications	2011
Namita Kalita	Gauhati University	Recent Advances in Mathematical Statistics and its Application	2012
Rina Deka	IASST Guwahati	Recent Trends in Mathematical and Computational Sciences	2012
Pratul Kalita	Assam Engineering College, Guwahati, Assam	High Performance Computing	2012
Dr. Nripendra Nath Talukdar	Tezpur University	R C in IT	2001
	JNU	R C in EVS	2006
Atwar Rahman	Tezpur University	R C in IT	2001
	JNU	R C in EVS	2006
Mahananda Kumar Pathak	Tezpur University	R C in IT	2001
	JNU	R C in EVS	2006
Dipshikha Bhuyan	Gauhati University	Workshop on communicative skill	2006
Dr Kamal Sarma	JNU	Refreshers in EVS	2006
Nirmal Ranjan Mazumdar	Gauhati University, Guwahati	Microsoft India's Workshop on empowerment of teacher on ICT	2011

Table 2.19: Invited Talk, Demonstration and lectures on newer areas organized in the College

Name of the invitee	Institute	Topic	year
Dr. Jayanta Das	Psychiatrist, Guwahati,	Mental health in the changing World-the need	2011
Dr. Sujit Deka	Associate Professor Geography; Pandu College, Guwahati	Remote Sensing and Application of GIS in Geography.	2011
Dr. Dipak Kumar Baruah, Economist	University of Brighton, London.	Public Administration	2012
Dr. Limpon Bora Department of Molecular Biology and Biotechnology	Tezpur University, Assam	Protein and enzyme purification from bacteria	2012
Dr. Pranjan Barman , JRF, Gauhati University Biotech Hub	Gauhati University, Assam	Protein separation by SDS-PAGE method	2012
Dr. Pankaj Chetia Department of Life science and Bioinformatics	Assam University, Silchar	The computer aided drug designing	2012
Dr. Jogen Chandra Kalita	Guwahati University	Phytoestrogen	2012

Department of Zoology			
Dr Bula Chaudhury & Dr Madan Gopal	Gauhati Biotech Park	Entrepreneurship development in Biotechnology	2012
Prof. Bhaba Kr. Sarma,	Deptt. of Mathematics, IIT Guwahati	Application of mathematics in different field	2012
Prof. S. Thangavalue	IISc, Bangolre	Number theory	2013
Dr Utpal Bora, Coordinator, Biotech Hub & Associate Professor	Deptt. of Biotechnology, IIT Guwahati.	Basics and techniques of recombinant DNA technology.	2013
Dr Aniruddha Sarma, Coordinator, Institutional Level Biotech Hub & HoD	Dept of Biotechnology, Pandu College, Guwahati.	Techniques of Biotechnology	2013
Dr Divyajyoti Bhattacharya	Deptt. Of Statistics, Assam University, Silchar	Application of statistics	2013
Rituparna Sarma	Deptt. of Zoology, Gauhati University	Basics in Genomics, PCR with special reference to PCR primer and its designing	2013
Prof. Swadhinananda Pattanayak	Former Director, Institute Mathematical Science and Application, Govt. of India, Bhubneswar	Differential Equation	2014
Prof. Bijoy Kr. Dev Sarma	North Eastern Hill University, Shillong	Motivation generation among the students towards mathematics	2014
Dr Dilip Sarma	Deptt. of Mathematics, Cotton College, Guwahati	Mathematics education	2014
Dr Tarakeswar Choudhury	Deptt. of Mathematics, Cotton College	Set and numbers	2014
Dr Bhim Prasad Sarma	Tezpur University	Recreational Mathematics	2014

Qualified Guest Faculties are engaged to meet the demands of newer areas in different departments.

Table 2.20: Guest Faculty members engaged in different department to meet the demands of newer areas

Name of the Guest Faculty	Department	Specialized area
Dr Sharmistha Aich Srivastav	Academic Advisor, MLT & DTTM	Anthropological Biology
Pankaj Kalita	Institutional Biotech Hub	Biotechnology & Bioinformatics
Arup Sarma	Computer Science	Image processing & data mining
Krishna Deka	Botany	Biotechnology & Bioinformatics
Babul Ali	Physics	Electronics

2.4.3. Staff development programmes

- Deputation of faculties to various training programmes, teaching-learning method, handling new curriculum.

- Introduction of modern teaching learning materials.
- Participation in external workshops/seminars/conference conducted or organized by professional agencies.
- Most of the faculty members have opted for Refreshers and Orientation Programmes organized by UGC and ASC, which ensures adequate up-gradation in their respective domains.
- The Inter Departmental Activity Organizing Committee (IDAOC), inviting lectures on various academic areas in participation of all the faculties (Arts & Science) is an important bench mark to ensure updated knowledge consciousness.
- The various Cells, committees are formed to involve the faculties in curricular and co curricular activities.

Table 2.21: List of faculties participated in RC/OC programmes in last four years

Sl. No.	Name	Academic Programme (RC/OC/ Short term)	Duration	Venue	
				Outside the state	Inside the state
1	Rina Deka	RC	30 th August – 18 th September, 2010	Himachal Pradesh University	
2	Namita Kalita	RC (2)	21 st Dec – 10 th Jan, 2009 21 st Feb – 13 th March, 2011		Gauhati University
3	Suresh Deka	RC	16 th February -8 th March, 2009		Gauhati University
4	Lohit Chandra Deka	RC (2)	16 th February -8 th March, 2009 22 nd June – 12 th July, 2009		Gauhati University
5	Dipen Bezbaruah	RC (2)	30 th August – 18 th September, 2010	Himachal Pradesh University	Gauhati University
6	Montu Saikia	RC (2)	16 th Feb – 7 th March, 2012 4 th – 24 th December 2013	1) Benaras Hindu University 2) Burdwan University	
7	Nripendra Deka	RC	5 th Dec – 25 th , 2010		Gauhati University
		OC	17 th May – 13 th June, 2010		
8	Imdad Ali Ahmed	OC	13 th May-8 th June, 2013	Himachal Pradesh University	

9	Dadul Dewri	RC	30 th August – 18 th September, 2010	Himachal Pradesh University	
10	Khanindra Das	OC	2 nd - 29 th May, 2011	North Eastern Hills University	
11	Khagen Das	RC	2 nd -22 nd January, 2013	University of North Bengal	
		OC	19 th April – 16 th May, 2010	North Eastern Hills University	
12	Barnali Deka	RC	4 th – 24 th December, 2013	Burdwan University	
13	Dr. Dulumani Deka	OC	17 th Oct – 13 th Nov, 2011		Gauhati University
		RC	4 th March – 24 th March, 2013		
14	Nayanmoni Barua	RC	4 – 24 th December, 2013	Burdwan University	
15	Babita Das	OC	24 th January- 20 th February, 2011		Gauhati University
		RC	8 th April – 2 nd May	Jawaharlal Nehru University	
16	Dr Dipak Konwar	RC	28 th Feb- 20 th March, 2013	Guru Nanak Dev University	
		OC	24 th Jan- 20 th Feb, 2011		Gauhati University
17	Diganta Kr Rabha	OC	21 st Dec 2009- 10 th January, 2010		Gauhati University
18	Ayez Ali	RC	15 th Feb- 8 th March, 2011	Mizoram University	
19	Dr Khagesh Sen Deka	STC – III	6 th – 10 th September, 2010		Gauhati University
20	Nirmal Ranjan Mazumdar	RC	2 nd – 23 rd September, 2012	North Eastern Hills University	

Table 2.22: Faculty attending seminar/workshop/as resource person

Faculty (%) As resource person in conference/ seminar/	Faculty (%) Attended conference/ seminar/	Faculty (%) Presented paper conference/ seminar/
--	---	--

workshop	workshop		workshop	
	International	National	International	National
17	21	62	32	66

Table 2.23: Different Training Programmes organized by the College

Programme	Resource person	Year
Awareness programme on Human Rights	a) Aftab Hussain Saikia, Ex- Chief justice of Jammu and Kashmir High court b) Dadul Dewri, Assistant professor, Dept. of Political Science, Pub Kamrup College	2012
Seminar on Climate change and our future	Dr. Nripendra Nath Talukdar, Associate Professor, Department of Chemistry, Pub Kamrup College	2011
Implementation of Assessment and Grading system in Gauhati University Examination System	Dr. Sanjay Kr. Dutta, Deputy Director, Pre Training Centre, Gauhati University	2011
Selection and use of modern teaching tools	Mr. Navarun Misra, Director, S.S. Technologies	2012

2.4.4 Policies/systems to recharge teachers

Support for research and academic publications: Teachers are always encouraged to participate in various academic activities as Paper Presenter, Resource Person, Key Note addresses etc. The outcomes of which are projected in academic publication. Interested teachers are always granted appropriate support in terms of time, space and finance as is possible.

Table 2.24: No. of Faculties availed Leaves/Supports etc. in last four years

Programmes	No of Faculties	Duration
Faculty Improvement Programme (FIP)	03	3 Years
DBT Sponsored National Associateship	01	6 Months
Summer Research Programme	01	2 months
Refresher Course (RC)	19	21 Days
Orientation Programme (OC)	08	27 Days
Short Term Course (STC)	03	07 Days
Active Research	27	Academic leave granted and duty adjusted as and when necessary.

2.4.5 Awards / recognition / performance/achievement of the faculty

- Dr Balendra kr Dev Choudhury completed a Summer research project in SINP, Kolkata funded by Indian Academy of Science, Bengaluru
- Dr N N Talukdar, Associate Professor of Department of Chemistry of the College got the patent (Patent No. 222135) jointly with Dr Dibakar Ch Deka, Prof., Department of Chemistry, Gauhati University.

- Dr Manash Barthakur, Associate Professor, Department of Zoology, received the DBT sponsored National Associate ship during 2013-14.

2.4.6 Evaluation of teachers

- Qualitative progress of teaching is assessed through learners' feedback taken through interaction and open session, as well as from the guardians' meet held time to time.
- The students' performance in a particular unit in the semester examination conducted during a particular semester session is also considered as one of the parameters to evaluate the teachers' ability to generate the required interest.
- To make the teachers' evaluation system more scientific, the College is going to install an automated feedback mechanism for students to evaluate teachers, using computer from May, 2014.
- The Inter Departmental Activity Organizing Committee (IDAOC) invites faculty to deliver lectures on various academic areas in presence of all the faculties (Arts & Science) which is an important bench mark to ensure updated knowledge consciousness.
- The teachers always accept the students' feedback positively and try to modify themselves accordingly.

2.5 Evaluation Process and Reforms

2.5.1 Process to make the students and faculty aware of the evaluation processes

The College prospectus includes the general rules and pattern followed in the University examination as well as evaluation system in detail.

Orientation is provided to the fresher at the commencement of the course by respective departments. This is further highlighted in the general fresher's meet and the department fresher social.

Besides, the students are suggested to visit affiliated university website regularly for any notification related to the Evaluation Process and Reforms. All important information of that kind is displayed on the College notice board to intimate the students.

Notice on any changes in the evaluation process are circulated to every department to ensure and adopt the pattern accordingly over and above encouraging the faculties to participating in workshops and programmes organized for orientation by the academic agencies.

2.5.2 Evaluation reforms

- Gauhati University introduced CIA system under CBCS pattern from the academic session 2011-2012. As Pub Kamrup College is affiliated to this University, the CBCS pattern has been followed in the College from 2011.
- The College prefers to take the responsibility entrusted by Gauhati University of answer scripts evaluation zone of different final Examinations and end semesters with an objective to expedite faculty's quality, sharing knowledge and experience, engaging them in evaluation processes.
- The College keeps all the examination Halls under the purview of close circuit camera to check all kinds of malpractices.

2.5.3 Implementation of the evaluation reforms

The Gauhati University organizes workshop on CBCS/ CIA pattern for the Principal and teachers of the affiliated College for awareness and acquaintance of this new pattern.

The Principal of the College has been invited as Resource Person to various workshops on CBCS/ CIA pattern by the GU.

The College also organizes such programmes for the students and faculty members time to time.. In 2011, a workshop was held where Dr Sanjay Dutta, Deputy Director, Pre-Examination Training Centre, GU was invited as Resource Person in one of the programmes initiating the course.

2.5.4 Formative and summative assessment of students' achievement

The CIA test conducted by the departments' provides formative assessment of the individual learners' progression. These help to priorities areas requiring conscious effort of improvement, and highlight the best for inspiration of the rest.

The summative assessment is reflected in the final output and gives evidence of the positive impact of the formative method adopted.

The admission of some passed out students in coveted institutions for higher educational pursuit indicates the success of the formative and summative assessment of the College as indicated in the table:

Table 2.25: Some passed out students' achievement

Name of the student	Course undertaken	Institute
Biraj Kakati	Post Doctoral	Imperial College, London
Bipul Deka	Doctoral Degree	IIT G
Kamal Dutta	Doctoral Degree	IIT G
Bhabesh Hazarika	Doctoral Degree	IIT Karagpur
Bijumoni Rajbonshi	Doctoral Degree	Tezpur University
Anowar Hussain	Doctoral Degree	Tezpur University

2.5.5 Rigor and transparency in the internal assessment

Transparency in internal assessment is ensured through the following measures-

- Internal assessment test are conducted on a strict vigil by the assigned invigilators as well as close circuit camera installed in all examination halls to check all kinds of malpractices
- The entire process of compiling, submitting and printing of question papers is done confidentially in the College Press.
- Students can verify their evaluated answer scripts for self assessment and may request to respective department for re-evaluation if they are not satisfied with the marks obtained
- The behavioral conduct of a student is primarily assessed by the regularity of student attendance maintained mandatorily.
- Seminar Paper / Project presentation/assignments are taken as the measuring scale of knowledge and skill of a student.

2.5.6 Graduate attributes

The vision of the college ascertains the direction of its focus on its mission.

- The qualitative aspect is ensured through various curricular & co-curricular programmes engaging mass students participation
- . Special drive has been made for skill development by introducing some need base skill development programmes
- The number of students pursuing higher study in different university reflects the institutional vision
- Alumni elected to State Assembly, holding highest academic position as Dean, Faculty of University, pursuing research in Imperial College, London, K E K, Japan, IIT G and Kharagpur and rendering service as Administrative officer, Faculty of colleges, Doctors, Engineers reflects some positive results.

2.5.7 Mechanisms for redresses of grievances

Mechanism for evaluative grievance redress

- The stakeholders are intimated to the evaluative grievance and redress mechanism at the commencement of the course.
- The tentative date and time for holding sessional examination for internal assessment is announced through the prospectus and display of the programme in the Notice-board much ahead of the schedule.
- All departments ask their students to go through their evaluated answers scripts of sessional examination and may request for re-evaluation if felt necessary.
- The affiliating university GU has the provision of re-examination of answer scripts .The examinee can apply for re-examination of answer scripts within a stipulated period of time
- College fraternity can avail the opportunity to place their grievances through the Drop- Box provided for the purpose to be redressed by the concerned committee.

2.6. Student performance and Learning Outcomes

2.6.1 Learning outcomes

The University prescribed curriculum indicates learning outcomes measured through:

- Academic Result
- Participation in Higher study.
- Placement in different fields.

The students and teachers are made aware of these through highlighting top results in the yearly published College Magazine and News bulletin, offering special felicitation, awarding merit awards to the meritorious students and displaying outstanding results in the Principal's chamber and respective departments. Moreover the alumni meet held time to time generate awareness to the students and faculty about the outcome.

2.6.2 Monitoring of the progress and performance of the students' results/achievements

The College has an Academic monitoring cell, which conducts students evaluation of teachers and intimate the same to the Principal and he pursue the matter with the concerned teacher through the Head of the Department and gives necessary direction. To make this

evaluation system more scientific, the College is going to install an automatic feedback mechanism for students to evaluate teachers, using computer from May-2014.

The learning progress is evaluated through internal test, sessional examinations, seminar, home assignment, group discussion and external Examinations etc.

Table 2.22: Programme wise pass percentage

Session	BA		BSc		HS (Arts)		HS (Science)	
	PKC	GU	PKC	GU	PKC	AHSEC	PKC	AHSEC
2009-2010	72.2	62.38	76.8	76.79	72.6	68.66	95.00	85.15
2010-2011	73.00	74.33	82.35	82.35	79.13	73.14	85.25	87.32
2011-2012	85.77	72.79	82.5	83.88	77.50	70.23	81.91	85.5
2012-2013	71.4	76.77	62.26	81.28	71.88	70.11	69.00	83.82

Table 2.23: Outstanding results of different departments

Subject	Examination	Year	University Rank	Remark
Physics	B.Sc	2008	1 st class 1 st with distinction	Male
			1 st class 3 rd with distinction	Male
		2010	1 st class 2 nd with distinction	Male
		2012	1 st class 1 st with distinction	Male
			1 st class 5 th with distinction	Female
2013	1 st class 5 th with distinction	Female		
Geography	B.Sc	1998	1 st class 1 st	Female
		2012	1 st class 2 nd position	Female
		2013	1 st class 4 th position	Female
	B.A.	1999	1 st class 3 rd	Female
		2000	1 st class 1 st with distinction	Male
		2001	1 st class 1 st with distinction	Female
		2007	1 st class 2 nd position	Male
Philosophy	B.A.	1999	1 st class 1 st	Female
		2000	1 st class 4 th position	Female
		2001	1 st class 1 st with distinction	Female
		2001	1 st class 3 rd with distinction	Female
		2002	1 st class 2 nd with distinction	Female
		2008	1 st class 5 th position	Female
Education	B.A.	1990	1 st class 1 st position	Male
Assamese	B.A.	2013	1 st class 3 rd	Female
			1 st class 5 th	Female

2.6.3 : Teaching, learning and assessment strategies

The teaching plan is based on the following points for quality teaching learning and evaluation.

- Introductory class talk on the scope and importance of the subject to make the student interested.
- Information to the students about the chapters and units of the syllabus to be discussed.
- Provide information/ study material of the topic.
- Inspire students for interaction.

- Daily issue of books from the Departmental Library.
- Guide students to the Central Library.
- Encourage students for presentation of the topic already taught in the black board.
- Use of modern tools available.
- Unit Test
- Seminar, Project works
- Home assignment
- Group Discussion
- Student Exchange Programme
- Educational Excursion.
- Remedial classes
- Sessional Examination
- Semester/Final Examination.

2.6.4 : Measures/initiatives taken up by the institution to enhance the social and economic relevance

The initiatives taken up by the College to enhance the social and economic relevance and research aptitude are:

- BIOTECH HUB-It is a cluster of facilities for biotech research, training, collaboration and manufacturing biological, pharmaceuticals and food products. The aim of the biotech hub is to attract young talents to pursue career in Life Science.
- MLT (Medical laboratory Technician)-Skill based add-on course for regular UG students ((Science) studying in the College to pursue career in Medical Technology.
- TTM (Tourism and Travel Management) - Skill based add-on course for UG students studying in the College to pursue career in Tourism Industry.
- BBA/BCA/PGDCA- These are skill based graduate courses to develop skill in the field of entrepreneurship.
- PROJECT WORKS- On different Socio-Economic and Scientific Issues.
- Two courses on B Voc to be introduced from the session-2014-2015.approved and funded by UGC under Community College Scheme.

2.6.5: Student performance and learning outcomes

The Heads of the Departments keep the data of individual students at the entry level and collect the data of last Semester/ Final examinations results, and the comparative analysis is made. Special counseling is provided to overcome their difficulties. Tutorial and remedial classes are taken for students needing extra attention.

2.6.6: Monitoring and ensuring of the achievement of the learners

The Principal of the College requests all the Heads and senior most faculties of the respective departments, immediately after the published of the results to prepare a consolidated report to gauge the performance of the students' subject wise, to be placed in the meeting of the faculty members convened by the Principal. Any deviations from mean performance in other subject and respective University, departments are asked to justify the same. Further they are asked to take appropriate corrective measures including authority's support if and when necessary.

2.6.7: Assessment/ evaluation outcomes as an indicator for evaluating student performance

The College uses different measures to evaluate the student's performance as-

- Internal Assessment through – Sessional examinations, seminar paper presentation on syllabus concern topic, Project work, Group discussion, Blackboard interaction etc.
- Skill based evaluation through different co-curricular activities in different fields through the participation in the college week, University Youth Festival and different District and State level inter college competition.
- University Examination based evaluation.
- Alumni achievement

Table 2.24 (A): Performance of the Outgoing students

Name of the student	Course undertaken	Institute
Biraj Kakati	Post Doctoral	Imperial College, London
Bipul Deka	Doctoral Degree	IIT G
Kamal Dutta	Doctoral Degree	IIT G
Bhabesh Hazarika	Doctoral Degree	IIT Karagpur
Bijumoni Rajbonshi	Doctoral Degree	Tezpur University
Anowar Hussain	Doctoral Degree	Tezpur University
Jugal Lahkar	Qualified IIT JAM, 2010	-
Sejoy Boro	Qualified IIT JAM, 2012	IITG
Jyotika Kachari	Qualified IIT JAM, 2014	-

Table 2.24 (B): Number of rank holders of the University Examination

Year	UG	
	BA	B.Sc
2010	07	03
2011	25	07
2012	28	15
2013	25	12

Table 2.24 (B): Some of the alumni placed in different fields

Name	Position
Dr Hitesh Deka	Ex Member of Legislative Assembly, Dean, K.K. Handique State University
Dr Sasanka Deka	Assistant professor, Department of Chemistry, Delhi University
Dr Nityananda Deka	Assistant Professor, Department of Geography, GU
Mr. Bhabesh Deka	Scientist, Tea research centre, Jorhat
Mr. Ranjit Deka	Civil Administrative Officer, Assam
Mr. Hemen Sarma	Principal, Madhya Kampith College

CRITERION III

RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Research center

Pub Kamrup College can have the self confidence to establish the research centre facilities in the college campus since some of the faculties of different departments became able to generate research culture through their own department in spite of prevailing limitation. It is matter of encouragement that a modern science block of 4 story- provision is under construction. A Rupees of one crore state Govt. grant is received in this regard. This year, the departments of Botany, Chemistry, Physics and Zoology have applied to Gauhati University for laboratory recognition as research centre. The laboratories of the four Departments are already enriched with the Star College Scheme funded by DBT, Govt. of India. Moreover an Institutional Level Bio-tech Hub has been set up in the College with financial assistance from the Department of Bio-Technology, Govt. of India where research facilities to register Ph.D. scholars and hands-on- training to the students have been provided. The Hub is equipped with PCR, Spectrophotometer, Cryostat microtome, Rotary evaporator, Soxhlet apparatus, Refrigerated centrifuge, Electrophoresis, Laminar Air Flow, Autoclave, Hot air oven, different types of Microscope, BOD Incubator, Deep freeze (up to -20⁰c), etc.

3.1.2 Research and Publication Committee- Composition and Recommendations

The College has a Research and Publication Committee (RPC) comprising Principal (as chairperson), faculty members with research experience and the Librarian. The present committee, which was constituted in 2013, has 8 faculty members, Librarian and a SRF. In addition to this each department has a Departmental Research Committee (DRC) constituted as per the UGC guidelines to look after the research project proposals and selection of research scholars for research projects.

The objectives of the RPC and DRC are:

- To motivate the faculty members towards research and facilitate as well as monitor the research activities of the faculty members.
- To examine and provide suggestions for improvement of the research project proposals submitted by the faculty members.
- To monitor the research projects funded by different funding agencies like UGC, DBT, DST etc.
- To make a bibliographic control on the research publication of the faculty members.
- To motivate the students towards research.
- To maintain the ethics of research.

Besides, each department has a Department Level Research Committee (DRC) to look after the research project proposals and selection of research scholars for different research projects.

3.1.3 Institutional Measures to Facilitate Research

The College authority extends full support to the teachers to acquire higher qualification and competence in their respective fields. Two faculty members of Assamese and Physics department of our College has been recognized as Ph.D Guide by Gauhati University and one faculty member of Zoology department by Down Town University. Provisions of leave are made by the management for newly registered Ph.D scholars for necessary research works and to attend the Course work necessary

for Ph.D degree. Accordingly for those pursuing part time research work, our College offers support through work arrangement and exemption from extra-curricular duties.

Table 3.1.A: Seminar/workshops/ conference attended by the faculty Members

INTERNATIONAL IN ABROAD					
Sl. No.	Name of the participant	Seminar/ workshop/conference	Organizer	Activity performed	Year
1	Dr B K Dev Choudhury, Principal	28 th International Cosmic Ray Conference (ICRC)	IUPAP, Tsukuba, Japan	Paper presented	2003
		30 th ICRC	IUPAP, Merida, Mexico	Paper presented	2007
		31 st ICRC	IUPAP, Lodz, Poland	Paper presented	2009
		32 nd ICRC	IUPAP, Beijing, China	Paper presented	2011
		33 rd ICRC	IUPAP, Rio de Janeiro, Brazil	Paper presented	2013
2	Dr Chitralekha Talukdar, Associate Professor, Department of Physics	8 th Asian Thermo physical Properties Conference	Kyushu Univ. Fukuoka, Japan	Paper presented	2007
3	Dr Julie Saikia Associate Professor, Department of Physics	23 rd ICRC	IUPAP, Calgary, Canada	Paper presented	1993
		24 th ICRC	IUPAP, Rome, Italy	Paper presented	1995
		28 th ICRC	IUPAP, Tsukuba, Japan	Paper presented	2003
		30 th ICRC	IUPAP, Merida, Mexico	Paper presented	2007
		31 st ICRC	IUPAP, Lodz, Poland	Paper presented	2009
		32 nd ICRC	IUPAP, Beijing, China	Paper presented	2011
		33 rd ICRC	IUPAP, Rio de Janeiro, Brazil	Paper presented	2011
INTERNATIONAL WITHIN THE COUNTRY					
Sl. No.	Name of the participant	Seminar/ workshop/conference	Organizer	Activity performed	Year
1	Aditya Ch Deka Associate Professor Department of Geography	International Seminar on Land use, Biodiversity and Climate Change”	Dept of Geography, Cotton college.	Paper represented	2010
2	Dr B K Dev Choudhury, Principal	29 th ICRC	IUPAP, Pune, India	Paper presented	2005
3	Dr Chitralekha	6 th Asian Thermo	Gauhati	Paper	2001

	Talukdar, Associate Professor, Department of Physics	physical Properties Conference	University	presented	
4	Dr Julie Saikia Associate Professor, Department of Physics	ICNAP	IIA, Bangaluru	Paper presented	1994
		29 th ICRC	IUPAP, Pune, India	Paper presented	2005
5	Dr Navajyoti Choudhury Associate Professor Department of Physics	International Conference	(IUAC), New Delhi	Paper presented	2012
		ICANN	IIT G,	Paper presented	2011
		ICFANT	Jadavpur University, Kolkata-700032	Paper presented	2010
		SHIMEC	IUAC, New Delhi	Paper presented	2010
6	Dr. Khagesh SenDeka Associate Professor, Department of Assamese	International seminar on Genres of Belief from Folkloristic Perspective	USTM in collaboration with University of Tartu	Presented	2013
7	Montu Saikia, Assistant Professor, Department of English	International Seminar on “Genres of Belief From Folkloristic Perspective”	USTM	-do-	2013
8	Dr Dipak Konwar, Assistant Professor, Department of Botany	International Conference on Harnessing Natural Resources for Sustainable Development: Global Trend	Cotton College State University	-do-	29-31 January, 2013
9	Atwar Rahman, Associate Professor, Department of Statistics	International conference- Recent Trends in probability and statistics: Theory and Application	Gauhati University	-do-	2012
10	Md. Ayez Ali, Assistant Professor, Department of Geography	International seminar on Land use, Biodiversity and Climate Change	Dept of Geography, Cotton college	-do-	/2010
11	Dipen Bezbaruah, Assistant Professor, Department of English	International Seminar on Genres of Belief from a Folkloristic Perspective	USTM, Meghalaya	-do-	2013
		International seminar on Tradition Identity and Diversity: the Future of Indigenous Culture in a		-do-	2011

		Globalised World			
		International workshop on Teaching English Language Skills	Sonapur College	-do-	2011
12	Dr Kalpana Misra Assistant Professor Department of Mathematics	International Conference on “Recent Advances in Mathematical Statistics and its Application in Applied Sciences”	Gauhati University,	-do-	2012
13	Nayanmoni Baruah, Assistant Professor, Department of Assamese	International seminar on: Supernatural Elements in the Folk-tales of Assam with special reference to <i>Lakshminath Bezbarooah’s Burhi Air Sadhu</i>	University of Science and Technology, Meghalaya, India	-do-	2013
14	Dr. Paresh Ch. Kalita, Associate Professor, Department of Botany	International conference on harnessing national resources for sustainable development: Global trends	Cotton College, Guwahati.	-do-	2014

Table 3.1.B: Summary of papers presented/ attended by faculty in Seminar/ Conference/ Workshop of International/ National/ State level

Sl No	Name of the faculty	Paper presented			Seminar/ Conference/ Workshop attended		
		International	National	State	International	National	State
1	Dr. B. K Dev Choudhury, Principal	5	1	1	1	2	-
2	Dr C. Talukdar	3	-	-	-	-	5
3	Dr J. Saikia	9	2	2	1	4	-
4	Dr N. Choudhury	5	7	-	-	3	4
5	Dr K. S. Deka	1	5	4	-	5	1
6	Ms. B. Deka	-	-	-	-	11	-
7	Dr D. Deka	-	9	1	1	4	-
8	Ms. N. Baruah	-	-	-	1	3	4
9	A. Kalita	-	-	-	-	-	1
9	Dr N. N. Talukdar		1	-	-	-	1

		-					
10	Dr. U. J. Medhi	-	1	-	-	-	-
11	K.N Sarma	-	-	-	-	2	-
12	H. K. Haloi	-	-	1	-	-	-
13	A. Deka	1	-	-	-	-	-
14	D. Rabha	-	-	-	-	1	2
15	A. Ali	-	2	-	1	8	-
16	H Saharia	-	-	-	-	1	1
17	Dr P. Ch Kalita	2	3	-	-	4	-
18	Dr D. Konwar	2	3	-	-	1	-
19	Ms D. Bhuyan	-	1	-	-	6	-
20	D. Bezbaruah	2	6	-	-	2	2
21	M. Saikia	-	5	-	-	5	-
22	A. Rahman	1	2	-	-	-	-
23	N. Kalita	-	-	-	1	-	4
24	N. Goswami	-	2	-	-	1	-
25	K. Das	-	9			4	
26	Dr K Sarma	-	4		1	6	
27	S. Deka	1				1	
28	L. Deka	-	-	-	-	-	3
29	Dr M. Borthakur	2	5	1	1	6	2
30	J. Ch. Sarma	-	2	-	-	3	-
31	H. Kakati	-	1	-	1	-	-
32	K Bhagabati	-	1	-	-	2	-
33	M. Pathak	-	-	1	-	1	-
34	Ms R Deka	-	2	-	-	11	-
35	Ms K Misra	1	6	1	-	-	1
36	D. Dewri	-	5	-	-	-	-

37	Khanin Das	-	-	2	-	-	3
38	Ms H Devi	-	11	-	-	-	-
39	Ms B Das	2	2	-	-	3	3
40	Ms A. Dutta	2	8	-	-	2	-
41	P. Kalita	-	1	-	-	1	-
42	N. Deka	-	1	-	-	-	2
43	I. Ali	-	2	-	2	-	2
44	N R Mazumdar, Librarian	2	18	-	-	3	6
Total		41	128	14	11	106	47

The Faculty members have full autonomy in carrying out research projects. Fund transferred to the College Account by the funding agency is disbursed to the researcher accordingly. Timely submission of utilization certificates to funding agencies is a regular practice.

