

ANNUAL REPORT : DEPARTMENT OF ANTHROPOLOGY
GAUHATI UNIVERSITY (FOR THE PERIOD APRIL 2017 TO MARCH 2018)

1. a. Name of the Department : Anthropology
 b. Year of establishment : 1948
 2. Head of the Department : Prof. A. A. Ashraf
 3. Details of academic staff :

Sl. No.	Name of the teacher	Qualification	Specialization	Sex (Male/Female)	Caste(Gen/S C/ST/O BC/PH)	Carrier status (Professor/Associate Prof/Asstt. Professor)	Full/Part time/Contractual
1.	Dr. Rekha Das	M.Sc., Ph.D.	Physical Anthropology.	F	OBC	Professor	Full time
2.	Dr. M. Bhattacharyya Thakur			F	Gen	Professor	Full time
3.	Dr. A.A.Ashraf	M.Sc., Ph.D.	Prehistoric Anthropology	M	Gen	Professor	Full time
4.	Dr. Dwipen Bezbarua	M.Sc., Ph.D.	Prehistoric Anthropology	M	Gen	Professor	Full time
5.	Dr. G. Begum	M.Sc., Ph.D.	Physical Anthropology.	F	Gen	Associate Professor	Full time
6.	Dr. Chandana Sarma	M.Sc., Ph.D.	Physical Anthropology	F	Gen	Associate Professor	Full time
7.	Dr. Arifur Zaman	M.Sc., Ph.D.	Social Anthropology.	M	Gen	Associate Professor	Full time
8.	Dr. Robinson Senar	M.Sc. Ph.D.	Prehistoric Anthropology	M	ST(P)	Asstt. Professor	Full time
9.	Ms. Humi Thaosen	M.Sc.,	Social Anthropology.	F	ST(H)	Asstt. Professor	Full Time
10.	Dr. Smita Devi Bora	M.Sc., Ph.D.	Prehistoric Anthropology	F	OBC	Asstt. Professor	Full Time
11.	Dr. Shangpam Kashung	M.Sc., Ph.D.	Social Anthropology	F	Gen	Asstt. Professor	Part Time
12.	Dr.. Dhanmani Medhi	M.Sc. Ph.D..	Physical Anthropology	F	OBC	Asstt. Professor	Part Time
13.	Mr. Jyotishman Taye	M.Sc.	Social Anthropology.	M	ST(P)	Asstt. Professor	Part Time

4. Course offered:- M.A./M.Sc., Ph.D.

5. Special Branches in the Department/Centre : (1) Physical Anthropology (2) Social Anthropology (3) Prehistoric Anthropology

6. New Academic Programme initiated during the period under report :

7. Innovation in Curricular design :

8. Inter disciplinary Programme started:

9. Department/Centre under: SAP/COSIST(ASSIST)/DST/FIST: SAP DRS-I (2017-18)

10. Total number of Research Scholar working at present:

a) Full time - 4	b) Part time = 42
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11. Enrolment of students in various courses (April 2017-March 2018)

Courses	Sem	Intake Capacity	No. admitted			S.C.			S.T.(P)			S.T.(H)			OBC/MO BC			P.H.		
			M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Post-Graduate	1 st	26	5	21	26	0	1	1	1	3	4	2	1	3	1	8	9	0	0	0
	2 nd	26	5	21	26	0	1	1	1	3	4	2	1	3	1	8	9	0	0	0
	3 rd	24	7	17	24	1	3	4	1	4	5	0	1	1	2	4	6	0	0	0
	4 th	24	7	17	24	1	3	4	1	4	5	0	1	1	2	4	6	0	0	0

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M. Phil																				
Ph.D.			1	2	3	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0
Others																				

12. Teacher Student and Teacher-Non-teaching staff Ratio :

No. of teacher	No. of student	No. of Non-teaching staff
13	50	11
Teacher/Student Ratio		Teacher-Non-teaching Staff Ratio
1 : 3.85		1 : .85

13. Final Examination result during the session 2017- 2018

(a) No. appeared

Subject	Total Appeared			S.C.			S.T.(P)			S.T.(H)			O.B.C./M.O.B.C.			P.H.			Foreign Student		
Anthropology	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
	3	23	26	0	2	2	1	4	5	0	0	0	1	9	10	0	0	0	0	0	0

(b) No. Passed

Subject	Total Passed			S.C.			S.T.(P)			S.T.(H)			O.B.C./M.O.B.C.			P.H.			Foreign Student		
Anthropology	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
	3	22	25	0	2	2	1	4	5	0	0	0	1	9	10	0	0	0	0	0	0

14. Details of Ph. D. awarded (2017-18):

Name of the Ph.D. scholars	Title of Ph.D. Thesis	Guide
Meyajungla Longchar	Women Entrepreneurship: The Case of the Ao Women in Dimapur, Nagaland.	Dr. Upala Baruah
Likhan Chandra Doley	Impact of Flood on the Mishings of Dhemaji District, Assam: An Anthropological Study.	Dr. Upala Baruah
Moushumi Das	An Ethnographic Study of the Potters of Salmara, Majuli and its Archaeological Perspective.	Prof. A.A. Ashraf
Pahari Gogoi	Morbidity and Mortality among the under five children of the Bodos, Garos and Caste population in the Rani area of Kamrup District, Assam.	Prof. Bapukan Choudhury
Luna Goswami	Assamese Hindu Family Structure and Kinship Network in Rural and Urban Contexts in Kamrup District, Assam	Dr. Upala Baruah
Nabanita Medhi	An Assessment on Education among the Youths in the Urban Slums of Guwahati City, Assam.	Prof. Mini Bhattacharyya Thakur
Ranjan Kumar Bhatta	Cultural Traditions of the Nepalese of Assam.	Prof. Dilip K. Medhi
Smita Devi Bora	Geocultural Context of the Prehistoric Sites of West Garo Hills, Meghalaya.	Prof. Dwipen Bezbaruah
Hemanta Sharma	An Anthropological Study of the Alcoholics in Guwahati.	Prof. Birinchi K. Medhi
Madhurya Chetia	Socio Economic Features of Tea Community in sibsagar Sub-division of Assam.	Dr. Tiluttoma Baruah
Dhani Ram Baro	Patterns of Morbidity among the Bodos and the Rabhas of Goalpara District, Assam.	Prof. Rekha Das
Mitali Rabha	Festivals of the Rabhas in Goalpara District of Assam: Continuity and Change.	Prof. Mini Bhattacharyya Thakur
Humen Chutia	An Anthropogenetic Study among the Deoris of Bordoloni Development Block, Dhemaji District, Assam.	Dr. Tiluttoma Baruah
Nancy C. Malsawmtluangi	Understanding the Socio-cultural Heritage of the Kuki in Assam in the light of Christianity: An Anthropological Approach.	Prof. Mini Bhattacharyya Thakur
Suryatapa Nath	Marriage and Family: Change and Contunity among the Meities of Cachar District, Assam.	Dr. Chandana Sarma, CU
Sabita Devi	A Study of the Problems of Intellectually Disabled Persons and the Available Resources for their Empowerment in Assam: A Case Study of Guwahati, Assam	Dr. Upala Baruah

15. Number of students qualified in

NET (JRF)	NET	SLET	GATE	Any others
1	3	2		

16. Important students' activities and achievement and awards during the period (Please state briefly)

17. Seminar/Summer School/Workshop conducted during the year 2017-18

Sl.No.	Name of the Co-coordinator	Name of the Seminar/Summer School//Workshop/Refresher Course	Date	Sponsorship
1.	Prof. A.A.Ashraf	Changing Facets of Human Biology and Culture : Prospects for Development"	21-23 Feb,2018	Dept. of Anthropology, G.U. and INCAA
2.				

18. Honours/Award/ Fellowship(with National/International reput) earned by the faculty members (2017-18)

Name of the Faculty	Name of the Award/Fellowship	Conferring agency

19. Visit abroad by the Faculty members (2017-18)

Name of the Faculty	Institute visited	Purpose	Period

20. Sponsored Research Project (2017-18)

Name of the Principal Investigator	Title of the Project	Funding Agency	Duration	Amount (Rs.)
Dr. Dwipen Bezbaruah	Multidisciplinary Studies on Rock Art and Allied subject in N.E. India	Indira Gandhi National Centre for the ARTS,IGNCA, New Delhi	5 years	2 Lakhs (for fifth phase)
Prof. Mini Bhattacharyya	SAP DRS-I	UGC	5 Yrs	87 Lakhs
Dr. Gulrukh Begum	Impact of consanguinity on health: A study in Barpeta district, Assam	ICSSR		
Ms. Humi Thaosen	Traditional Bamboo and Cane Craft Among the Plain and Hill Tiwas of Assam	UGC-SAP		

21. Academic distinction earned by the students during 2017-18

Sl.No.	Name of Examination/Programme	Name of the student	Position held
1.	MA/M.Sc. 4 th Semester, 2017	Sri John Basumatary	First class first Honoured by Manju Rani Goswami Barkataki Gold Medal and Mallika Mahanta Memorial award

22. Distinguish Visitors to the Department during the year 2017-2018

Name of the visitors	Address & Designation	Purpose of visit
1. Prof. Ajit Prasad	Professor of M.S. University, Baroda.	Deliver a lecture on the topic "Indus Valley Civilization" on 17/5/17
2. Dr. S. B. Ota	Joint Director, A. S. I.	Deliver a lecture on the topic :Site Formation Process" on 22/11/17

23. Increase in infrastructural facilities in the Department/Centre during the period 2017-18

24. Provisions for (a) Computer access (b) internet access and (c) training to teachers, non-teaching staff and students of the Department/Centre: Yes

25. Technology up gradation in the Department/Centre during the period 2017-18

26. Linkages developed with National/International/Academic/Research Bodies:

27. Academic activities of Faculty members during the period of report (2017-18)

a) Seminar/Workshops attended/presented paper by the faculty during the period:

Name of the faculty	No. of Seminar	No. of Workshop
1.Prof. A. A. Ashraf	2	
2. Prof. D. Bezbaruah	3	
2. Dr. Gulrukh Begum	7	
3. Dr. Chandana Sarmah	2	
4.Dr. Arifur Zaman	2	1
5. Dr. Smita Devi Bora	3	
6. Ms. Humi Thaosen	3	

b) Name of the teacher(s) acted as resource person(s) during the period (state briefly)

