Pub Kamrup College
Estd:-1972
P.O. Baihata Chariali

Annual Report: 2017-2018

ESTD : 1972

Pub Kamrup College
Baihata Chariali

Kamrup, Assam
Pin: 781381

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Annual Report: 2017-2018

1.Details of the Institution

- Name of the Institution: Pub Kamrup College
- Address Line 1: Baihata Chariali
- Address Line 2: Kamrup, P.O.- Baihata Chariali
- City/Town: Baihata Chariali
- State: Assam
- Pin Code: 781381
- Institution e-mail address: principal@pubkamrupcollege.org
- Contact Nos.: 094351 19315; 9365424034
- Name of the Head of the Institution: Dr B K Dev Choudhury
- Tel. No. with STD Code: 03621 286300
- Mobile: 094351 19315
- Name of the IQAC Co-ordinator: Md. Ayez Ali
- Date of Establishment of IQAC: 07/04/2003
- Institutional Status

Affiliated College Yes [√] No

Regulatory Agency approved Institution Yes [√] No [-]

Type of Institution Co-education [√] Men [-] Women [-]

Urban [-] Rural [√] Tribal [-]

[-] [√] [√]

Urban [-] Rural [√] Tribal [-]

Financial Status Grant-in-aid [-] UGC 2(f) [√] UGC 12B [√]

Grant-in-aid + Self Financing [-] Totally Self-financing [-]

- Type of Faculty/Programme

Arts [√] Science [√] Commerce [-] Law [-] PEI (Phys Edu) [√]

Others (Specify)

- ☐ P.G. Course in Biophysics
- ☐ Self finance courses on BBA, BCA, PGDCA, BVoc in Software Management and System Administration and BVoc in Food Processing and Quality Management.
- ☐ Add on courses in MLT and TTM.
- ☐ UGC funded course on "Organic Farming and Post Harvest Management" under Community College Scheme.
- ☐ Certificate courses on 1) Personal Development Soft Skill and Employbility 2) Yoga and Pranayama 3) Entrerpreneurship

- **Name of the Affiliating University** Gauhati University
- **Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc.** Advanced Level Biotech Hub, DBT

2. IQAC Composition and Activities

- **Total No. of members** 23
- **No. of IQAC meetings held** 04
- **No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC**

Total Nos: 09 National 03 State 01 Institution Level 05

- **Themes**

1) UGC sponsored National seminar on "Harmony with nature in the context of Chemistry, Environmental issues and challenges" held on 11-12th Sept., 2017.
2) UGC sponsored National seminar on "Innovative Practices in Teaching, Learning and Evaluation in Higher Education" held on 13-14th Sept., 2017.
3) UGC sponsored National seminar on "Food and Bioprocess Research for Industrial Application" held on 15, 16 Sept., 2017.
4) Mathematical implications in Biology
5) Mathematical Biology
6) Environmental Issues and Climate Change.

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- **Significant Activities and contributions made by IQAC**

1) National Science Day, 2018 was celebrated with different activities which include: Science Model competition for school students (34 groups; 83 students)• Poster competition for UG students (35 groups; 87 students)• A popular lecture on "Environmental Issues and Climate Change" was organized on the• same event.
2) The college celebrated state level World Environmental Day with two days program on 4-5 th June, 2018, sponsored by Assam Science Technology and Environment Council (Govt. of Assam) with a view to create awareness for sustainable development among students, school teachers and college teachers.
3) A motivating programme cum inauguration of PG class of Biophysics was organized on 10th August, 2017 with the gracious presence of Prof. Probodh Borah, College of Veterinary Science, Guwahati, Prof. M. P. Bora, Physics Dept., Gauhati University and other invitee from IITG, IASST, GU.
4) A lecture program on Mathematical implications in Biology was organized on 24th October, 2017. Prof. Swadhin Pattanaik, Founder Director, Institute of Mathematics and its Applications, Bhubaneswar and Prof. Swaroop Nandan Bora, HOD, Dept. of Mathematics, IIT Guwahati delivered their lectures as resource persons.
5) A talk on Biophysics was organized on 9th March, 2018 where Dr. PVB Reddy, Assam University, Diphu Campus) delivered his lecture.
6) A lecture on Mathematical Biology was organized on 15th March, 2018 with resource person Prof. Kripasindhu Choudhury, Jadavpur University.