The College has been maintaining a healthy practice of arranging interdepartmental talk for exploring new avenues at a regular interval under Inter Departmental Activities Organizing Committee (IDAOC).

Table 3.2: Interdepartmental Activities

Sl.No	Topic	Resource Person	Year
1	Gene, the hereditary unit	Suresh Deka, Associate Prof. Dept. of Zoology	2012
2	Comparative Literature: the Indian context	Montu Saikia, Asstt. Prof. Dept. of English	2012
3	Parasites in fresh water fish	Dr. Kamal Sarma, Associate Prof. Dept. of Zoology	2013
4	Economics of Happiness	Dr. Nripendra Nath Talukdar, Associate Prof. Dept. of Chemistry	2013

3.1.4 Efforts to develop Research Culture among staff and students

Though the College is an UG level college, there is sincere effort to develop research culture among the staff and students. Since student research projects are a part of UG curriculum, laboratory facilities, books and journals are available in the departments for this purpose. College library is also endowed with relevant books and journals. The department of botany, Zoology and Geography offer facilities for project work through field studies. Students are taken for visits to research centers and industries to motivate them towards research. Field visits of the students are funded by the College management. Paper presentations by the students are organized by most of the departments. The students of the Botany department are engaged in scientific naming of the trees in the campus for sensitizing students about the importance of conservation of plants. Various departments utilize students' research aptitude and practical skills in conducting exhibitions in the annual Youth Festival. Establishment of DBT sponsored Institutional Level Biotech Hub (IBH), implementation of DBT sponsored Star College Scheme, arrangement of invited Talk by renowned persons of different field

of research, arrangement of Student Seminar, etc. are some of the efforts to develop research culture among staff and students. Faculty members are encouraged to attend seminars, workshops, summer schools, etc. organized by different institutes and the College itself. To boost up the research activities among the students Institutional Biotech Hub of our College organized a one month duration research and training programme with an institutional research grant.

The authority encourages the Faculty members to undertake minor and Major research projects. Seventeen numbers of faculty members have completed and five faculties are undergoing UGC Minor research projects.

A project proposal of “Science & Technology for Women” under “Women and Nutrition”, DST, has been submitted to DST, Govt. of India. The **Project Title** is “Study of Malnutrition among the Bodos Tribes of Assam, an Anthropological and Biochemical Approach”, is intended to carry out to study the malnutrition in the north-east part of the country, especially among Bodo tribes of Assam.

Since, the project has a multi-disciplinary approach of Bio-Medical Anthropology and Biotechnology, an attempt has been made to combat the problems of malnutrition and open a channel for future research. It is an encouraging feature that an understanding is made with Aavinira Biotech Pvt. Ltd., Kinetic Innovation Park, Pune, to be facilitated in this direction.

Moreover, an expression of interest to initiate ‘A Policy Research Centre’ is submitted to DST, Govt. of India as per the advt. published by DST.

Table 3.3: Students in house Projects (Micro-level Research)

Sl. No	Department	Name of the student/ Semester	No. of Projects	Year
1	Geography	6 th Semester	04	2014
2	Zoology	6 th Semester	19	2014
3	Assamese	4 th Semester	07	2014
4	Pol. Science	2 nd Semester	01	2014
5	Statistics	6 th Semester	01	2014
6.	Mathematics	6 th semester	06	2014
7.	Physics	6 th semester	04	1998 onwards
8.	Philosophy	6 th semester	03	2014

3.1.5 Faculty involvement in active research

Three faculty of the College have been recognized as the Ph.D guide. One of them is guiding eight Ph D scholars (two scholars already awarded Ph. D). All Total twenty one faculty members have under taken thirty two numbers of UGC funded minor research project. At present there are four numbers of ongoing UGC funded minor research projects in the College. One of the faculty members has collaborative research activity with National Brain Research Centre (NBRC), Manesar, Haryana and other one with Institute of Advance Studies in Science and Technology (IASST). A list of faculty members actively engaged with research activities is given in the following table.

Table 3.4: Faculty registered as research guides

Name of Guide	Center of Research	Area of Research
Dr. Khagesh Sen Deka	Gauhati University	Assamese
Dr. Balendra Kr. Dev Choudhury	Gauhati University	Mathematics
Dr Manash Barthakur	Assam Down Town University	Zoology/ Biotechnology

At present, Dr. Deka is supervising eight scholars in his capacity. Since Dr. Dev Choudhury and Dr. Barthakur are new in their assignment, their scholars are yet to be registered.

Table 3.5: Teachers actively involved in research

Sl.No	Name of the teacher	Department	Broad Areas
1	Atwar Rahman	Statistics	Curve Estimation
2	Dr. Nilima Dutta	Statistics	Population Dynamics
3	Barnali Deka	Assamese	Language
4	Nayanmoni Baruah	Assamese	Literature
5	Dadul Dewri	Pol. Science	Ethnic Conflicts
6	Khanin Das	Pol. Science	Ethnic Conflicts
7	Hemashri Devi	Pol. Science	Erosion and Social consequences
8	Narayan Goswami	Economics	Small Industry
9	Khagen Das	Economics	Rural Economy
10	Babita Das	Education	Folk Culture and Education
11	Aradhana Dutta	Education	Educational Development
12	Dr Manash Barthakur	Zoology	Diabetes and Neurology
13	Dr Paresh Ch Kalita	Botany	Plant Taxonomy
14	Dr Dipak Konwar	Botany	Soil Microbiology
15	Dr Navajyoti Choudhury	Physics	Nano Science
16	Dr Julie Saikia	Physics	Cosmic radiation and Nuclear Physics
17	Dr Kamal Sarma	Zoology	Fish Parasites and Ornamental Fish
18	Dr N N Talukdar	Chemistry	Analytical inorganic Chemistry
19	Dr U J Medhi	Chemistry	Environmental Pollution
20	Dr Chitralekha Talukdar	Physics	Thermo-dynamical behaviour of different fibres
21	Dr B K Dev Choudhury	Physics	Cosmology and Nonlinear Dynamics
22	Dr K S Deka	Assamese	Language
23	Dr Dulumoni Deaka	Assamese	Literature
24	H K Haloi	Geography	Human Resource Development
25	Dr Kalpana Misra	Mathematics	Ring theory
26	Dwipen Bezbaruah	English	Superstition
27	Montu Saikia	English	Literature and Language
28	Jiban Ch. Sarma	Philosophy	Vaishnavism

3.1.6 Workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students

Numbers of sensitization programmes in terms of workshop and training funded by different agencies are organized time to time by the College for capacity building and imbibing research culture among the student.

Table 3.6: Seminars/Workshops organized for capacity building in terms of research

Level	Title of the workshop/training/sensitizing programme	Funding/Collaboration	Amount Spent	Year
National	Workshop on Motivation generation towards mathematics among the students of middle and secondary level	DST, Govt. of India	6,65,380/-	2014
	Workshop on Application of allied sciences(Physics, Chemistry, Mathematics, Computer Science) in life-science study	Department of Biotechnology, Govt. of India	1,00,000/-	2013
College	Hands on training on molecular biology with special emphasis on PAGE and PCR	IBH	16,500/-	2014
	Workshop on Basic concepts and techniques of histology	IBH	20,000/-	2013
	Workshop on Basic Biochemical and Molecular Biological Techniques Used in Biotechnology	IBH	18,000/-	2012
	Workshop on Tools and Techniques used in Biotechnology and Molecular Biology with special emphasis on Protein Chemistry, Drug Designing and Immunological Techniques	IBH	19,500/-	2012
	Seminar on Mental Health in the changing world	Navajyoti Bhattacharya Memorial Trust	15,000/-	2011
	Seminar on: Plant resource of Assam: its importance in traditional knowledge and modern science.	Deptt. Of Botany	10,000/-	2011

3.1.7 Prioritized research areas and the expertise available with the institution

As the College is situated in a rural area with rich cultural and biological diversity, so the College gives emphasis mainly on issues related to the locality. Some of the research areas and expertise available in the College highlighting the relevant issues along with the other topics is given in the following table-

Table 3.7: Research areas and expertise on various fields

Sl. No	Department	Priority area of Research
1.	Assamese	Language and Literature, Folk culture
2.	Botany	Plant Taxonomy, Soil Microbiology
3.	Chemistry	Analytical chemistry, Ecology, Environmental Pollution
4.	Computer Science	Software Development
5.	Economics	Small industry, Rural economy
6.	Education	Educational Development, Folk Culture
7.	English	Superstition and Folklore Study
8.	Geography	Geo-Environment and Human Resource Development
9.	History	Historical Movement (Peasant Movement of Assam)
10.	Mathematics	Algebra/ Ring Theory
11.	Political Science	Ethnic Conflict and social consequences
12.	Philosophy	Religion
13.	Physics	Relativity, cosmology, High Energy and Nano Physics
14.	Statistics	Population Dynamics and Estimation of Curve
15.	Zoology	Fish Parasites, Neurology and Ornamental Fish

3.1.8 Efforts of the institution attracting researchers' eminence to visit the campus and interact with teachers and students

The College is proud to have the gracious presence of eminent scientist and Former President of India, Bharat Ratna Dr APJ Abdul Kalam in a Jana Vigyan Mela organized jointly with Assam Science Technology and Environment Council (ASTEC) during February, 2010 in the College campus. The College always tries to invite renowned personalities of different field to interact with the teachers and students to motivate them for attaining higher goals. Some of the renowned personalities, who visited the College in the last four years in different occasions and interacted with the teachers and students, are shown below-

Table 3.8: Visits of Renowned personalities to the College

Name of the Guest & Designation	Session
1. Prof. Amarjyoti Choudhury, Pro Vice Chancellor, Tezpur University and Former Vice Chancellor, Gauhati University,	2011
2. Dr Tarun Ch Sarma, Director ranked Scientist, NEIST, Jorhat, Assam	2011
3. Prof. Arun Baruah, Ohio State University	2012
4. Dr. Jayanti Chutia, Former Director, IASST, Emiratus Scientist	2012
5. Dr. Dipak Kumar Baruah, Economist, University of Brighton, London.	2012
6. Prof. Krishna D. Atreyi, Iowa University	2013
7. Prof. S. Thangavalue, IISC, Bangalore	2013
8. Dr. Biraj Kr. Kakati, Post-Doctoral Scholar, Imperial College, London	2013
9. Prof. Dhrubajyoti Saikia, Vice Chancellor, Cotton College State University	2013
10. Dr. Sasanka Deka, Asstt. Prof. Dept. of Chemistry, Delhi University	2013
11. Dr. Harish Ch. Dutta, Director, ASTEC	2013
12. Prof. Jiban Katoki, IASST	2013
13. Prof. Gautam Biswas, Director, IIT, Gauhati	2013
14. Dr. Utpal Bora, IIT Guwahati	2013
15. Prof. Bhaba Kumar Sarma, Head, Department of Mathematics, IIT, Guwahati.	2013
16. Prof. Probodh Bora, Department of Microbiology and Coordinator, State level Biotech Hub, AAU, Guwahati	2013
17. Dr. SwadhinPattanayak, Former Director, IIMSc	2014
18. Prof. Tarini Kr. Dutta, Former Head, Department of Mathematics, Gauhati University	2014
19. Dr. Bhim Prasad Sarma, Dept. of Mathematics, Tezpur University	2014
20. Prof. Bijoy Krishna Devasarma, Department of Mathematics NEHU	2014

3.1.9 Sabbatical Leaves for research activities

Three out of the forty seven permanent faculty members of the College availed the FIP of UGC to pursue Ph.D. and thereby availed sabbatical leave of 3 years. Some more faculty members are in the pipe line of the process. One of the faculty members of the College availed six months study leave for National Associateship. Faculties engaged in active research other than Ph.D works are also offers extra time during working days. 21 numbers of faculty members of the College have already

completed 27 numbers and 5 numbers of ongoing UGC Minor research projects. Leaves are granted to the faculty members to attend seminars/conferences etc. organized by organization of higher repute.

3.1.10 Initiatives taken by the institution in creating awareness/ advocating/ transfer of relative findings of research of the institution and elsewhere to students and community (Lab to Lane)

The faculty members of the College under take different programmes in the College campus itself and in the neighbouring feeder schools to create awareness about the scientific outlook among the students and common mass. Topic of the workshops are selected considering the present day relevant issues like science education, agricultural and industrial development, health and conservation of environment. Initiatives are taken to involve and motivate the student community towards the research activities by introducing summer research and training programme among the students. Research activities of the student and faculty members are published in the news bulletin of our College. Some of the programmes organized during the last five years are:

- i) Jana Vigyan Mela- A popular science congress was organized from 5 to 7 February, 2010 in the College to create science awareness among the mass. The *Mela* was attended by **Bharat Ratna Dr APJ Abdul Kalam, Ex- President of India** along with the other dignitaries.
- ii) A one day outreach programme about the basics of Biotechnology was organized by the college's IBH at Dagaon High School on 30-03-2012
- iii) A seminar on 'Food Processing & quality management: General awareness & its prospect' was organized by the IQAC of the College on 23-06-2012.
- iv) A programme on 'Basic Concept of Biotechnology and Genetic Engineering' was organized by the College's Institutional Level Biotech Hub (IBH) at *Sankardev Sishu Niketan*, Karara on 9th September, 2013.
- v) A Symposium on Entrepreneurship development & modern practices in fishery Management was organized, for the students and local people associated with fish production and marketing by Department of Zoology in Collaboration with Institutional Biotech Hub, Pandu College, Guwahati on 19-01-2013.
- vi) Two lectures on 'Kolakhari' - an extract ingredient of banana plant, were organized to aware the local people and the students community about the findings. One of the faculty member of Chemistry department has acquired the "**Patent right**" of 'Kolakhari'.

3.2 Resource Mobilization for Research

3.2.1 Budget for research, major heads of expenditure, financial allocation and actual utilization

The College is keen to mobilize all available funds for research and allied activities. Financial assistance from UGC, DBT and other funding agencies are channelized for providing/upgrading research facilities in the College. The College authority ensures 100% utilization of the funds. The College has financial provision for research and development of its own also. Funds are allocated by the College authority for the purchase of books of advanced knowledge, journals, equipment, specimens and other resources required for research as and when necessary.

Table 3.9: Total budget earmarked for research and actual expenditure

Name of the Programme	Funding agency	Grants received		Actual expenditure	
		2012-13	2013-14	2012-13	2013-14*
Institutional Level Biotech Hub	DBT, Govt. of India	19,46,956/-	8,73,674/-	19,45,282/-	8,24,640/-

*upto December, 2013

3.2.2 Seed money to the faculty

The College authority is planning to provide seed money to the faculty for research on the basis of their performance, particularly on the basis of performance in the sponsored research projects and quality of the published research papers. Though it is not till date implemented to provide the fund, the College is seriously planning to manage a corpus fund for the seed money to the faculty for research work.

3.2.3 Financial provisions to support student research projects

The College has set up infrastructure and learning facilities including project laboratories, e-resource, and computers for students to carry out their project works. Financial help is provided for field trips connected to the students' projects works. The College initiates the provision of providing financial support for students under Star College Scheme and Institutional Biotech Hub for one month summer Research programme in the College from the current academic session 2014-2015. The main objectives of this programme is to introduce the young talents into research at an early stage and give them opportunities to interact with the experience faculty members of the College in interdisciplinary areas. Selected students will be provided incidental expenses amounting to rupees 2000/- (two thousand) for the entire period.

3.2.4 Institute's initiatives in undertaking interdisciplinary research

A few research work of interdisciplinary nature is going on in the IBH of the College. Some of them are-

1. Seizure controlling ability of selected traditionally used antiepileptic plant against induced seizure in animal model.
Investigator: Dr Manash Barthakur, Associate Prof. Zoology, Pub Kamrup College and Mr Pankaj Kalita, SRF.
2. Estrogenic property of medicinal plants of North-East.
Investigator: Mrs Najma Choudhury, Research Scholar, Dept. of Zoology, Gauhati University.
3. Studies on VAM of Muga host plants of different districts of Assam.
Principal Investigator: Dr. Dipak Konwar, Asst Prof., Pub Kamrup College.
4. A theory of brain rhythm and Neural Network- an investigation from physics point of view. Investigator: Dr B. Kr Dev Choudhury, Asso. Prof. Dept. of Physics, Ms Kabita Deka, 6th Semester Physics major Student and Mr Arup Sarma, System Analyst, Pub Kamrup College.
5. Narayan Goswami, Associate Professor, Department of Economics, is conducting research work about the goldsmiths of the state.
6. Dipen Bezbaruah, Assistant Professor, Department of English, is conducting research on some burning social problems of Assam like witch hunting.

3.2.5 Steps to ensure optimal use of various equipment and research facilities of the institution

The equipment and other research facilities like books, journals, internet etc. are easily accessible for the researchers. List of equipment available in the main research center of the College, i.e. the IBH, is made available to all the departments so that the researchers can use these easily as and when necessary. The sharing of equipment and research facilities among the different departments is another measure taken by the College for the optimal use of the same.

3.2.6 Special grants or finances received from the industry or other beneficiary agency for developing research facility

Every effort is made by the College authority, Research Promotion Committee as well as IQAC to procure fund from external agencies to develop research activities and facilities.

Table 3.10: Research funding from external agencies in the last 5 years

Funding/ Beneficiary agencies	Purpose	Amount in Rs. / Facilities
UGC	Networking, Basic scientific research scheme Laboratory equipments	24,05,000/-
DBT, Govt. of India	Star college Scheme	26,00,000/-
DBT, Govt. of India	Institutional Biotech Hub	19,46,956/-
DST, Govt. of India	Motivation generation of Mathematics	5,30,000/-
Indian Meteorological Dept.	Weather data collection	Fully automatic collection centre is set up by the IMD, Govt.of India.
Nemcare Hospital Pvt. Ltd. Guwahati	Laboratory used for practical classes of Medical Laboratory Technician course	MOU is signed for all possible service

3.2.7 Support provided to the faculty in securing research funds from various funding agencies, industry etc. and ongoing/completed projects and grants received during the last four years

The Research and Publication Committee of the College provide information to the faculty regarding the advertisements published by different funding agencies time to time. The College authority ensures timely issue of the required documents for the submission of the project proposals.

The complete list of completed and ongoing research projects is given below-

Table 3.11: List of completed and ongoing research projects

A) Projects undertaken by Faculty:

Department	Name of the faculty	Topic	Sponsored By	Amount	Completed /ongoing	Year
Assamese	Dr Khagesh Sen Deka	a) <i>Asamiya Byakaranar Kramabikas : Eti Bislesanatmak Adhyayan</i>	UGC	1,40,000/-	Completed	2009–2010
		b) <i>Patidarang Ancalar Purohi Puthi-Panji : Eti Kshetrabhittik Adhyayan</i>	UGC	65,000/-	Completed	2005–2007
	Mr. Barnali Deka	Orissa Aru Asamor Loka Bhaxar Tulanatmok Adhyayan : Kamrup Aru Baleswar Jilar Ullikhan Saha.	UGC	80,000/-	Completed	2005-2007
		Kamrup Aru Viraja Mandirar Reeti-Neeti-Pratha Aru Parampara : Eti Tulanamulak Adhayan	UGC	1,48,000/-	Completed	2008-2010
	Nayanmoni Baruah	Asamar Sadhu Kathat Samaj-	UGC	55,000/-	Completed	2012-2013

		Jiwanar Pratifalan: Etiadhyayan				
	Dulumoni Deka	Asamiya Sahityat Droupadi: Eti Samikshatmak Adhyayan	UGC	1,20,000/-	Completed	2009-2010
		Syed Abdul Malika Oipanyashat Nadi	UGC	90,000/-	Ongoing	2013---
Zoology	Dr Kamal Sarma	A survey of the indigenous ornamental fishes available in various water bodies in Kamrup District.	UGC	1,00,000/-	Completed	2005-2007
	Dr Manash Barthakur	Role of water extract of selected traditionally used antidiabetic plant against induced diabetic mammal	UGC	1,00,000/-	Completed	2004-2006
		Protection of diabetic lens by antidiabetic polyherbal formulation.	UGC	75,000/-	Completed	2007- 2009
Economics	Mr. Khagen Das	Mobilisation of Resources by Gaon Panchayats in Assam	UGC	,25,000/-	Completed	2009 - 2011
	Narayan Goswami	On Employment potential of brick kiln of Kamrup District.	UGC	1,00,000/-	Completed	2009-2010
Physics	Dr B K Dev Choudhury	Links between Nonlinear Dynamics and Thermodynamics	UGC	50,000/-	Completed	2007 -2009
		Some Aspects of Modified chaplygin Gas(added with a Brane-world Cosmological perspective	IASc	Sponsored by the Institute	Completed	2010
	Dr Julie Saikia	On primary mass composition of Giant air showers	UGC	50,000/-	Completed	2007-2009
English	Mr. Dipen Bezbaruah	<i>Tradition and Practices of the Tea Tribes of Darrang and Sonitpur District of Assam : A Folkloristic Study</i>	UGC	1,30,000/-	Completed	2012
	Mr. Montu Saikia	A Study on the Grammar and Vocabulary of Sari as is Spoken by the Tea Garden Areas of Assam with Special Reference to Jorhat District	UGC	1,50,000/-	Completed	2012
Botany	Dr P C Kalita	Fern diversity in Madankamdev hill regions of Kamrup district, Assam	UGC	1,20,000/-	On going	2013....
		Observation on Endemic, Rare and Threatened Angiospermic plants of Kamrup district, Assam	UGC	1,00000/-	Completed	2010
		Studies on Floristic Diversity of North Guwahati Hill Region of Kamrup district, Assam	UGC	75,000/-	Completed	2005 - 2007
	Dr Dipak Konwar	Mycorrhiza of muga host plants...	UGC	1,48,000/-	On going	2012--
Geography	Mr. Aditya Deka	Impact of Drought Hazard on Agriculture in Rangia Subdivision	UGC	60,000/-	Completed	2008
	Diganta Kr Rabha	Impact of Flood Hazard on Agriculture in Rangia Subdivision	UGC	60,000/-	Completed	2008

	Mr. Ayez Ali	Geo-environmental Status of Wetlands in Hajo Development Block, A case of some selected beels	UGC	1,20,000/-	Completed	2012
Statistics	Mr. Atwar Rahman	Determination of Relationship between the Temperature and Length of Day in the context of Assam.	UGC	1,25,000/-	Completed	2011
History	Imdad Ali Ahmed	Aspects of Historical Geography of Medieval Assam	UGC	60,000/-	Completed	2008
		Pratap Singha and His Times	UGC	50,000/-	Completed	2004
Chemistry	Dr Utpaljyoti Medhi	Hydrology and Ecological Quality of an Urban Wetland System- A Case Study with Deepor Beel, Guwahati, Assam.	UGC	65,000/-	Completed	2007
		Study on Water and Soil Quality near a Pulp and Paper Mill - A case study in and around Jagiroad Area	UGC	85,000/-	Completed	2009
		Study on Water Specially Drinking Water Quality in an around Bihata Chariali	UGC	1,20,000/-	On going	2011...
	Dr. Nripendra Nath Talukdar	Chemical and spectroscopic analysis of <i>Kolakhar</i> - the food additive derived from banana plant	UGC	55,000/-	Completed	2006
		Potassium Chloride from banana plant	UGC	1,30,000/-	Ongoing	2011--
Philosophy	Jiban Ch. Sarma	Superstition and its impact on rural people of Pub Kamrup Area, Causes and Remedies: A Case study	UGC	95,000/-	Completed	2011

B) Project undertaken by UG Students:

Department	Name of the student	Topic	Sponsored By	Completed	Venue	Year
Physics	Harun Al Rashid	Some basic ideas on Friedmann- Cosmological model	INSA, NASI and IASc	Completed	Jamia Milia Islamia	2012
	Kabita Deka	Brain rhythms- a physics based investigation	INSA, NASI and IASc	Completed	Bharathidasan University	2012

Botany	Manashi Bharadwaj	Analysis of some Biochemical parameters of draught stress plant samples and analysis of Mineral nutrient of vermin-compost soil samples of Assam from three Districts- Karbi angling, Jorhat and Sonitpur and orientation of some sophisticated instruments	Tezpur University	Completed	Tezpur University	2012
---------------	----------------------	---	----------------------	-----------	----------------------	------

3.3 Infrastructure for Research

3.3.1 Research facilities available to the students and research scholars within the campus

Laboratory, equipment, books, journals, computer with printer, e-resources, mini garden with net house, etc. are available in the College campus. In addition to the Central library every department has a departmental library having reference books and books for advanced learners. Broadband internet connectivity is available in all the departments. The IBH of the College is well equipped as well as spacious enough to carry out a good number of research activities simultaneously. The major equipment available in IBH of the College are-

- i. UV-visible spectrophotometer(double beam),
- ii. Cryostat
- iii. Refrigerated centrifuge 15,000 rpm (16,500g)
- iv. BOD incubator
- v. Deep freeze
- vi. Hot Air Oven
- vii. Laminar air flow
- viii. Thermocycler
- xii. Rotary evaporator
- xiv. Autoclave
- xv. High power microscope with computer connectivity

Some of the other facilities available in the college are:

- Central and departmental libraries with good number of books, journals, etc.
- Computer with internet connection and printer
- Automatic Rain gauge Station, Indian Meteorological Department
- N- Computing System
- GPS, Lux-meter, etc.
- Conference Room having 60 computers with necessary Software

3.3.2 Institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research

The College authority as well as the faculty members is in continuous contact with different research and funding agencies for funds/grants. Research and publication Committee of the College helps the authority in every aspect in upgrading and creating infrastructural facilities. The Research and Publication Committee also acts promptly to circulate the relevant information among the faculties. A major funding to boost the power sector of the college is harness the solar power to generate 50 kwatt electric power.

Table 3.12: MNRE Grant for Solar Plant

Heading	Funding agency	Total Fund used	Agency's share	College Share
New Renewable Energy (Solar Power Plant)	Ministry of New Renewable Energy, Govt. of India	Rs. One Crore thirty five lakhs (Rs. 13500000/-)	Rs.12150000/-	Rs.1350000/-

3.3.3 Research facilities made available to the students and research scholars outside the campus/ other research laboratories

The College authority gives permission to the students and research scholars from outside to use the research facilities available in the IBH, Departmental laboratories of different departments and the facilities available in the library. Instead of any lengthy formalities, a request letter from the head or guide of the parent institute or any one identity proof is enough to avail these facilities of the College. Faculties and students of the College are given permission by the College authority to pursue research works in different research centres and laboratories.

3.3.4 The library/ information resource center or any other facilities available especially for the researchers

The College library subscribes 22 journals for the researchers. The internet service is also available in the Library. Presently, N-LIST service has been made available in the library. Time to time the College library purchases books of higher learning to fulfill the requirement of the researchers. British Council Open Library is available in the College library for the use of the researchers.