1. Prof. A. A. Ashraf Regularly acted as Resource person since 2017 for each and every orientation course batches of H.R.D.C, G.U.
2. Prof. D. Bezbaruah Resource person in the Refresher Course of H.R.D.C, G.U.
3. Dr. Gulrukh Begum (a) **Resource person** in the UGC sponsored National Seminar, **Women in North East India: Issues and Challenges**
(b) **Chaired** a session "Aspects of Demography" in **Indian Anthropology Congress- 2018 (Changing Facets of Human Biology and Culture: Prospects for Development)**
4. Dr. Chandana Sarmah (a). Invited Lecture: Society's Responsibility towards Elderly
National CME on Geriatric Care and Social Responsibility
Organised by IJHRMLP Academic Group 27th January 2018
Gauhati Medical College Auditorium Complex
(b) Refresher Course in Nano Science and Nano Technology
UGC-Human Resource Development Centre, Gauhati University
5. Dr. Smita Devi Bora (a) Resource person on 3rd Dimasa Youth Festival on topic "workshop on Stone Craft"
6. Ms. Humi Thaosen
(a). Invited as a speaker on the theme 'Women Empowerment',
during the 46th General Conference of Dimasa Students' Union
held from 26th to 28th December, 2017, at Kalachand, Dima Hasao, Assam.
(b). Conducted an Open Discussion as a moderator on 'Role of Daikho System in the Socio-Religious Life of the Dimasas', held during the 3rd Dimasa youth Festival, at Dhansiri, Karbi Anglong, Assam, on 12th and 13th January, 2018, organized by Dimasa Youth Forum.
(c). Invited as a Chief Guest / Speaker at the Felicitation Programme of successful students of HSLC, HSSLC & Degree Examination, 2018, organised by Dimasa Students' Union, Nagaland, with the theme, 'The Higher The Obstacles, The Higher We Get To Rise', held on the 14th of July, 2018, at DBIL Hall, Don Bosco Higher Secondary School Campus, Duncan Basti, Dimapur, Nagaland.

c) Refresher Course/Orientation Course attended by the teachers during the period:

Name of the faculty	Refresher Course	Orientation Course
Prof. A. A. Ashraf		8

d) Details of paper published in the Referred journals during the period :

Name of the faculty	Title of the paper	Name of the journal with Vol. No. & Date
Prof. A. A. Ashraf	Reg. Discovery of Salver (Rice Cake)	Highlighted News in the front page of Assam Tribune, 15 th May 2018 (This is the earliest date (3226 years) of origin of (pitha-pana) in Assam)
Prof. D. Bezbaruah	(a) Anthropomorphic and Non-anthropomorphic shrines in the monuments of Greater Guwahati, Assam. (b) Ethnographic attributes & archaeological correlates : an investigation among the Garos	The Oriental Anthropologist, Vol. 17. No.1 Journal of Humanities & Social Science, Vol.22 Issue 9, 2007

	of West Garo Hills, Meghalaya	
Dr. Gulrukh Begum	<p>(a) Nutritional status of the preschool Sonowal Kachari children of Lakhimpur district, Assam (2017) : 151-163</p> <p>(b) Association between Body Mass Index, Blood Pressure and Age: A Study among Ahoms of North Lakhimpur, Assam. In:)</p> <p>(c) Regional Variation in Body Dimensions of the Deoris of Assam and Arunachal Pradesh (2017)</p> <p>(d) Patterns of Growth and Menarcheal Age among the Adolescent Tea Garden Worker Girls of Dibrugarh District, Assam (2017) .</p> <p>(e) Status of nutrition among the Karbi girls of Kamrup district, Assam. (2017) .</p>	<p>(a) Cultural heritage of Assam, (ed) SKChaudhuri and MBThakur, Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal (2017)</p> <p>(b) Anthropology in North East India, (ed) Sarthak Sengupta, Gyan Publishing House (2018)</p> <p>(c) Human Biology Review, 6(2): 130-140</p> <p>(d) Human Biology Review, 6(4): 403-420</p> <p>(e) Bulletin of the Dept of Anthropology, Gauhati University, XVII</p>
Dr. Arifur Zaman	<p>(a) Dimensions of Child Care Practice: the Case of the Deoris of Assam, (jt)</p> <p>(b) Significance of Bamboo among the Tai Ahoms in Rural Situations of Assam(jt),</p> <p>(c) Position of women and their role in income generating activities among the Misings of Upper Assam(jt.),</p>	<p>(a) Indian Journal of Research in Anthropology, Volume 3 Number 2, July - December 2017, (pISSN : 2454-9118, eISSN: 2455-829X)</p> <p>(b) Periodic Research, VOL. -6, ISSUE-2, November - 2017 ISSN No. 2231-0045 RNI No. UPBIL/2012/55438 E: ISSN No. 2349-9435</p> <p>(c) Voice of Intellectual Man- An International Journal, 2017, Volume-7, Issue-2, Print ISSN: 2231-6914 Online ISSN:2319- 4308, Article DOI: 10.5958/2319-4308.2017.00019.6.</p>
Dr. Smita Devi Bora	Ethnographic Attributes and Archaeological Correlates	IOSR -JHSS

e) Paper published in other journals during the period (only those considered for API Score)

Name of the faculty	Title of the paper	Name of the journal with Vol. No. & Date
Ms. Humi Thaosen	1. Papers : Studies on Dimasa History, Language and Culture, ISBN 978-93-85839-08-5, Monali Longmailai (ed.),	'Semkhor Daikho : Outlining the Sacred Groves of Semkhor', 2017, Volume 1, DYF Selected DVS Publishers, Guwahati, pp.145-157.

f) Details of book published during the period

Name of the faculty	Title of the Book(s)	Date of publications
1. Prof. D. Bexbatruah	Edited :	

<p>2. Dr. Gulrukh Begum</p> <p>3. Dr. Chandana Sarmah</p> <p>Dr. Arifur Zaman</p>	<p>Cultural Ecology : Prehistory & Ethno-archaeology/Context of Indian Rock Art with Emphasis on NE States (Eds. Book). Publisher, IGNCA, New Delhi</p> <p>Edited : Bulletin of the Department of Anthropology, G.U.</p> <p>1. Socio Economic Condition and Social Support Among the Ageing Tiwas of Assam in Elderly Care in India, Societal and State Responses, Ed. S. I. Rajan and G. Balagopal, Springer Nature, Singapore Pte. Ltd. ISBN: 978-981-10-3438-1 Year – 2017 (pp 117-132)</p> <p>Authors- Chandana Sarmah and Barnali Das</p> <p>2. Nutritional Status and Blood Pressure among the Ageing Tiwas of Morigaon District of Assam in People of North East India: Biocultural Dimensions, Ed. R. Khongsdier and S. Sengupta, Kalpaz Publication, Delhi, ISBN: 978-93-5128-238-9 Year 2017 (pp109-122)</p> <p>Authors- Barnali Das and Chandana Sarmah</p> <p>3. Elderly Health Care: Needs and Strategies for Services in Anthropology in North East India, Ed. Sarthak Sengupta, Gyan Publishing House, New Delhi</p> <p>ISBN: 978-812-12-1424-7 (HB) Year - 2018</p> <p>Author- Chandana Sarmah</p> <p>Spectrum of Vaishnavite Mask in the Majuli Island of Assam”, 2018, in <i>Anthropology in North East India</i>. S. Sengupta(Ed), Gyan Publishing House, New Delhi: 137-145. ISBN: 97881 21214247.</p>	<p>2018</p>
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28. a) Placement record during the period (please state briefly)
b) Placement services provided during the period (Please state briefly)
29. Is there any student Counseling Unit in the Department/Centre? If yes state activities during the period under report.
30. placement services provided to students by the Department/Centre, if any:
31. Departmental Library:

a)	No. of Books as on 31.03.2016	1542
b)	New Books procured during the period	127
c)	No. of Journals as on 31.03. 2016	123
d)	New Journals procured during the period	
e)	No. of users during the period:	195 nos.

32. Departmental publications: Departmental Bulletin
 33. Details of Patents generated, if any:
 34. Citation index of faculty members and impact factor:
 35. Activities and support from the Alumni Association of the Department/Centre:
 : Gold medal from Alumni, monetary award.
 36. Activities and support from the Parent-Teacher Association if any:
 37. Involvement in Community services:
 38. Provision for financial aid to students in the Department/Centre, if any:
 39. Provision for student assessment of teachers. If such provisions exist, the courses in which student assessment is obtain and action taken on this feedback may please be stated.
 : Students assessment was done for 2nd and 4th semester students (but feedback not yet received)
 40. Information on up to five Good Practices followed by the Department/Centre:
 41. Details the plans of the Department/Centre/Institute for the next year:

Head of the Dept. of Anthropology

**ANNUAL REPORT : DEPARTMENT OF BOTANY
GAUHATI UNIVERSITY (FOR THE PERIOD APRIL 2017 TO MARCH 2018)**

1. a. Name of the Department :Botany
 b. Year of establishment : 1948
 2. Head of the Department : Prof. Nilakshee Devi
 3. Details of academic staff :

Sl. No.	Name of the teacher	Designation (Professor/Associate Prof./Asst. Professor)	Full Time/ Contractual	Sex (Male/ Female)	Caste (Gen/ SC/ ST/OBC /DA)	Citation index (H Index Google Scholar)
1.	Prof. S. K. Borthakur	Professor	Full Time	Male	General	16
2.	Prof. D. K. Jha	Professor	Full Time	Male	General	10
3.	Prof. P. P. Baruah	Professor	Full Time	Male	General	6
4.	Prof. N. Devi	Professor	Full Time	Female	General	3
5.	Prof. B. Tanti	Professor	Full Time	Male	OBC	9
6.	Dr. K. Tayung	Professor	Full Time	Male	ST	10
7.	Dr. N. Nath	Associate Professor	Full Time	Female	OBC	2
8.	Dr. D. Narzary	Associate Professor	Full Time	Male	ST	7
9.	Dr. H. Deka	Assistant professor	Full Time	Male	General	5
10.	Dr. N. Agarwala	Assistant professor	Full Time	Male	General	4
11.	Dr. N. Bhattacharyya	Assistant Professor	Full Time	Female	General	1
12.	Dr. A. Ghosh	Assistant professor	Contractual	Male	General	7
13.	Mr. J. Rabaha	Assistant professor	Contractual	Male	ST	0
14.	Mr. Tridip Phukan	Assistant Professor	Contractual	Male	OBC	NA