- **Plan of Action of the Institution**

	Plan of Action	Achievements
Scholastic	1) To introduce M.Sc. course in Biophysics 2) To organize national seminars 3) To train the students to clear different competitive examinations. 4) To organize talks on Mathematical Biology	1) Successfully introduced M.Sc. course in Biophysics from this academic year. 2) Three UGC sponsored national seminars have been organised. 3) 01 student cleared IIT JAM examination. 4) 03 talks were organized where eminent personalities gave lectures on Mathematical Biology
Research	1) To take initiative for submitting proposals for research projects under various funding agencies. 2) To cultivate research orientation among the students by conducting summer and winter	1) Projects have been submitted. 2) Summer research workshops have been organized by Advanced Level Biotech Hub for undergraduate students. 3) 04 students

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	school programmes. 3) To motivate students to apply for various summer research programs.	got selected in national level summer research programs.
Co-scholastic	1) To organize one state level inter college Badminton Tournament. 2) IQAC formulated "Best Department Selection Policy" with a view to increase the student participation from each department in various activities.	1) Decided to organize the tournament on 24 & 25 January, 2019. 2) Students' participation has increased in youth festivals.
Social Responsibilities	1) To organize different extension activities in the neighbourhood through NSS and Women Cell.	Different activities have been organized as follows: 1) Rastriya Sanghati Sudrihakaran program was organized. 2) Awareness cum training program on vermicompost for the benefit of the Bonbari village (adopted by the college) locality. 3) Awareness and training programs on organic farming, food processing and quality management and entrepreneurship development. 4) Awareness and science popularization program on Lets Grow with Science and Lets Know our Surrounding Plants and Animals at nearby school. 5) A street play was organized by the college on the streets of nearby locality to create awareness about evil effects of plastics. 6) The women cell of Pub Kamrup College organized free health camp in a nearby school to celebrate the National Women's Day where free check up of diabetes, blood pressure and weight of around 100 women of the locality has been carried out.

- **Details about Academic Programmes:**

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PG	--	01 (M.Sc in	01	--

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		Biophysics)		
UG	05 (BA, B.Sc., BBA, BCA, B.Voc)	--	03 (BBA, BCA, B.Voc)	03 (BBA, BCA, B.Voc)
PG Diploma	01 (PGDCA)	--	01 (PGDCA)	01
Advanced Diploma	01 (ADMLT)	--	01 (ADMLT)	01
Diploma	03 (DTTM, MLT, Organic Farming)	--	--	01
Certificate	03	--	03	01
Total	13	01	09	07

- **Total No. of permanent faculty**

Total	Asst. Professors	Associate Professors
46	23	23

- **No. of permanent faculty with Ph.D.** 21

- **Faculty participation in conferences and symposia:**

No. of Faculty	International level	National level	State level
Attended	--	90	--
Presented papers	5	15	--

- **Innovative processes adopted by the Institution in Teaching and Learning:**

The college has taken several innovative processes

1) To strengthen the academic atmosphere, the college has established different centres such as Science Study centre, Social Science Study Centre and Language Study Centre and to promote works on Mathematical Biology to help overall development of the students and faculties.

2) The College has organized seminars/workshops/summer training program/faculty development program etc. inviting experts in various fields from Institutes of National Importance for skill development of students and faculties.

3) Field visits both for students and faculties have been organized to renowned institutions, research laboratories, industries and other places of importance from where knowledge can be imparted to the young minds of students to nurture personality.

4) The college has already taking several initiatives to enhance skill of students by organizing summer training, industrial training, visit of institutes and organizing seminars for students in a frequent manner. As a part of curriculum Botany, Zoology and Geography students go for field works. Chemistry, Physics and other departmental students do project works in various fields which generate research training in them. It is worth mentioning that students of the college are regularly being selected for various summer training programs such as Indian Academy of Science sponsored programs, in National Institute of repute etc. With a view to enhance the hands on training of students the college has taken many measures which include summer school training on experiments, talk by invited speaker, visit of important laboratories etc.

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- **No. of faculty members involved in curriculum Restructuring / revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop**

-	2	-

- **Course/Programme wise distribution of pass percentage:**

Title of the Programme	Total no. of students appeared	Major			Overall Pass % (General +Major)
		Distinction %	I %	II %	
BA	349	N/A	39	44.2	70
BSc	218	N/A	52.3	12	78
B Voc (Software)	15	N/A	43	57	93.3
B Voc (Food Processing)	42	N/A	37.8	62.2	88
BBA	11	N/A	54	27	81
BCA	01	N/A	100	----	100

- **Initiatives undertaken towards faculty development**

Faculty / Staff Development Programmes	*Number of faculty benefitted*
Refresher courses	07
UGC – Faculty Improvement Programme	02
Staff training conducted by the university	02
Summer / Winter schools, Workshops, etc.	02
Others	01