Table3.13: List of printed Journals available in Pub Kamrup College Library

Title	Medium	ISSN	Publishing House
Resonance- Journal of Science Education	<i>English</i>	0971-8044	Indian Academy of Science, Bangalore
Journal of Biosciences	-Do-	0250-5991	Indian Academy of Science, Bangalore
Pramana- Journal of Physics	-Do-	0304-4289	Indian Academy of Science, Bangalore
Current Science	-Do-	0011-3891	Indian Academy of Science, Bangalore
Journal of Astrophysics& Astronomy	-Do-	0250-6335	Indian Academy of Science, Bangalore
Journal of Chemical Science	-Do-	0974-3626	Indian Academy of Science, Bangalore
Journal of Material Science	-Do-	0250-4707	Indian Academy of Science, Bangalore
Journal of Earth System Science	-Do-	0253-4126	Indian Academy of Science, Bangalore
Proceedings of Mathematical Science	-Do-	0253-4142	Indian Academy of Science, Bangalore
Sadhana	-Do-	0256-2499	Indian Academy of Science, Bangalore
Journal of Genetics	-Do-	0022-1333	Indian Academy of Science, Bangalore

Prabandhan: Indian journal of management	-Do-	0975-2854	Associated Management Consultants, New Delhi
University News	-Do-	0566-2257	Association of Indian University, New Delhi
Down to Earth	-Do-	0971-8079	Society for Environmental Communications, New Delhi
Economic & Political Weekly	-Do-	0012-9976	EPW Research Foundation, Mumbai
Mainstream	-Do-	0542-1462	Perspective Publications Private Ltd., New Delhi
The clarion	-Do-	227-1697	Centre for environment, Education and Economic Development, Guwahati
Aitihya, the Heritage: multi-lingual research journal on Indology	<i>English/ Assamese/ Bangla</i>	2229-5399	Aitihya Samstha, Guwahati
Dream	<i>English/ Hindi</i>	0972-169X	Vigyan Prasar, New Delhi
Gariyoshi	<i>Assamese</i>		Sahitya-Prakash, Guwahati
Ayna	-Do-		Justice & Equity Demand Samiti, Assam
Prakash	-do-		Assam Prakashan Parishad

3.3.5 Collaborative researches facilities developed/ create by the research institutes in the College

The College has a collaborative venture of opening a Medical Laboratory Technician course with NEMCARE Hospital Pvt. Ltd., a premier medical institute in NE India, Guwahati. Through this effort the College is trying to develop the laboratory to run the course, as well as to make it research oriented. In the same way, the College has an understanding with Aavinira Biotech Pvt. Ltd., Kinetic Innovation Park, Pune, to develop research facilities in the College and to use the research facilities available with them.

3.4 Research Publications and Awards

3.4.1 Major research achievements

- **Patents obtained and filed (process and product)**

1. Dr Nrinpendra Nath Talukdar, Associate Professor, Department of Chemistry has one patent. Indian Patent No. 222135 dated 23/07/2008; Title – A method for isolation of Potassium Carbonate from Banana Plant.
2. Dr Talukdar has filed another patent application (Application No. 1669/KOL/2008 of 26/09/2008; Title–Highly Efficient Catalyst from Banana plant for Transesterification of Vegetable Oils to Fatty Acid Methyl Esters).

- **Original research contributing to product improvement:** A method for isolation of Potassium Carbonate from Banana Plant was developed by Dr Nripendra Nath Talukdar, Associate Professor, Department of Chemistry.

- **Research studies or surveys benefiting the community or improving the services:**

A comprehensive list is placed below as specimen of the faculty involvement in this regard-

- * The faculty members of the Department of Botany are engaging themselves on the ethno medicinal plants of the locality which helping the local community to identify and preserve the medicinal plants.

- * Dr Paresh Ch Kalita, Associate Professor of the department reported two new species of *Glochidion* from the locality.

- * Dr UJ Medhi, Associate Professor, Department of Chemistry, conducted the water quality survey in the locality giving an input about the water quality of the locality.

- * Dr. Kamal Sarma, Associate Professor, Department of Zoology, conducted survey on the local fishes, particularly about the ornamental fishes and he is in active contact with the local people who run their livelihood on pisciculture and fish selling.

- * Dr Mansh Barthakur, Associate Professor, Department of Zoology, conducted research on the medicinal plants of the locality which are used as anti-diabetic.

- * Dr K S Deka, Associate Professor, Department of Assamese carried out research on language and literature of the locality giving important input towards the development of the Assamese language.

- * Jiban Ch. Sarma, Associate Professor, Department of Philosophy, conducted survey about the superstitions prevailing in the Pub Kamrup area its impact on rural people. He provided remedies for the removal of those superstitions, in different forms.

- * Khagen Das and Dadul Dewri, Assistant Professor, Department of Economics and Political Science respectively, have active research activities about the economic and political scenario of the local area. Mr. Dewri conducted the pre-poll survey in the Agdala Gaon Panchyat of the area.

- **Research inputs contributing to new initiatives and social development**

Three Books, namely *Byākara* : *Prāchya Āru Pāśchātya*, *Bhā* *Cintā Bicitrā* and *Asomiya Banan Samasya* authored and Edited respectively by Dr K S Deka, Associate Professor, Department of Assamese, have been recognized as UG/PG reference book by Gauhati University, Dibrugarh University and Assam University. These books are helping the progress of the Assamese language in the state.

3.4.2 Publication or partner in publication of research journal

Research and publication cell of our College is planning to publish a research journal with ISBN number from the session 2014-15.

3.4.3 Give details of publications by the faculty and students

- **Publication per faculty**

The detail of the publications of the College faculty is given below:

1. DR B. K. DEV CHOUDHURY

a) Research papers:

1. BKD Choudhury et al. "Simple Pendulum: A Starting Bed for Studying Nonlinearity" Proc. Annual Technical Session, Assam Science Society, 1995, Gauhati, Assam India.
2. B. K. Dev Choudhury and B. C. Kalita, "Henon-Heiles Type Hamiltonian In Cosmological Perspective" Proc. 28th International Cosmic Ray Conference, 2003, Tsukuba, Japan, p.1717
3. B. K. Dev Choudhury and B. C. Kalita, "Study of Riemannian Geometric Model of Thermodynamics: A Nonlinear Approach." Proc. 50th Annual Technical Session, Assam Science Society, 2005, Gauhati University, Assam, India.
4. B. K. Dev Choudhury and B. C. Kalita, "Studies on Curvature Tensor and Geodesic Deviation Equation." Proc. 30th International Cosmic Ray Conference, 2007, Merida , Mexico, p. 1279
5. B. K. Dev Choudhury et al "Dark Energy and Search for the Generalised Second Law", arXiv:0906.0644v1 [astro-ph.CO] 3 Jun 2009
6. B. K. Dev Choudhury et al "Cosmic - Ray Anomalies Inspired Some Discussion on Modified Chaplygin Gas" arXiv:0906.0646v1 [astro-ph.CO], 3 Jun 2009
7. B. K. Dev Choudhury et al "Some Discussion on Thermodynamical Behaviour of Modified Chaplygin Gas" arXiv:1006.1461v1 [physics.gen-ph] 8 Jun 2010
8. B. K. Dev Choudhury "Generalized Second Law and Brane Cosmological Model with Phantom Dominated Bulk", ICRC, 2011, Beijing, China.
9. B. K. Dev Choudhury et al "Interacting Dark Energy in Brane-Cosmological Perspective", ICRC, 2011, Beijing, China.
10. B. K Dev Choudhury, "Dynamical Interpretation of Viscous Term of Chaplygin Gas", 33rd ICRC, 2013, Rio- De Janeiro, Brazil

b) e-books:

- i) Some Discussion on Thermodynamical Behaviour of Modified Chaplygin Gas. arXiv. 1006.1461v1, June, 2010

2. DR CHITRALEKHA TALUKDAR

1. C. Talukdar et.al, "XRD studies of some cellulose fibres at different Temperatures" Proc. 8th Asian Thermo physical Properties Conference , paper No – 042 (2007)
2. M. Talukdar et.al , "The investigation of thermal behavior of raw and degummed Muga fibre induced by heat treatment" Proc. 8th Asian Thermo physical Properties Conference, paper No – 041 (2007)
3. C. Talukdar et al," XRF and XRD studies of g-irradiated silk and plant fibres under thermal treatment",Proc.6th Asian Thermo physical Properties Conference.G.U.1 P.386(2001)
4. M. N. BORAH et al," Thermo physical properties of some medicinal plant leaves of North-East India by XRF and DSC methods", Indian J.physics,74 A(3),p.259(2000)
5. M.N. BORAH et al , "Tensile properties of plant fibres readily available in North Eastern region of India", Indian J. of Fibre &Textile Research,24,P.172(1999)
6. M.N. BORAH et al , "Thermo physical properties of some natural plant fibres by Thermo gravimetric and Derivation Thermo gravimetric methods", High temperature-High pressures,29,p.683.(1997)

7. M.N. BORAH et al ,”Investigation on the Thermo dynamical properties of some natural silk fibres with various physical methods”, *Thermochimica Acta*,218, .P.425(1993)
8. C. Talukdar et al,” Studies on the dielectric properties of some natural plant and synthetic fibres in Audio Frequency range and their DC conductivity at elevated temperature”, *Thermochimica Acta*,218,P.435.(1993)
9. M.N. BORAH et al ,”Investigation of surface and internal fine structure characteristics in cotton fibre by electron microscopy and Infrared spectroscopy”. *G.U.J* ,xxx1(1992)
10. M.N. BORAH et al ,”A study on thermo physical properties of some plant and synthetic fibres with X-ray diffraction and some other methods”,*Proc.3rd Asian Thermo physical properties conference,Beijing,P.12.(1992)*
11. M.N. BORAH et al ,”Investigation on the DC conductivity of natural silk fibres under different conditions”, *J. of Assam Science Soc.*P23(1992)
12. G.C. Baruah et al,” Infrared spectroscopic study of some natural silk fibres”, *Indian Journal of physics* 65B(6)p651(1991)
13. C. Talukdar et al ,”A study of the thermal behavior of Eri,Muga and Pat fibres” *Indian Journal of physics* 65B(6)P 641(1991)
14. G.C. Baruah et al ,”Study of the Tensile properties of natural silk fibres “,*J.of Assam Sci.Society*,32(4)P9 (1990)

3. DR JULIE SAIKIA

a) Research papers:

1. Julie Saikia et al., “On the Lateral Distribution of Electrons in Giant Air Showers.” *Proc. Annual Technical Session*, 1991, P.14.
2. Julie Saikia et al., “Studies on Distribution of Electronic component with respect to core position in Giant Showers.” *Proc. Annual Technical Session*, 1992, P.16.
3. Julie Saikia et al., “Studies on Lateral Distribution of Electrons produced in High Energy Cosmic Ray Interactions.” *Proc. XDAE Symposium on High Energy Physics*, 1992, TIFR, Mumbai P.28.
4. Julie Saikia et al., “Studies on EAS Age parameter for distinguishing between hadronic and photon initiated showers.” *Proc. Annual Technical Session*, 1993, P.22.
5. Julie Saikia et al., “Studies on EAS AGE Parameter for Distinguishing between Hadronic and Photon initiated Air Shower.” *Proc. International Conference of Non Accelerator Particle Physics, IIA, Bangalore*, 1994, P.86.
6. Julie Saikia et al., “Studies on Lateral Distribution Of Electrons in UHE Air Showers.” *Proc. 23rd ICRC*, 1993, Canada, P. 346.
7. Julie Saikia et al., “Studies on EAS Parameter for identifying the Primary Particle of Extensive Air Shower.” *Proc. 24th ICRC*, 1995, Italy.
8. Julie Saikia et al., “Characteristics of Age Parameter for Giant Air Shower.” *Proc. 26th ICRC*, 1999, Utah, USA.

9. Julie Saikia et al., "On Some Aspects of Age Parameter Associated with Extensive Air Showers having Energy ranging from $\sim 10^{14}$ eV to $\sim 10^{20}$ eV, " Proc. 28th ICRC, 2003, Tsukuba Japan, P. 325.
10. Julie Saikia et al., "On identification of the Primary Particle of Giant Air showers Using LDF of Particle Component " Proc. 50th Annual Technical Session of Assam Science Society, 2005, Guwahati, P. 198.
11. Julie Saikia et al., "On Mass Composition of Giant Air Showers, " Proc. 29th ICRC, 2005, Pune, India
12. Sunil Kumar Gupta et al., "Current Status of the expanded GRAPES collaboration experiment at Ooty in India, " Proc. 30th ICRC, 2007, Merida, Mexico
13. J Saikia et al "Cosmic - Ray Anomalies Inspired Some Discussion on Modified Chaplygin Gas" arXiv:0906.0646v1 [astro-ph.CO] 3 Jun 2009,
14. "Some Discussion on Thermodynamical Behaviour of Modified Chaplygin Gas", arXiv:1006.1461v1 [physics gen-ph], 2010
15. J Saikia et al "Dark Energy and Search for the Generalised Second Law", arXiv:0906.0644v1 [astro-ph.CO] 3 Jun 2009
16. Julie Saikia et al., "Interacting Dark Energy in Brane- Cosmological Perspective", " Proc. 32nd ICRC, 2011, Beijing, China
17. Julie Saikia, "Understanding the Dynamical Behaviour of Chaplygin Gas Cosmology", Proc. 33rd ICRC, 2013, Rio de Janeiro, Brazil

b) e-books:

- i) Cosmic Ray Anomalies Inspired Some Discussion on Modified Chaplygin Gas. arXiv.0906.0646v1, 2009

4. DR NAVAJYOTI CHOUDHURY

1. "Effect of swift heavy ion irradiation on lead sulfide quantum dots embedded in polyvinyl alcohol", *Radiation Effects and Defects in Solids*, Taylor & Francis, London (UK), **Vol. 168**, No. 7-8, July **2013**, pp. 498-503.
2. "Effect of 100 MeV Ni⁸⁺ ion irradiation on nanocrystalline PbS", *Indian Journal of Pure and Applied Physics*, National Institute of Science Communication & Information Resources, New Delhi, **Vol. 50**, May **2012**, pp. 325-328. [ISSN: 0019-5596 (print); 0975-1041(online)]
3. "Structural analysis of chemically deposited nanocrystalline PbS films", *Thin Solid Films*, ELSEVIER (Canada), **Vol. 519**, Issue 7, **January 2011**, pp. 2132-2134. (ISSN: 0040-6090)
4. "Structural characterization of lead sulfide thin films by means of X-ray line profile analysis", *Bulletin of Materials Science*, **Vol. 32**, No. 1, February **2009**, pp. 1-5. [ISSN: 0250-4707 (print); 0973-7669 (online)]
5. "Structural characterization of nanocrystalline PbS thin films synthesized by CBD method", *Indian Journal of Pure and Applied Physics*, **Vol. 46**, April **2008**, pp. 261-265. [ISSN: 0019-5596 (print); 0975-1041(online)]
6. "Preparation and optical characterization of PbS quantum dots", *American Institute of Physics Conference Proceedings*, **Vol. 1147**, June **2009**, pp. 160-165.

5. DR N.N.TALUKDAR

1. Chemical and Spectroscopic investigation of Kolakhar and its commercial importance, Indian Journal of Traditional Knowledge V-6(1),72-78,2007,

2. Chemical and Spectroscopic investigation on Kolakhar, Current Trends of Research in Science and Technology Proceeding of Technical Session of Assam Science Society, V-6, 2005, pp-64-70.

Full Paper in Book

Topic- Kolakhar: Chemistry and uses. In the book- Appropriate Technologies for North –East, India. Editor-U.S.NMurty. ISBN-81-8521-93-0, 2012(HB)

Book Edited

Kolakhar and its Chemistry by D.C .Deka and N. N. Talukdar, ISBN no-978-81 920862-9-3, Published by Techno Ed, Guwahati.

6. DR U.J. MEDHI

1. Physiochemical Characteristics of Lime Sludge Waste of Paper Mill and its impact on growth and production of rice, U. J. Medhi, A. K. Talukdar and S. Deka, *Industrial Pollution Control* 21(1), 2005, pp-51-58
Impact Factor-0.97.

2. Effect of pulp and paper mill effluent on seed germination and seedling growth of mustard, pea and rice seeds, *Journal of pollution research*, 27(3), 2008, pp-437-442

Impact Factor-1.01

3. “Agro-potentiality of lime sludge waste from the paper industry”, *Current Science*, Vol-97, No-10, 25 November, 2009.

Impact Factor-1.09

4. Impact of paper mill effluent on growth and development of certain agricultural crops. *Journal of environmental Biology*, 32, pp-185-188, 2011, ISSN: 0254-8704 coden: JEBIDP.

Impact Factor-2.06

5. “Assessment of rural water quality and its impact on human health”. **International journal of Environmental Engineering and Management**, ISSN: 2231-1319, Vol-3, Number3, 2012, pp-215-223, Research India Publication.

Chapter In Book

Topic-An Urban Wetland-A case study with Deepor Beel, In the book-Environmental Issues in India, Edited by-Dr Runu Bhattacharjya.

7. DR PARESH CH KALITA

i. P. C. Kalita & D. Konwar. 2013. Threat to biodiversity of Madankamdev hill region, central Assam, India. *Environmental degradation & its impact on biodiversity*. 150-157. ISBN:978-93-80261-83-3.

ii. P. C. Kalita & D. Konwar. 2012. Study on wild edible fruits of Brahmaputra valley, central Assam, Assam, India. *Ad. Plant Sci.* 25(ii) 585-589. ISSN0970-3586.

iii. P. C. Kalita . 2012. Notes on some primitive angiosperms from Brahmaputra valley, Assam, India. *J. Econ. Taxon. Bot.* 36(3):618-625. ISSN:2050-9768.

iv. P.C.Kalita & D. Konwar. 2010. Indigenous and Herbal Medicines in prevention and treatment among the different communities of Madankamdev Hill Region, central Assam *Jour. Adv. Plant Sci.* 5(1): 71-77. ISSN: 0971-9350.

iv. P.C. Kalita & S.K. Barthakur. 2010. Studies on some highly utilized important medicinal plants among the rural people of Madankamdev Hill region, Assam. *J. Econ. Taxo. Bot.* 34(2):257-261. ISSN:2050-9768.

- v. P.C.Kalita & S.K. Borthakur.2009. Medicinal plants useful in the treatment of piles. *J.Econ. Taxon. Bot.* 33(suppl):328-332. ISSN:2050-9768.
- vi. P.C.Kalita & S.K.Borthakur.2008. *Zeuxine goodyeroides* Lindley (Orchidaceae): A new record for Assam, India, *Pleione* 2(2):249-251. ISSN: 0973-9467.
- vii. P.C.Kalita. 2006. Diversity in Orchids of Brahmaputra Valley, Central Assam, India. *Phytotaxonomy* 6:96-98. ISSN:0972-4206.
- ix. P.C.Kalita & S.K.Borthakur.2006. Two new species of *Glochidion* J.R. & Forst. (Euphorbiaceae)from Assam, India. *J. Econ. Taxo. Bot.* 34(2):257-261. ISSN: 2050-9768.

8. DR DIPAK KONWAR

- i. P. C. Kalita & D. Konwar.2013. Threat to biodiversity of Madankamdev hill region, central Assam, India. *Envirnmental degradation &its impact on biodiversity.*150-157. ISBN:978-93-80261-83-3.
- ii. P. C. Kalita & D. Konwar. 2012.Study on wild edible fruits of Brahmaputra valley, central Assam, Assam, India. *Ad. Plant Sci.* 25(ii) 585-589. ISSN0970-3586.
- iii. P.C.Kalita & D. Konwar.2010. Indigenous and Herbal Medicines in prevention and treatment among the different communities of Madankamdev Hill Region, central Assam *Jour. Adv. Plant Sci.* 5(1): 71-77. ISSN: 0971-9350.

9. DR KAMAL SARMA

- 1) Sarma, K. and M. M. Goswami: Organal Distribution of Endohelminthes parasites in three snakehead fish species of Deeparbeel, Assam, India. *Aquacult.*, 12(2): 159 – 166 (2011). ISSN - 0972 – 2262.
- 2) Sarma, K. and M. M. Goswami: Seasonal occurrence of Endohelminthes fish parasites of *Channa gachua* (Ham - Buchanon) in a fresh water wetland of Kamrup District in Assam. *J. Natcon.*, 23(2): 239- 246 (2011). ISSN- 0970 – 5945.

10. DR MANASH BARTHAKUR

- 1) Manash Barthakur and Jeetendra Goswami (2007). Hypoglycemic activity of water extract of *Scoparia dulcis* in alloxan induced diabetic rats. *Indian Vet. J* (2007):84: 1032-1034
- 2) Manash Barthakur (2008). Seperation and identification of chemical constituents from pharmacologically important traditionally used anti-diabetic plant- *Scoparia dulcis*. . *Ad. Plant Sci.*(2008) 21(1) 341-342
- 3) Manash Barthakur, M Das and S Dey (1999). Ascorbic acid as a possible protective agent against caffeine induced cellular stress on albino rat erythrocytes. *Biomedical Letters* (1999):60:191-201
- 4) Pankaj Kalita and Manash Barthakur (2013); Microanatomical deformation after PTZinduced seizure in mice brain. *International Journal of Pharmacy.* **ISSN 2249-1848; CODEN: IJPNL6.**

11. DR. K. S. DEKA

A) Research Paper published in journal:

<u>Sl. No.</u>	<u>Title with page No.</u>	<u>Journal</u>
1.	Cangrung Phukanar Buranji(37–40)	<i>Asom Sahitya Sabha Patrika</i> , 2 nd issue, 2005
2.	Asomiya Bhasar Byakarangata Bisoy (52–64)	<i>Asom Sahitya Sabha Patrika</i> , 4 th issue, 2004
3.	Asomiya Banan Prakaran : Samasya Aru Samadhanar Natun Sutra (52–62)	<i>Asom Sahitya Sabha Patrika</i> , 1 st issue, 2001
4.	Kaliram Medhir Bhasatattvik Cinta (78–84)	<i>Anveshan</i> , 7 th issue, 2000 (Research Journal of Deptt. of Assamese G.U.
5.	Paschatya Byakaranar Itihas (35–54)	<i>Asom Sahitya Sabha Patrika</i> , 1 st issue, 1993
6.	Patidarangia Upabhasa : Eti Tulanamulak Adhayayan (68–77)	<i>Asom Sahitya Sabha Patrika</i> , 2 nd issue, 1992

(B) Research Publications (books):

<u>Sl. No.</u>	<u>Title with page No.</u>	<u>Book Title, editor & publisher</u>	<u>ISSN/ISBN No.</u>
1.	<i>Byakaran : Pracya Aru Paschyata</i> , 1 st edn. (146), Revised 2 nd edn (160)	1 st edn., 2001, Puberun Prakash Publisher, 2 nd edn., 2009, Jyoti Prakashan Publisher	ISBN : 978-81-921887-4-4
2.	Byakaran Tattva Aru Swarup (49–65)	<i>Bhasa-Chinta- Bichitra</i> Co-Edited with Dr. Nagen Thakur, 2000, Puberun Prakash Publisher.	
3.	i. Asomiya Byakaran : Misonary Parampara (7–16) ii. Dhammapadar Darsanik Tatparja (17–28) iii. Abhijnana Sakuntalam... (29–41)	<i>Asomiya Bhasa Sahitya Sanskriti Bithika</i> (Co-authored with Dr. Naren Chandra Das & Dr. Umesh Chandra Deka, 1999, Purbanchal Prakash Publisher	ISBN : 81-7213-046-5
4.	Introduction (01–14)	<i>Asomiya Banan Samasya</i> , 1998 Compiled & Edited Self Baihata Chariali Sahitya Sabha Publisher	

C) Full Papers in Conference Proceedings

<u>Sl. No.</u>	<u>Title with page No.</u>	<u>Details of Conference Publication</u>
1.	Asomiya Lokayata Bakbhangit Ramayani Prabadar Prasanga (25–40)	Proceedings of UGC sponsored National Seminar on <i>Tradition of Ramayana in Eastern India</i> held at Dept. of Assamese, D.U. March 8-9, 2002

D) Articles in Book Form:

<u>Sl. No.</u>	<u>Title with page No.</u>	<u>Type of Book & Authorship</u>	<u>ISSN/ISBN No.</u>
1.	Dr. Banikanta Kakatir Assamese Its Formation and Development : Eti	<i>Bhasa Sahityar Swarnalipi</i> , 2011, Ed. by	ISBN 978-93-81183-24-3

- Samiksha
Jugal Ch. Baishya, D. K.
College Golden Jubilee
Celebration Committee
Publisher
2. Biswayan Aru Asamiya Bhasar Sankat (65-73)
Biswayan Aru Asamiya Sanskriti, 2011, Ed. by Sukdev Adhikary, Jagaran Sahitya Prakashan Aru Asamiya Bibhag, Dhing College, Dhing
ISBN 81-202-8868-8
978-81-202-8868-3
3. Jyotiprasadar Giti-Sahitya : Ek Alokpat (158-171)
Jyotiprasad Cintan Aru Manan, 2010, Ed. by S. K. Arya, Tezpur Sahitya Sabha Publisher
4. Asomiya Golok Byakaran Aru Asomiya Byakaran Prabes (158-165)
Adhyapak Golokchandra Goswami Bhasar Ajiwan Sadhak, 2010, Ed. by S.S.Borah & N. Hussain
5. Asamiya Bhasa : Udbhab Kalar pora Bartamanoloi (207-216)
Bhasa-Sahityar Sobha, 2010, Ed. by P. N. Goswami & B.Bharali, Dept of Assamese, Pragjyotish College
ISBN-81-7206-369-6
6. Karak Byakaran Tattva : Eti Paricaymulak Toka (69-75)
Bhasa Baibhab, 2009, Ed. by J. S. Chaudhury & Others, Dept. of Assamese, Cotton College
7. Samprotik Asamiya Kabitar Reh-Rup (171-178)
Swakshar, 2009, Ed. by Dr. Sibanath Barman, A. V. College Golden Jubilee Celebration Committee Publisher.
8. Paramporagata Byakaran Aru Adhunik Asamiya Byakaran : Eti Tulana (30-46)
Bhasa-Sahitya-Sanskriti Parikrama, 2009, Ed. by S. K. Arya, Tezpur Sahitya Sabha
9. Lokabhasar Swarup Sandhan (87-102)
Upabhasa Aru Asomar Upabhasa, 2007 Ed. by D.P. Patgiri, Dept of Assamese, GU
10. Kamrupi Upabhasa (10-20)
Asomiya Bhasar Upabhasa, 2007, Ed. by D. P. Patgiri, Dept. of Publication, GU.
ISBN-81-86416-60-9
11. Patiidarangiya Upabhasar Ruptattva(21-34)
Asomiya Bhasar Upabhasa, 2007, Ed. by Dipti Phukan Patgiri, Dept. of Publication, GU. (21- 34)
ISBN-81-86416-60-9
12. Asamiya Banan Prakaran... (293-308)
Bhasa-Sahitya Sambhar, 2005, Ed. by A. Das
ISBN 81-7339-433-4
13. Asom Gaurav Kaliram Medhi (48-60)
Kuri Satikar Kurijan Bisista Asamiya, 2005, Ed. by P. N.Goswami & A.Sarma
14. Kamrupi Upabhasa (496-500)
Biswakosh, Vol-viii, 2005, Ed. by M. Taher & Others,

- Asom Sahitya Sobha
publisher
Bhasa-Sahitya-Sanskriti-Cinta, 2004, Ed. by L. Baruah et al. Antareep
publisher
15. Asomiya Bhasar Byakarangata Bisoy (26–39)
16. Asamiya Byakaran Aru Bhasatattvar Bibartanatmak Itihas (19–40)
Asamiya Bhasa-Sahityar Jeuti, 2003, Ed. by M. Chaudhury & D. Das, Asomiya Bibhag, Gosaigaon College publisher
17. Bhasa Baijnanik Byakaran aru Asomiya Byakaranar Swarup (139– 150)
Bhasa-Jijnasa, 2002, Ed. by L. S. Borah & D. P. Patgiri, Dept of Assamese, GU.
18. Paschyata Byakaran : Prthagata Dhara (115– 128)
Bhasa : Cintan Aru Manan, 2002, Ed. by M. Mikir & others, Dept of Assamese, Cotton College
19. Asomiya Bhasa Adhyayanar Camu Pariciti Aru Dr. Goswami Byakaran Cinta (171–191)
Bhasacharja Dr. Upendra Nath Goswami Jiwan Aru Kriti, 2001, Ed. by U. Deka et al. Mani Manik Prakash.