4. Course(s)/Programme offered: M Sc in Botany, M Sc Microbiology, M Phil, Ph D
 5. Special Branches in the Department/Centre :i) Angiosperm Taxonomy
 ii) Cytology, Genetics and Plant breeding
 iii) Microbiology

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- iv) Plant ecology
- v) Mycology and Plant Pathology
- vi) Plant Physiology and Biochemistry

6. New Academic Programme initiated during the period under report: Nil
7. Innovation in Curricular design: Nil
8. Inter disciplinary Programme started: Nil
9. Department/Centre under: SAP/COSSIST (ASSIST)/DST/FIST: SAP
10. Total number of Research Scholar working at present:

a) Full Time: 60	b) Part time: 00
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11. Enrolment of Students in various courses (April 2017- March 2018):

Courses	Sem	Intake Capacity	No. Admitted			S.C.			S.T(P)			S.T.(H)			OBC/MOBC		
			M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
M.Sc. Botany	1	40	11	29	40	03	03	06	01	04	05	00	01	01	04	09	13
	2	40	07	33	40	00	04	04	03	02	05	00	02	02	04	11	15
	3	40	11	29	40	03	03	06	01	04	05	00	01	01	04	09	13
	4	40	07	33	40	00	04	04	03	02	05	00	02	02	04	11	15
M.Sc. Microbiology	1	10	01	09	10	00	01	01	01	01	02	00	00	00	00	02	02
	2	10	01	09	10	00	02	02	00	01	01	00	01	01	01	01	02
	3	10	01	09	10	00	01	01	01	01	02	00	00	00	00	02	02
	4	10	01	09	10	00	02	02	00	01	01	00	01	01	01	01	02
M.Phil.		20	05	08	13	00	01	01	00	00	00	00	00	00	03	04	07
Ph.D.	-	-	02	07	09	00	00	00	00	00	00	00	01	01	00	01	01
Others	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-

12. Teacher-Student and Teacher- Non-teaching staff Ratio:

No. of Teacher	No. of student	No. of Non-teaching staff
14	100	12
Teacher/Student Ratio		Teacher-Non-teaching Staff Ratio
1:7		1:0.85

13. Final Examination result during the session 2017-18:

(a) No. Appeared

Subject	Total Appeared			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			Differently abled		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
M.Sc. Botany	08	32	40	00	03	03	02	02	04	0	01	01	04	10	14	-	-	-
M.Sc. Microbiology	01	09	10	00	02	02	00	02	02	-	-	-	01	01	02	-	-	-

(b) No. Passed

Subject	Total Passed			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			Differently abled		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
M.Sc. Botany	08	32	40	00	03	03	02	02	04	0	01	01	04	10	14	-	-	-
M.Sc. Microbiology	01	09	10	00	02	02	00	02	02	-	-	-	01	01	02	-	-	-

14. Details of Ph.D. awarded (1st April 2017- 31st March 2018):

Name of the Ph.D. Scholars	Title of the Ph.D. thesis	Guide
Kangkan Pagag	Studies on macrophytic diversity of wetlands of Lakhimpur District, Assam	Prof. S. K. Borthakur

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Sanjeev Kumar	Development of transgenic cowpea for virus resistance through RNA interference (RNAi)	Prof. B. Tanti
Anaru Boro	Floristic study of Udalguri District, Assam	Dr. G.C. Sarma
Shamsun Nahar	Studies on drought induced oxidative stress and response of antioxidant metabolism in some traditional rice varieties of Assam	Prof. B. Tanti
Ranjita Tamuli Talukdar	Systematic study on Aroids of Kamrup District, Assam	Prof. N. Devi
Daimalu Baro	Studies on macrophytic diversity of Baksa District (BTAD), Assam	Prof. S. K. Borthakur

15. Number of students qualified in:

NET(JRF)	NET	SLET	GATE	Any others
01	03	12	04	NA

16. Important students' activities and achievements and awards during the period (Please state briefly):

Departmental activity: i) 2nd prize in drama competition in the varsity week 2017-18

ii) 2nd prize in folk dance competition in the varsity week 2017-18

iii) 2nd Prize in wall magazine competition in the varsity week 2017-18

Individual Activity:

NAME: BIJIT DAS

CLASS: M.Sc 4th Semester

1. First prize in quiz competition in the varsity week 2017-18

NAME: PARAMITA CHAKRAVORTY

CLASS: M.Sc 4th Semester

1. Second prize in wall magazine article writing competition in the varsity week 2017-18

2. Judges special prize in youth parliament competition in the varsity week 2017-18

NAME: MUNNI BORA

CLASS: M.Sc 4th Semester

1. 3rd prize in wall magazine poem writing competition in varsity week 2017-18

NAME: NABASMITA MALAKAR

CLASS: M.Sc 4th Semester

1. 2nd best actress in drama competition in varsity week 2017-18

NAME: TRIDIP BORUAH

CLASS: M.Sc 4th Semester

1. 2nd prize in news writing competition in varsity week 2017-18

NAME: KASTURI TALUKDAR

CLASS: M.Sc 2nd semester

1. Best team at 20th Nanda Talukdar Memorial North East Inter College, University Debate Competition 2017 organised by Pandu College.

2. Late Rambahadur Bhattacharya Memorial All Assam Inter Institutional Debate Competition 2018
2nd best team.

3. All Assam state level debate competition by Socio Cultural Science Society, Fatashil Ambari, 2018, 3rd best debater.

4. Gauhati University, Varsity week 2018

2nd prize in youth parliament

3rd prize in debate

3rd prize in elocution

3rd best in drama

3rd best co-actress

5. Youth festival, 2018

3RD prize in elocution

3rd best in drama

NAME: PALLAVI SHARMA

CLASS: M.Sc 2nd semester

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1. Noonmati Bihu Sanmilen lokgeet competition 2018 - 3rd prize
2. Itabhata ,Fatashil Dhirenpara district level singing competition ,2018
Bhupendra sangeet -1st prize
Bishnu Prasad Rabha sangeet -2nd prize
Jyoti sangeet – 2nd prize
3. Varsity week ,2018
Sketch-1st prize

NAME: AMLAN ROY

CLASS: M.Sc 2nd semester

1. Varsity week,2018

Cartooning -1st prize

NAME: RAHUL MALAKAR

CLASS: M.Sc 3rd semester

1. Letters to the editor competition -1st prize
2. Love letter writing competition -2nd prize
3. Limaric competition- 2nd prize

17. Seminar/Summer School/Workshop conducted during the period 2017-18: 01

Sl.No.	Name of the Convenors	Name of the Seminar/Summer School/ Workshop/ Refresher Course	Date	Sponsorship
1	Dr. Hemen Deka Dr. Niraj Agarwala	Alumni Meet and National Seminar on “Prospects and Challenges of Plant Science Research in India”	25-26 November 2017	NA

- 18.Honours/Awards/Fellowship (with National/International repute) earned by the Faculty members (2017-18) :

Name of the Faculty	Name of the Award/Fellowship	Conferring agency
Dr Diganta Narzary	DBT Overseas Research Associateship	DBT, Govt. of India
Dr Hemen Deka	UGC Start-Up Grant	UGC, Govt. of India
	Summer Research Fellowship	Indian National Academy of Sciences
Dr Niraj Agarwala	Early Career Research Award	SERB, DST, Govt. of India
	UGC Start-Up Grant	UGC, Govt. of India

19. Visit abroad by the Faculty members (2017-18) : Dr Diganta Narzary still in Japan under DBT-Over Seas Fellowship Programme

- 20 (a) Sponsored Research Project (2017-18):

Name of the Principal Investigator	Title of the Project	Funding Agency	Duration	Amount(Rs.)
Prof. Nilakshee Devi	Screening, Biochemical evaluation and Toxicity study of some wild edible Mushrooms of Assam	ASTEC, Govt. of Assam	2years	8.3 lakh
Prof. Partha Pratim Baruah	All India co-ordinated Project Taxonomy on “Assessing phytoplankton diversity in different fresh water habitats of Assam, Tripura and Arunachal Pradesh”	MoEF &CC, Govt. of India	2018-2021	22 Lakhs
Prof. Bhaben Tanti	1.Collection, evaluation documentation and conservation of banana genetic resources of NE region.	DBT, Govt. of India	3Yr (2018-2021)	37.98 lakh
	2. Whitefly(<i>Bemisia tabaci</i>) in North Eastern India: Diversity, Factors of virus transmission and natural inhibitor	DBT, Govt. of India	3Yr (2018-2021)	42 lakh
Dr. Kumananda Tayung	Exploration of endophytic microorganisms from selected indigenous rice landraces of North-East India and their applications	DBT, Govt. of India	3 years	70 lakhs

	for improvement of growth and yield of traditional rice varieties			
Dr. Diganta Narzary	Meta-genomic and transcriptomic studies on <i>Termitomyces</i> growing fungal combs of termites found in Assam for bioprospection	DBT, Govt. of India	3 Yrs	Total: 1,13,67,000/- for all the three collaborating instructions GU Share: 68,22,000/-
	Microbial and Biochemical study on traditionally fermented fish food 'Napham' of Assam for Value Addition	DST, Govt. of India	2 Yrs	11,72,940/-
Dr. Hemen Deka	Plant-microbe consortia for remediation of Polycyclic Aromatic Hydrocarbons (PAHs) contaminated soils of Assam and influence of biogenic nanomaterials on PAHs fate and accumulation	UGC, Govt. of India	2 Yrs	10 lakh
Dr. Niraj Agarwala	Deciphering miRNA-mRNA modules associated with Darjeeling tea quality	SERB,DST,Govt of India	3 years	43.73 lakhs
	Assessment of culturable endophytes from indigenous capsicum varieties of Assam for their utilization for effective control of bacterial wilt <i>pathogen Ralstoniasolanacearum</i>	UGC,Govt of India	2 years	10 lakhs
	Harnessing endophytes from wild tea germplasms for developing microbial bioformulation aimed at sustainable organic tea production	Gauhati University	3 years	1.5 lakhs
Dr. Nabanita Bhattacharyya	Investigation on air pollution tolerance index of some plants growing along NH 37, Guwahati	Gauhati University	3 years	1.5 Lakhs