- **Details of Administrative and Technical staff**

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	09	04	NIL	04
Technical Staff	16	01	NIL	06

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- **List of talks organized**

Sl. No.	Topic	Duration and Date	No. of participants
1.	UGC sponsored National seminar on "Harmony with nature in the context of Chemistry, Environmental issues and challenges"	11-12th Sept., 2017	90+
2.	UGC sponsored National seminar on "Innovative Practices in Teaching, Learning and Evaluation in Higher Education"	13-14th Sept., 2017	120+
3.	UGC sponsored National seminar on "Food and Bioprocess Research for Industrial Application"	15, 16 Sept., 2017	80+
4.	A motivating programme cum inauguration of PG class of Biophysics on 10th August, 2017 with the gracious presence of Prof. Probodh Borah, CVSc, Guwahati,	10th August, 2017	35
	Prof. M. P. Bora, Physics Dept., GU and other invitee From IITG, IASST, GU.		
5.	Lecture program on Mathematical implications in Biology (Resource person: Prof. Swadhin Pattanaik, Founder Director, Institute of Mathematics and its Applications, Bhubaneswar and Prof. Swaroop Nandan Bora, HOD, Dept. of Mathematics, IITG)	24 Oct., 2017	300
6.	A lecture on Biophysics (Resource person: Dr. PVB Reddy, Assam University, Diphu Campus)	9th March, 2018	20
7.	Lecture programme on Mathematical Biology (Resource person: Prof. Kripasindhu Choudhury, Jadavpur University)	15 March, 2018	200

- **Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number		02		01
Outlay in Rs. Lakhs		44.2		08

- **Details on research publications**

	International	National	Others
Peer Review Journals	14	02	--
e-Journals	01	--	--
Conference proceedings	01	02	--

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- **Details on Impact factor of publications:**

Range 0.9-6.939 Average 4.92 h-index 21 Nos. in SCOPUS 05

- **Research funds sanctioned and received from various funding agencies, industry and other organizations**

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (Rs. in Lakhs)	Received(Rs. in Lakhs)
Major projects	1) 2 years 2) 1 year	DBT	1) 22 2) 08	1) 8.7 2) 06
Minor Projects				
Interdisciplinary Projects	6th year	DBT	121.50	29.50
Total (Rs. in lakhs)			151.5	44.2

- **No. of books published** i) With ISBN No. 04 Chapters in Edited Books 14

ii) Without ISBN No. 03

- **No. of conferences organized by the Institution**

Level	International	National	State	University	College
Number	--	03	--	--	--
Sponsoring agencies	--	UGC	--	--	--

- **No. of faculty served as experts, chairpersons or resource persons** 01

- **No. of collaborations** **National** 07 **Anyother** 02

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- **No. of linkages created during this year** 09

- Total budget for research for current year in lakhs:

From Funding agency DBT From Management of

University/CollegeTotal Rs. 44.2 lakhs

- **No. of patents received this year:**

Dr. Nripendra Nath Talukdar, Associate Professor, Dept. of Chemistry has applied for a patent on "*Highly Efficient Catalyst from Banana plant for Transesterification of Vegetable Oils to Fatty Acid Methyl Esters*", application No. 1669/KOL/2008 of 26/09/2008.

- **No. of research awards/ recognitions received by faculty and research fellows of the institute in theyear**

Total	International	National	State	University	Dist	College
02	--	01	01	--	--	--

1) Research Associate of Biotech Hub and Faculty of Biophysics, Pankaj Kalita was awarded young scientist award by the Indian Society of Nano Medicine (ISNM) to participate in NANOBIOTECH, 2017 (The Annual Conference of ISNM) organized by ISNM and DBT, Govt. of India at IISER, Thiruvananthapuram during 7-9 December, 2017.
2) Dr. Pankaj Boro, Assistant Professor, Dept. of Economics has been awarded "Best Teacher Award" in the Kamrup District of Assam by Govt. of Assam.