12. MS. BARNALI DEKA

a) Books : 04

Sl. No.	Title	Publisher/Year of Pub	ISBN
i.	<i>Sahitya-Sanskriti Ityadi</i>	Self, 2013	81-88706-06-1
ii.	<i>Saktipith Kamakhya Aru Viraja</i>	Self, 2012	81-88706-07-2
iii.	<i>He Mahajivan</i>	Antareep, 2012	81-88706-05-3
iv.	<i>Sadhukathar Jolonga</i>	Self, 2011	

a) Research Papers:

- i) *Bhupen Hazarika Anudita Geetat Aru Asamiya Jatiya Jivan*
ii) *Asamar Paramparagata Khel-Dhemalit biswayanar Bhumika*

b) Articles :

Sl.No.	Title	Published at	Year
1.	<i>Tai Bhasa Aru Sahitya</i>	Pub Kamrup College Magazine	2012
2.	<i>Naitik Jibanar Bikasat Oriya 'Lokabanir Bhumika'</i>	Lakhimi, Magazine	2011
3.	<i>Ya Devi Sarbabhuteshu (Assamese)</i>	Niyamiya Samay, News Paper	2011
4.	<i>Oissar Rasleela Aru Kartik Purnima : Ek Bhangam Dristi</i>	Howly Ras Souvenir	2009
5.	<i>Asomiya Aru Oriya Lipi : Eti Adhyayan</i>	Lakhimi (Magazine)	2009
6.	<i>Lipi : Asomiya lipir Gatidhara</i>	“Asomiya Bhasa-Sahityar Rengani” (Ed. Book)	2004
7.	<i>Bohag Bihu Aru Missing Deka-Gavaru (Assamese)</i>	Amar Asom, News Paper	2000
8.	<i>Asomiy Aru Oriya Bhasar Bisista Swara Dhani : Eti Alochana</i>	Research Journal, Pub Kamrup College	2004
9.	<i>Kramabardhaman Yuva Bissrinkalata Purbanchal</i>	News Paper	1995

10.	<i>Baisagu</i> (Assamese)	Deobaria Dainik Agradoot, News Paper	2000
11.	<i>Harir Nirmal Bhakati</i> (Assamese)	Souvenir	1996
12.	Missing Samajar Ali-Lrigang(Assamese)	Aye Dainik Agradoot, News Paper	2000
13.	Bohag Bihu Aru Missing (Assamese)	Deka-Gavaru Amar Asom, News Paper	2000
14.	Dharama : Bharatiya Samaj Prabhhab	Jivanat Eyar Magazine	1987
15.	Asomiya Upasarga	Dainik Agradoot, News Paper	1999
16.	Boro Sakalar 'Baisagu'(Assamese)	Chitranjali, Magazine	1999
17.	Bihu Geet Aru Aainitam (Assamese)	Agradoot, News Paper	2000
18.	Banikanta Kakatir Jivan Darsan	Dainik Agradoot, News Paper	1998
19.	Missing Samajar Ainitam (Assamese)	Chitranjali, Magazine	1998
20.	China Bhasar Samu Parichay (Assamese)	Saptahik Samay, News Paper	1997
21.	Karmajog Sastra Gita Aru Ami (Assamese)	Journal (G.U.)	1996
22.	Biyanam Samparke Axar Serek (Assamese)	Asom Bani, News Paper	1996
23.	Surjastar Rang (Translated Short Story)	Pub Kamrup College Magazine	2010
24.	Bodo Aru Asomiya Bhasar Dhani : Eti Alochana	Bisista Swara Bhasa-Chinta Bisitraa (Ed. Book , G.U.)	1996

13. NAYANMONI BARUAH

a) Publication in Peer Reviewed Referred International Journal

i) Children Literature: It's Role & Importance in Present Context. 2013. Asian Journal of Research in Social Sciences & Humanities. Vol-3, Issue-9. ISSN-Web-2249-7315, Print-2250-1665

b) Research Article

<u>Sl. No.</u>	<u>Title of the publication</u>	<u>Name of the Journal</u>	<u>Publishing house</u>	<u>Date/Year of publication</u>
1.	Sourav Kumar Chalihar Galpa : Eti Toka	Gariyashi	Sahitya Prakash	June, 2012
2.	Asomiya Byawaharik Sahitya: Eti Samu Alochana	Asam Sahitya Sabha Patrika	Asam Sahitya Sabha	March, 2011
3.	Gagan Chandra Adhikarir Sishu Sahitya	Gariyashi	Sahitya Prakash	January, 2011
4.	Nabakanta Baruar Sishu Sahityat Thalu Paribex	Asam Sahitya Sabha Patrika	Asam Sahitya Sabha	Dec, 2009

c) Article in Book Form

<u>Sl. No.</u>	<u>Title of the publication</u>	<u>Name of the Book</u>	<u>Publishing house</u>	<u>Date/Year of publication</u>	<u>ISSN/ ISBN</u>
1.	Bhramankari Mahapurush Srimanta Sankardev	Bhraman	Techno Ed Publication	2013	ISBN-978-93-81859-15-5
2.	Prafessor Baruar Cithi: Eti Xamohrik Bislekhan	Asamiya Sahitya Baicitrya Aru	Naksha	2011	ISBN-978-81-8465-427-8

Baibidhya

- | | | | | | |
|----|--|--|--------|------|--------------------------------|
| 3. | Professor Baruar Cithi :
Eti Xamogrik Alocona | Asamiya
Sahitya
Baicitrya Aru
Baibidhya | Naksha | 2011 | ISBN-978-
81-8465-427-
8 |
| 4. | Xacipator Puthi : Eti
Xamogrik Bislexan | Asamiya
Sahitya
Baicitrya Aru
Baibidhya | Naksha | 2011 | ISBN-978-
81-8465-427-
8 |

d) Papular Article

<u>Sl. No.</u>	<u>Title of the publication</u>	<u>Name of the Journal/ Magazine</u>	<u>Publishing house</u>	<u>Date/Year of publication</u>
1.	Nabakanta Baruar Sishu Sahitya: Eti Samu Alochana	Bartapakhili	Bishal Prakashan	October, 2010
2.	Asamiya Sishu Sahityar Bikaxat Sishu Alochanir Bhumika	Bartapakhili	Bishal Prakashan	August, 2010
3.	Jyotiprasad Agarwal Natarak Kanchanmati Aru Etibhen Charitra Dutir Eti Tulanatmak Alochana	Bartapakhili	Bishal Prakashan	January, 2010

e) Creative Writing:

<u>Sl. No</u>	<u>Title of the publication</u>	<u>Name of the Journal/ Magazine/ Book</u>	<u>Publishing house</u>	<u>Date/Year of publication</u>
1.	Xoixabar Dhemali (Story)	Mukuta (Magazine)	Asom Prakashan Parishad	Dec, 2013
2.	Junukar Adin (Story)	Mukuta (Magazine)	Asom Prakashan Parishad	Aug, 2013
3.	Xamay-Du: xamay (Story)	Dibrugarh Biswabidyalayar Premor Galpa (Book)	Banalata, Dibrugarh	2009

14. AJIT KALITA

- a) "Ravindranathar Bharat Tirtha Aru Asomiya Kabita : Ati Tulanamulok Aalosona " (article) Research Journal Name "ALOK " , Volume-7 , May , 2013 , ISSN : 2250 124X , Published by Deptt. of Assamese , B. Borooah college
- b) "Pub Kamrup Anchalar Parjayatan Khetryasamuha : Ati Aalokpat " Published at "Bhraman " edited by editorial board , PKC and published by Techno Ed Publication , Guwahati-3 , First Published 2013 , ISBN : 978-93-81859-15-5
- c) "Dharmiya Sahansilata Aru Asom " Research Journal Name "ALOK " , Volume-6 , January , 2012 , ISSN : 2250 124X
- d) *Books : Prabandha Sankalan* , First Edition : April, 2011 Published by Rhino offset , Tihu

15. NARAYAN GOSWAMI

i) Employment Potential in Brick-kiln Industry of Assam with special reference to Kamrup District. 2012. In: *Globalization and Indian Economy*. Published by: SSDN Publishers & Distributors New Delhi-110002. ISBN 9788-93-8117-6320

2. Role of Stake holder in higher Education. 2010. In: *Quality Assurance in Higher Education- Role of Stake holder*. Published by: IQAC, Goreswar College. ISBN-9789380261928

16. KHAGEN DAS

- i) Need of bamboo plantation as an indigeneous technique of reducing disaster risk. 2012. In: *Globalization and Indian Economy*. Published by: SSDN Publishers & Distributors New Delhi-110002. ISBN 9788-93-8117-6320
- ii) Possibility of Rural Tourism in greater Baihata Chariali. 2013. In: *Rural tourism in Industrial Development Prosperity*.
- iii) Ethnicity-its Genesis and impact on Social structure in North-East India. 2012. In: *Globalization and Indian Economy*. ISBN: 978-93-8117-632-0
- iv) Eradication of Domestic Violence Against Women as a Social responsibility of NGOs of North East-an overview. 2010. In: *Women and Human Rights*. ISBN: 978-81-910812-0-6

17. BABITA DAS

a) Books:

- i) Educational thinker Oriental & occidental. 2013. Published by: Ashok book stall, Guwahati. ISBN-978-93-81850-47-3
 - ii) History & Development of Indian education. 2012. Published by: Arun prakakhan, Guwahati. ISBN-978-93-81667-05-7
 - iii) Snatak Mahalar Sikshar Etihias. 2012. Ashok book stall, Guwahati.
- b) Article/paper
- i) Bhraman Sahitya: Ati Avalokan. 2013. In: *Bhraman*. ISBN:978-93-81859-15-5

18. NRIPENDRA DEKA :

a) Papers

1. Industrial Potentiality of Rural Tourism. 2013. In: *Gramya parjyatan*. ISBN : 978-93-81859-09-4
2. Traditional knowledge system of north –East India. 2012. In: *Traditional knowledge system of people of Pub Kamrup area in Agriculture*. ISBN: 978-81-924052-0-9

b) Books with ISBN / ISSN numbers with details of publishers : a) *Gramya parjyatan*, techno ed publication 2013,ISBN : 978-93-81859-09-4

c) Articles

- i) *Traditional knowledge system of north –East India*, The Department of history, Mangaldoi College, May 2012, ISBN: 978-81-924052-0-9
- ii) In: *Bharaman* , Techno ed publication 2013, ISBN :978-93-81859-15-5

19. IMDAD ALI AHMED :

a) Chapter in books: Course Writer of History of *Krishna Kanta Handique State Open University*, 2009.

b) Books with ISBN/ISSN numbers with details of publishers : Wrote an article on *Role of Media in Tourism Promotion with Special Reference to Assam* in “*Bhraman*”, published by Pub Kamrup College, 2013 (ISBN: 978-93-81859-15-5)

20. DR KALPANA MISRA

1. n-injective hull of strictly FGD N-groups. *Journal of The Assam Academy of Mathematics*. December, 2011
2. Weakly quasi injective N- groups. *Journal of Rajasthan Acad. of Phy.* 2009
3. On strictly FGD N-groups with acc on annihilators. *Research Journal (Science), Punjab University.* 2009
4. On P-Injective Strictly FGD Near-ring. *Journal of Rajasthan Acad. of Phy.* Rajasthan Acad. of Phy. 2009
5. On quasi l-bounded near-rings. *Far East J. Math Sci.* 2005

21. DADUL DEWRI

1) Quality Maintenance in Higher Education- Role of Teachers. In: *Quality Assurance in Higher Education, Role of Stakeholders*. Edited by – Nayan Kalita & Jadab ch. Goswami. Published by- Goreswar College and EBH Publishers, 2013. ISBN: 9789380261928.

2) The Tiwa Autonomous Council and Development of the Tiwas. In: *Sograsal, Souvenir*. Published by-North East India Tiwa Cultural Festival Celebration Committee, 2014, ISBN-978-81-923589-0-1.

22. KHANINDRA DAS

1) Quality Maintenance in Higher Education- Role of Teachers. In: *Quality Assurance in Higher Education*, Edited by – Nayan Kalita & Jadab ch. Goswami. Published by- Goreswar College and EBH Publishers, 2013 (INDIA) Guwahati-1. ISBN: 9789380261928.

2) Socio-Economic Condition of the Workers of Bell –metal Handicraft: A case Study in Saru Khetri Block of Barpeta District of Assam. In: *Globalization and Indian Economy*. Edited By: Dr. Runu Bhattacharjee, Publisher: SSDN Publishers and Distributors, Daryaganj , New Delhi, --10002, 2012--- ISBN-978-93-8117-632-0.

23. HEMASRI DEVI

1. “*Ethnic Assertion: Human Security Manifestation of Questioning Substantive Democracy: A case of Bodo’s of Assam*”, In: “*Ethnic Conflict and Identity Crisis in North East India (2012)*” INBN--978-81-923440-0-3.

2. “*Concept and Approaches to the study of Political Science*”, 2011, (jointly published with Pankaj Bora) 2011, published in the course book 1.1, T.D.C. Political Science, under *IDOL*, Gauhati University.

3. A translated Assamese version- -a unit containing four chapters on “*Good governance, Human rights, Environmental awareness and communalism, Nation and reservation*” 2011, for Political Science Text Book in co-operation with the National Open School Institution, for Higher Secondary Course.

4. A chapter on “*Union and State Executive and Legislature*”---published on the text book entitled “*Introduction to Politics in India*”, for B.A. 1st semester (major and pass course), ISBN—81-85-916-87-xiii.

5. An article on “*Riverbank Erosion Induced Internally Displaced Persons in Assam: A case of Palasbari*”, published on the “*Journal of Political Science*”, edited by Nani Gopal Mahanta, published by the Department of Political Science, Gauhati University, volume7, october-2012, ISSN--2249-4170.

6. An article on “*Democracy and Internally Displaced Persons: Retrospection Upon Policy Responses*”, published on the journal “*Politeia*”, volume-xx: 2011-12, ISSN--2231-16531.

7. An article on “*Cost-Benefit Ratio of Students Politics: Relativism and Particularities of Assam*”, published on the book “*Students Politics in India: Understanding the Experiences in North East India*”, 2013, ISBN--978-93-81784-66-2.

24. ATWAR RAHMAN

1. Chakraborty, Dhritikesh & Rahman, Atwar. Exponential curve: estimation-using the just preceding observation in fitted curve. *Int.J. Agricult. Stat. Sci.*, 3(2).2007. **ISSN: 0973-1903.**

2. Chakraborty, Dhritikesh & Rahman, Atwar. Gompertz curve: estimation-using the just preceding observation in fitted curve. *Int.J. Agricult. Stat. Sci.*, 4(2).2008.pp.421-424. **ISSN: 0973-1903**

3. Rahman, Atwar & Chakraborty, Dhritikesh. Linear curve: a simple method of obtaining least squares estimates of the parameters. *Int.J. Agricult. Stat. Sci.*, 5(2).2009.pp.415-424. **ISSN: 0973-1903**

4. General linear curve: A simpler method of obtaining least squares estimates of parameters. 2011. *Int.J. Agricult. Stat. Sci.*, 2011. **ISSN: 0973-1903**

25. DR. NILIMA DUTTA

i. Doubling Bifurcations and Time Series Analysis in Two-Dimensional Statistical Chaotic Model. *International Journal of Statistics and Analysis*. Volume 2, Number 3, 2012. ISSN 2248-9959

ii. Bifurcation and chaos in Two Dimensional Statistical Model and their Statistical Analysis. *International Journal of Statistics and Systems*. Volume 6, Number 2, 2011. ISSN 0973-2675

iv. Time Series Analysis and Lyapunov Exponent for a Fifth degree Chaotic Map. *Far East Journal of Dynamical System*. Pushpa Publishing house. Volume 14, Number 2, 2010

26. HAREKRISHNA HALOI

(a) A study of inequalities in education for all: The state of primary education in selected community development blocks of Assam. *The Clarion*, International Multidisciplinary Journal. Volume 3 Number 1 (2014) PP 161-169. ISSN: 2277-1697

27. DIPEN BEZBARUAH

i) The Tea Tribes of Assam-their Search for Identity. 2012. In: Seminar Proceeding. Suren Das College, Hajo. ISBN: 819234400-2

ii) Voice from the Wilderness in Thomas Hardy's Poems. 2013. Seminar Proceeding. Women's Forum D.K. College. ISBN: 9788192296517

iii) Problems of Teaching as a Second Language: A Case Study in the Kamrup (rural) Colleges of Assam. 2013. Published in “Teaching English as a Second Language at the College Level in India: Issues and Prospects.” By Nalbari Commerce College. ISBN: 978-81-922971-2-5

iv) Asom sah janagosthir bhasa : eti somu alokpat. 2013. Published in bhasa “sahityar swarnalipi” , by D.K. College Mirza. ISBN: 97812921871-18

v) Voices in Nissim Ezekiel's Poetry. 2014. Leafage, published by Department of English, Dakshin Kamrup Girls' College. ISBN: 9788192689036

vi) Tourism: An Overview. 2013. In: *Bhraman*. ISBN: 978-93-81859-15-5

28. MONTU SAIKIA

i) Importance of Traveling in Higher Education. 2013. In: *Bhranam*. ISBN: 978-93-81859-15-5

29. DR. DULUMANI DEKA

i) Sakta Dharma aru Asamiya Sakta Sahitya. 2009. In: *Bhakti Sahitya*. Published by: Institute of Distance and open learning, Gauhati University

ii) Saiba Dharma aru Asamiya Saiba Sahitya. 2009. In: *Bhakti Sahitya*. Published by: Institute of Distance and open learning, Gauhati University

iii) Rabhasakalar Sanskriti: Eti Abalokan. 2012. In: Ethnic Conflict and identity crisis in Borth-East India. ISBN: 978-81-923440-0-3

iv) Education for women's economic empowerment. 2012. In: *Economic Empowerment of Women in North-East Region-Issues and Challenges*. ISBN: 978-81-91081-3-7

30. Arup Kr. Sarma

[1] *Iris Verification Using Legendre Moments and KNN Classifier* in the IJESI, ISSN (Online): 2319 – 6734, Volume 2 Issue 8, August 2013, PP.52-59

[2] *Content Based Image Retrieval Using Color, Shape and Texture* accepted for publication in the IJARCS, ISSN. 0976-5697, Volume 5, No. 1, Jan-Feb 2014

Table 3.13: Numbers of publications of the College faculty members

Particulars of publication	Number
Total no. of publication by faculty	159
No. of publications in national journals	92
No. of publications in international journals	67
No. of publications listed in international databases	24
No. of chapters in books	27
No. of books edited/written	29
Books with ISBN/ISSN	21
No. of publications with citation index	122
No. of publications with SNIP	13
No. of publications with SJR	13
No. of publications in journals with impact factor	80
No. of publications in journals with h-index	13

3.4.5 Provide details (if any) of

- **Research awards received by the faculty**
 - i) Dr BK Dev Choudhury, the then Associate Professor, Department of Physics and present Principal of the College, received Summer Research fellowship (2010) at SINP sponsored by IASc, INSA and NASI.
 - ii) Dr Manash Barthakur, Associate Professor, Department of Zoology, received the DBT National Associateship in the year 2013.

- **Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally:**

Some of the recognition received by the faculty members of the College are-

 - i) Dr Nripendra Nath Talukdar, Associate Professor, Department of Chemistry has received one patent. Indian Patent No. 222135 dated 23/07/2008
 - ii) Dr K. S. Deka, Associate Professor, Department of Assamese, has received a prestigious project form the Assam Sahitya Sabha, the highest literary organization of Assam.

- **Incentives given to faculty for receiving state, national and international recognitions for research contributions:**

Faculties are felicitated for their achievement in the College. Special academic leaves are granted for the awardees to continue further research works.

3.5 Consultancy

3.5.1 Systems and strategies for establishing institute-industry interface

UGC sponsored Add-on courses for skill development on Medical Laboratory Technician and Diploma in Travel and Tourism Management have been introduced in the College from the academic year 2013-2014. Medical Laboratory Technician course is running on PPP mode. For this the College has signed Memorandum of Understanding (MoU) with Nemcare Hospital Private Ltd, Guwahati, a super specialty Health Care Unit of North East India. For compulsory computer education Memorandum of Understanding (MoU) is signed with the Guwahati based firm S.S. Technology. The College has an understanding with Pune based Aavinira Biotech Pvt. Ltd. to develop research facilities in the College. Another MoU is signed with SRD Group of Company, Mangaldoi, Assam for Food Processing Technology course under B. Voc programme which is to be introduced in the academic year 2014-2015. The College is also organizing workshops, seminars and symposium in collaboration with other academic institutes and NGOs.

3.5.2 Promotion of consultancy

As situated in a rural area, the faculty members of the College are more or less known to the community and they ask for the expertise from the faculty members as and when required. Faculty members offer consultancy services to the higher secondary level and secondary level schools for demonstration and set up of laboratory instruments. Faculties from the department of Geography, Chemistry and Zoology offer their suggestions to the NGO's and local bodies for solving some social problems.

3.5.3 Institution's encouragement to the staff to utilize their expertise and available facilities for consultancy services

The College authority allows the faculty members to offer their expertise in the needy areas of the society. Sometimes, adjustment in the regular duty is also allowed for consultancy services. The faculty members of the science stream are allowed to provide consultancy services to the nearby

schools regarding the subject matters, practical and laboratory establishment. Most of the faculty members attends seminars, festival oriented programmes, workshops etc. organized by different organizations in and outside the college campus.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years

The area in which consultancy services are provided - identification of plant specimen, language, literature art and culture. Till date no revenue was generated through consultancy service as the service is regarded as voluntary in nature.

3.5.5 Policy of the institution in sharing the income generated through consultancy (staff involved, institution) and its use for institutional development

As the College is not yet practising the consultancy service as an income generating service. This year, *a UGC grant of Rs. One crore eight five lakhs* has been sanctioned to start B.VOC course namely 'food processing and quality management' and 'software development and system management'. The courses are supposed to be income generating through consultancy in our region.

3.6 Institutional Social Responsibility (ISR) and Extension Activities

3.6.1 Promotion of institution-neighbourhood community network and student engagement, contributing to good citizenship, service orientation and holistic development of students

The College promotes institution-neighbourhood community network through public meetings, observation of foundation day of the college where stake holders, guardians and local peoples are invited. Community networking is also promoted through observation of festivals like swaraswati puja, milad-e-mehfil, republic day, independence day, etc. NSS, Scouts & Guides, Science Forum, Red Ribbon Club, Women Study Cell, etc. of the college render social service where the students participate actively.

3.6.2 Institutional mechanism to track students' involvement in various social movements/ activities which promote citizenship roles

To promote the social servicing habits of the students, the teacher-in-charges and co-ordinators of the Students' Union, NSS encourage the students to participate in various activities such as Flood Relief camp, AIDS awareness camp, Blood Donation camp etc. which promote citizenship roles. The college authority constitute Peer Committee/Event Analysis Committee to analyze and submit report about the participation of students in different activities and on the basis of the report of the committee the authority takes necessary steps to increase students' involvement in such activities. The HoDs' of the different departments are also involved for this purpose.

3.6.3 Solicitation of stakeholder perception on the overall performance and quality of the institution

The College solicits the stakeholder perception on the overall performance and quality of the College through various interaction sessions, meetings and some other informal means. The College observes its foundation day on 21st August every year and on this occasion representatives of the stakeholders are invited to the college to take their opinions and suggestions. On last 21st August, 2013 the college organized 'Vision 50 Years' a stakeholder conference where the stakeholders expressed their opinions and suggestions for overall improvement of the college.

3.6.4 Planning and organization of extension and outreach programmes

Different cells, trust, forums, committee of the College as well as the Students' Union, NSS, IBH etc. organize extension and outreach programmes. They plan and execute their programmes without hampering the regular and prime activities of the College. Availability of physical, financial

and human resources are also kept in mind during such planning. Some of the major extension and outreach programmes organized during the last four years are listed below-

Table 3.14: List of some of the major extension and outreach programmes in the College

Sl. No.	Organizer	Activity
1.	IBH	<ul style="list-style-type: none"> i) One day outreach programme on the topic 'Basics of Biotechnology' at Dagaon High School on 30th March, 2012. ii) One day outreach programme on the topic 'Basic Concept of Biotechnology and Genetic Engineering' Sankardev Shisu Niketan, Karara on 9th September, 2013.
2.	Extension Education Cell	<ul style="list-style-type: none"> i) A programme on 'Climate change & our future' for the school children of the neighbouring areas on 09th March, 2011. ii)
3.	Red Ribbon Club	<ul style="list-style-type: none"> i) 'AIDS awareness programme' at Gopalthan High School, Salmara, Kamrup, Assam on 08th March, 2011.
4.	Women studies cell	<ul style="list-style-type: none"> i) Street play and discussion session on domestic violence, 8th March, 2011.
5.	NJ Bhattacharya Memorial Trust	<ul style="list-style-type: none"> i) Lecture on the topic 'Mental health in the changing World: the Need' on 19th November, 2011. Resource person, Dr. Jayanta Das, Psychiatrist, Guwahati, Assam.
6.	Career Guidance Cell	<ul style="list-style-type: none"> i) Organized Legal Literacy Classes and Distributed Legal Literacy Books in association with Assam State Legal Services Authority on 20th August, 2011.
7.	Science Forum	<ul style="list-style-type: none"> i) Lecture programme on the topic 'Gene and Genetic Engineering' at Shankardev Shisu Niketan, Karara, Assam. ii) Popular Lecture on Mathematics, Prof. Krishna D. Atreyi, Gopalthan high school

All the programmes were voluntary in nature with minimum or no monetary involvement.

3.6.5 Promote of the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other national/ international agencies

The faculty members of the College are self-motivated and they think the participation in the outreach and extension programmes as their moral and social responsibility. So, they participate in the programmes themselves and also motivate the students to participate. The College authority provides special Leave on Duty to the faculty members to participate in the extension activities. The Students' Union of the college also motivates the students to participate in the extension activities. Records of participation of the students in different activities are kept.

3.6.6 Social surveys, research or extension work undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society

The Department of Education and Geography conduct surveys every year in the neighbouring villages on different socio-economic aspects of the under-privileged and vulnerable sections of the society thereby empowered them for ensuring social justice. The college authority and the faculty members extend helping hand to the under-privileged and minority community students and try to provide them scholarships from the Govt. source and Poor aid Fund, books from the Book Bank of the library. Department of Zoology organized a Symposium on Entrepreneurship development & modern practices in fishery Management in Collaboration with Institutional Biotech Hub, Pandu College, (Venue Pub Kamrup College), 19-01-2013, which helped the local community.

2.6.7 Objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated

The main objective of the extension activities is to involve the students and faculty members in such activities for greater benefit of the society. The College believes that the expertise available in the college should be beneficial for the entire society, particularly for the students. This is the other objective of the extension activities of the College.

Participation of the students in the extension activities inculcates leadership quality, team spirit, social responsibility among them. They achieve first-hand experience, face real life situation and learn to adjust with different situations through the participation in the extension activities.

3.6.8 Institutional measures to ensure the involvement of the community in the reach out activities and contribute to the community development

The College organizes reach out programmes targeting mainly the community of the neighbouring villages. Participation of the students in these programmes is ensured through the Heads of the host schools. Prior information about the programmes is given to the school authorities so that they can inform and motivate their students to participate in the programmes. When some programme is organized for the common mass, the information is disseminated in well advance mainly through the local leaders and media. The Alumni Association is involved in such cases. Local NGOs like Prakhyan also helps to ensure the involvement of the community.

3.6.9 Relationship forged with other institutions of the locality for working on various outreach and extension activities

The College has good relationship with IIT Guwahati, Assam Science Technology and Environment Council (ASTECC), Institute of Advance Studies in Science and Technology (IASST), Assam Science Society, Botanical Society of Assam, Society for Chemical Education of Assam, local schools and colleges, local NGOs etc. for working on various outreach and extension activities.

3.6.10 Awards received by the institution for extension activities and/ contributions to the social/ community development during the last four years

The President of the College Governing Body and former faculty of the Department of History, Sjt. Pabin Kalita was conferred the prestigious 'Chief minister's Best Social Activist Award' (2012) by Govt. of Assam.

3.7 Collaborations

3.7.1 Collaboration and interaction with research laboratories, institutes and industries for research activities

The College has collaborative and interactive relationship with some reputed institutes like National Brain Research Centre (NBRC), IIT Guwahati, IASST, ASTEC, Tezpur University, Guwahati Biotech Park, etc. Students, researchers and faculty members of the college use the facilities and consultation service of these institutes when required. Experts from these institutes are invited to the College on different occasions like seminars, workshops, etc. Dr Julie Saikia, Associate Professor, Department of Physics has been selected as one of the Co Investigators of Indo-Japan Collaboration from Gauhati University in GRAPES Collaboration. She has one collaborative paper entitled “Current Status of the expanded GRAPES collaboration experiment at Ooty in India”, has already been published in the Proceeding of the 30th ICRC, 2007, Merida, Mexico. She is also collaborated with the Giant Air Shower Lab, Yakutsk, Russia.

3.7.2 MoUs/ collaborative arrangements with institution of national importance/ other universities/ industries/ corporate entities etc. and their contribution to the development of the institution

The College has MoU with NEMCARE, a premier institute of Guwahati in the field of medical science and running jointly an add-on course on Medical Laboratory Technician. In the same way, the College has an understanding with Pune based Aavinira Biotech Pvt. Ltd.; SS Technology, Guwahati; SRD Group etc. is helping the College to design the course/activity like-food technology, skill based orientation programme in the field of agriculture based academic programme, etc.

Though there is no formal MoUs with some of the other institutes, but the relationship is good enough to run different activities and develop the College.

3.7.3 Industry-institution-community interactions that have contributed to the establishment/ creation/ up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories/library/ new technology/ placement services etc.

The College was started with generous contribution of the local people in cash or kind. At the infrastructural facilities were developed using the donations of the local community. The class room No. 1 of the College is named as Late Lalit Ch. Deka Hall as the construction cost of that room was donated by the family members of late Deka. The Red Horn division of Indian Army has constructed a class room spending Rs. 7,00,000/- under its Project SAMARITAN.

3.7.4 Names of eminent scientists/ participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years

Some of the eminent scientists/participants who visited the College and participated in different programmes organized by the College are-

- i) Dr APJ Abdul Kalam, as Chief Guest in the Jana –Vigyan Mela, February 2010
- ii) Dr. Swadhin Pattanayak, Former Director,
- iii) Prof. S. Thangavalue, IISc, Bangaluru
- iv) Prof. Krishna D. Atreyi,
- v) Prof. Jiban Katoki, IASST
- vi) Prof. Probodh Bora, Department of Microbiology and Coordinator, State level Biotech Hub, AAU, Guwahati
- vii) Dr. Jayanti Chutia, Former Director, IASST
- viii) Dr. Gautam Baruh, Former Director, IIT, Guwahati
- ix) Gautam Biswas, Director, IIT, Guwahati, etc.

The national seminars/workshops organized by the College are-

- i) Department of Biotechnology, Govt. of India sponsored Workshop on Application of allied sciences(Physics, chemistry, Mathematics, Computer Science) in life-science study, 2013
- ii) DST, Govt. of India sponsored Workshop on ‘Motivation generation towards mathematics among the students of middle and secondary level’, 2014.