(b) Patent Generated: Nil

Sl No.	Name of the Faculty	Patent Generated	Remarks
NA	NA	NA	NA

21. Academic distinction earned by the students during (2017-18):

Sl.No.	Name of Examination/Programme	Name of the student	Position held
2	M Sc (Microbiology)	Mandira Choudhury	1 st Class 1 st

22. Distinguish visitors to the Department during the period 2017-18:

Name of visitors	Address & Designation	Purpose of visit
Prof. D. K. Hore	Plant Consultant, IASST, Guwahati, Assam & Former Scientist, NBPGR, Shillong	Academic Interaction
Prof. A M Deshmuk	Former Professor, Department of Microbiology, DR. B R Ambedkar Marathwada University, Augangabad, Maharashtra	Academic Interaction
Prof. Toshiki Osada	Emeritus Professor, Tokyo University, Japan	Academic Interaction
Dr. Chiskil Vander	Skilesbosch University	Academic Interaction

23. Creation /Increase in infrastructural facilities in the Department/Centre during the period 2017-18:
- Upgradation of tissue culture and plant pathology laboratory
 - Installation of Plant Growth Chamber & central water distillation unit
 - Upgradation of ecology and environmental botany laboratory
24. Provisions for (a) computer access (b) internet access and (c) training to teachers, non-teaching staff and students of the Department/Centre: Computer and Internet access facility are available in the department
25. Technology up gradation in the Department/Centre during the period 2016-17 : Nil
26. Linkages developed with National/International/Academic/Research Bodies:
- i) University of Naples, Italy
 - ii) Acharya N. G. Ranga Agricultural University (ANGRAU), Tirupati, India
 - iii) Advance center for Plant Virology, IARI, Delhi, India
 - iv) TERRI, School of Advance Studies, New Delhi, India
 - v) East Himalayan Society for Spermatophyte Taxonomy
27. Academic activities of Faculty members during the period of report (2017-18):
- a) Seminar/Conferences/ Workshops attended/presented paper by the faculty during the period:

Name of the faculty(s)	No. of Seminar	No. of Workshops
Prof. S K Borthakur	Nil	Nil
Prof. D K Jha	02	Nil
Prof. P P Baruah	04	02
Prof. N Devi	Nil	Nil
Prof. B Tanti	4	Nil
Prof. K Tayung	04	Nil
Dr. N Nath	01	01
Dr. D Narzary	02	02
Dr. H Deka	02	Nil
Dr. N Agarwala	01	01
Dr. N Bhattacharyya	03	02
Dr. A Gosh	02	02
Mr.J Rabha	02	Nil
Mr. Tridip Phukan	NA	NA

- b) Name of the teacher(s) acted as resource person(s) during the period (state briefly):

Prof S K Borthakur

- Resource person at Academic Staff College, Gauhati University in both Refresher and Orientation Programme

Prof. P.P. Baruah

- Delivered four lectures in Refreshers Courses as resource persons organized by HRDC-GU

Prof. N. Devi

- Acted as resource person in College delivered lecture as a part of Annual lecture

Prof. Bhaben Tanti

- Acted as a resource person and delivered four lectures in different events.
- Visiting Professor, Department of Botany, USTM, Meghalaya.

Prof. K Tayung

- Acted as Resource Person at Department of Botany, University of Science & Technology of Meghalaya

Dr. Diganta Narzary

- Member Secretary, Institutional Ethics Committee, G.U. on Human Research
- Member, Assam Biodiversity Strategy and Action Plan
- Member, Report Drafting Committee, G.U. NAAC Preparation (Criteria VI)
- Member, Environment/Green Audit Committee, G.U.
- Member, IPR Cell, G.U.
- Co-Coordinator, Institutional Biotech Hub, G.U

Dr. Hemen Deka

- Invited as a resource person and delivered a Talk on “Vermitechnology in recycling of bio-waste” among the Intern students at Assam State Biodiversity Board on 4th September 2017 in connection with the Internship Programme on Biodiversity Conservation.
- Invited as a resource person and delivered a lecture on “ Vermicomposting: Theory & Practice” in a refresher training course for Forester-I and Deputy Ranger at Assam Forest School, Jalukbari, Assam on 13th December 2017.
- Delivered an Invited Talk on “ Recycling of agro-industrial waste biomass by vermicomposting” and Chair the Session on “Textiles Recycling” in the “Fourth International Conference on Reuse and Recycling of Materials (ICRM-2018)” jointly organized by Mahatma Gandhi University, Kottayam, Kerala, India and Wroclaw University of Technology, Wroclaw, Poland on 9-11 March 2018 at Mahatma Gandhi University, Kottayam, Kerala, India.

Dr. Niraj Agarwala

- Served as a Resource person at Hands on training programme organized by Advanced level Biotech Hub, DakshinKamrup College, Mirza held on 22-24 september,2019 on the topic “Advanced Tools and techniques of Bioinformatics and Biological Sciences”.
- Served as a Resource person at workshop on Basic Molecular Biology and Biotechnology held at RangiaCollege on 30th October to 1st November,2017 organized by Institutional Biotech Hub,Rangia College

Dr. Arabinda Gosh

- Presented a talk on “Bioinformatics: Basics and application” as a resource person in a seven days work shop “Prospecting traditional and herbal therapy to modern drug delivery” organized by institutional biotech hub (IBH-GU), department of biotechnology and Guwahati biotech park, 22-28 May, 2017

c) Refresher Course/ Orientation Course attended by the teachers during the period:

Name of the faculty	Refresher Course	Orientation Course
Prof. S K Borthakur	...	-
Prof. P P Baruah	-	--
Dr Hemen Deka	01	--
Dr Niraj Agarwala	01	--

d) Details of paper published in the Referred journals during the period:

Name of the faculty	Title of the paper	Name of the journal with Vol. No. & Date
Prof. S K Borthakur	1. Contributions of plant taxonomy, herbarium and field germplasm bank to conservation of threatened plants: case studies from the Himalayas and Eastern and Western Ghats.	<i>Current Science</i> , 114(3): 512.
	2. <i>Smilax sailenii</i> (Smilacaceae) - a new species from Assam, North East India.	Taiwania, 63(1): 32.
	3. Habitat distribution modelling for improving conservation status of <i>Brucea mollis</i> Wall. ex Kurz.—An endangered potential medicinal plant of Northeast India.	Journal for Nature Conservation, 43: 104.
	4. Habitat mapping, population size and preventing extinction through improving the conservation status of <i>Calamus nambariensis</i> Becc. - an endemic and threatened cane of Assam, India,	Acta Ecologica Sinica DOI:10.1016/j.chnaes.2018.03.005
	5. Habitat distribution modelling and reinforcement of <i>Elaeocarpus serratus</i> L. - A threatened tree species of Assam, India for improvement of its conservation status.	Acta Ecologica Sinica https://doi.org/10.1016/j.chnaes.2018.06.002
	6. Lectotypification of <i>Calamus nambariensis</i> Becc. (Arecaceae)	Nordic Journal of Botany, https://doi.org/10.1111/njb.01953
	7. Contribution to Biodiversity Hotspot: Assessment of Forest Types, Floristic Composition and Economic wealth of Nokrek Biosphere Reserve in Northeast India.	Indian Forester, 144(8):734-741

Prof. D K Jha	<p>1. Antimicrobial Activity of Endophytic Fungi from Leaves and Barks of <i>Litsea cubeba</i> Pers., a Traditionally Important Medicinal Plant of North East India.</p> <p>2. Tea root brown rot fungus disease reduction and yield recovery with rhizobacteria inoculation in both nursery and field trials.</p>	<p>Jordan Journal of Biological Sciences 11(1):73-79</p> <p><i>Rhizosphere</i> 6: 89-97</p>
Prof. P P Baruah	1. Biomass accumulation and carbon sequestration in Perseabombycina plantation in Assam, India	International Journal of Environmental Biology. 7 : (1): 16 - 21. 2017
Prof. N Devi	<p>1. Studies on foliar micro-morphology and pollen morphology of some members of Solanaceae from the Jalukbari area of Guwahati in Assam, India</p> <p>2. Calystegia hederacea Wall. (Convolvulaceae): new report of occurrence in Assam (India)</p>	<p>Pleione 11(1): 125 - 136.</p> <p>Pleione 11(1): 163 - 166. 2017.</p>
Prof. B Tanti	<p>1. Cytotoxic effect of naphthalene on root meristem of Allium cepa L.</p> <p>2. Assessment of few unexplored RET plant wealth of Assam, India</p> <p>3. In vitro regeneration of plantlets from nodal explants of Aristolochiasaccata and Aristolochiacathartii</p> <p>4. Analysis of genetic diversity of certain species of Aristolochia using ISSR-based molecular markers</p> <p>5. Freshwater Diatoms from DeeporBeel - A Ramsar Site of Assam, India Revealed Potential Photoluminescence Properties for Nanotechnological Applications</p> <p>6. Preventing extinction and improving conservation status of Vanilla borneensis Rolfe - A rare, endemic and threatened orchid of Assam, India</p> <p>7. Effect of Paper Mill Effluents on Some Traditional Rice Cultivars of Assam</p> <p>8. Phylogenetic Analysis and Homology Modelling of Betaine Aldehyde Dehydrogenase - An Aroma Producing Protein in Rice (Oryza sativa L.)</p> <p>9. Phytochemical Analysis and Antioxidant Activities of Garcinia morella Desr.</p> <p>10. Effect of 2, 4-D on callus induction at nodal and internodal explants of Brucea mollis Wall. ex Kurz- an endangered plant of Northeast India</p> <p>11. Molecular characterization and infectivity of Mungbean Yellow Mosaic India virus associated with yellow mosaic disease of cowpea and mungbean</p>	<p>Annals of Plant Sciences 6 (2), 1579-1584</p> <p>Journal of Advanced Plant Sciences 9 (2), 10-15.</p> <p>European Journal of Biological Research 7 (3), 191-201</p> <p>Current Life Sciences, 3 (4), 47-53</p> <p>Research & Reviews: Journal of Material Sciences 5 (6), 17-22</p> <p>Journal of Nature Conservation, 37:39-46 (Elsevier)</p> <p>International Journal of Multidisciplinary Approach and Studies 4 (3):88-96</p> <p>International Journal of Multidisciplinary Approach and Studies 4 (3): 139-148.</p> <p>International Journal of Multidisciplinary Approach and Studies 4 (4): 31-37.</p> <p>Bioscience Discovery 8 (3): 369-374</p> <p>Biocatalysis and Agricultural Biotechnology 11:183-191. (Elsevier)</p> <p>International Journal of Multidisciplinary</p>