- **No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)**

JRF 02 SRF 01

- No. of students Participated in NSS event: University level 20 State level 14

National level 02

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- **No. of faculty from the Institutionwho are Ph. D. Guides** 04

and students registered under them 04

- **Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility**

Serial No.	Event	Date	No. of participants
1.	*Rastriya Sanghati Sudrihakaran* program wasorganized and Pallab Bhattacharyya, IPS, DIG, Assam, graced the occasion as invited guest.	7th September, 2017	530
2.	School teachers and students had been given theoreticaland practical training in the Advanced Level Biotech Hub on current topics of science and technology. (5 different nearby High School participated in this programme).	23, 25, 27, 28, 30th September, 2017	76
3.	Awareness cum training program on vermicompost for the benefit of the Bonbari village (adopted by the college) locality.	16-22th December, 2017	45
4.	Awareness and training programs on organic farming, food processing and quality management and entrepreneurship development. Three self-help group (*Mahilagot*) participated in the programs.	17-18th February, 2018	30
5.	Awareness and science popularization program on Lets *Grow with Science and Lets Know our Surrounding Plants and Animals* at Saraighat LP School, Dumnichowki, Kamrup, Assam.	21st February, 2018	48
6.	The college celebrated National Science Day, 2018 with a view to popularize science. In the event various competitions had been organized which include Model competition for school students (34 groups; 83 students) and poster competition for UG students (35 groups; 87 students). A popular lecture was also arranged on the topic "Environmental Issues and Climate Change".	28th February, 2018	550
7.	The college celebrated state level World Environmental Day with two days program on 4-5th June, 2018, sponsored by Assam Science Technology and Environment Council (Govt. of Assam). In connection with the event street play has been organized by the college on the streets of nearby locality to create awareness about evil effects of plastics.	4-5th March, 2018	1200

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8.	The women cell of Pub Kamrup College organized free health camp in a nearby school to celebrate the National Women's Day where free check up of diabetes, blood pressure and weight of around 100 women of the locality has been carried out.	8th March, 2018	200
9.	The college has been selected under Unnat Bharat Abhiyan scheme by Ministry of Human Resource Development, Govt. of India among 293 educational institutes. Two faculties are already trained in IIT Delhi. Under this scheme the college is planning to do works on sanitation, programs on Swachh Bharat Abhiyaan etc. involving school and college teachers.	---	---
10.	The college regularly celebrates Milad-E-Mehfil and Swaraswati Puja to create social harmony.	Every Year	---
11.	The students of the college has to maintain a diary entitled "GREEN DIARY" where the records of compulsory sapling plantation and environmental activities performed during their study period in the college have to be recorded. A regular student has to plant at least three saplings in their homestead or any other public place and the work under this scheme is a partial fulfillment of their project work in environmental studies and evaluated for 10 marks assigned in their syllabus.	Every Year	All students
12.	To create health awarness the college run a certificate course on Yoga and Pranayama and also celebrate International Yoga Day on 21th of June every year.	21st June, 2018	
13.	Observance of Swachhtha Pakhekh by Students Union and NSS unit of the college aimng to achieve a clean and green environment.	1 to 15th August, 2017	All the college fraternity
14.	On the occasion of Nabajyoti Bhattacharyya Memorial Lecture series, invited speaker Dr. Anil Saikia (eminent folklorist of the state) deleivered a talk on "Assamese Folk-Culture in the Modern Milieu".	28th August, 2017	300
15.	In the process of Students Union General Election, the college authority create awarness among the gurdians of the candidates about democratic ethics and values. Different meetings are organized during election among gurdians, candidates and election committee to maintain friendly atmosphere.	Every Year	---
16.	The teachers of the college are involved in the school evaluation process (Gunatsav) of the state to promote quality of education at elementary and secondary level through identification of learning gaps and for designing of effective strateries and remedial measures.	2017-2018	---

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- **Details of increase in infrastructure facilities:**

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	7.02 Acre			7.02 Acre
Class rooms	42	04	RUSA	46
Laboratories	18	03	State Govt., UGC and College Fund	21
Seminar Halls	02	01	State Govt. and College Fund	03
Value of the equipment purchased during theyear (Rs. in Lakhs)	-	0.94030 Lakhs	UGC, DBT and College Fund	0.94030 Lakhs

- **Computerization of Administration and library**

Administration:

1) Online admission process.
2) Computerized salary bill preparation and online submission.
3) Computerized administration which include:
   - Office management system.
   - Automated feedback system

Library:

- Computerized library system with SOUL 2.0
- Use of bar code for Library circulation system.
- Bar coded Users' ID card.
- Use of an in-house developed software for maintaining the data of subscribednewspapers.

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- A separate library webpage facilitated with online feedback and online book acquisition form is being maintained.