3.7.5 Linkages/ collaborations that have resulted in formal MoUs and agreements

a) Curriculum development and enrichment:

The faculty members have linkages with different organization and rendering their service at different level. Some of the faculty members of the College are engaging themselves in curriculum development of different universities-

- i) **Dr Balendra Kr Devchoudhury**, Principal
Special invitee of the syllabus development of Department of Physics and Mathematics, Gauhati University, Assam.
- ii) **Dr Khagesh Sen Deka**, Associate Professor, Department of Assamese has the linkages which result in contributing for enrichment in related field (shown along with the outcome)-

1.	Pali-Prakrit-ApabhramsaBhasa (Unit 3, 5, 6, 7, 8) Gahasattasae, AbhijnanaSakuntalam, SandesaRasaka, Kirtilata, Pali-Prakrit- ApabhramasaBhasa, Sanskrit-Pali- PrakritApabhramsaBhasarTulanamulak Byakaran-1, 2, 3.	<i>Pali-Prakrit-ApabhramsaBhasar Path aruTulanamulakByakaran</i> , 2013, SLM, KKHSOU
2.	Asomiya Romantic Kabita (Unit-II, 30–49)	<i>Asomiya (MIL)</i> (Block-I), 2010, SLM, KKHSOU
3.	SoraguriCapori (Unit-7, 121–178	<i>Asomiya(MIL)</i> (Block-II), 2010,SLM of KKHSOU
4.	i. Guru Sisyar Mani KancanSanjog (Unit-I, 7–30) ii. SwargadewRudrasingha (Unit-II, 31–56)	<i>Asomiya(MIL)</i> (Block-I,3 rd yr.), 2010, SLM, KKHSOU
5.	AsomiyaByakaran (Unit-X, XI, XII & XIII, 134– 240)	<i>AsomiyaByakaran(El.As)</i> (Block-II), 2009, SLM, KKHSOU
6.	Edited	<i>Madhya BharatiyaAryabhasar Path</i> (Block-I & II), 2009, SLM, IDOL, G.U.
7.	AsomiyaBhasarKramaBikas (Unit-I, 5–27)	<i>AsomiyaBhasarOitihasiKikas</i> (Block-I), 2009, SLM, IDOL, G.U.
8.	Kirtilata (Unit-III, 42–56)	<i>Madhya BharatiyaAryabhasar Path</i> (Block-III), 2009, SLM, IDOL, G.U.
9.	AsomiyaBhasarUpabhasa (Unit-I, 4–28)	<i>Upabhasa- bijnanAruAsomiyaBhasarUpabhasa</i> (Block-I), 2009, SLM, IDOL, G.U.
10.	Edited	<i>AsomiyaSahityarBuranji(El. As.)</i> (Block-II), 2008,

		SLM, KKHSOU
11.	i. BhattadevarGadya-Riti (Unit-2, 19–43)	<i>AsomiyaGadya</i> (Block-I). 2007, SLM, IDOL, G.U.
	ii. Katha-Bhagavat... (Unit-3, 44–50)	
12.	BhasabijnanarParicoy (Unit-I, 6–34)	<i>Bhasabijnan-</i> (Block-I, II), 2007 SLM, IDOL,G.U.

- iii) **RinaDeka**, Assistant Professor, Department of Maths., Member of the syllabus committee, Department of Mathematics, **Gauhati University**
- iv) **Mahananda Kr Pathak**, Associate Professor, Department of Maths., Member of the syllabus committee, Department of Mathematics, **Gauhati University**
- v) **Dr Kamal Sarma**, Associate Professor & HoD, Department of Zoology, prepared the syllabus for Medical Laboratory Technician Course under Gauhati University.
- vi) **Imdad Ali Ahmed**, Assistant Professor, Department of History
Course writer of History of *Krishna Kanta Handique State Open University (KKHSOU)*, 2009.

b) Summer placement:

Table 3.15: Students' summer placement in institution of higher learning

SI No	Name of the Student	Department	Programme attended	Institution	Funded by	Year
1	Seemasri Deka	Mathematics	Mathematics Traininig and Talent Search Programme (MTTSP)	IIT, Guwahati	IIT G	2011
2	Harun Al Rashid	Physics	Summer School	Jamia Millia Islamia, New Delhi	IAS, Bangaluru & NSA, New Delhi	2012
3	Manashi Bharadwaj	Botany	Summer School	Tezpur University		2012
4	Kabita Deka	Physics	Summer Research Programme for the students	Bharathidasan University, Tiruchirappali	IAS, Bangaluru & NSA, New Delhi	2013

c) Faculty and student exchange and professional development

Table3.15: Faculty and student Exchange programme

Department involved	Exchange programme	No. of students & teacher participated	Year
Assamese	Student Exchange Programme held at Visva Bharati University, Shantiniketan with Dr. Kailash Patnayak& Dr. Giribala	15 students/ 2teachers	2012

	Mahanty, Department of Oriya.		
Physics	Department of Physics, IITG	48students/ 4 teachers	2012
English	Students exchange Programme at MNC Valika Mahabidyalaya, Nalbari	50 students/ 2 teachers	2012
	Students exchange Programme with K R B Girls' College, Guwahati, in Pub Kamrup College	50 students/3teachers	2013
Economics	Students exchange Programme at Goreswar College, Goreswar	25 students/3teachers	2013
Physics	Institute of Plasma Physics, Sonapur	40students/ 2 teachers	2013

d) Publication: Some of the collaborative research papers are-

Dr Julie Saikia, Associate Professor, Department of Physics, has GRAPES Collaboration and published a paper "Current Status of the expanded GRAPES collaboration experiment at Ooty in India" in the Proceeding of the 30th ICRC, 2007, Merida, Mexico.

Dr U J Medhi, Associate Professor & HoD, Department of Chemistry, has collaboration with IASST, Guwahati, which has resulted the publication of the following papers-

- i) UJ Medhi, AK Talukdar and S Deka, 2005. Physico chemical characteristics of lime sludge waste of paper mill and its impact on growth and production of rice. *Jr. of Industrial Pollution Control* 21(1), pp 51-58
- ii) UJ Medhi, AK Talukdar and S Deka, 2008. Effect of pulp and paper mill effluent on seed germination and seeding growth of mustard, pea and rice seeds. *Poll Res* 27(3), pp 437-442
- iii) UJ Medhi, AK Talukdar and S Deka, 2009. Agropotentiality of lime sludge waste from the paper industry. *Current Science*, Vol. 97, No. 10, 25 Nov. 2009
- iv) UJ Medhi, AK Talukdar and S Deka, 2011. Impact of paper mill effluent on growth and development of certain agricultural crops. *J. Environ. Biol.* 32, 185-188 (2011)

Dr Kamal Sarma, Associate Professor & HoD, Department of Zoology has collaborative works with Dr. Prabir Kr. Bondopadhyaya, Professor, Department of Zoology, Kalyani University, West Bengal and two research papers are in the process of publication.

e) Introduction of new courses:

* The collaboration with the NEMCARE Hospital Pvt. Ltd., a super specialist hospital in Guwahati, resulted the introduction of a new add-on course- Medical Laboratory Technician, which is first of its kind in a general college in NE India.

* UGC has sanctioned Rs. 1,85,00,000/- to open UG level Food Processing & Quality Management course and Software Development & System Analyst course in the College. The first one is a result of the collaboration with the SRD Group, Mongaldoi, Assam.

3.7.6 Efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations

The College plans for linkage/collaborations on the basis of the need that arise from time to time. Autonomy is given to the departments or the individual faculty members for taking decisions about such cases.

3.7.7 Other relevant information regarding Research, Consultancy and Extension which the College would like to include:

The College feels happy in submitting the “Expression of Interest (EOI) for Initiating Policy Research Centre” to DST, Ministry of Science and Technology, Govt. of India as per the advt. published by DST. The proposal states:

The understanding of science and scientific ways of thinking is essential to participation in democratic decision making when issues concerning science are involved. It is already rightly projected that the understanding the complex relationship between cultural diversity, gender and science education is important as it affects the students’ choice of taking up an education in science [Chunawala & Natarajan, Homi Bhabha Centre for Science Education]. The timely taken great decision of establishing 4 – 5 Policy Research Centre during the 12th Plan Period in the country is highly expected to take the complex relationship between cultural diversity, gender and science education. From the point of cultural diversity, the North-East is as if a mini India. The comparative slow progress, crippled many ways in communication and strategically important location encourage the North-East to place “Expression of Interest (EOI) for Initiation of a Policy Research Centre” so that the region can come out to be placed in a position to share equally in Nation’s prosperity and development. The overall connectivity to the other part of our country, socio-economic status, educational background, etc. project Assam rightly the gateway of North East. So at the present juncture, Assam is supposed to have one of the Policy Research Centres to cater the much needed planning for science, Technology & Innovation (STI) sector specifically to North-East region. With this understanding and realization, Pub Kamrup College, Baihata Chariali – 781381, Kamrup, Assam, *recognized as Star College under ‘Star College Scheme’ sponsored by the Department of Biotechnology, Govt. of India* critically analyses its plus and minus points to have the Policy Research Centre in its campus. The analysis promotes the College to have some solid points for this opting specifically for the following grounds:

- (i) The College alumni are pursuing science research & teaching career in prestigious International/National academic institute such as Imperial College, London, Delhi University, IIT Guwahati etc. They are willing to offer possible services if the centre is once established.
- (ii) The College is enjoying its locational advantage. Pub Kamrup College is situated in the North bank of Brahmaputra, only 14 km away from IIT Guwahati and 22 km away from Gauhati University, its affiliating University. In various academic and policy making activities, the college gets directly benefited by the faculties from these two premier institutions.
- (iii) The College specifically in science stream shows very good academic result in undergraduate university examination. In Physics, the continued good result is the attracting point for the new comers. With brilliant academic results, the some of the promising students are pursuing research activities in the prestigious institutes.

The inspire scholarship recipient, summer research fellowship awardees among undergraduate students are also the encouraging points for future planning.

- (iv) The visit of academicians of repute as for example such as Prof. Thangavelu from Indian Institute of Science, Bangalore, Prof. K. D. Atryee, the visiting faculty of IOWA State University, and their willingness to offer suggestion and help to the welfare of the College are some boosting points for the College future plan.

With these above mentioned points and some of the other considerations supposed to be followed with commitment, Pub Kamrup College decides to forward the Expression of Interest (EOI) for initiation of a Policy Research Centre. The future shaping in science, technology and innovation must originate from undergraduate, - with this belief, Pub Kamrup College dares to take the responsibility of one of the Policy Research Centre for formulating and implementing the stated activities of a dedicated PRC specifically for the entire North-East. Our targeted focus field will be mainly of the undergraduate level.

Whatever the outcome of the submitted proposal, the College is planning this which is also included in the proposal, to try its best to lead the work in the following fields:

- Theoretical Physics and Mathematical based themes and aspects
- Research Activities in Astrophysics and Cosmology for Undergraduate Level
- Bio-Chemical Study of Indigenous Medicinal Plants and Product
- Nano – Science and Nano-technology
- Medical Biotechnology

CRITERION IV

INFRASTRUCTURE AND LEARNING RESOURCES

4.1.1. Policy of the institution for creation and enhancement of infrastructure that facilitate effective teaching and learning

At the beginning of each semester, the Departmental Heads make discussion with colleagues regarding the syllabus, required books, number of students, laboratories equipment's etc., for smooth functioning of the semester programmes. Based on the need analysis, resolutions are undertaken and send to the Principal for assessment and approval. For subject wise current information and up-to-date knowledge, Librarian is requested to make necessary arrangement especially for books and journals. After getting all information's, the Principal moves for Governing Body's approval and accordingly he forwards to the officials and respective heads for necessary action.

To ensure effectiveness of the teaching learning process, the College authority is always keen to develop its infrastructure. After having need base and necessary discussions the Management (Construction Committee and Governing Body) makes every effort to meet the growing demands of the infrastructure in the College. Regular audit of the expenditure incurred for the developmental works are done and the report of the same is sent to the respective funding agency. For sound enhancement of the infrastructure, the Principal submits project proposal to UGC and other Govt. funding agencies like DST, DBT, MNRE, MOFPI etc.,. The Principal also submits project proposal for introducing time demanding new courses and programmes as well as to develop infrastructures.

4.1.2. Details of the facilities

Curricular and Co- curricular activities

The College is spread over to just 5.95 acres land where every effort is made by the authority for sound adjustment of all the required facilities for dynamic acceleration of education as demanded by modern higher education system. Initiatives are going on to procure new plot of lands adjacent to the existing College campus by the authority. With limited land holdings, the College is equipped with the facilities for different curricular and co- curricular activities as depicted in the following.

Table 4.1: Academic section

Sl No	Facilities	Total Number	Uses	Area/Capacity	Remark
1.	Class Room	24	For teaching and learning	--	Used as per class routine
2.	Central Library	01	Reading, Reprography, Collection of Study material	264.015 Sq. mtr	Open access
3.	Departmental Libraries	14	Reading and collection of study material	About 3735 books	Allowed to use mainly by the major students
3.	Departments	15	For performing	At least 1	BSNL

	with internet connectivity		departmental activities	computer connected with internet facility in each department	internet connection under NME-ICT
3	Seminar/ conference hall(Air Conditioned)	01	General and Departmental Seminar/ Conference/ Workshop are conducted	77 Sq. mtr/ 36 persons	As per convenience
4	Air conditioned Audio-visual Room having N-computing & all SMART class facilities	01	Classroom activities	78.72 sq mtr./60 persons	On pre-determined specific day
5	Class Room with LCD projector with smart board facility	04	For effective deliberation	150 students per room	Routine Class and can be used for other classes when not in use
6	Laboratories for Arts & Science Stream Botany-02, Chemistry-02, Physics-03, Statistics-01 Zoology-02, Geography-01, Education-01 General Computer lab-02	14	Practical works are done	Botany-20, Chemistry-30, Physics-50, Statistics-20 Zoology-30, Geography-30, Education-50 Computer Lab: (i) 105.84 Sq mtr (ii) 78.72 Sq. mtr	
7	Departmental Computer Lab (Comp. Sc)	01	For practical purpose of undergraduate students of Computer Science	16	
8	Dark Room of Physics	02	For practical works	--	
9	Museum for Zoology	01	For practical works	--	
10	Laboratories for Add –on Course	01	For demonstration of Model & charts of MLT courses.	40	
11	Institutional	01	For research and	109.74 sq. mtr.	Sponsored

	Bio-Tech hub		specific practical works of life science departments		by DBT
12	Auditorium	01	Multi purpose	204.6 Sq.mtr./350	Built under MPLAD Fund, Dr. Manmohan Singh
13	Computer	85	For official and departmental works and for students.	--	--
14	Aquarium Room	01	Used for research project works and short term student project works	--	--

Table 4.2: Administrative section

Sl No	Description of the facility	Total number	Area
1.	GB's Presidents Chamber	01	48.72 sq.mtr
2.	Principal's Chamber	01	52.92 sq .mtr
3.	Vice Principal's Chamber	01	25.2 sq.mtr
4.	Administrative Staff Office Room	05	147 sq.mtr
5.	IQAC Office	01	41.34 sq .mtr
6.	Store room	03	57.2 sq.mtr

Table 4.3: Special facilities

Sl No	Description of the facility	Total number	Area
1.	Girls' Hostel	01	3900sq.mtr
2.	50KW Solar power plant	01	283.5 sq mtr
3.	In Campus Book Stall	01	11 sq. mtr.
4.	Offset Printing Press	01	11 sq. mtr.
5.	Power Generators	04	--
6.	Water Purifier	04	--
7.	College Canteen	01	80.3 sq.mtr
8.	Boys' Common Room	01	289.72 sq.mtr
9.	Girls' Common Room	01	108.36 sq.mtr
10.	Office of the Student Union	01	26.28 sq.mtr
11.	Bi-cycle Stand	01	161 sq.mtr
12.	Pond	01	585 sq.mtr
13.	Botanical garden	02	450 sq.mtr
14.	Extension education room	01	36.5 sq.mtr
15.	Lavatory(common)	05	--
16.	Lavatory (Departmental)	11	--
	Lavatory (Library/ Administrative)	5	--

	Office/ IQAC/ BioTech Hub)		
17.	IMD Automatic Weather station	01	5 sq mtr.
18.	Television with CD player	01	--
19.	LCD Projector	03	
20.	Overhead Water Tank for running water supply (Laboratories, departments, offices, Library, Boys' & Girls' common Room, Lavatories, Botanical garden, Canteen and Girls' Hostel)	03	--
21.	CC TV Camera	32	--

Table 4.4: Special facilities for extracurricular activities

SI No	Description of the facility	Total number	Area
1.	Playground	01	2210 sq mtr.
2	Volley Ball Court	01	88.87 sq mtr.
3	Badminton Court	01	81.74 sq. mtr
4	Table Tennis	01	--
5.	Physical fitness room (under construction)	01	--
6.	Indoor Stadium (Construction in progress)	01	--
7.	NSS Unit	01	--
8.	Scout and Guide Unit	01	--
9.	Sound system	05	--

4.1.3. Planning of Infrastructure to keep up with Academic Growth and Optimal Utilization

At the beginning of each academic year, considering the inputs from all the stakeholders the Principal discusses with Governing Body and Construction Committee/ Purchase Committee for replacement of and new addition to the existing one to keep pace with the necessary infrastructure for growing number of students.

In the last four years numbers of infrastructure developmental works have been done. Initiatives are taken to expedite the completion of ongoing projects and a lot of are planned in the days to come. Following table enlisting the completed, ongoing works of our institution-

Table 4.5: List of completed / ongoing works

	Infrastructure developed	Ongoing/ Completed	Fund allocation (in Rs.)	Funding source	Year of completion
1.	Two floors	Completed	1,20,00,000/- 29,40,000/- 26,08,886/-	State UGC College	2013
2.	Women hostel	Completed	100,00,000/-	UGC	2009
3.	Girls Common	Completed	4,00,000/-	State Govt.	2009-10

	room			of Assam	
4.	Hostel approach road	Completed	2,00,000/-	MGNREGS	2013
5.	playground	Ongoing	4,90,000/-	State and College	.....
6.	Indoor stadium	Ongoing	67,50,000/-	UGC	.....
7.	Four stories Science Block	Ongoing	9,00,000/- 100,00,000/-	UGC State	.....
8.	College compound wall	Ongoing	.....	College	.....
9.	Principal's Quarter	Ongoing	.....	College	.....
10.	seminar/conference halls with LCD projectors and smart board	Completed	.....	State Govt.	
11.	Institutional bio-tech hub	Completed	27,00,000/-	DBT, Govt. of India	2013
12.	Entrepreneurship Promoting Botanical Garden with Net house	Completed	3,00,000/-	College Fund	2009
13.	Internet facility	Completed	1,60,000/-	BSNL internet connection under NME-ICT	2013
14.	Solar Energy Plant with 50 KW capacity	Completed	1,35,00,000/-	Ministry of Renewable Energy, Govt. of India	2013
15.	Power generators	Completed	6,29,000/-	UGC	2012
16.	Offset press	Completed	6,10,000/-	College Fund	2014

The details of the expenditures of the last four years for developing infrastructure are shown in the following table.

Table 4.6: Infrastructural grant received and spent during last four years

Year	Infrastructural Grant/ Scheme	Funding Agency	Amount (In Rs.)
2009-10	Infrastructure development Grant	UGC	10,00,000/-
	Women hostel	UGC	40,00,000/-
	College development Grant	UGC	8,50,000/-

	Girls Common Room	State Govt.	4,00,000/-
2010-11	Women hostel	UGC	100,00,000/-
	College development Grant	UGC	10,07,000/-
	Infrastructure grant	State Govt.	4,90,000/-
2011-12	College development Grant	UGC	29,16,000/-
	Additional grant	UGC	21,78,390/-
	Infrastructure development grant	State Govt.	9,80,000/-
2012-13	College development Grant	UGC	8,80,000/-
	Additional grant	UGC	2,41,492/-
	Additional grant	UGC	12,00,000/-
	Sports infrastructure (Indoor stadium-Continuing)	UGC	37,50,000/-
	Infrastructure grant	State Govt.	14,70,000/-
2013-14	College development Grant	UGC	1,00,000/-
	Sports infrastructure (Indoor stadium-Continuing)	UGC	30,00,000/-
	Additional Grant	UGC	2,00,000/-
	Infrastructure grant	State Govt.	4,90,000/-

Future expansion and master plan of the College

The Master Plan of the College is so formulated that our College-aim and objective can be satisfied in desired footing. The future expansion plan is supposed to be followed into two categories-

- I. Infrastructure
- II. Academic

Infrastructural Plan–

Different infrastructural facilities are planning to develop with the growing demands of the students and stakeholders. The facilities which are projected to complete within XII plan period are- Construction of boys' hostel, Principal's Quarter, recreation hall, entrepreneurship motivation centre for vulnerable section, establishment of cultural museum, Biodiversity museum, Health care centre, Sports development centre and meditation cum yoga centre.

Academic Plan-

To meet the demand of present academic scenario of the Country, the College is planning to introduce more skill based and research oriented courses. The whole academic plan of the College is divided into- General Education Development Plan, Life Science Development plan and Skill Based Development plan.

In the First phase of the academic plan all UG departments will be converted to full fledged PG departments. This will come under the General Education Development Plan of the College. In this phase a Policy Research Centre will also be established in the College. Already a major project proposal on Policy Research Centre has been submitted to DST, Govt. of India for this purpose.

In the second Phase the best departments will be upgraded to quality research centre. Importance will be given for the research in the Life Science and allied sciences. Already existed Institutional Level Biotech Hub and Star College Scheme of DBT will be instrumental in this direction. All these effort will come under the Life Science Development Plan of the College.

In the third phase need based skill development courses will be introduced. Already two skill based add - on courses have been approved by the UGC by a grant of Rs. 17,00,000/- during the session 2013-14 in PPP mode. Moreover two skill based programmes under B.Voc courses have been approved by UGC by granting Rs. 1,85,00,000/- for the session 2014-15 in PPP mode .

4.2 Library as a Learning Resource

4.2.1 Library Advisory Committee – Composition and Significant Initiatives

There is a Library Advisory Committee comprising the Principal, Librarian and Faculty representatives. The Principal and Librarian are the Chairperson and Convener respectively.

To develop this Center of knowledge and Learning more student/ user friendly, the committee takes decisions and advises accordingly to the Librarian and more particularly in the following matters:

*General functioning of the library

*Redress of students' grievances regarding the library.

*Student feedback

*Subscription of journals of various subjects

*Stock verification of books, journals and e-resources

*Allocation of funds and grants

*Purchasing of books

*Improvement of infrastructure of the library

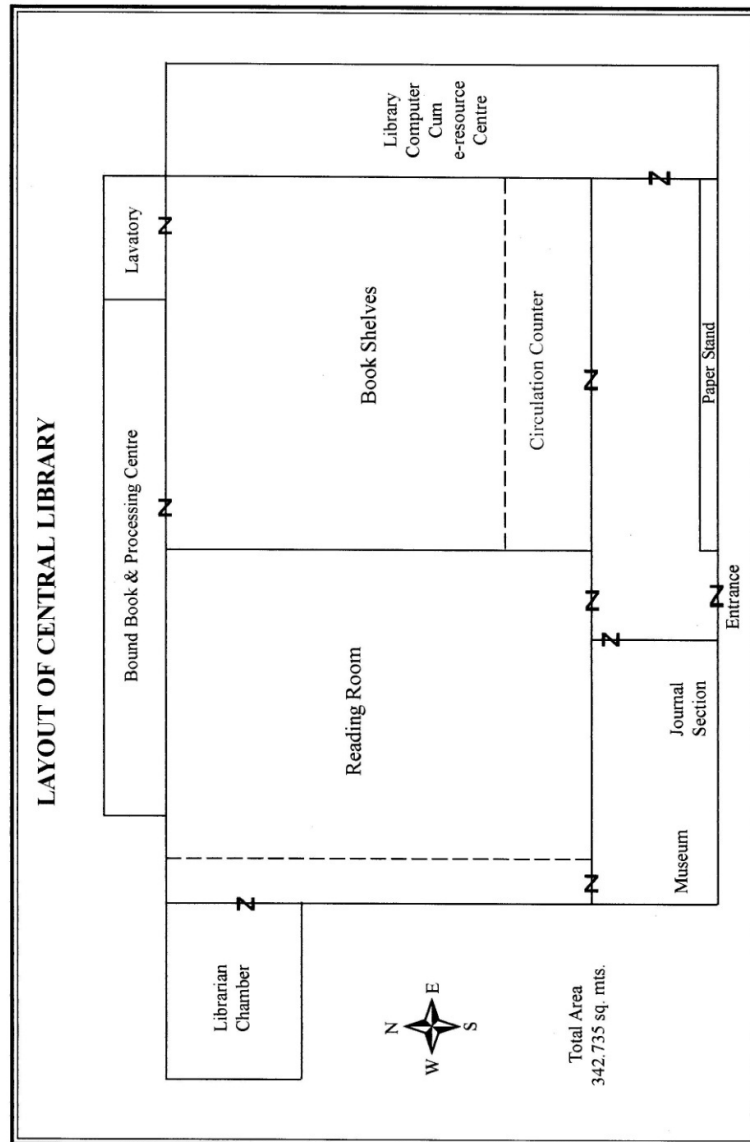
4.2.2 Physical Facilities, Learning Resources, Specialized Services and Working Hours

The centrally located College Library has been providing sound facilities to all the knowledge thirsty students, faculties and others. Besides the Central Library, each and every department of the College has their own departmental library. The detail of the facilities of the library has been shown by the following table.

Table 4.7: Details of Physical facilities

Total area of the library		264.055Sq.mtr
Total seating capacity		80
Working hours	On working days	9.00 A.M. -- 4.30 P.M.
	Before Examination day	9.00 A.M. -- 4.30 P.M.
	During Examination day	9.00 A.M. -- 4.30 P.M.
	During holiday	Closed
	During vacation	9.00 A.M. -- 4.30 P.M.

Layout of the library:



The library is decentralized for individual reading carrels, and IT zone for browsing, relaxed reading and accessing e-resources.

4.2.3. Purchase and Use of Current Titles and Journals

At the beginning of the academic year, the Library Advisory Committee asks all the departments to recommend necessary books and journals for their curriculum and research

activity. Their recommendations are approved by the Committee on the basis of the reviews of books and journals, catalogues and brochures received from the publishers and accordingly the Librarian takes necessary action. From the specific fund received, the College purchased 26700 books till 2014. The MP of the Mangaldoi Parliamentary Constituency Sri Ramen Deka donated 240 books in 2012-13. There is also a mechanism of allocation of funds by the Authority to the departments to purchase books every year. Besides the books available in Central Library, all the departments have departmental library where a good number of reference books and journals are available.

The following table summarizes the amount spent on purchase of books and journals during the last four years for the Central Library.

Table 4.8: Amount spent on purchase of books and journals

Library holdings	2009-10	2010-11	2011-12	2012-13
	Total Cost in Rs.	Total Cost in Rs.	Total Cost in Rs.	Total Cost in Rs.
Text books	2,50,000/-	50,000/-	48000/-	30,654/-
Reference books	1,03,000/-	15,000/-	22000/-	-----
Journals/ periodicals	47,000/-	5000/-	10,000/-	4000/-

4.2.4: Details on the ICT and other tools deployed

The library has the ICT facilities and other tools which are deployed to provide optimum access to the library collection.

Table 4.9: ICT and other tools in the Library

ICT facilities	Availability
OPAC	Recently started
Library Website	www.pkclibrary.co.nr
In-house/remote access to e-publications	British council online Library
Library automation	Automated using SOUL 2.0
Total number of computers for general access	1
Total numbers of printers for general access	1
Internet speed	10 mbps
Participation in resource sharing networks/consortia	Joined the N-LIST of INFLIBNET
Reprographic	01
Computer cum E-resource access center	01

4.2.5: Details of the use of library.

Table 4.10: Details of the use of library

Average number of walk-ins(Per day):	250
Average number of books issued/returned: (Per day):	150

Ratio of library books to students enrolled:	132
Average number of books added during the last three years	6000
Average number of login to OPAC	Recently started
Average number of login to e-resources	Not available
Average number of e-resources downloaded/printed	Not available
Number of IT (Information Technology) literacy trainings organized	Mandatory for major student

4.2.6: Details of Specialized Services

Book Banks: The College Library has the Book Bank Facility, started since 2006 with the UGC assistance under the head of 'Young College Scheme'. The purpose of the Bank is to foster the fellow feeling attitude among the student community of the College. 823 (Eight hundred and twenty three) numbers of book amounting Rs. 1,00,000/(Rupees one lakh) only are available in the Book Bank which are allotted to the selected students throughout the year. Some more books will be procured in near future for this purpose.

Question Banks: Question papers of three years degree course as well as newly introduced semester examinations and Higher Secondary examinations of a last couple of years are preserved for the ready reference of students.

Jnankosh: A new Book Bank Scheme for the meritorious degree students of Pub Kamrup College has been initiated from this Academic Year 2013-14. In its initial stage the Scheme will benefit the students of 3rd & 5th Semester respectively. Encouraging the advance learners by issuing additional course (Major) related books is the main aim of this newly introduced scheme.

Career Information: A number of career oriented books and magazines are available in the Library. Students can orient for competitive examinations and higher education from this resource. The Library also displays career and job information regularly on the display board. For day to day knowledge, 08 nos. regional and national level newspapers are regularly subscribed. The Employment News is the regular subscription in PKC Library. 23 nos. of journals are also subscribed for the convenience of the student and teachers.