12. Cytotoxic Effect of Malathion and Furadan On <i>Allium Cepa</i> L. and Growth Parameters of <i>Oryza Sativa</i> L.	Approach and Studies 4 (4):60-75 PLoS ONE 12 (10), e0186786. https://doi.org/10.1371/journal.pone.0186786
13. RNAi-derived transgenic resistance to Mungbean yellow mosaic India virus in cowpea.	Annals of Plant Sciences 6 (12):1829-1834
14. Distribution and population dynamics of <i>Calamus nambariensis</i> Becc.-An endemic and threatened cane of Assam	Annals of Plant Sciences 6 (12):1855-1861
15. Study of morphological diversity of traditional aromatic rice landraces (<i>Oryza sativa</i> L.) collected from Assam, India	Indian Journal of Biotechnology 16 (1): 100-105.
16. Characterization of β -galactosidase from yeast associated with starter cultures used in household alcohol production in Northeast India	Journal of Pharmacognosy and Phytochemistry 6 (4): 866-869.
17. Phytochemical screening and antioxidant activity of <i>Elaeocarpus serratus</i> L. of Assam	South African Journal of Botany 119: 203-211.(Elsevier)
18. In vitro callus induction and indirect organogenesis of <i>Brucea mollis</i> Wall. ex Kurz – A potential medicinal plant of Northeast India	Nordic Journal of Botany (Wiley)
19. Lectotypification of <i>Calamus nambariensis</i> Becc. (Arecaceae)	Acta Ecologica Sinica, https://doi.org/10.1016/j.chnaes.2018.03 (Elsevier)
20. Habitat mapping, population size and preventing extinction through improving the conservation status of <i>Calamus nambariensis</i> Becc.-an endemic and threatened cane of Assam, India	Bioscience Discovery 9 (2):237-243
21. Phytochemical screening and antioxidant activity of leaf extract of <i>Phlogacanthus thyrsoiflorus</i> Nees. – a medicinal plant of Assam, India.	Bioscience Discovery 9 (2): 251-259.
22. Cytotoxic effect of acridine orange and ethidium bromide on <i>Allium cepa</i> L. and <i>Oryza sativa</i> L.	Int. J. Life. Sci. Scient. Res 4 (3):1736-1743.
23. Regeneration of Plantlets from Rhizome Bud Explants of <i>Lasiacis spinosa</i> (Lour.) Thwaites- A Medicinal Plants of Assam	Acta Ecologica Sinica, https://doi.org/10.1016/j.chnaes.2018.06 (Elsevier)
24. Habitat distribution modelling and reinforcement of <i>Elaeocarpus serratus</i> L. - A threatened tree species of Assam, India for improvement of its conservation status	Journal for Nature Conservation 43: 104-110(Elsevier).
25. Habitat distribution modelling for improving conservation status of <i>Brucea mollis</i> Wall. ex Kurz.–An endangered potential medicinal plant of Northeast India	Biocatalysis and Agricultural Biotechnology 15:150-159(Elsevier).
26. Screening of drought tolerant rice through morpho-physiological and biochemical approaches	Rice Science 25 (5): 235–249 (Elsevier)
27. Arsenic stress responses and tolerance in rice: physiological, cellular and molecular approaches	Rice Science 25 (5):185–196 (Elsevier)
28. Antioxidant Protection Mechanisms Reveal Significant Response in Drought-Induced Oxidative Stress in Some Traditional Rice of Assam, India	

Dr. K Tayung	1. Molecular Characterization and Antimicrobial Activity of an Endolichenic Fungus, <i>Aspergillus</i> sp. Isolated from <i>Parmeliacapitata</i> of Similipal Biosphere Reserve, India,	Springer. Interdiscip Sci Comput Life Sci, DOI 10.1007/s12539-016-0146-y
	2. Biocontrol potentials of some plant and spice extracts against fungi contaminating post harvested stored grains.	International Journal of Advance Research. 5(10): 575-580
	3. Fungi Associated with Contaminated Stored Grains and their Biological Control using <i>Zanthoxylumrhetsa</i> Essential Oil.	International Journal of Advances in Agricultural Science and Technology. 4 (11): 10-26
	4. Antifungal activity of <i>cymbopogonnardus</i> essential oil against some fungi contaminating cereals and pulses.	Research Journal of Life sciences, Bioinformatics, Pharmaceuticals and Chemical sciences. 3(4): 26-34
	5. Antimicrobial potentials of spore culture of <i>Geastrum</i> sp., a rare wild edible mushroom of Similipal Biosphere reserve, Odisha, India against some significant human pathogens.	International Journal of Advance Research. 5(9): 1508-1516
Dr. D. Narzary	Diversity study on endophytic fungi associated with <i>Oroxylum indicum</i> and their interactions with some phytopathogens	Botanical Journal of Assam 9(2): 27-41
Dr. H Deka	1. Isolation of polycyclic aromatic hydrocarbons (PAHs) degrading fungal candidate from oil contaminated soil and degradation potentiality study on anthracene	Polycyclic Aromatic Compounds, 37 (2-3): 141-147, 2017 Taylor and Francis. (Impact Factor 1.569)
	2. Biodegradation of Benzo(a)anthracene Employing <i>Paenibacillus</i> sp. HD1PAH: A Novel Strain Isolated from Crude Oil Contaminated Soil	Polycyclic Aromatic Compounds, 37 (2-3): 161-169, 2017 Taylor and Francis. (Impact Factor 1.569)
Dr. N Agarwala	1. Transgenic Tea Over-expressing <i>Solanum tuberosum</i> Endo-1,3-beta-d-glucanase Gene Conferred Resistance Against Blister Blight Disease	Plant Molecular Biology Reporter. 2018. https://doi.org/10.1007/s11105-017-1063-x
	2. A Proteomic Approach to Evaluate the Effects of Endogenous Expression of Cryptogein Gene in Crypt-Transgenic Plants of <i>Bacopa monnieri</i> .	Journal of Applied Biotechnology & Bioengineering. 2017. 4(3)
	3. Draft genome sequence of a Polymyxin B resistant ST195 clinical isolate of <i>Acinetobacter baumannii</i> from India	Genome Announcement, 2018 6:e00031-18
Dr. Nabanita Bhattacharya	Biochemical Composition and Isoenzymes of Enzyme Peroxidase of <i>Houttuynia cordata</i> Thunb. from Brahmaputra Valley of Assam, India	International Journal of Bio-resource and Stress Management, 8(3): 375-381.
Dr. Arabinda Ghosh	1. OMP36 mediated meropenem resistance in clinical isolates of <i>Klebsiella pneumoniae</i> .	International Journal of Current Advanced Research. (2018), DOI: 10.24327/ijcar.2018.9191.1508.
	2. In-vitro antimicrobial screening of plant extracts of <i>Anthocephalus cadamba</i> (Roxb.).	Journal of Advanced Plant Sciences. 9(2), 41-44. (2017)
	3. Isolation and biochemical characterization of thermophilic bacteria from	Journal of Advanced

	the hot spring of Garampani wildlife sanctuary, Assam, India.	Plant Sciences. 9(1), 13-18. (2017)
	4. Clinical analysis of poly herbal compounds in the management of tamaka swasa (bronchial asthma)-An Insilico approach of Vasaka (Adhatoda vasica Nees).	International Journal of Recent Scientific Research. 8(12), 22146-22152. (2017)

e) Paper published in other journals during the period (only those considered for API Score). NA

f) Details of book published during the period:

Name of the faculty	Title of the Book(s)	Date of publications
Prof. S. K. Borthakur	1. Advances in Botanical Research in N.E. India. EBH Publishers (India), Guwahati	2018 (ISBN 978-93-86302-52-6).
	2. Bamboos of North-East India. EBH Publishers (India), Guwahati	2018 (ISBN 9789383252176)
	3. Flora of BTAD [Vols. 1-4.] EBH Publishers (India), Guwahati	2018 (ISBN 978-93-86302-57-1)
Prof. Bhaben Tanti	1. Fermented foods and beverages 2. Advances in BOTANICAL RESEARCH IN North East India	August, 2017 March, 2018
Dr. Namita Nath	A Text Book for B' Sc. Botany 3 rd semester	2017
	A Text Book for B' Sc. 5 th semester Botany	2017
	A Text Book for B' Sc. 2 nd Semester Botany	2018
	A Text Book for B' Sc. 4 th Semester Botany semester	2018
	A Text Book for B' Sc. 1 st Semester Botany	2018
	Advances of Botanical Research in North East India (Edited Book)	2018
Dr. Arabinda Ghosh	1. Manno-oligosaccharide from coprameal as prebiotic and anticancer agent	2017 . Lambert Academic Publishing, GmBH, Germany (ISBN 978-3-330-03979-7)
	2. Insilico analysis of xylanases from thermophilic bacteria.	2017, Lambert Academic Publishing, GmBH, Germany (ISBN: 978-3-330-08294-6)

26. Placement record during the period (Please state briefly):

- Recruited as Assistant Professor (Botany) in various colleges of Assam = 12
- Placement in industry = 2 (one is in food industry and other in cosmetic industry)
- Others (recruited as TET teacher) = 8
- Temporary placement (JRF/SRF and other project fellowship) = 7

27. Placement services provided to students by the Department/Centre, if any: NA

30. Is there any Student Counseling Unit in the Department/Centre? If yes state activities during the period under report. NA

31. Departmental Library:

a)	No. of Books as on 31.03.2018	916
b)	New Books procured during the period	17 Nos.
c)	No. of Journals as on 31.03.2018	-----
d)	New Journals procured during the period	-----
e)	No. of users during the period :	250

32. Departmental publications: Nil

33. Activities and support from the Alumni Association of the Department/Centre: Nil

34. Activities and support from the Parent-Teacher Associations if any: Nil

35. Involvement in Community services: Distribution of plant saplings during 5th June on the occasion of World Environment Day

36. Provision for financial aid to students in the Department/Centre, if any: Nil

37. Provision for student assessment of teachers. If such provisions exist, the courses in which student assessment is obtained and action taken on this feedback may please be stated.