- **Library Services:**

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	32226		556	2.20714 lakhs	32782	
Reference Books						
e-Books	Accessed under N-List					
Journals	24					
e-Journals	Accessed under N-List					
Digital Database	Partially available					
Others (specify) Manuscript and other archival items	72				72	

- **No. of faculty from the Institutionwho are Ph. D. Guides and students registered under them** — 04 / 04

- **Total Number of students:** 2569

- **No. of students outside the state** 03

- **The college has taken different initiatives and support mechanism for coaching for competitive examinations. The different initiatives have been mentioned below:**

In collaboration with two other colleges and IIT Guwahati, Undergraduate Students were given training for preparation to clear IIT JAM entrance test by the faculty members of IIT Guwahati on 17/09/2017.
A student of Chemistry Department of the college, Biswajit Kalita cleared IIT JAM examination, 2018 for admission to PG courses in IITs.
The "Centre for Social Science" of the college organized a talk on Civil Service Examination on 5th of May, 2018 for greater benefit of students towards preparation for these examinations.

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- **Details of campus placement:**

11 students of Food Processing and Quality Management Department got placement in various industries such as Akshaypatra Foundation, Spring Valley Bakery (Tezpur), Tulsi Specialty Foods, Maruti Quality Products Pvt. Ltd. etc.

- **Details of gender sensitization programmes**
  - **A glimpse of various activities on gender sanitization is summarized below:**

Two senior lady faculty members of the college attended a 3-Day Training Course on "Empowerment of Women", sponsored by Department of Personnel and Training (DoPT), Govt. of India from 18-20th December, 2017 held at Assam Administrative Staff College, Khanapara Guwahati – 781022. In the course the faculty members learnt about various women specific schemes of Govt., scheme for financial help for women, women harassment issues andremedies etc.
A three day Training of Trainers (ToT) program on gender equity was conducted from 7-9th January, 2018 by the college in collaboration with Rajiv Gandhi National Institute of Youth Development, Tamilnadu and Krishna Kanta Handiqui Open University, Assam. 40 participants of different spheres including teachers, NSS program officers of different universities, colleges and schools attended the program.
The women cell of Pub Kamrup College organized free health camp at Agdala Valika Prathamic Vidyalaya to celebrate the National Women's Day on 8th March, 2018. In the program, ayurvedic doctor Dr. Tripti Das delivered a lecture on "Health and Hygiene" among the students and villagers of Agdala area. Resource person Dr. Ranjit Sharma along with the faculties and students of Medical Laboratory Technician course of the college carried out free check up of diabetes, blood pressure and weight of around 100 women of the locality.

- **Details of student support mechanism for coaching for competitive examinations (If any):**
  No. of student's beneficiaries:

250

The Career Guidance and Counselling Cell of the college organize training and coaching programmes for the benefit of the students. In 2010 the cell organized- • Mathematical trick for IIT-JAM, Resource person-Akshay Kumar, Rakesh Kumar, IITG • One month programme on spoken English in collaboration with Pandu College, Guwahati

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- **Two Best Practices of the institution**

Students are made awareness about various scholarships and other academic information through public address system.
Environment friendly policy of the College.

- **Contribution to environmental awareness / protection**

The college celebrated state level World Environmental Day with two days program on 4-5th June, 2018, sponsored by Assam Science Technology and Environment Council (Govt. of Assam). The program helped in creating awareness towards environment.
The students and faculty members organized street play on the streets of nearby locality to create awareness about evil effects of plastics.
Two faculty members of the college have been trained in IIT Delhi under Unnat Bharat Abhiyan scheme by Ministry of Human Resource Development, Govt. of India. Under this scheme the college is planning to do works on sanitation, programs on Swachh Bharat Abhiyaan etc. involving school and college teachers of neighbourhood.
Plantation program at the adopted village of the college.
Workshop on vermicompost and construction of vermicompost bed at the adopted village on 16-22 December, 2017.
Environmental awareness activity among students through Green Diary.
Creating awareness by organizing UGC sponsored National seminar on "Harmony with nature in the context of Chemistry, Environmental issues and challenges" held on 11-12th Sept., 2017.

SWOT Analysis of the Institution:

Strength:

Involvement of undergraduate students in research.
The aspiring students of nearby locality give preference to take admission in Pub Kamrup College for higher studies.
Making students aware of different Govt. fellowships.
Online admission and cashless transaction in admission procedure.
Active involvement of students in co-scholastic activities.
User friendly library.

Weakness:

To meet up the norms of a quality teaching-learning process upholding the standard without requisite number of qualified faculty is a big problem.
Weak data collection and management system.

Opportunity:

Add-on and value based courses.
Collaborations with nearby institutes.
Increasing placement opportunity due to introduction of skilled based courses (B. Voc).

Threat:

Insularity
Delay in appointing both new teaching and non-teaching staff or fill up the vacant positions have been adversely affecting the normal functioning of the institution.

Dr. B.K. Dev Choudhury

Principal,

Pub Kamrup College

Principal
Pub Kamrup College
P.O. Baihata Chariali