Library Award: To generate library using habit of the students, the library offers the Best Reader Award and the Best Borrower Award annually to the students.

Use of Library Feedback for Improving Services: The Library collects feedback from users in a specific Feedback Form in online mode. It is analyzed and discussed by the committee to redress grievances, further enhance facilities and improve services of the Library.

Manuscripts: The library is well equipped with rare manuscripts collected from the locality. It has been able to collect nearly 60 nos. of manuscripts.

Reference: A rich reference section consisted of different reference sources like encyclopedia, dictionary, thesaurus etc are there. A number of reference books are also there in the library.

Reprography/Scanning: There is one digital reprographic machine in the library.

OPACS: A kiosk for OPAC will be installed soon in the library.

Internet Access: There is a Computer cum e-resource Access Centre where the user can avail the facility of internet browsing, downloading and printing.

Reading list/ Bibliography compilation: This is done on demand using SOUL 2.0

User Orientation: Besides the face to face interaction, Online Orientation programme is available at www.pkclibrary.co.nr

4.2.7 : Support provided by the library staff to students and teachers:

The Library Staffs provide the facility of accessing library resources during the working hours. Under graduate students can borrow four books for major subject, two books for general subject at a time. Faculty member can borrow 10 books. To make borrowing more convenient, the Library has made the provision of SMART CARD for both students and faculties. Students can borrow books on the time slots allotted to them by the Library. Photocopies of learning materials are made available to the Library users on a cost-payment basis. The students also get the extended library services from the departmental libraries.

4.2.8 Infrastructural development of the library during last four years

Various infrastructures of the Library have been developed to meet up the necessary facility required for the student during last four years.

Table 4.11: Infrastructural development in the library

Activity	Year
Extension of the reading room area	2011-12
Career Information Display Board	2011-12
New Computer cum e-resource center	2013-14
Division in to two separate section i.e. Bound periodical section and Librarian Chamber	2013-14
Attached toilet (For Staff only)	2013-14
New book stands	2013-14

CRITERION V

STUDENT SUPPORT AND PROGRESSION

Introduction

The Pub Kamrup College Authority has made all possible efforts for all round development of the student community. The students are guided by a team of dedicated teaching as well as non-teaching staffs led by the College Principal. For their overall development, students are supported with required information as well as academic training, mental training, physical training, career-oriented training etc.

In the College, the following support services are provided for students' benefit:

- Library facility
- Computer Lab with internet connectivity
- Digital Conference Room / Smart Classroom
- Hostel facility (For Girls only),
- Laboratories (with a DBT sponsored Bio-tech Hub & Star College Scheme)
- Scholarships and other financial assistance
- Canteen
- Poor aid fund
- Book bank
- Gyan Kosh
- Insurance facility
- Sports facility

5.1 Student mentoring and support

To provide quality education to the young generation and prepare them as responsible citizen of the Nation to face the challenges of time- the Mission of Pub Kamrup College reflects its student mentoring and supportive nature. The Pub Kamrup College always encourages its student community and motivates them to choose a right track with an academically sound and rewarding environment. The College authority considers student support as an essential and most important component of its functioning. With the inspiring and well-trained teaching and non-teaching staffs, College fraternity make earnest efforts to ensure the maximum utilization of the various facilities provided for the progress of the students.

The Authority forms various committees/ cells for taking care of the students' need from the day of their admission in the College. The Committees/ Cells are:

- i. Class Management Committee
- ii. Academic Committee
- iii. Campus Cleanliness & Beautification Committee
- ii. Co-curricular Activities Monitoring Committee
- iii. Sports Management Committee
- iv. Career Guidance Cell

- v. Committee for Environmental Concerns
- vi. Anti- Ragging Committee
- vii. Committee for Youth Empowerment and Value Education
- viii. Grievance Redressal Cell
- ix. Girls' Hostel Management Committee
- x. Students' Election Committee
- xi. College Canteen Management Committee
- xii. Women studies Cell
- xiii. Office Management Committee
- xiv. Research & Publication Committee
- xv. IT Resource Management Committee
- xvi. Library Management Committee
- xvii. Inter Departmental Activities Organizing Committee
- xviii. Seminar Cell
- xix. First Aid and Disaster Management Committee
- xx. Student Financial Assistance Management Committee
- xxi. College Press Management Committee

NSS and the Scout & Guides organize and participate in various social activities including community service time to time to inculcate the social responsibility among the students.

The personal development as well as development skill of the students are given due importance and programmes with special areas are organized in the College with the help of internal and external experts.

Table 5.1: Programmes organized for personal enhancement and development skill of the Student

Sl No.	Name of the Programme	Resource person/guest	Year
1.	Talk on 'Role of Newspaper and Journalism in Building Modern Society'	Dhirendra Nath Chakraborty, Eminent journalist	2009
2.	Jana Vigyan Mela	Dr. A.P.J. Abdul Kalam, Eminent Scientist and Former President of India	2010
3.	Yoga Camp	Personnel from Indian Army, Red Horn Division	2010
4.	Yoga Camp in collaboration with Mohabahu Sangha (NGO)	Personnel from Mahabahu Sangha	2010

5.	Street play on Awareness on HIV/AIDS (Theme: Away!Away!HIV/AIDS)	Department of Education.	2010
6.	Programme On Vitamin A	Dr Arun Baruah, AIWA University, USA	2010
7.	Lecture on 'Ethics of Journalism'	D. N. Bezbarua, Eminent journalist	2010
8.	5 days Volley Ball Coaching camp organized by the College	-	2011
9.	Students Seminar on 'Climate Change and Our Future' organized by the Extension Education Cell participated by the students from the feeder schools and students of the College	Dr. Nripendra Nath Talukdar, Department of Chemistry, Pub Kamrup College	2011
10.	AIDS awareness programme, organized by the Red Ribbon Club, PKC	Mr. Suresh Deka, Department of Zoology, Dr. Dipak Konwar, Department of Botany, Pub Kamrup College	2011
11.	Street Play on 'Domestic Violence' organized by Women Study Cell, PKC	-	2011
12.	Talk on 'Mental Health in the Changing World-the need'	Dr. Jayanta Das, Psychiatrist, Guwahati	2011
13.	Lecture on Mental Health by Oisoriya Biswa-Vidyalaya.	Resource personnel from Oisoriya Biswa Vidyalaya.	2011
14.	Programme on 'Legal Literacy Classes & Distribution of Legal Literacy Books'	Resource personnel from Assam State Legal Services Authority, Govt. of Assam	2011
15.	'Mock Parliament' organized by the Debate and Symposium section Pub Kamrup College	-	2012
16.	'Career Prospect in Higher Education' – a talk	Dr. Sasanka Deka, Department of Chemistry, Delhi University	2012

17.	Awareness programme on Human Rights organized by National Human Rights Commission in collaboration with State Human Rights Commission, Assam and District Administration, Kamrup	Justice Aftab Hussain Saikia, Chairperson, Human Rights Commission, Assam	2012
18.	“Constraint in Self focus of the Assamese Youth in the National Perspective” -a lecture	Prof. Jayanti Chutia, Scientist, Plasma Research Centre, Assam	2012
19.	Programme on ‘Career Options’	Barnali Deka, IAS	2013
20.	District level Quiz competition entrusted by the State Government as a nodal College in the district on the occasion of <i>Gandhi Jayanti</i> .	-	2013

5.1.1 Information support

The Pub Kamrup College provides all required educational information through the following means:

- (a) The Gauhati University's academic calendar meant for all affiliated colleges (*gauhati.ac.in*)
- (b) The College prospectus
- (c) The College website (*pubkamrupcollege.org*)
- (d) Information display board
- (e) Public Address System
- (f) News Bulletin

The Pub Kamrup College publishes the College prospectus in the beginning of the new academic session every year. This prospectus printed in book form works as a handbook that helps the students in getting a bird's eye view of the College. In the College Prospectus, information is included in the following content:

- i) Vision and mission of the College
- ii) About the College
- iii) General information including Rules and regulations of the College for the students
- iv) Programme/courses offered
- v) Course structure, subject combination and evaluation pattern
- vi) Fee structure
- vii) Uniform
- viii) List of teaching and non teaching staff
- ix) Teaching, research and different organizations of the College
- x) In house publications

- xi) Scholarship /Awards / Freeship
- xii) Services & facilities
- xiii) List of Associations and Forum in the College

5.1.2. Institutional scholarship/ Financial support for the student

Another student support system offered by Pub Kamrup College is various financial schemes like scholarships, poor aid fund, freeship, etc. This is deemed essential since the College is situated in a rural area inhabited by a considerable number of backward communities such as ST, SC, OBC, Minority etc.

The College regularly provides institutional financial assistance i.e. free admission and poor -aid fund to the under- privileged student community under some criteria laid down by the College.

Free Admission: As per G.B. Resolution, 2005, free admission is provided in the H.S. 1st Year and T.D.C. 1st Year Classes, to 5 numbers of meritorious students belonging to financially weak families on production of BPL Certificates. The cut off mark for availing this assistance is 70% marks in qualifying examination.

Table 5.2: Freeship given to students of TDC classes

S.No	Scholarship	2013-2014	2012-2013	2011-2012	2010-2011
1	BPL	7	4	7	5
2	Differently Abled	1	0	0	0

Poor Aid Fund: Pub Kamrup College Poor Aid Fund is initiated with the aim to generate philanthropic attitude among the students which provides financial assistance to the students belonging to economically backward families. This fund is generated from the fee collected from every student @ Rs. 5/- only at the time of admission. To avail this assistance, students are required to apply to the Convener of the fund when notified. Selection is made on the economical condition (certified by competent authority) and merit of the applicants. Financial assistances received by the students are disbursed in time by the College authority.

Table 5.3: No of students benefited by Poor Aid Fund

S.No	Scholarship	2012-2013	2011-2012	2010-2011	2009-2010
1	Poor Aid Fund	21	23	26	27

5.1.3 Financial assistance from State Government, Central Government and other national agencies

The College authority proposed Government and Non government organizations for students' scholarships and financial assistance. Accordingly students received various scholarships/ financial assistance.

A number of students have been awarded with National scholarship from the National agencies.

Kabita Deka, a BSc (Physics) student has been awarded Scholarship for Higher Education (SHE) under the scheme, Innovation in Science Pursuit for Inspired research (INSPIRE) for the period starting in 2011. This Scholarship, funded by DST, GOI of Rs. 80,000/- per annum will be availed for 5 years.

Table 5.4 a): State Merit Scholarship (Students securing above 80% of marks in 10+2 exams for 3 years)

Year	No of Student benefited	Amount (in Rs)
2013-14	14	1,40,000/-
2012-13	09	90,000/-

Table 5.4 b): Combined Merit Scholarship

S.No	Year	No of Student benefited	Amount (in Rs)
1	2013-2014	114	2,05,200/-
2	2012-2013	67	1,20,600/-

In the academic session 2012-13 & 2013-14, highest number of students from Pub Kamrup College received the Combined Merit Scholarship which reflects its student's quality. In the same way, during 2012-13, highest number of students received scholarship for OBC category.

Table 5.5: SC Scholarship

S.No	Year	No of Student benefited	Amount (in Rs.)
1	2012-2013	-	-
2	2011-2012 (Fresh)	35	1,51,725/-
3	2010-2011 (Fresh)	47	2,07,455/-
4	2009-2010 (Renewal)	26	97,060/-

Table 5.6: ST Scholarship

S.No	Year	No of Student benefited	Amount (in Rs.)
1	2012-2013 (Fresh)	67	1,20,600/-
2	2011-2012 (Fresh)	22	1,05,895/-
3	2010-2011	31	1,03,270 /-
4	2009-2010	-	-

Table 5.7: OBC Scholarship

S.No	Year	No of Student benefited	Amount (in Rs.)
1	2012-2013	-	-
	2011-2012 (Renewal)	108	2,90,880/-
2	2011-2012 (Fresh)	112	2,43,640/-
3	2010-2011 (Renewal)	108	2,60,320/-

Table 5.8: Minority Scholarship

S.No	Year	No of Student benefited	Amount (in Rs.)
1	2012-2013 (Non Direct)	45	2,64,870/-
2	2012-2013 (Direct)	41	2,52,965/-
3	2011-2012	54	1,86,000/-
4	2010-2011	51	2,40,200/-

Table 5.9: Amount of Scholarship given to BPL student

Sl. No	Year	No of Student benefited	Amount (in Rs.)
1	2012-2013	5	17,000/-
2	2011-2012	5	16,450/-
3	2010-2011	5	12,550/-
4	2009-2010	5	12,000/-

- **UGC grant as Conveyance allowance & rental allowance**

Besides these, a special grant has been received from the UGC under 11th Plan to help the students of below poverty line, and residing at rental houses. In the year 2012, the following number of students has been benefited.

Table 5.10: Number of students received allowance

Conveyance allowance	No of student benefited	House rent allowance (in Rs.)	No of student benefited
Rs. 2,00,000/-	106	Rs. 800,000/-	153

5.1.4 Specific support services/facilities available for student community of Pub Kamrup College:

i. Students from SC/ST/ OBC

The reservation quota of the total seats available in a course as per Government rules is followed in the College.

From the Academic session 2010-11, the Remedial classes have been arranged in Pub Kamrup College during the summer vacation and other holidays for the benefit of the degree level students belonging to SC, ST, OBC & Minority Community.

**During the 11th Plan period, Rs. 8, 00,000/- had been sanctioned to Pub Kamrup College for remedial coaching classes.*

ii. Students from economically weaker sections

'Pub Kamrup College Book Bank' has been launched in the PKC Library with UGC assistance under the scheme of 'Young College'. The purpose of the Bank is to help the meritorious, financially poor and deserving regular students of the College. Already 823 numbers of book amounting to Rs. 1,00,000/- (Rupees one lakh only) have been purchased and are now available in the Book Bank and distributed among the deserved students accordingly.

Table5.11: No of Students benefited from Book Bank

Sl No	Year	No of Students
1	2013-14	44
2	2012-13	50
3	2011-12	67
4	2010-11	18

iii. Students with physical disabilities

The College Authority provides support services to differently able students admitted in the College to continue their studies and give special attention in this regards. The classes are also tried to arrange only in the ground floor so that the student need not move from one place to another.

It is worth mentioning that for visually impaired students, the authority allows to take help of the scribes during examination. The College student community is made aware to extend manual help to differently able student whenever he / she feels necessary.

In XII Plan period, a special project proposal has been submitted to the UGC for benefit of the differently able student under the following two heads:

- For special steps and special toilets
- For visually challenged students material

iv. Students to participate in various competitions/ programme

The College authority always encourages its student community to participate in various extra –curricular activities. The students regularly participate in inter college and university level competitions in and outside the State.

For participating in such programme, the College offers financial assistance to the participants.

Table 5.12: Amount of financial assistance for participating in some extra-curricular activities

S.No	Year	Amount of financial assistance	Name of the Programme	Remarks
1.	2014	26,000/-	Inter College Kabaddi Competition, Bajali College.	The team qualified up to semi final.
2	2014	2,000/-	Science Model display & Quiz Competition at USTM, Meghalaya	Upasana Deka and Rebina Begum have successfully participated.
2.	2013	15,000/-	Indian Student Parliament, Organized by MIT School of Government, Pune.	Nabajyoti Rajbonshi, Dhanjit Deka and Chayanika Devi participated in the 3 rd Indian Student Parliament (<i>Bharatiya Chhatra Sansad</i>) at MIT, Pune
3.	2012	3,000/-	'1st National Self- Defense Championship, 2012' Organized by Maharashtra Self – Deference Association, Mumbai	Jyotirmoy Sarma clinched Gold Medal in Kung-fu Competition.
4.	2011	1,20,000/-	Inter District College Level Volley Ball Competition.	The Pub Kamrup College team championed in the Competition.

Besides the financial assistance, necessary warm-up session in the College well ahead of the event is organized for the student participants. Moreover, financial assistance is provided regularly to the students for participation in the Youth Festival organized yearly by Gauhati University and in other such events like debate competition, quiz competition organized by different organizations.

v. Medical assistance to students: health centre and health insurance

The College maintains First Aid facility within its premise itself. In addition to that, a student is immediately taken to the PHC which stands within a radius of half kilometer at any

hour of need. Besides, the In Charge Medical Officer of the local PHC is inducted as one of the member of every examination Committee. An ANM is appointed during the examination schedule for any necessary medical care during the time of examination. Students can avail sick bed facility in any examination following due procedure supported by necessary certificate from Medical Officer. Medical care is offered by the Authority to the faculty and student during working hours and extracurricular events of the College when necessary.

For building health consciousness among the student community, the College organizes various programmes. A glimpse of the same are highlighted as follows:

Table 5.13: Health consciousness Programme organized/participated by the College

Sl No	Name of the Programme	Year	Organizer
1	Inter Department Exhibition cum poster Competition	2010	Women study Cell, Pub Kamrup College
2	Blood Donation Camp	2009, 2010	Prakshalan (NGO)& Women study Cell, Pub Kamrup College
3	Yoga training camp	2010	Mahabahu Sangha (NGO)
4	Lecture on mental health	2011	NBMT, PKC
5	AIDS awareness programme	2011	Red Ribbon Club, PKC
6	Seminar on health awareness	2012	TIENS
7	Encephalitis Vaccination Camp	2014	Health & FW Dept, Govt. of Assam

The College provides Insurance benefit under GIS, LICI to the students as per Insurance Clauses for which each student is to pay Rs. 25/- (Rs. 20/- to be deposited in the GIS, LICI, Rs. 5/- to be deposited in the Student Welfare Fund of the College) at the time of admission.

Table 5.14: Insurance Company & Insured Amount

Sl.No	Year	Insurance company	Number of student covered	Insured Amount
1.	2013-2014	LICI	2510	50200/-
2.	2012-2013	LICI	2186	43720/-
3.	2011-2012	LICI	2472	49440/-

vi. Organizing coaching classes for competitive exams

Pub Kamrup College organizes various coaching classes for competitive examination for the benefit of the student community of Pub Kamrup College time to time.

Table 5.15: Various programmes for guidance for competitive examination

Sl.No	Year	Programme Name	Resource person/Organization	Organizer
1	2010	Mathematical trick for IIT-JEE, AIEEE,	Akshay Kumar, Rakesh Kumar, IITG	CCGC

		PMT, JAT etc.		
2	2011	Career Orientation for national level competition	8 th Maratha Light Infantry	CCGC
3	2011	2 Month Coaching classes for MAT/ MCA Entrance examination	Department Computer Science, Pub Kamrup College	CCGC
4	2013	One day Programme on 'Career Options'	Barnali Deka, IAS	CCGC

vii. Skill development (spoken English, computer literacy, etc.,)

- **Spoken English**

In 2010, the Career Guidance Cell organized a one month programme on spoken English, where the faculty members of Department of English, Pub Kamrup College and Pandu College were engaged as resource person.

- **Mock Parliament**

The Pub Kamrup Students performed Mock Parliament during the College Week in 2011. The topic of the debate in the parliament was on '*Lower Subansiri Hydro-electric Project will generate dominant impact on the Greater socio-cultural growth of Assam*'. In the Mock- Parliament of 2012 the ruling party tabled the bill on '*Autonomy be granted to the entire fauna of Assam*'

- **Debate Competition**

The debate competition is a regular event organized in the College week every year. Position holder participants are sent for higher level debate competitions organized by different institutions time to time. In 2013, '*Late Harendra Nath Deka Memorial Inter College Prize money Debate Competition*' was organized at Pub Kamrup College.

- **Quiz**

The Quiz as part of the Annual College week is the most regular of the kind every year. Apart from this a number of Quiz competitions have been organized in the College.

- In 2010, an open quiz competition sponsored by ASTEC as a part of *Jana Bijnan Mela* was conducted.
- In 2012, a mathematics related open quiz was organized for celebrating '150th Birth Anniversary of Ramanujan' where numbers of teams from different schools and colleges of Kamrup District participated in the Competition.
- In 2013, the College, as the Nodal College in Kamrup district, hosted the District level Inter College Quiz on '*Mahatma Gandhi and Indian Freedom Movement*' which was designed by DHE, Govt. of Assam.

- **Translation workshop**

The Department of English taking the advantage of the syllabi allowing the provision of undertaking translation project with the second and six semester students of the major course

commences such projects every year. Such projects help the students in having first hand experience in terms of comprehension and reproduction of the *Source language text and target language text* respectively. The feedback of such assignments reveals that it increases student access to the library in a big way.

- **Computer literacy**

To make the students computer literate, the Career Guidance Cell organized a 6 month computer literacy programme in collaboration with the Department of Computer Science, Pub Kamrup College in 2010. Pub Kamrup College starts a mandatory computer literacy programme for the degree (major) students from the academic session 2013-14.

- **Proof reading drill**

The College Press Management Committee has taken up an innovative scheme for skill development of the students. Under this Scheme of the committee, selected students will be engaged in activities such as proof reading, photo editing and text editing etc. This assignment will be remunerative in nature.

In April, 2014, the ‘Youth Empowerment & Value Education Committee’ organized workshop on ‘Asomiya banan- natta aru xatta bidhir prayog prasanga’ (Assamese spelling: the use of *natta aru xatta bidhir*) for the degree students.

viii. Support for “slow learners”

Generally slow learners are identified during the regular classes of different subjects. The teachers organize regular class tests, assigned home assignments and interactive sessions as means to identify the slow learners. Once detected such learners are provided counseling, guidance and TLM support by the respective department. Special classes are arranged for the slow learners where and when necessary. During the session 2011-2012 Rs. 8, 00,000.00 (Rupees eight lakhs) has been sanctioned by UGC for the remedial classes.

ix. Exposures of students to other institution of higher learning

The students are exposed to other higher educational institutions and other places of importance through summer school, educational tour, survey study, Student Exchange Programme and project work etc.

Table 5.16: Students’ expose to other institution of higher learning

Sl No	Name of the Student	Department	Programme attended	Institution	Funded by	Year
1	Seemasri Deka	Mathematics	Mathematics Training and Talent Search Programme (MTTSP)	IIT, Guwahati	National Board for Higher Mathematics	2011
2	Harun Al Rashid	Physics	Summer School	Jamia Millia Islamia, New	IAS, Bangaluru &	2012

				Delhi	NSA, New Delhi	
3	Manashi Bharadwaj	Botany	Summer School	Tezpur University	Tezpur University	2012
4	Kabita Deka	Physics	Summer Research Programme for the students	Bharathidasa nUniversity, Tiruchirappal i	IAS, Bangaluru & NSA, New Delhi	2013

Besides these, following Students' exchange programmes and Students' educational tour have been organised for our students.

Table 5.17: Students' exchange programme

Department involved	Exchange programme	No. of students participated	Year
Assamese	Student Exchange Programme held at Visva Bharati University, Shantiniketan with Dr. Kailash Patnayak & Dr. Giribala Mahanty, Department of Oriya.	15	2012
Physics	Department of Physics, IITG	48	2012
English	Students exchange Programme at MNC Valika Mahabidyalaya, Nalbari	50	2012
	Students exchange Programme with K R B Girls' College, Guwahati, in Pub Kamrup College	50	2013
Economics	Students exchange Programme at Goreswar College, Goreswar	25	2013
Physics	Institute of Plasma Physics, Sonapur	40	2013

Table 5.18: Educational tour organized for the student

Sl No	Department	Places/ Institutes visited	Year
i	Assamese	NEHU, Shillong	2012

ii	Botany	Birla Science and Technology, Jaipur	2012
		TERI, New Delhi	2012
iii	Chemistry	Tezpur University	2012
iv	Economics	Tezpur University	2012
v	Education	NEHU, Shillong	2012
vi	English	NEHU, Shillong	2012
vii	Geography	Kolkata, Digha	2012
viii	History	Sibsagar	2012
ix	Mathematics	Science city, SINP, Kolkata	2012
x	Philosophy	Tezpur University	2012
xi	Physics	IIT, Guwahati	2012
		Saha Institute Nuclear Physics	2012
xii	Political Science	NEHU, Shillong	2012
xiii	Statistics	Science city, SINP, Kolkata	2012
xiv	Zoology	Sundarban, Biosphere Reserve	2012

x. Publication of student magazines

The College yearly publishes a student magazine under the editorship of the students' representative. Besides this, all the teaching departments have their Wall Magazines. Moreover some departments regularly publish books/ Magazine with students' contribution.

Table 5.19: Magazine secretary & Teacher-in charge

S.No	Year	Student Editor	Teacher-in charge
1.	2012-2013	Bidyutjyoti Das	Dipen Bezbaruah
2.	2011-2012	Amar Deka	Suresh Deka
3.	2010-2011	Brajen Deka	Montu Saikia
4.	2009-2010	Jitumoni Sarma	Montu Saikia

Table 5.20: Departmental publications with students' assistance

S.No	Year	Books/ magazine	Department
1.	2013	<i>Rajneetika</i>	Political Science
2.	2012	<i>Doriyoli</i>	Assamese
3.	2012	<i>Seuji</i>	Geography
4.	2013	<i>Darsana</i>	Philosophy
5.	2004	<i>Striving Zeal</i>	English

5.1.5 Facilities to develop entrepreneurial skills among the students

The institution has made efforts to facilitate entrepreneurial skills among the students, and the development of a garden with an objective to train up the students accordingly with the horticulture and ornamental plants reflect the strategy. This garden has been developed under the aegis of Career Counseling & Guidance Cell in 2012-13.

In 2013, the Department of Zoology in collaboration with Institutional Biotech Hub, Pandu College has organized an entrepreneurial skill development seminar on 'Entrepreneurship development & modern practices in fishery management' for the 4th semester students.

5.1.6 Students' participation in extracurricular and co-curricular activities

Students' active participation in the extracurricular and co-curricular activities in Pub Kamrup College is very encouraging one. Pub Kamrup College authority always supports students' participation in such activities like sports, games, Quiz, debate and discussions, painting, drama, music, songs etc. in and outside the College.

Pub Kamrup College students' fraternity participate in different extracurricular and co-curricular activities regularly. Some of these are -

- College Week/ Youth Festival yearly
- Gauhati University Inter College Youth Festivals every year
- Different competitions among students on different occasions of the College
 - Celebrates different socio-cultural functions like *Bihu*, *Silpi Divas*, *Saraswati Puja*, *Gandhi Jayanti*, *Rabha Divas*, *Milad-E-Mehfil*, *Biswakarma Puja* and National Science Day, International Women Day, World Environment Day, etc with active students' participation.
 - Inter college Quiz and Debate competition

For encouraging in participation in extracurricular and co-curricular activities and to attract student with such background, the College has introduced Extra Curricular Activity Quota seat from the session 2013-14. Under this Scheme 6 (Arts: 4; Science: 2) seats are reserved for getting admission in Degree classes. Quality and excellence are always the preferred criteria in such consideration.

5.1.7 Guidance for competitive examination

The Pub Kamrup College always encourages its students in preparing for different competitive exams. The Library has a separate collection of books for the competitive examinations such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc. Career Counseling and Guidance Cell (CCGC) conducts coaching classes for the students time to time.

Table 5.21: Various programmes for guidance for competitive examination

Sl.No	Year	Programme Name	Resource person/Organization	Organizer
1	2010	Mathematical trick for IIT-JEE, AIEEE, PMT, JAT etc.	Akshay Kumar, Rakesh Kumar, IITG	CCGC
2	2011	Career Orientation for national level competition	8 th Maratha Light Infantry	CCGC
3	2011	2 Month Coaching classes for MAT/ MCA Entrance examination	Department Computer Science, Pub Kamrup College	CCGC
4	2012	How to face Civil Service examination	Mrs Barnali Deka, IAS	CCGC

5.1.8 Counseling services to the students (academic, personal, career, psycho-social etc.)

The College provides various counseling services to the students. These are categories in the following ways:

- **Personal counseling**

In Pub Kamrup College, where there is no separate professional counselor, the teachers play the role of counselor to help the students through counseling *in one to one mode* with the objective to generate self analysis, and improve their patterns of thoughts, behavior, feelings, and the way in which these might pose as problems in their lives.

In November, 2010 the Pub Kamrup College Library and Department of computer Science, jointly organized a Popular Talk, for the benefit and awareness of the students, on '*Interpersonal Skills and Conflict Management*' where Professor Mukulesh Barua, Professor & HOD, Department of Business Administration, GIMT, Guwahati deliberated as Resource Person.

- **Academic Counseling**

There are departmental committees and forums and they regularly conduct meetings where the students can share any type of academic problems they face, with the HoD and other faculty members of their respective department.

- **Career counseling**

There is a Career Counseling and Guidance Cell which guides and instructs the students about all possible opportunities and competitive exams etc. During the 11th Plan period, Rs. 7,00,000/- had been sanctioned for Career counseling. Various Career oriented programmes have been organized in Pub Kamrup College under the aegis of the Cell.

Table 5.22: Various programmes under Career Counseling and Guidance Cell

Sl.No	Year	Programme Name	Resource person/Organization	Organizer
1	2009	Career Advancement Programme	ICA, Panbazar, Guwahati	CCGC
2	2009	Counseling for allied health degree course	Down Town College of Allied Health Service, Guwahati	CCGC
3	2010	Counseling for Information Technology	NIIT, Chandmari, Guwahati	CCGC
4	2011	Legal literacy classes & distribution of legal literacy books	Assam State Legal Services Authority	CCGC
5	2011	Orientation programme on semester system	Dr. Sanjay Dutta, Gauhati University	CCGC
6	2011	Career Counseling	Trident Institution of Corporate Services	CCGC
7	2012	Career prospecting higher education	Dr Sasanka Deka, Associate Professor, Department of Chemistry, Delhi University	CCGC
8	2012	How to face Civil Service examination	Mrs Barnali Deka, IAS	CCGC

In March, 2014, Pub Kamrup College Library & Career Guidance Cell of this College hosted a one day workshop on career Counseling & IT Workshop for the degree students in collaboration with JETKING, Guwahati centre.