- Yes it exist and done during M Sc 4th semester examination in Botany and Microbiology. Based on feedback there was minor modification in the

38. Information on up to five Good Practices followed by the Department/Centre:

i) Exposure trips to Botanical Survey of India Experimental Garden as well as to reserve forest and national Parks

ii) Organizing academic interaction with reputed scientist/professors

iii) Remedial Class

iv) Vermicomposting for management of leaf litters and other biowaste

39. Detail the plans of the Department/Centre/Institute for the next year:

- Departmental Conference Room
- Departmental Museum
- Installation of Atomic Absorption Spectrophotometer
- Renovation of M Sc Class Room

Head, Dept. of Botany

ANNUAL REPORT : DEPARTMENT OF CHEMISTRY
GAUHATI UNIVERSITY (FOR THE PERIOD APRIL 2017 TO MARCH 2018)

2. a. Name of the Department : CHEMISTRY
b. Year of establishment : 1955
2. Head of the Department : Prof. Dilip Kumar Kakati
3. Details of academic staff :

Sl. No.	Name of the teacher	Designation (Professor/Associate Prof./Asst. Professor)	Full Time/ Contractual	Sex (Male/ Female)	Caste (Gen/ SC/ ST/OBC /DA)	Citation index
15	Prof. B. C. Goswami	Professor	Full time	M	Gen	212
16	Prof. D. C. Deka	Professor	Full time	M	Gen	626
17	Prof. B. K. Das	Professor	Full time	M	Gen	822
18	Prof. D. K. Kakati	Professor	Full time	M	Gen	259
19	Prof. C. Medhi	Professor	Full time	F	Gen	526
20	Prof. A. K. Talukdar	Professor	Full time	M	Gen	380
21	Prof. P. Phukan	Professor	Full time	M	Gen	2126
22	Prof. D. K. Das	Professor	Full time	M	Gen	382
23	Dr. R. J. Sarma	Associate Professor	Full time	M	Gen	984
24	Dr. S. K. Gogoi	Assistant Professor	Full time	M	OBC	708
25	Dr. D. Mahanta	Assistant Professor	Full time	M	Gen	694
26	Dr. S. Brahma	Assistant Professor	Full time	M	ST (P)	244
27	Dr. R. Thakuria	Assistant Professor	Full time	M	Gen	702

B-141

28	Dr. D.J. Kalita	Assistant Professor	Full time	M	Gen	52
29	Dr. T. K.Goswami	Assistant Professor	Full time	M	Gen	407
30	Dr. N. Nath	Assistant Professor	Full Time	M	OBC	156
31	Dr. S. Ghosh	UGC-Assistant Professor	Full Time	M	Gen	447
32	Dr. B. Banik	DST-INSPIRE Faculty	DST-INSPIRE Faculty	M	SC	332

4. Course(s)/Program offered : M.Sc., PGDAC, Ph.D.
5. Special Branches in the Department/Centre : Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Materials Chemistry.
6. New Academic Program initiated during the period under report: NIL
7. Innovation in Curricular design : Choice Base Credit System (CBCS) adopted, introduction of new special papers on Materials Chemistry, Supramolecular Chemistry, Food and Nutrition Chemistry, Green Chemistry, Modern Methods of Analysis, Surface Chemistry and Analysis, Nanoscience and Nanotechnology, X ray Crystallography etc.
8. Inter disciplinary Program started : NIL
9. Department/Centre under : SAP/COSSIST(ASSIST)/DST/FIST.
10. Total number of Research Scholar working at present:

a) Full Time:	b) Part time:
77	0

11. Enrolment of Students in various courses (April 2017- March 2018) :

Courses	Sem	Intake Capacity	No. Admitted			S.C.			S.T.(P)			S.T.(H)			OBC/MOBC		
			M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Post-Graduate	1 st																
	2 nd	46	24	22	46	0	4	4	2	3	5	1	0	1	8	5	13
	3 rd																
	4 th	46	46	30	16	0	3	3	2	3	5	0	1	1	5	6	11
M.Phil.		NA															
Ph.D.		NA	26	51	77	1	0	1	3	2	5	0	0	0	4	9	13
Others (PGDAC)	1 st	15	6	5	11	1	1	2	1	0	1	0	1	1	3	2	5

12. Teacher-Student and Teacher- Non-teaching staff ratio :

No. of Teacher	No. of students	No. of non-teaching staff
18	112	16
Teacher/Student Ratio		Teacher-Non-teaching Staff Ratio
6.22		1.13

13. Final Examination result during the session (2017-18):

(a) No. Appeared:43.....

Subject	Total Appeared			S.C.			S.T(P)			S.T.(H)			OBC/MOBC		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Chemistry	13	30	43	0	3	3	0	3	3	0	1	1	3	6	9

(b) No. Passed:41.....

Subject	Total Passed			S.C.			S.T(P)			S.T.(H)			OBC/MOBC		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Chemistry	12	29	41	0	3	3	0	3	3	nil	nil	nil	3	6	9

14. Details of Ph.D. awarded (2017-18)

Name of the Ph.D. Scholars	Title of the Ph.D. thesis	Guide
Biswajit Sarma	Studies on antidiabetic activity of a few medicinal plants.	Prof. B. C. Goswami
Mostafa Momin	Physicochemical properties of petro- and bio-diesel mixes and evaluation of their performance	Prof. D. C. Deka

Subarna Jyoti Kalita	Development of green protocols for the synthesis of some pyrimidine and pyrazole based heterocycles	Prof. D. C. Deka
Pranami Handique	Traditional alcoholic beverages prepared by ethnic communities in Sivasagar district of Assam: study on methodology and composition	Prof. D. C. Deka
Monsumi Gogoi	Synthesis and X-ray Crystallographic Studies of Cobalt, Manganese and Manganese-Cobalt Complexes	Dr. B. K. Das
Sourav Jyoti Bharali	Studies on the synthetic use and catalytic applications of transition metal carboxylate complexes	
Chayanika Deka	Studies on chitosan based carrier vehicles for delivery of drugs.	Prof. D.K. Kakati
Jitendra Deka	Synthesis, Characterization and anticancer property of some Ruthenium Complexes	Prof. C. Medhi
Mithun Nandi	Synthesis, characterization and catalytic performance of ceria, zirconia, vanadia and mixed oxides supported on hierarchical MFI zeolite	Prof. A. K. Talukdar
Progyashree Goswami	Synthesis of Chalcones and Some Other Heterocycles as Bioactive Target	Prof. P. Phukan
Kaustav Mani Deka	A Theoretical Study on Some Aspects of Reactivity, Reaction Mechanism and Supra-Molecular Effects of Selected Organic Compounds	Prof. P. Phukan
Manash Jyoti Sarma	Development of new methodologies towards Carbon-Heteroatom bond forming reactions	Prof. P. Phukan
Nabajyoti Hazarika	Development of synthetic methodologies using Tandem three component reactions	Prof. P. Phukan (Jointly with Dr. Gakul Baishya, CSIR-NEIST, Jorhat)
Probhali Doley	Isolation and Characterization of Antimicrobial Agent Producing Endophytes from Some Endemic Medicinal Plants of Assam	P. Phukan (Co-guide) Guide: Prof. D. K. Jha, Botany Deptt.
Partha P Biswas	Synthesis and characterization of complexes of Vanadium, Copper, Zinc and Ruthenium with Schiff base	Prof. D. K. Das
Manash Jyoti Goswami	Synthesis, Characterization, Electrochemical Investigations and Bromoperoxidase activity of a few Vanadium peroxo complexes	Prof. D. K. Das
Dhanada Sarmah	Electrochemical study of few active centre analogues of $[\text{Fe}_2\text{S}_2]$ and $[\text{VFe}_3\text{S}_4]$ type ferredoxins in charged solutions and film	Prof. D. K. Das
Jutika Kumar	New ferrocene linked fluorophores: Dual (Fluorescent /Electrochemical) sensor for a few heavy metal ions	Prof. D. K. Das

15. Number of students qualified in:

NET(JRF)	NET	SLET	GATE	Any others
03	05	03	08	

16. Important students' activities and achievements and awards during the period (Please state briefly):

- i) **Mr. Debashish Mishra**, PhD student under Prof. P. Phukan received **Best Poster Award** in seminar "Emerging Trends in Chemical Sciences" held on 29th January, 2018 at the department of Chemistry, Gauhati University.
- ii) Many of the PhD students from the department did oral and poster presentation in different conferences held in different institutions of India.
- iii) Five PhD students attended the Training Cum Orientation programme conducted by IICT Hyderabad.
- iv) Four MSc Students did summer internship in the laboratories of Academy Fellows working at institutions of national importance.