- **Psycho-Social Counseling**

For the psycho-social counseling of the students, the College takes some programmes time to time.

** In November 2011, esteemed consultant Psychiatrist Dr Jayanta Das delivered a thought provoking lecture on the topic 'Mental Health in the Changing World- the Need'. This programme was held under the banner of "Navajyoti Bhattacharyya Memorial Trust" (NBMT) where the students asked their problems they face in their day to day socio-academic*

life. Dr Das analyzed their problems and counseled those who face any psychological problems. He also gave some tips for mental health and stress-burn.

**In April, 2014 a workshop on stress management for adolescence student held at Pub Kamrup College. This daylong programme has been organized by Women Cell, PKC in collaboration with Department of Psychological Counseling, Assam Don Bosco University, Assam.*

5.1.9 Career Guidance mechanism

There is a structured Career Counseling and Guidance Cell in Pub Kamrup College which guides the students to choose their career. There is no separate placement cell in the College.

In 2011, the York Print Pvt Ltd came for campus recruitment and selected 3 students of this College for appointment. The CCGC of the College took the initiative for this drive.

5.1.10 Grievance Redressal Cell

The Pub Kamrup College has formed a Grievance Redressal Cell to address the grievances of the students. It has been formed to find the solutions for the problem faced by the students during their stay in the College. There is a Box conveniently and conspicuously placed in the College where students can drop their grievances in written form.

The Department centric grievances regarding academic as well as personal of students of the concerned departments are redressed departmentally.

For the academic session 2013-14 a Grievance Redressal Cell of Pub Kamrup College has been formed in following structure:

Grievance Redressal Cell

Chairperson: Principal

Convener: Vice Principal / Senior most Faculties

Members:

- i. Senior most Lady Faculty (by date of birth)
- ii. Senior most Grade-III and Grade – IV employee (by date of birth)
- iii. Coordinator, IQAC
- iv. Hostel Superintendent

5.1.11 Gender issues

- The inclusive mission of the College inculcates fellow –feeling amongst students irrespective of sex.

- There is a separate cell for dealing gender issues and related problems, named as Women Studies Cell, as and when necessary.
- Such pertinent problems are not evident in the College till date, as the student and staff members hold high morale.

5.1.12 ‘Anti –ragging Committee

The Pub Kamrup College is completely ragging free. Yet there is an ‘Anti –ragging Committee’ following the UGC Guidelines to avoid ragging in any forms inside the College. In the beginning of the new academic session, the Committee hangs notice and banner not to indulge ragging and the punishment for such practices.

For the academic session 2013-14 Anti Ragging Committee of Pub Kamrup College has been formed in following structure:

Anti- Ragging committee

Chairperson: President, Governing Body

Convenor: Principal

Members:

- i. Teacher Representatives in GB
- ii. Guardian Members in GB
- iii. Coordinator, IQAC
- iv. All the HoDs of the College
- v. President, PKCTU
- vi. Secretary, PKCTU
- vii. General Secretary, PKCSU
- viii. GB representative (Non-Teaching staff)

5.1.13 Students’ welfare scheme

A few scholarships are introduced by the Pub Kamrup College fraternity for the students who excel in their examinations. For cultivating the reading habit among the students, the Pub Kamrup College Library offers two awards every year. Poor aid fund and Freeship and Book Bank and Gyan kosh are some schemes introduced for the students.

Various such awards are:

i) **PKCTU Merit Award** : ‘Pub Kamrup College Teachers’ Unit Award’ is conferred on the student securing highest marks among the H.S. Final Examination candidates out of the both streams- Arts and Science, and on the student securing highest marks among the candidates of the TDC Final Examination every year.

ii) **Mahendra Nath Deka Memorial Scholarship**: Founded with a fund by the family of late Mahendra Nath Deka, a distinguished freedom fighter and the first M.L.A. of Kamalpur Constituency of the Assam Legislative Assembly, this scholarship is awarded to two, one from among the boys and the other from among the girls securing highest marks in the HS

Final Examination in their respective categories.

iii) **Tazuddin Ahmed Memorial Award:** Sponsored by the family of late Syed Tazuddin Ahmed, the founder HoD of the Dept. of Geography, PKC, and this award is bagged by the student securing highest marks in Geography (Major) in the TDC Final Examination.

iv) **NBMT Merit Award:** Generated with a fund donated by the family of late Navajyoti Bhattacharyya, an ex-student, 'Navajyoti Bhattacharyya Memorial Marit Award' is conferred on the student securing highest marks above 50% in English Major in the TDC Final Examination, failing which the same goes to the one securing the highest marks among the candidates of the TDC Final Examination from the College.

v) **Best Reading Room User Award:** As an attempt to encourage the student readers, Pub Kamrup College Library confers this award on the student who utilizes the Reading Room for maximum days in an academic session.

vi) **Best Borrower Award:** Initiated by the Pub Kamrup College Library, this award goes to the student borrowing the maximum number of library documents in an academic year.

5.1.14 Alumni Association in Pub Kamrup College

There is an active Alumni Association in the College. It is formed under provisions of College Management Rules with due approval from the Governing Body. This Association conducts numbers of meetings every year.

From 2013 the Pub Kamrup College Alumni Association observes 25 December as Alumni Day.

The following are the office bearers of the Alumni Association for 2 years 2013 -15

Table 5.23: Executives of Alumni Association

Sl.No	Designation	Name
1	President	Mr Bhabesh Deka
2	Vice-President	Nazimuddin Ahmed
		Prafulla Chandra Deka
		Upendra Narayan Kumar
3	Convener	Principal, Pub Kamrup College
4	Coordinator	Dr Nripendra Nath Talukdar
5	General Secretary	Gagan Chandra Deka
6	Treasurer	Mukut Bania

5.2 Student Progression: Pub Kamrup College tries to maintain strict vigil in the progression of its products i.e. the students. It has a mechanism to do the best in this regard.

5.2.1 Student Progression

The Students' progression from UG to PG level of Pub Kamrup College has been shown department wise.

Table: 5.24: Department wise Students' progression from UG to PG level

SI No	Department	Year	Students' Progression in percentage/ No
i	Assamese	2012-13	24 %
		2011-12	25 %
		2010-11	26%
		2009-10	30%
ii	Botany	2012-13	100%
		2011-12	100%
		2010-11	50%
		2009-10	100%
iii	Chemistry	2012-13	70%
		2011-12	7%
		2010-11	13%
		2009-10	13%
iv	Economics	2012-13	40%
		2011-12	60%
		2010-11	80%
		2009-10	70%
v	Education	2012-13	30%
		2011-12	35%
		2010-11	40%
		2009-10	50%
vi	English	2012-13	12%
		2011-12	8%
		2010-11	14%
		2009-10	16%
vii	Geography	2012-13	27%
		2011-12	22%
		2010-11	18%
		2009-10	14%
viii	History	2012-13	-
		2011-12	50%
		2010-11	40%
		2009-10	10 %
ix	Mathematics	2012-13	42%
		2011-12	46%
		2010-11	-
		2009-10	50%
x	Philosophy	2012-13	30%
		2011-12	38 %
		2010-11	22 %
		2009-10	22%
xi	Physics	2012-13	60%
		2011-12	60%

		2010-11	75%
		2009-10	75%
xii	Political Science	2012-13	30%
		2011-12	25%
		2010-11	19%
		2009-10	14%
xiii	Statistics	2012-13	100%
		2011-12	66%
		2010-11	-
		2009-10	-
xiv	Zoology	2012-13	33%
		2011-12	20%
		2010-11	10%
		2009-10	-

5.2.2 Programme wise pass percentage

Table: 5.25: Programme wise pass percentage

Session	BA		BSc		HS (Arts)		HS (Science)	
	PKC	GU	PKC	GU	PKC	AHSEC	PKC	AHSEC
2009-2010	72.2	62.38	76.8	76.79	72.6	68.66	95	85.15
2010-2011	73	74.33	82.35	82.35	79.13	73.14	85.25	87.32
2011-2012	85.77	72.79	82.5	83.88	77.50	70.23	81.91	85.5
2012-2013	71.4	76.77	62.26	81.28	71.88	70.11	69	83.82

5.2.3 Institution's facilitate student progression to higher level of education and/or towards employment

- The College fraternity readily provides counseling to the passing out students in selecting institution for higher studies. Sometimes they are even guided in selecting course of higher studies.
- The education sector appears to be one of the most easily accessible employment sectors of the students of this general education institution. Since they need to clear a Teacher Eligibility Test before joining this sector, Coaching Classes organized by other agencies, hosted by the College and undertaken by the teachers may be projected as a successful venture in this regard. It needs further mention that a good deal of students of this College has been appointed as teachers during the last 2 years i.e. 2012 & 2013.
- The College organizes various career motivating camps in collaboration with the Red Horns Division of the Indian Army with a view to attract them towards a career in the defense sector.

5.2.4 : Special support to the weaker student

For the students who are at risk of failure and drop out, necessary academic care has been taken. The teachers take special classes and class test for the students who are weaker than the normal group. Simplified notes and TLM are also provided them. What is more significant is that counseling to both parents and the students to meet such imminent emergency.

From the Academic session 2010-11, the Remedial classes were held in Pub Kamrup College during the summer vacation and other holidays for the benefit of the degree level students belonging to SC, ST, OBC & Minority Community.

5.3 Student Participation and Activities: In the line of its mission and vision, Pub Kamrup College maintains provisions for best of student participation in all possible areas.

5.3.1 Various range of sports, games, cultural and other extracurricular activities in the College and students' participation

Pub Kamrup College organizes an annual fest i.e. College Week (aka 'Youth Festival') where a good number of competitions based on sports, games, cultural and other extracurricular activities is hosted for the students.

Students' achievements (Best in the College) in last four year in some categories are highlighted here.

Table 5.26 : Students' achievement

2009-10		
Sl No	Award	Winner
1	Best Literary Award	Sunil Talukdar
2	Best Debater	Bhaskar Jyoti Bezbarua
3	Best Singer	Akhil Deka
4	Best Actor (Male)	Bhaskardeep Kashyap
5	Best Actor (Female)	Papari Choudhury
6	Best Panjya Player	Afajul Haque
7	Best Fine Artist	Tirthankar Sarma
8	Best Social Worker	Himanka Deka
2010-11		
1	Best Writer	Harun Al Rashid
2	Best Debater	Minarul Haque
3	Best Singer	Pranami Sarma
4	Best Actor (Male)	Pankaj Lahkar
5	Mr Pub Kamrupian	Rajani Boro
6	Best Fine Artist	Tirthankar Sarma
7	Best Social Worker	Lahari Kalita
2011-12		
1	Best Literary Award	Harun Al Rashid
2	Best Debater	Minarul Haque
3	Best Singer	Chayanika Das

4	Best Player (Male)	Sajid Amin
5	Best Player (Female)	Mallika Deka
6	Mr Pub Kamrupian	Dhirupjyoti kashyap
7	Best Panjya Player	Tarik Saikia
8	Best Bride	Bhaswati Deka
9	Best Social Worker	Nilabhjyoti Sarma
2012-13		
1	Best Literary Award	Rishav Ranjan Das
2	Best Debater	Kabita Deka
3	Best Singer	Pranami Sarma
4	Best Player (Male)	Chinmoy Sarma
5	Best Player (Female)	Rumi Deka
6	Best Actor (Male)	Utpal Das
7	Best Actor (Female)	Mamoni Kumar
8	Best Social (Male)	Rahul Ali
9	Best Social (Female)	Shikhamoni Kalita
10	Mr Pub Kamrupian	Banjit Kalita

In 2010, a 5 day Volley Ball Coaching Camp was organized by Pub Kamrup College in the aegis of the Major Games section of the Pub Kamrup College Students' Union. The Coaching Camp was a grand success in driving mass awareness for sports. The Camp, attended by as many as 150 students of this College, was supervised by Mr Manoj Sarma, Physical Instructor, Government of Assam.

5.3.2 Students' achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years

A number of students of Pub Kamrup College have shown their capacity in various co-curricular, extracurricular and cultural activities at different levels. Some of them are highlighted:

In 2009:

* Ramesh Baruah begged 1st prize in the Chiding through Assamese folk cultural idioms competition held in Rabindra Bhavan, Guwahati.

* Ramesh Baruah was adjudged 3rd Prize in 'Mimicry competition' of the Gauhati University Inter College Youth Festival.

* Bhaskar Bezbaruah begged 2nd position in 'Debating competition' of the Gauhati University Inter College Youth Festival.

* Bhaskar Bezbaruah begged 1st position in 'Inter College Debating competition' at MC College; 2nd position in 'Rebati Mohan Dutta Chaudhury Memorial Inter College Debating competition' at AEC and Binoy Ch Bora Memorail All Assam 'Debating competition' at Nagaon Girls' College.

In 2010:

* Kankana Devi begged 2nd position in 'Collage competition' of the Gauhati University Inter College Youth Festival.

* Bhaskar Bezbaruah begged 3rd position in 'Debating competition' of the Gauhati University Inter College Youth Festival.

* In the group event 'Cultural Procession' the Pub Kamrup College was adjudged 3rd position in Gauhati University Inter College Youth Festival.

* Nayanika Sarma begged 1st position in 'Inter College Dance Competition' held at Puthimari College.

In 2011:

* Pranami Sarma was adjudged 3rd position in the '*Bongeet* competition' of the Gauhati University Inter College Youth Festival.

* In the group event 'Cultural Procession' the team of Pub Kamrup College was adjudged 2nd position in Gauhati University Inter College Youth Festival.

* The Pub Kamrup College team championed in the Inter College Volley Ball Competition.

In 2012:

* Tirthankar Sarma begged 1st Prize in 'Art Assam Art': a fine art competition.

* Jyotirmoy Sarma clinched Gold Medal in Kung fu in '1st National Self- Defense Championship, 2012' organized by Maharashtra Self – Deference Association, Mumbai.

* Trisnamoni Deka, Upasana Deka nad Navanita Bora begged 1st, 2nd & 3rd prizes respectively in an 'Essay competition' organized by the ICFAI University, Tripura.

In 2013:

* Nabajyoti Rajbonshi, Dhanjit Deka and Chayanika Devi participated in the 3rd Indian Student Parliament (Bharatiya Chhatra Sansad) at MIT, Pune.

* The Pub Kamrup College Quiz Team compiled of Sumanta Kakati and Sammujwal Kashyap have been adjudged 1st position in Inter College District Level Quiz Competition on '*Gandhi and Indian Freedom Movement*'.

In 2014:

* In March, 2014 a Team of Pub Kamrup College participated in the Inter College (GU)Kabaddi Competition held at Bajali College, Pathsala where the team qualified up to semi final.

* Wrishav Ranjan Das, a student of Pub Kamrup College has been selected as Campus Ambassador by District Administration, Kamrup District for the Lok Sabha Election, 2014.

In 2011, Pub Kamrup College championed in the Inter College Volley Ball Competition (Kamrup district) where Puthimari College, Puthimari adjudged Runner Up. This two day competition was organized by Pub Kamrup College where total of 9 colleges participated. This event was inaugurated by Sanjib Gohain Barua, Director, Sport and Youth Welfare Department, Govt of Assam and was attended by Sjt. Ramen Deka, MP, Mangaldoi. Sjt Jadab Ch. Deka, MLA, Kamalpur graced the prize distribution ceremony of this competition.

5.3.3 Feedback from its graduates & employers

The College collects feedback from its pass outs regularly in order to improve the quality of education and the suggestion and improvements will be carried to improve the performance and Quality of the institution. Mainly such a feedback is collected from the apex body of its products- Pub Kamrup College Alumni Association.

From 2014, the College introduces Software based Feedback System for the present students.

5.3.4 Students' engagement to publish creative materials

The College encourages the students to cultivate creative writing skills among them. In the College Magazine and Wall Magazine, the students contribute their writings both in Assamese and English on various topics. All such publications come out under student editorship where teachers of the concerned department supervised the entire project. Besides these, some departments publish the students' articles in book form.

Every Department regularly publishes issues of its wall magazine as an attempt to nurture and encourage the students to pen their ideas on both contemporary and enduring issues.

Table 5.27 : Department wise Wall magazine

SI No	Department	Name of the Wall Magazine
i	Assamese	Bikshan
ii	Botany	Botanica
iii	Chemistry	Aroma
iv	Economics	Aartha Prabah
v	Education	Kanshan
vi	English	Echo
vii	Geography	New Horizon
viii	History	Antariksha
ix	Mathematics	Antariksha
x	Physics	Quantum
xi	Political Science	Rajnitika
xii	Zoology	Bihangam

Besides these, some departments publish the students' articles in book form.

Table5. 28 : Departmental publication

SI No	Department	Name of the Publication
i.	Assamese	Doriyali*
ii	English	Striving Zeal
iii	Geography	Seuji
iv	Philosophy	Darsana
v	Political Science	Rajnitika

**The Doriyali published by the Department of Assamese is a hand-written verse magazine edited by the student of major classes. Two issues of the said magazine have been published. (2012 & 2013)*

5.3.5 Students' body in College

The College always persuades students to practice a democratic view through participation in the college students' union as electorate and involvement in various socio-cultural activities requiring decision making and leadership quality. There is an active Students' Union in Pub Kamrup College, where all students of the College are members. The Union works together for the efficient and smooth functioning of the Institution and in boosting students' participation in co-curricular and extracurricular activities. The members of the executive body holding different port folios are elected through ballot paper voting system following respective guidelines of the Election Commission of India.

Besides them, the Class representative for each class is elected by the students of a particular class by direct voting system.

Pub Kamrup College Students' Union functions according to the provisions laid in its constitution.

Activities

- i. College Week/youth festival.
- ii. Freshmen Social.
- iii. Festivals like Saraswati Puja, Viswa Karma Milad-e- Mehfil.
- iv. Other functions of national and cultural importance.
- v. Participation in College activities as part of their leadership drill.
- vi. Cleanliness programme in and around the College campus.
- vii. Active role in building public opinion and awareness.
- viii. Monitoring discipline and punctuality among the students.
- ix. Anti-ragging drive.
- x. Anti-tobacco drive.
- xi. Building Green Environment

- xii. Publication of College Magazine
- xiii. NSS & Scout & Guide

The prefect of the hostel has an active involvement in decisions related to student welfare resides in the College hostel.

The Principal of the College acts as President of the Union and other student-members of the Pub Kamrup College Students' Union for 2013-14 session is

Table: 5.29: Members of Pub Kamrup College Students' Union for the session 2013-14

SI No	Port folio	Name of the student representative
1	Vice- President	Alam Md. Sabbir
2	General Secretary	Arup Deka
3	Asstt General Secretary	Bhargav Kalita
4	Magazine Secretary	Nur Islam
5	Minor Game Secretary	Champak Deka
6	Major Game Secretary	Rubul Kalita
7	Cultural Secretary	Manash Pratim Deka
8	Boys' Common room Secretary	Chinmoy Deka
9	Girls' Common room Secretary	Dipshikha Deka
10	Social Service Secretary	Karabi Das
11	Music Secretary	Samim Saikia
12	Debate & symposia Secretary	Bhabajyoti Sarma
13	Gymnasium Secretary	Sajan Nath

5.3.6 Students' representative in academic and administrative bodies

Student represents in different academic and administrative cells for a better academic environment in the College. Thereby it helps the student community in acquiring diverse knowledge.

A. Various Associations/ Forum under different teaching department.

Table: 5. 30: Departmental Associations/ Forum

SI No	Department	Department Associations/ Forum
1	Assamese	Asomiya Sahitya Chora
2	Botany	Botanical Society
3	Chemistry	Society for chemistry education (a branch)
4	Economics	Economic Association
5	Education	Education Association
6	English	English Language & Literature Development Society
7	Geography	Geographical Society, Green Earth Save Earth (A Plantation Cell)
8	History	Historical Association
9	Mathematics	Mathematical Society
10	Philosophy	Philosophical Society
11	Physics	Physical Society
12	Political Science	Political Science Forum
13	Zoology	Zoological Society

- B. Anti – ragging Committee
- C. Election Committee
- D. Cells & Committees constituted for specific occasion.
- E. Pub Kamrup College Magazine Editorial Board.
- F. Scout & Guide
- G. NSS

5.3.7 Institution’s network and collaboration with the Alumni and former faculty of the Institution

The institution has a healthy relationship with alumni and Former faculty members and in different college functions they are entangle when and where their presence feels necessary.

They eagerly participate in major events in the institution like the College week, foundation day, alumni meet, stakeholders' meeting. Some of the former faculty extends helping hand in teaching and learning.

CRITERION VI

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

Vision

Being ready for a paradigm shift, the College is determined to develop its ward as a multifaceted personality to cope up with the rapid changes in the world at large to respond meaningfully the calls for the development of body, mind and spirit, through the educational processes in the institutions of higher education.

Mission

The enlightened vision leads the journey to achieve the goal through a carefully prepared 'Mission'. The whole mission of the college is planned on following four points:

- The College is a rural college having both science and arts stream in a locality of 14 km radius.
- Enhancement of sports facilities
- Opening skill providing courses under private-public mode and introduction of new courses in newer area.
- Stimulating and nurturing research culture among students and faculties.

The student entering into the institute of higher education must come out with a scientific mind in true sense. The science stream of the college is encouraged, in addition to their normal duties, to take various subject based extension services to attract the young students to increase the enrollment in science stream. The following table clearly shows some positive result in this regard:

Table 6.1: Some Passed out students in reputed institutions

Name of the student	Course undertaken	Institute
Biraj Kakati	Post Doctoral	Imperial College, London
Bipul Deka	Doctoral Degree	IIT G
Kamal Dutta	Doctoral Degree	IIT G
Bhabesh Deka	Doctoral Degree	IIT Karagpur
Bijumoni Rajbonshi	Doctoral Degree	Tezpur University
Anwar Hussain	Doctoral Degree	Tezpur University

The College strongly believes that the scientific men and women are a precious asset. They must be given opportunities, responsibilities for the scientific and technological developments in their localities, state and country. Quite often, the small numbers that exist are underutilized. The goal must be to increase their numbers because a world divided between the haves and have-nots of science and technology cannot endure in equilibrium. It is our duty to redress this inequity. With the supportive hand of the college Governing Body, some of the initiatives taken by the teaching faculties are noteworthy:

- Science Mela and Kalam visit
- Prof Thangavalues' visit
- Prof K. D. Atryee visit

- Prof. S. Pattanayak visit
- DST sponsored workshop

Human Values should be the guiding parameters for governance processes at higher education institutions. The correspondence, comparison, contact might be the source of enrichment of human values, specifically in higher education sector. In this regard also, the college is taking some steps:

- Celebration of Gandhi Jayanti as nodal College in the district
- Visit of Prof Narayan Sahu, noted litterateur
- Educational visit of the student to different states and publication of the experience in book form.
- Some of the faculties, specifically lady faculties are encouraged to pursue value based course so that they may be effectively instrumental to set up an 'institutional platform' to imbibe value based teaching among students.
- Awareness drive to preserve environment monitored through mandatory "Green Diary" among the students. It is encouraging that the other college is coming forward for implanting our concept.
- Observation of Independence and Republic Day

'Healthy mind lives in healthy body' - the college believes this philosophy with utmost sincerity. Though the student community is not suffering the dearth of talent, the institutional infrastructure in this field is still not up to the expectation point. Currently some schemes are being implemented with special importance by the college management body:

- Play-ground development under State Government Grant
- Ongoing construction of Mini Indoor Stadium under Special Sports-funding of Rs. 7500000/- from UGC
- Encouragement to deserving students to participate institutional/local/regional/state/national level sports events providing some encouraging fund
- Providing regular coaching for martial art for intending student by black-belt permanent faculty.
- Organizing district level day and night volley-ball competition among the Colleges of the district
- Seven days Volleyball coaching camp

Special efforts have been planned to achieve good result in sport activities of the College. The result so far obtained is very much encouraging.

To meet up the challenge of the modern world, the student should come out as a person of knowledge as well as skill based capacities. The College management – planning in these two focused points are:

- Enrichment of research infrastructure and human resource
- Agreement through Memorandum of Understanding (MOU) with private established institute/firm/industry to provide skill based training and promotion of research culture.

Decentralizing and participatory mode of management:

The decentralizing and participating characteristics of management indicate that the management should be the 'team management'. In a team spirit, the benchmarking for the institute is tried to be understood. For us "Benchmarking means finding out who is the best in an area of our concern, studying how they work, and adopting the best practices that are suitable to our college." The word "team" has connotations of common purpose or goal, co-ordination, co-operation, communication and motivation. There are three types of teams required for a benchmarking exercise:

- **The Lead Team**
- **The Preparation Team**
- **The Visit Team**

Pub Kamrup College is a provincialised college which is one form of the government colleges, Govt. of Assam. Its management is run as per the act 'Provincialisation of Aided College, 2005 Govt. of Assam'. The act bestows sufficient power on the Governing Body constituted as per the government norms for the effective and smooth running of the college. As per the act, the Principal is the member secretary of the Governing Body (GB) who is to take all the administrative, academic and financial liabilities of the institute. The very composition of the Governing Body upholds the character of decentralization and participation of different stakeholders such as-

- President – directly appointed by the Director of Higher Education (DHE), Govt. of Assam, - preferably a person of Educational involvement.
- Principal – the member secretary of the GB assigned for executive and administrative head of the institute.
- 'Two Vice- Chancellor nominated University Nominees' supposed to be responsible for university approval of any concerned matters.
- Three Guardian Members (One must be lady member) - appointed by the Director of Higher Education (DHE), Govt. of Assam after the forwarding of the names by the Principal. Members are mainly supposed to take the role of student feedback provider.
- Two teacher members – elected by College Teachers' Unit, - supposed to provide views, suggestions etc for the all round development of the institute in addition to placing their any inconvenience and grievances.
- One member from non-teaching staff – elected by the association of non-teaching staff – supposed for direct coordination towards the non teaching staff for deciding different relevant issues.
- One donor member of repute nominated by the Principal supposed to be the reviewer of expectation and reality.

Thus it is observed that the Governing Body is constrained to be the decision making body of decentralizing and participating character. In addition it is the ideal structure of highest "Grievance Redressing cell".

Being the executive and administrative head the Principal takes the leadership of the 'Lead Time'. The lead team is mainly concerned with building and maintaining commitment for the benchmarking process throughout the organisation by:

- Providing leadership in decisions on the particular areas of focus, and facilitating the selection of the “Preparation” and the “Visit” Teams.
- Managing the process to achieve targets on time and within budget
- Integrating the benchmarking process with other improvement initiatives being planned or currently in operation.

The Lead Team generally consists of:

- Three senior most members, preferably from head of the departments
- Academicians (specific to area of focus) from affiliating university (Gauhati University), IIT Guwahati as these institutes are very near to our college.
- Distinguished Alumni working /associating in institute of high repute.

A model-activity of members in recent Lead Team is shown in the following table:

Table 6.2: A model-activity of members in recent Lead Team

Person concerned	Designation	Focus Area Involved	Outcome
Mrs. Dipsikha Bhuyan	Vice Principal & HoD, English	Consultancy offered to the Principal	Management Enrichment
Dr Nripendra Nath Talukdar	Sr. most faculty in Science & Girls Hostel Suptd,	Any kind of campus –conflict management	Smooth running of the overall campus atmosphere
Dr Khagesh Sen Deka	HoD Deptt. Of Assamese, Ph D guide	State language (Assamese) enriching,	<ul style="list-style-type: none"> • Linkage provider with Utkal University folklore Study • Research fellowship receiver from ‘Asom Sahitya Sabha’
Prof. Bhaba Sarma	HoD, Deptt. Of Mathematics, IIT Guwahati	Academic Area	National/ International Academia- Linkage provider such as: <ul style="list-style-type: none"> • Linkage with Iisc, Banglore • Linkage with ‘Institute of Mathematical Science and Application, Odissa, Govt. of India • Linkage with Iowa University
Prof. M.C. Kalita	Prof. Department of Bio-technology, Gauhati University, Assam	Academic Area	Motivating and guiding factor to have: <ul style="list-style-type: none"> • Institutional Bio-tech Hub, Department of Bio-technology

			(DBT), Govt. of India <ul style="list-style-type: none"> Star College Recognition under Star College Scheme, DBT, Govt. of India to develop life science
Dr. Sasanka Deka	Alumnus , Asstt. Prof. Deptt. of Chemistry (Nano-chemistry), Delhi University	Academic Area	Motivation and help provider in the preparation of the Proposal for M.Sc in Nano-Science and Technology
Dr. Biraj Kakati	Alumnus , Post.doc. Solar Cell related Research Programme	Academic Area & Power Management	Motivation and concept provider to have the solar plant of 50 Kwatt from Ministry of Renewable Energy, Govt. of India

The Lead Team takes the initiative to constitute the 'Preparation Team. Mainly, the 'Preparation Team' is of four kinds:

- Academic
- Construction related
- Financial Management
- Student related

The decentralizing and participating character of the whole management of the College is ensured through the careful constitution of the different 'Preparation Team. In tabular form it can be expressed in the following way:

Table 6.3: Preparation Team of the College

Preparation Team	Formation	Major Sub-Head	Formation
Academic	President: Principal Working President: Vice Principal Members: (a)All the heads of the respective department (b)Special invitee if required.	Admission	Every year new committee is formed as per the consideration of the efficiency.
		Routine	Do
		Internal Examination	Vice Principal is entrusted with all the follow-up
		University Examination	As per the university guideline formation is followed.
		Class Management	Vice Principal and three /four senior colleagues from both stream.
		Research	Two committees are

		Management	formed: (a)One central committee to monitor and to record over all college research scenarios. (b)Departmental Research Committee is formed as per the UGC need.
		New Planning	It is so formed so that it can have an outlook for another 50 years.
Construction related	President: GB President Member Secretary; Principal Members: As per the State Govt. and UGC norms	Depending on the construction-job, some other unit is formed	Two major works are in progress: (a)(G+3) Science block –construction is in progress (b)Mini Indoor stadium construction is going on
Financial Management	The Principal is to take all the financial responsibilities. So in addition to staff members and college account, the authority takes help of: (a)One Tax consultant and financial adviser (b)The construction related all financial management is monitored by one 'Executive Engineer' through consultancy service.	Sub – committees are formed in need basis	Sub committees are formed as per the grant based guidelines.
Student related	Pub Kamrup College student union is formed as per the respective constitution. In addition, NSS, Red Ribbon Club etc are formed	Defined clearly in the constitution.	Sub units are also formed as per the constitution- and others are also in defined way.