17. Seminar/Summer School/Workshop conducted during the period (2017-18):

Name of the Coordinator	Name of the Seminar/Summer School/ Workshop/ Refresher Course	Date	Sponsorship
Prof. B. K. Das	Short Term Course on Research Methodology	20-25 November, 2017	UGC-HRDC, Gauhati University
Prof. D. K. Kakati	Emerging Trends in Chemical Sciences (ETCS-2018) Department of Chemistry, Gauhati University	29 January 2018	

18. Honours/Awards/Fellowship (with National/International repute) earned by the Faculty members (2017-18) :

Name of the Faculty	Name of the Award/Fellowship	Conferring agency
Prof. D. C. Deka	Leading Educationist Award 2018 (March 2018)	Friendship Forum of India, New Delhi
Prof. P. Phukan	Fellow of the Royal Society of Chemistry (FRSC), UK (2017)	Royal Society of Chemistry, UK
Prof. P. Phukan	Joint Secretary, Chemical Research Society of India	Chemical Research Society of India
Prof. P. Phukan	Member, Executive Committee, Indian Society for Surface Science and Technology	Indian Society for Surface Science and Technology
Dr. R. Thakuria	Invited as Guest editor for a special issue in Crystal Growth & Design	ACS publication
Dr. R. Thakuria	Considered among top 3 referee of Crystal Growth & Design	ACS publication
Dr. D. Mahanta	Visiting Fellowship JNCASR (2017-2018)	JNCASR

19. Visit abroad by the Faculty members (2017-18):

Name of the Faculty	Institute visited	Purpose	Period
Prof. B. K. Das	University of Copenhagen, Denmark	To present a paper in Fourth EuCheMS Inorganic Chemistry Conference	July, 2017
Dr. S. Ghosh	King's College London	Presentation on joint project from Newton Alumni Funding	From 6-07-2018 upto 19-07-2018

20.(a) Sponsored Research Project (2017-18):

Name of the Principal Investigator	Title of the Project	Funding Agency	Duration	Amount(Rs.)
Prof. C. Medhi	Helping the Socio-Economically backward SC/ST communities to get potable water	Shakya, University of Cambridge	1 year	550 pounds
Prof. A. K. Talukdar (co-investigator)	Bioactivity guided fractionation of <i>Dillenia indica</i> Linn. and <i>Murraya koenigii</i> leaf extract for anti-diabetic potency	Ministry of Health & Family Welfare	3 years	18 L
Prof. P. Phukan	Activation and Functionalization of Organic Molecules using Sulphonamide Based Reagents	SERB	3 years	49.8 lakhs
Prof. D. K. Das	Fluorescent self assembled monolayers on quartz glass substrates: Sensing metal ions and small biomolecules	DST-SERB	2017-2020	36.4 lakhs
Dr. R. J. Sarma	Design and Syntheses of Tryptophan based Ligands for the Recognition of Halide Anions	UGC	2014-2018	9.964 lakhs
Dr. D. Mahanta	Design and Synthesis of Hierarchically Porous Materials-Conducting Polymer Composites for Electrochemical Supercapacitors	SERB	2018-2021	38 L
Dr. S. Brahma	Asymmetric Hydrogenation of Various Pro-Chiral Organic Substrates by Catalyst Metal Nanoparticle Encapsulated in Chiral Metal Organic Framework MNP@CMOFs	DST-SERB	3 years	27.06 lakhs
Dr. D. Kalita	Molecular engineering, hoping transport and tuning of electronic properties of conjugated organic semiconductors based on donor-acceptor approach for potential applications in optoelectronics.	Gauhati University	N/A	1.5 lakhs
Dr. T. K. Goswami	Targeted Organometallic Compounds for Photodynamic Destruction of Cancer	DST	5 years	35 lakhs

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	Photoinduced Anticancer Activities of Targeted Ferrocene-conjugated 3d Metal Complexes	UGC	2 years	10 lakhs
Dr. S. Ghosh	Designing Suitable Host Molecules as Enzyme Mimics for Supramolecular Catalysis	UGC Start-up grant	2 years	6 lakhs
	Synthesis of Polycarbonates from the Greenhouse Gas CO ₂ by Supramolecular Catalysts Designed via Co-ordination Driven Self-assembly.	DST-SERB	3 years	30.06 lakh
Dr. N. Nath	Pure Shift NMR Methods for the Enantiodiscrimination in Chiral Anisotropic Media	UGC-BSR Start-Up-Grant)	2017-2019	10 lakhs
Dr. B. Banik	Stimuli-responsive nano-constructs for targeted delivery and site-selective release and activation of combination drugs	Department of Science and Technology (DST), India	Oct 2017 to Oct 2022	35 lakhs

(b) Patent Generated (2017-2018):

Sl No.	Name of the Faculty	Patent Generated	Remarks
1.	Nil	Nil	Nil

21. Academic distinction earned by the students during (2017-18):

Sl.No.	Name of Examination/Program	Name of the student	Position held
1.	Post-Doctoral Fellowship in China	Dr. Subarna Jyoti Kalita (PhD Student of Prof. Prof. Dibakar Chandra Deka)	Post-Doctoral Fellow in Wuhan University of Technology, Wuhan 430070, China.

22. Distinguish visitors to the Department during the period (2017-18):

Name of visitors	Address & Designation	Purpose of visit
Prof. C. Greisinger	Max Planck Institute for Biophysical Chemistry	Academics, Invited Lecture in R. K. Baruah Memorial Lecture
Prof. A. R. Chakravarty	Dept. of Inorganic and Physical Chemistry, IISc Bangalore	Visiting professor, Department of Chemistry Gauhati University
Prof. V. Chandrashekar	Director, TIFR Hyderabad	To deliver P. K. Sarma memorial lecture on the occasion of prize distribution ceremony of State Chemistry Olympiad, Assam.
Prof. R. N. Prasad	President, Indian Chemical Society, Dean of School of sciences JECRC University, Ex Professor, Rajasthan University	Lecture cum interaction program with students organized by Society for Chemical Education, Assam and Dept. of Chemistry, GU.

28. Creation /Increase in infrastructural facilities in the Department/Centre during the period 2017-18:

- (a) Procured Hitachi make UV/Vis spectrophotometer (5 lakhs) from RUSA fund.
- (b) Procured Hitachi make Fluorescence spectrometer (12 lakhs) from RUSA fund.

29. Provisions for (a) computer access (b) internet access and (c) training to teachers, non-teaching staff and students of the Department/Centre computer:

- i) Department has a facility with twenty computers for general and internet uses by the students and teachers.
- ii) Work station for computational works for research students.

30. Technology up gradation in the Department/Centre during the period 2017-18:

- i) The department has set up a Computation facility for the students which can be used by students for their research requirement.
- ii) The classrooms are made ICT compatible.

31. Linkages developed with National/International/Academic/Research Bodies :

Collaborative research by faculty members has been initiated with NEIST Jorhat, IASST Boragaon, Kings' College London, VIT-Vellore, and IISc Bangalore.

32. Academic activities of Faculty members during the period of report (2016-17):

- a) Seminar/Conferences/ Workshops attended/presented paper by the faculty during the period :

Name of the faculty(s)	No. of Seminars	No. of Workshops
Prof. B. K. Das	4 (1 National, 3 International)	
Prof. D. K. Kakati	01	01
Prof. D. C. Deka	05	01
Prof. A. K. Talukdar	01	01
Dr. R. J. Sarma	01	01
Dr. S. K. Gogoi	01	Nil
Dr. R. Thakuria	02	Nil
Dr. T. K. Goswami	02	Nil
Dr. S. Ghosh	01	Nil
Dr. N. Nath	01	01

b) Name of the teacher(s) acted as resource person(s) during the period (state briefly)

1. **Prof. D. C. Deka** as Visiting Professor to **Handique Girls' College, Guwahati**.
2. **Prof. D. C. Deka** Preparation of **trilingual glossary for science and technology terminology** by the **Commission for Science & Technology Terminology, New Delhi**.
3. **Prof. B. K. Das as a resource person** invited to speak on Curriculum Designing and Content Development on 16-02-2018 at Orientation Programme at GU-HRDC.
4. **Prof. B. K. Das as a resource person** invited to speak on Curriculum Designing and Content Development : brief guidelines on 07-12-2017 at Orientation Programme at GU-HRDC.
5. **Prof. B. K. Das as a resource person** invited to speak at Refresher Course on Emerging Trends in Science & Technology (October-November, 2017) 'Emerging Trends in S&T'.
6. **Prof. B. K. Das as a resource person** invited to speak on 'Methods of Research' at Short Term Course on Research Methodology held on 25 November, 2017
7. **Prof. B. K. Das as a resource person** invited to speak on 'Schemes for Research Funding' at Refresher Course held on 1 April 2017.
8. **Prof. A. K. Talukdar** as Resource person in **Refreshers Course** conducted by HRD Centre GU.
9. **Prof. D. K. Kakati** as Resource person in Orientation cum **Workshop For Laboratory staff** conducted by **Advance Level Institutional Biotech Hub, Department of Biotechnology/ Gauhati University**.
10. **Prof. D. K. Kakati** chaired a session in the National Seminar on Harmony with Nature in context of Chemistry and Environment Issues and Challenges, September 11-12, 2017, in Pub-Kamrup College, Assam
11. **Prof. A. K. Talukdar** as Resource person in Orientation cum **Workshop For Laboratory staff** conducted by **Advance Level Institutional Biotech Hub, Department of Biotechnology/ Gauhati University**.
12. **Prof. A. K. Talukdar** chaired a session in the National Seminar on Harmony with Nature in context of Chemistry and Environment Issues and Challenges, September 11-12, 2017, in Pub-Kamrup College, Assam
13. **Dr. R. Thakuria** worked as a **Jt. Convener** and delivered an **invited talk in Emerging Trends in Chemical Sciences (ETCS-2018)** organized by Department of Chemistry, Gauhati University, **January 29, 2018**.
14. **Dr. R. Thakuria** delivered an Invited talk in a conference on **mechanical properties of molecular crystals** organized by **Indian Academy of Science, Bangalore, November 26-30, 2017** at Coorg, India.

c) Refresher Course/ Orientation Course attended by the teachers during the period :

Name of the faculty	Refresher Course	Orientation Course
Dr R. Thakuria		01 [OP-114 (UGC-HRDC, GU)]
Dr T. Kumar Goswami		01 [OP-114 (UGC-HRDC, GU)]

d) Details of paper published in the Referred journals during the period (2017-18) :

Name of the faculty	Title of the paper	Name of the journal with Vol. No. & Date
Prof. D. C. Deka	A molecular hybridization approach for simple and expeditious synthesis of novel spiro[oxindoline-3,4'-isoxazolo[5,4-b]pyrazolo[4,3-e]pyridines] in water	<i>ChemistrySelect</i> 2018 , 3, 7862-7866.
	Occurrence of estrogenic heavy metals in three major fresh water bodies of Guwahati city, Assam, India	<i>International journal of basic and applied research</i> , 2018 , 8, 839-49.
	Antioxidant-activity and physico-chemical indices of the rice beer used by the <i>Bodo</i> community in North-East India	<i>Journal of the ASBC</i> 2018 , 76, 112-116.
	A quick micelle catalyzed one-pot synthesis of spiro[indoline-3,4'-pyrano[2,3-c]pyrazoles] in water at room temperature	<i>ChemistrySelect</i> 2018 , 3, 1512-1516.
	2-Phenyl-2,3-dihydrobenzo[d]thiazole: A Mild, Efficient, and Highly Active in situ Generated Chemoselective Reducing Agent for the One-Pot	<i>Synlett</i> 2018 , 29, 477-482.