The role of the 'Preparation Team' is considered as:

- To work, within the scope, defined by the lead team, on a single assigned process
- To carry out the detailed analysis and preparation
- To help to identify partners
- To have representation before visit team
- To analyze findings and design improvement projects.

The 'Visit Team' is mainly consisted of President Governing Body, Principal and Vice Principal. The other member is sometimes inducted considering various points of concern. The role of 'Visit Team' is considered as follows:

- To carry out the benchmarking visit within the scope defined by the preparation team
- To deliver the findings to the preparation team to implement.

6.2. Strategy Development and Deployment

The vision and mission already stated provide the necessary background where our strategic planning should stand. We may express it in five stages follow-up:

Table 6.4: Stage wise Strategy Development and Deployment

I	Planning the project	Identify the strategic intent	Select the process to benchmark	Identify stakeholders' needs and expectations	Identify critical success factors
II	Forming the teams	Select lead team members	Select preparation team members	Select visit by team members	Train all team members
III	Collecting the data	Map and measure current process	Research potential benchmarking partners	Approach selected benchmarking partners	Gather data from identified partners
IV	Analyzing the data	Compare your process with your partners	Analyze the performance gaps	Take ideas learned from your partners	Prepare solutions
V	Taking action and recycling the process	Set goals	Establish a budget	Decide on change process	Monitor progress and communicate

Pub Kamrup College is marked by the report of 'Previous NAAC Accreditation Peer Team' as a potentially able institution to stand not only in regional but also in national/international honour of credit in future. Being encouraged and understanding all the directions pointed by the report the college follows year wise broad perspective to march ahead. With a comprehensive planning through above mentioned five stages follow-up, the College whole marks the session in following ways:

- 2009 – 2010 – Undergraduate Academic Improvement

- 2010 - 2011 - Undergraduate Academic Improvement
- 2011 - 2012 - Infrastructure Development Planning
- 2012 – 2013 – Goal based research motivation
- 2013 – 2014 - Development of ‘Knowledge Base’ endowed with skill in P-P-P mode

For the goal oriented undergraduate academic improvement, the strategies are intended to chalk out –

- Confidence build up among the students
- Group Learning
- Departmental Library-facilities Enhancement
- Growing more close relation between teacher and students
- Faculty development

Various positive outcomes which are already included in defined criterion of the ‘Self Study Report’ are obtained in these two sessions.

Pub Kamrup College was established in 1972. The most of the old infrastructure is in old age condition demanding full replacement. It is the daunting challenge to the authority to repair and to construct the new infrastructure from its limited funding. The high enrollment in science stream and comparatively good academic record stand as two major points for the authority to approach for different funding agency. Thus-

- Inclusion of college development fees in the admission fees is allowed by the different stakeholders
- Proposal submitted to State Government Funding,- and accordingly assurance is obtained.
- Planning followed for achieving more UGC funding, - such as additional grant etc
- Plan to receive grant from other central government agencies such as department of bio-technology, department of science technology, ministry of new renewable energy etc., - the result in the subsequent sessions is very encouraging.

Now, the college is in self confident state that in near future the institute will be in a new set up from the infrastructure development-point of view.

Higher education is critically dependent on research culture. Our college is in encouraging state providing recognized undergraduate talent to different higher study field. The institute strongly believes our budding scientists in both core science and social science should have the appropriate motivation in undergraduate stage. Pub Kamrup College is the premier educational institute located at Baihata Chariali in the district of Kamrup, Assam. The institute is only 14 km away from IIT Guwahati and 25km away from Gauhati University, Assam. It is also noteworthy that our college is included in ‘**STAR College Scheme**’ by Ministry of Science & Technology – DBT, Govt. of India for strengthening of Life Science & Biotechnology Education and Training at UG level. Thus-

- The main thrust area of research in science stream is targeted to ‘Life Science Development’ with good quantum of grant from DBT, Govt. of India with proper incorporation of allied science subjects. The setting of sophisticated computer laboratory, institutional biotech hub etc are the boosting factors for research culture development. The graph of result is observed in uprising trend.

- Assam being in turmoil condition due to different ethnic conflicts time to time, the college stream related to social science is constantly pursuing some academic studies to sensitize the people against the unscientific attitude and to show the root cause of this misunderstanding.
- Inter-state-bridging through folklore research is already started in an effective and meaningful way.

This session our college is also geared up with nationally accepted concept to provide the citizen of knowledge with skill based capabilities. With a meticulously planned manner the college takes the venture-

- Establishes collaboration with reputed private agency to introduce skill based courses. With 'UGC Seed Money' grant already two add on courses have been started.
- Proposal submitted to UGC skill based diploma and degree course under the concept of Community College.

6.3. Faculty Empowerment Strategies

'The institute is great if its faculty is great.' - Pub Kamrup College sincerely believes this philosophy. The management always encourages the faculty to pursue different self development courses for the greater benefit of the college. In addition, in campus seminar/workshop/ group discussion are also followed in same aim and objective. Special leave/ minimizing stipulated work load are also the other feature to make the very empowerment possible in a proper way. In addition to UGC offered facilities our faculty becomes able to achieve –

- Summer Research Fellowship sponsored by IISc, Bangalore, NASI, INSA in Saha Institute of Nuclear centre, Kolkata
- DBT sponsored fellowship to pursue research in Brain Research Centre, New Delhi
- Academic linkage with Utkal University, Odissa to pursue some comparative study etc.

Moreover other non academic facilities such as mutual fund, bank loan, on time promotion etc are also considered in a very responsive way.

6.4. Financial Management and Resource Mobilization

The major college resource mobilization becomes possible through-

- State Government grant
- UGC, DBT, DST funding
- Student fees collection

Very small amount is received from –

- Professional course
- Fishery

With careful ‘Governing Body Monitoring’ the received funding is utilized in a planned way. The recently a ‘College Press’ is established in the college campus. The plan is under consideration to utilize the press facilities for resource mobilization.

Table 6.5: Financial Management and Resource Mobilization

Sl.no	Infrastructure developed	Ongoing/ Completed	Fund allocation (in Rs.)	Funding source	Year of completion
1.	Two floors	Completed	1,20,00,000/- - 29,40,000/- 26,08,886/-	State UGC College	2013
2.	Women hostel	Completed	100,00,000/-	UGC	2009
3.	Girls Common room	Completed	4,00,000/-	State Govt. of Assam	2009-10
3.	Hostel approach road	Completed	2,00,000/-	MGNREGS	2013
4.	Playground	Ongoing	4,90,000/-	State and College	.....
5.	Indoor stadium	Ongoing	67,50,000/-	UGC	.....
6.	Four stories Science Block	Ongoing	9,00,000/- 100,00,000/-	UGC State	.....
7.	College compound wall	Ongoing	Still not calculated	College and others	.....
8.	Seminar/conference halls with LCD projectors and smart board	Completed	More than 12,00,000/-	State Govt./UGC/College	2013
9.	Institutional bio-tech hub	Completed	27,00,000/-	DBT, Govt. of India	2013
10.	Entrepreneurship Promoting Botanical Garden with Net house	Completed	3,00,000/-	College Fund	2009
11.	Internet facility	Completed	1,60,000/-	BSNL internet connection under NME-ICT	2013
12.	Solar Energy Plant with 50 KW capacity	Completed	1,35,00,000/- -	Ministry of Renewable Energy, Govt. of India	2013
13.	Power generators	Completed	6,29,000/-	UGC	2012
14.	Offset press	Completed	6,10,000/-	College Fund	2014
15.	Sophisticated computer aided study room for Language laboratory of Chinese Mandarin as well as other academic activities	Completed	4,43,820/-	UGC	2012

The details of the expenditures of the last four years for developing infrastructure are shown in the following table.

Table 6.6: Infrastructural grant received and spent during last four years

Year	Infrastructural Grant/ Scheme	Funding Agency	Amount (In Rs.)
2009-10	Infrastructure development Grant	UGC	10,00,000/-
	Women hostel	UGC	40,00,000/-
	College development Grant	UGC	8,50,000/-
	Girls Common Room	State Govt.	4,00,000/-
2010-11	Women hostel	UGC	100,00,000/-
	College development Grant	UGC	10,07,000/-
	Infrastructure grant	State Govt.	4,90,000/-
2011-12	College development Grant	UGC	29,16,000/-
	Additional grant	UGC	21,78,390/-
	Infrastructure development grant	State Govt.	9,80,000/-
2012-13	College development Grant	UGC	8,80,000/-
	Additional grant	UGC	2,41,492/-
	Additional grant	UGC	12,00,000/-
	Sports infrastructure (Indoor stadium- Continuing)	UGC	37,50,000/-
	Infrastructure grant	State Govt.	14,70,000/-
2013-14	College development Grant	UGC	1,00,000/-
	Sports infrastructure (Indoor stadium- Continuing)	UGC	30,00,000/-
	Additional Grant	UGC	2,00,000/-
	Infrastructure grant	State Govt.	4,90,000/-

6.5. Internal Quality Assurance System

The quality of the institute must be ensured in every step. The management strongly feels that the quality might be ensured in full sense if –

- A proper work culture is supposed to continue
- A proper monitoring system is to be implemented
- Special measure for motivation and rectification

Though the different ‘Team’ mentioned above are fully involved to ensure all round quality management of the college, now in present concept an ‘Internal Quality Assessment Cell’ is formed with this management-objective. How the cell is shouldering these responsibilities is mentioned in the pre defined criterion.

In addition, as per the state government order, the College installed automated recording system for workload hour. It is noteworthy that the staff participation in different activities of the college is very much encouraging and completely indifferent to machine

recording. The authority also keeps daily academic audit through some specially prepared questionnaire. Moreover a computerized feedback mechanism has recently been installed.

Any pitfall in Quality Sustenance is seriously considered. It is discussed in various forums. In this regard, if any grievance from the involved staff is raised, the proper redress is carefully followed in different grievance redressing mechanism. The working of quality sustenance is very complex, - and highly constrained to our social system. But for an institute of higher education the development of this working is fully dialectical in nature. So, it demands both sides intervention, that is, institute to society and society to institute. Alumni associations, Stakeholder-committee are mainly the input provider in this respect.

CRITERION VII

INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Initiatives taken by the College to make the campus eco-friendly

To build an eco-friendly campus, the entire college community is accustomed with following initiatives-

Proper use of energy and its conservation: Power is generally used only in need and it is saved by putting off all electrical appliances by the user when not in use. Since the classrooms and office rooms can avail sound sunlight and air, therefore minimum use can be assured.

Rain water harvesting: Construction of a pond inside the campus of the house is an age old practice in Assam. This pond serves as a rain water reservoir as well as ground water recharging unit. Our institution owned a pond within the campus since the inception of the College.

Use of renewable energy: To save the non-renewable energy, the college has already set up 50KV solar plant which is used economically in the most essential time.

Use of Public address system: To promote the paperless communication and in time information the whole campus is well connected by a public address system.

Waste management: Biodegradable waste materials including canteen wastes are regularly disposed to the dumping pit. Chemistry and Biological laboratory waste materials are disposed separately. Non degradable waste including e-waste are properly kept for sale and disposed to the vendors for recycling.

Check Dam Construction: The Check Dams in and around the college is permanent in nature. Waste water not polluted with harmful chemicals and non-degradable substance is disposed through manmade and natural channels and used by the farmers in the adjoining and adjacent agricultural fields.

Every Household should have at least a *Neem* plant: ‘Green Earth Safe Earth’ a plantation Cell has been formed in the department of Geography in 2003 to make the students aware about the conservation and restoration of the environment. Since then i.e. from 2003 the students and faculty members are involved in planting sapling particularly *Neem* plants (*Azadiracta indica*) in and around the college campus. Moreover students are encouraged for plantation by presenting them one *Neem* plant to each of the student in a programme with the motto “Every household should have a *Neem* plant”. Planted saplings are monitored time to time by the assigned in-charges of the Department. Apart from this, plantation is done through a “Green Dairy Programme”.

E-waste management: The College uses a number of computer systems in administrative block, Computer science department, Libraries, and in each and every department with internet facilities. For this purpose, about 90 numbers of PC’s and printers are used.

In order to prevent the hazards that may occur from the damaged PC's, the Management has taken some measures as stated below to make the college environment healthy.

- The old PCs which are in working condition are donated to the nearby educational institutions.
- The College authority also returns the old PCs to the suppliers.
- The old computers are sold out for recycle.
- Printers' ink is refilled, instead of using new ink cartridge.

7.2 Innovations

7.2.1 Details of information introduced during the last four years which have created a positive impact on the functioning of the students.

Importance has been given to student's participation or involvement in various institutional activities. Phase wise up gradation of class rooms with Plug-n play system; organization of seminars, popular talk, motivational talks, etc. by inviting eminent personalities or academicians; etc have created a positive impact on the students of the College. Introduction of Add-on courses for students' skill development is also a mentionable step towards this direction. Moreover thrust has been given in extension activities for community development, Alumni and parent-teachers meet and undertaking renovation and development works of college campus.

In addition to the above some specific measures taken in this regard are-

- Introduction of a process of submission of daily class record by the faculties to the principal in a prescribed format for regular monitoring of the Teaching-learning processes.
- Provision of Financial support to the students under the BPL categories on the basis of merit through the "Poor- aid-Fund".
- Establishment of a College Printing Press for quality and smooth supply of the printing materials of the college such as Question papers of Sessional/Annual examinations, College Magazine, Prospectus, Brochures for workshops/seminars/conferences organized by the College, Official matters, Materials of the students Union Election.
- Establishment of a Book Stall to provide Stationeries, Text books, Reference books etc. at a reasonable price for the students in the College premises.
- Introduction of a special Book Bank under the title *Jnan Kosh* for meritorious students.
- The special Book Bank for students under BPL category.
- Consent Letter is taken from the guardian of the contesting candidates for General Election of College students' Union. The presence of the guardian concerned of the contesting candidates in the meeting convened by Election Officer is made mandatory for smooth conduction of the election.
- Uninterrupted power supply system through solar power plant.

7.3 Best practices

Best practice – 1

Title of the Practice

GREEN DIARY- a mandatory record Register on Environmental Activities to be maintained by the students of Pub Kamrup College.

Goal

- *To make the youth a responsible, committed and environment friendly citizens of the nation.
- *To guide the youths through the principle-“Think Globally Act Locally”
- *To motivate the youths towards environmental issues, through academic as well as competitive manner.

The Context

It is necessary to plant trees to sustain human life, environment and biodiversity. But in our part of the world we care little about planting and preserving trees to sustain our lives and those of birds etc. As trees are diminishing, habitats of beings damaged and destroyed, leading to reduction of fauna. Planting more and more trees will save our planet, as well as protect us from other dangers. Moreover, trees produce as much oxygen, act as carbon sink and absorb carbon dioxide; they clean the air by absorbing carbon monoxide, sulfur dioxide, and nitrogen dioxide and remove air pollution. In villages people sit under the shade of trees and get cool in summer. There is no need for an air conditioner, and during windy and cold seasons trees act as windbreaks. Agricultural lands are being spoiled and there is much soil erosion due to flood and large scale deforestation, causing destruction of habitats of the beings and the people. Throughout the country, campaigns for tree plantation need to be initiated to cope with the climate change and global warming. Pub Kamrup College has been taking mass plantation drive, involving the teachers, students and the local people, since 2003. The process was initiated by the Geography Department of the college under its ‘Plantation Cell’ with a motto ‘Green Earth, Safe Earth’. In the first phase of this programme the teachers and the students of the department planted and nurtured one ‘*Neem*’ sapling in the campus of every household located within a radius of 1km centering the college the plantation drive was also covered the local schools campus public institutes etc. till 2012. In 2012-2013 sessions, the college authority extended the plantation drive to include all the students of the college by introducing a new venture under the name ‘Green Diary-A Drive for a Green World’, where some special guide lines rules and work procedures for the students are given. Moreover, it is a record register for their environmental works and deeds, plantation of sapling and its growth and development. This Diary encourages and involved the students to the plantation drives in a positive way. It’s a mandatory works for all the bonafied students of Pub Kamrup College and there is a close monitoring body for the same who visits the plantation sites and evaluate their works for selecting Best Planter and Green Diary maintainer for each session.

The Practice

Green Diary –A Diary for a Greenery, it is an endeavour to involved and motivate the youths towards a healthy safe and sustainable environment. It is quite an exceptional and

innovative measures of the College through which youths are involved and encouraged for plantation works, environmental activities and sustain biodiversity.

The College takes these initiatives since 2011-2012 sessions. The Green Diary is distributed to the students in the date of screening and admission with a ceremonial function where everyone have to take a special PROMISE-as“ *I Sri-----do hereby promise in the name of God that I will plant at least three saplings in my residential campus or any other convenient place in our locality and maintain them properly. I shall keep away from all the activities that may pose harmful and shall do the needful to keep my neighbours and friend circle away from such activities.* “After taking this promise the admission procedures started and with other official documents the Green Diaries are provided to the newly enrolled students for the session. The students are asked to follow the Rules of the Green Diary which are written in the Diary. The Rules are-

- At least three saplings either same species or different species have to be planted by the students during her/his academic period.
- Each sapling has to be well maintained with proper supply of water and manure.
- Saplings have to be protected from any harmful elements.
- In case, any sapling dies, it has to be replaced by planting another.
- The records of growth and development of planted saplings have to be documented in the Green Diary from time to time.
- The planted saplings have to be marked prominently, so that it can be identified easily.
- For evaluating the plants, the in-charge teacher has to be informed regularly by the concerned students.
- Other than plantation programme, at least one environmental activity has to be recorded in the Green Diary.
- The Green Diary has to be submitted to the authority on the last day of the final semester/final examination of the concerned course.
- The Certificate attached with the Diary will be signed by the Principal after a thorough check and handed over to the student with her/his course completed Certificate.

All these rules recorded in the Green Diary have to be followed mandatorily by all the students, and the same have to be monitored by a Committee –Green diary evaluation Committee (GDEC), consisting of the Faculty members of the College.

The monitoring Committee, awarding and encouraging policies are the extra efforts of the College which encourages the youths in a more spirited and better way towards the drive.

Evidence of Success

The College is witnessing encouraging respond from the students and local community. The College fraternity has distributed nearly 1076 Green Diaries to all the newly enrolled students for the session 2012-2013 out of which 632 have submitted with significant undertaking works to the GDEC. The turn over percentage of Green Diary for the first session was-57.45%

Nearly 2893 (one thousand eight hundred ninety three) saplings had planted by 632 students in the session 2012-2013. The Department wise Diary turn over percentage for the UG level students' are-

Table 7.1: Department wise Diary turn over percentage for the UG level students

Total average turnover during 2012-13 Session = 57.45%		
Sl.no	Name of the Department	Turn over Percentage (%)
1	Statistics	100%
2	Zoology	70.02%
3	Assamese	67.4%
4	Economics	63.6%
5	History	56.2%
6	Pol. Science	55.8%
7	Geography	55%
8	English	53.5%
9	Physics	51%
10	Education	49.2%
11	Botany	45.1%
12	Chemistry	30.9%
13	Philosophy	29.5%
14	Mathematics	11.1%

Out of 632 students 7(seven) students are adjudged as Excellent Performer and Best Environment Worker for the session-2012-2013 and awarded a Cash award of Rs.1000/(One thousand) and a certificate of Excellent Performer and Best Environment Worker from the College authority to encouraged the students and accelerate the drives.

Problems Encountered and Resources Required

As the locality of the College is typically rural and agro based, so there is no such any acute problem for the drives, except some financial and monitoring problems. As the faculty strengths are not sufficient in numbers so due monitoring in due time and regular motivational or awareness talks are to be maintained very hardly. Sometimes the collection of required number of saplings has to collect so hardly.

Notes

We are very much pleased that this drives have already generated sensation in the greater locality of the college, as some youths-including our alumni and existing students have taking initiatives in establishing units naming as '*Seuji Basundhara*' an extended cell of Green Diary of Pub Kamrup College- on 25th December, 2013 at Pubpar Madartola High School, Baruahjani, Kamrup, Assam.

8. Contact Details

Name of the Principal: Dr. Balendra Kumar Dev Choudhury.

E-mail: principal@pubkamrupcollege.org

Mobile: 9435119315

Name of the Institution: Pub Kamrup College.

City: Baihata Chariali

Website: pubkamrupcollege.org

PIN: 781381

Work Phone:03621286300

Best practice -2

Title of the Practice Poor Aid Fund

Objectives of the Practice

In order to create fellow-feeling among the student community a nominal fund mobilization drive is practiced among the students at the time of their first entry into the College as a Degree student, to extend moral support to the economically weaker students for higher academic motivational prospect.

Goal

To generate humanitarian feelings among the student community for better understanding about the underprivileged section of the society.

The Context

The College is established in a rural area where marginalized farmers' families dominate the feeder area. Students coming from the marginalized families cannot afford higher education and these students are vulnerable to college dropouts. As a social commitment to the society the student community through the College authority extends helping hand to the economically weaker students to continue and fulfill their dream for higher study. Thus this type of motivational approach will help the student to make them a responsible citizen in the future course of time.

The Practice

The poor-aid-fund was initiated by the College authority with the help of student union in 2000-2001 to foster the philanthropic feelings amongst the students. It is to be noted that the encouraging result of this venture is observed through the donation of Rs.200000/- out their UGC sponsored rental share for the construction of Science block in the College.

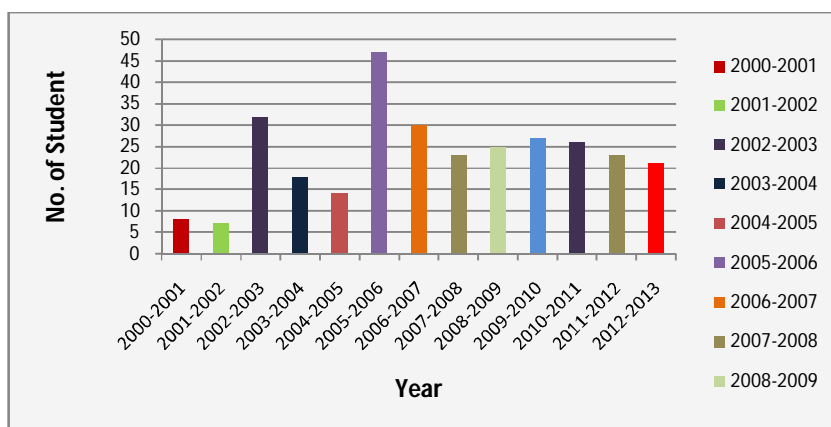
The fund generated through this initiative is meant for the help of poor students. For this purpose, an amount of Rs. 5/- (Rupees Five) only is collected from each student during the admission into First semester under the head of Student Union fees and the same is deposited in a separate Savings bank account in a Nationalized Bank.

The fund is operated by a joint committee comprised of teachers and student which is as follows-

- Chairperson - Principal
- Convener - Treasurer of the Student Union
- Members- Two faculty members
Vice President of Student Union
General Secretary of Student Union

Table 7.2: Number of students receiving the aid

Sl.No	Academic Year	No. of student
1	2000-2001	08
2	2001-2002	07
3	2002-2003	32
4	2003-2004	18
5	2004-2005	14
6	2005-2006	47
7	2006-2007	30
8	2007-2008	23
9	2008-2009	25
10	2009-2010	27
11	2010-2011	26
12	2011-2012	23
13	2012-2013	21



Evidence of Success

- The student fraternity of the College has donated an amount of Rs. 1, 80,000/- (Rupees one lakhs eighty thousand) from their own UGC funded conveyance and rental allowance of XIth plan (2011-12) as contribution to the College fund for construction of Science block.

- The student of the College extends their helping hand in terms of books and food materials to the aggrieved flood victim people during 2009, when Puthimari River created havoc in the month of July.
- General student, employees and faculty members of Pub Kamrup College individually generated Rs. 20,000.00 (Rupees twenty thousand) and donated to the parents of Mr. Nayanjyoti Baruah, a brilliant student of H.S. first year Science of this College in his ailments of heart diseases in the month of October, 2013.

Problems Encountered and Resources required

- i) The Fund Management Committee receives huge number of application seeking financial help compared to its resource.
- ii) Limitation in financial resource mobilization.

Contact Details

Name of the Principal: Dr. Balendra Kumar Dev Choudhury.

Name of the Institution: Pub Kamrup College.

City: Baihata Chariali

PIN: 781381

Work Phone:03621286300

Website: pubkamrupcollege.org

E-mail: principal@pubkamrupcollege.org

Mobile: 9435119315

ABBREVIATION

AAU	Assam Agriculture University
ADMLT	Advanced Diploma in Medical Laboratory Technician
ASC	Academic Staff College
ASTEC	Assam Science Technology and Environment Council
B Voc	Bachelor of Vocational Courses
BBA	Bachelor of Business Administration
BCA	Bachelor of Computer Application
BPL	Below Poverty Line
CBCS	Choice Based Credit System
CCGC	Career Counseling & Guidance Cell
CCMLT	Certificate Course in Medical Laboratory Technician
CGC	Career Guidance Cell
CIA	Continuous Internal Assessment
DBT	Department of Biotechnology
DRC	Departmental Research Committee
DST	Department of Science & Technology
DTTM	Diploma in Travel and Tourism Management
EEC	Extension Education Cell
EOI	Expression of Interest
EVS	Environmental Studies
FDP	Faculty Development Programme
FIP	Faculty Improvement Programme
GB	Governing Body
GDEC	Green Diary Evaluation Committee.
GRAPES	Gamma Ray Astronomy in PeV EnergieS
IAS	Indian Academy of Sciences
IASST	Institute of Advance Studies in Science and Technology
IBH	Institutional Biotech Hub
ICANN	International Conference on Advance Nano material and Nanotechnology
ICFANT	International Conference on Fundamental & Application of Nano Science & Technology
ICNAP	International Conference on Non Accelerator Particle Physics

ICRC	International Cosmic Ray Conference
ICT	Information & Communication Technology
IDAOC	Inter Departmental Activity Organizing Committee
IDOL, G.U	Institute of Open & Distance Learning, Gauhati University
IISc	Indian Institute of Science
IITG	Indian Institute of Technology, Guwahati
IMD	Indian Meteorological Department
IMDAWS	Indian Meteorological Department Automatic Weather Station
IMSC	The Institute of Mathematical Science
INFLIBNET	Information and Library Network
INSA	Indian National Science Academy
INSPIRE	Innovation in Science Pursuits for Inspired Research
IQAC	Internal Quality Assurance Cell
ISR	Institutional Social Responsibility
IT	Information Technology
IUAC	Inter- University Accelerator Centre
IUPAP	International Union of Pure and Applied Physics
IVAC	International Vaccine Access Center
KKHSOU	Krishna Kanta Handiqui State Open University
MIL	Major Indian Language
MLT	Medical Laboratory Technician
MOBC	More Other Backward Classes
MoU	Memorandum of Understanding
MTTSP	Mathematics Training and Talent Search Programme
NASI	National Academy of Science, India
NBMT	Navajyoti Bhattacharyya Memorial Trust
NBRC	National Brain Research Center
NEMCARE	North East Medical Care & Research Centre (P) Ltd.
NGO	Non Government Organizations
N-LIST	National Library and Information Services Infrastructure for Scholarly Content
NSS	National Service Scheme
OBC	Other Backward Classes
OC	Orientation Course

OPAC	Online Public Access Catalogue
PCR	Polymerase Chain Reaction
PGDCA	Post Graduate Diploma in Computer Application
PKC	Pub Kamrup College
PLANNER	Promotion of Library Automation & Networking in North Eastern Region
PRC	Permanent Residential Certificate
RC	Refresher Course
RPC	Research and Publication Committee
SC	Schedule Caste
SHIMEC	Swift Heavy Ions in Materials Engineering & Characterization
SINP	Saha Institute of Nuclear Physics
SLM	Study & learning Material
SOUL	Software for University Library
SRF	Senior Research Fellow
ST	Schedule Tribe
STC	Short Team Course
STI	Science Technology Innovation
TDC	Three Year Degree Course
TERI	The Energy & Resources Institute
TLM	Teaching Learning Material
TTM	Travel & Tourism management
UG	Under Graduate
UGC (NERO)	University Grants Commission (North-Eastern Regional Office)
USTM	University of Science and Technology, Meghalaya
WSC	Women's Study Cell
YEVEC	Youth Empowerment and Value Education Committee