	Synthesis of 5-Monoalkylbarbiturates in Water	
	A Quick, Simple and Clean Synthesis of Spiro[indoline-3,4'-pyrazolo[4',3':5,6]pyrido[2,3- <i>d</i>]pyrimidines] in Water through a Novel One-pot Multicomponent Reaction	<i>ChemistrySelect</i> 2017 , 2, 5701 – 5706.
	L-Proline-Catalysed One-Pot Regio- and Diastereoselective Synthesis of Spiro[2,3- <i>d</i>]pyrimidin-2-amines-6,5'-pyrimidines] in Water	<i>SynOpen</i> 2017 , 1, 45-49.
	An Expeditious Synthesis of 2,3-dihydroquinazolin-4(1H)-ones in Aqueous Medium Using Thiamine Hydrochloride (VB1) as a Mild, Efficient and Reusable Organocatalyst	<i>Synthetic Communications</i> 2017 , 47, 1601–1609.
	Evaluation of Anticancer and Antimicrobial Activity of Arborinine from <i>Glycosmis pentaphylla</i>	<i>Journal of Biologically Active Products from Nature</i> , 2017 , 7, 131-139.
	Single crystal X-ray diffraction in structure elucidation of arborinine from <i>Glycosmis pentaphylla</i>	<i>The Natural Products Journal</i> , 2017 , 7, 1-7.
	Metal profile of traditional alcoholic beverages prepared by the ethnic communities of Assam, India	<i>Journal of the Institute of Brewing</i> 2017 , 123, 289-295.
	A new, convenient and expeditious synthesis of 4-alkyl-5-methyl-1 <i>H</i> -pyrazol-3-ols in water through a multicomponent reaction	<i>Tetrahedron Letters</i> , 2017 , 58, 566-569.
	Synthesis of β -aminocarbonyl and β -aminonitrile compounds catalyzed by water extract of <i>Musa balbisiana</i> (Colla) via aza-Michael reaction	<i>Asian Journal of Organic & Medicinal Chemistry</i> 2017 , 2, 138-142.
Prof. B. K. Das	Dimeric copper(II) carboxylates as catalysts in the selective epoxidation of styrene.	<i>Polyhedron</i> 2018 , 155, 351-358.
	Oxidation of DPM Catalyzed by Complexes of the type $[\text{Cu}_2(\mu\text{-O}_2\text{CR})_4(4\text{-CNpy})_2]$.	<i>Journal of the Indian Chemical Society</i> 2018 , 95, 707-712.
	Study of distorted octahedral structure in 3d transition metal complexes using XAFS.	<i>Chemical Physics Letters</i> 2018 , 692, 382-387.
	Photocatalytic Degradation of Organic Dyes by Nanostructured Cobalt Oxides under UV-light.	<i>Chemical Science Transactions</i> 2018 , 7, 112-118.
	Controlled synth. of α - and γ -Fe ₂ O ₃ nanoparticles via thermolysis of PVA gels and studies on α -Fe ₂ O ₃ catal. styrene epoxidation.	<i>Journal of Saudi Chemical Society</i> 2017 , 21, S170-S178.
Prof. D. K. Kakati	Investigation of pH sensitive swelling and curcumin release behavior of Chitgcl-hydrogel	<i>Journal of Polymer and Environment</i> 2018 , doi/10.1007/s10924-018-1272-x
	Alkyds from red-silk cotton (<i>Bombax ceiba</i>) seed oil and investigation on their microbial degradation	<i>Progress in Organic Coating</i> 2018 , 124,71-79
Prof. C. Medhi	Quantum mechanical studies on the existence of AC mismatches through prototypic tautomerization pathway in adenine and cytosine recognition.	<i>Journal of Theoretical and Computational Chemistry</i> 2017 , 16, 1750027.
	Design, Synthesis and Preliminary Pharmacological Screening (antimicrobial, analgesic and anti-inflammatory activity) of Some Novel Quinazoline Derivatives.	<i>Journal of Applied Pharmaceutical Science</i> 2017 , 7, 083-096.
	.Comparison of donor-acceptor properties of N-heterocyclic rings in Ruthenium complexes by quantum mechanical calculations.	<i>Int. J. of Current Research</i> 2018 , 10, 72212-72217.
	The Effect Of Proton And Water Molecule On Watson Crick Hydrogen Bonds And The Formation Of Cytosine(C)-Thymine(T) Base Pairs.	<i>Int. J of Research in Engineering and Science (IJRES)</i> , 2018 , 6, 54-65.
	Structure and Selectivity of binding sites in HIV protein	<i>Asian Journal of Science and</i>

	by 6-aminoquinolines. Molecules: Docking and Molecular Mechanics studies.	<i>Technology</i> (In Press), 2018 .
	Is Guanine(G) tautomer interaction responsible for the existence of GG mismatches? A quantum mechanical studies on G tautomer combination.	<i>Int. J. of Innovative Research and Advanced Studies</i> (In Press), 2018 .
	Electronic Properties of Ruthenium complexes having Vinyl imidazole ligand.	<i>Int. J. of Current Research</i> (in press), 2018 .
Prof. A. K. Talukdar	Vanadia loaded hierarchical ZSM-5 zeolite: a promising catalyst for epoxidation of cyclohexene under solvent free condition	<i>Journal of Porous Materials</i> 2017 , 23, 1143–1154.
	Effective Removal of Cr(VI) From Aqueous Solution By Diamino-Functionalised mesoporous MCM-48 And Selective Oxidation of Cyclohexene And Ethylbenzene Over The Cr Containing Spent Adsorbent.	<i>Journal of Environmental Chemical Engineering</i> 2017 , 5, 4707–4715.
	Removal of Cu(II) and Pb(II) from aqueous solution using nanoporous materials.	<i>Russian Journal of Physical Chemistry A</i> 2018 , 29, 976–983.
	Facile Synthesis of Titanium-Loaded MCM-48 as an Efficient Heterogeneous Catalyst for Selective Oxidation of Aniline to Azoxybenzene.	<i>Chemistry Select</i> 2017 , 2, 8983-8989.
Prof. P. Phukan	Cu-doped CoFe ₂ O ₄ nanoparticles as magnetically recoverable catalyst for C-N cross-coupling reaction.	<i>Catal. Commun.</i> 2018 , 109, 38-42
	Copper-Catalyzed Stereoselective Domino Synthesis of (Z)-3-Methyleneisindolin-1-one.	<i>ChemistrySelect</i> 2018 , 3, 2474– 2478
	Condensation product of 2-hydroxy-1-naphthaldehyde and 2-aminophenol: Selective fluorescent sensor for Al ³⁺ ion and fabrication of paper strip sensor for Al ³⁺ ion.	<i>Inorg. Chim. Acta</i> 2018 , 469, 202–208
	Sulfonic Acid Functionalized Activated Carbon Made from Tea Leaves as Green Catalyst for Synthesis of 2-Substituted Benzimidazole and Benzothiazole.	<i>Res. Chem. Intermediat.</i> 2018 , 44, 1597-1615
	Metal-free synthesis of secondary amines by the reaction of tosyl triazene and aryl boronic acid.	<i>Synth. Commun.</i> 2018 , 48, 656–662
	CuI catalyzed sulfamidation of arylboronic acid using TsNBr ₂ at room temperature.	<i>Tetrahedron Lett.</i> 2017 , 58, 4855-4858
	CoFe ₂ O ₄ -SiO ₂ -SO ₃ H Nano Composite as a Magnetically Recoverable Catalyst for Oxidative Bromination of Alkynes.	<i>Synth. Commun.</i> 2017 , 47, 2330-2341
Prof. D. K. Das	Nickelhexacyanoferrate modified Glassy Carbon electrode as voltammetric and electrochemical impedance spectroscopic sensor for thiocyanate ion.	<i>Chemistry Select</i> 2018 , 3, 481-485.
	Condensation product of 2-hydroxy-1-naphthaldehyde and 2-aminophenol: Selective fluorescent sensor for Al ³⁺ ion.	<i>Inorg. Chim. Acta</i> 2017 , 469, 202-208.

	Schiff base modified Pt electrode as sensor for Al(III) and Pb(II)	<i>Indian J Chemistry A</i> 2017 , 56A, 832-837.
	2-Hydroxyacetophenone and ethylenediamine condensed Schiff base: Fluorescent sensor for Al ³⁺ and PO ₄ ³⁻ , biological cell imaging and INHIBIT logic gate	<i>Inorg. Chim. Acta</i> 2017 , 462, 167–173
	Voltammetric distinction between dopamine and ascorbic acid using bare Platinum disc electrode catalysed by bisethylenediaminecopper(II).	<i>Indian J. Chem. Tech.</i> 2017 , 24, 102-106.
Dr. R. J. Sarma	Mechano-Luminescent Behavior of a Pyridine-Containing Anthracene Derivative: Role of Aromatic Stacking Interactions	<i>Cryst. Growth Des.</i> 2018 , 18, 4963–4970.
	Cooperative Binding of Fluoride Anions to a Flexible Cystine-Based Receptor Containing Two 3,5-Dinitrobenzamide Motifs	<i>ChemistrySelect</i> , 2018 , 3, 5786– 5791
	Naphthalimide-Containing Isomeric Urea Derivatives: Mechanoluminescence and Fluoride Recognition	<i>ChemPhotoChem</i> 2017 , 1, 524 – 531
	Synthesis of Cu-Cr diketo, sublimable, eutectic composite complex, rod crystals from LDH as suitable MOCVD precursor of CuCr ₂ O ₄ catalysts upon ceramic preforms for N ₂ O decomposition	<i>Materials Today Chemistry</i> 2018 , 7, 40-52.
Dr S. K. Gogoi	Facile Synthesis of Photoluminescent Graphitic Carbon Nitride Quantum Dots for Hg²⁺ Detection and Room Temperature Phosphorescence	<i>ACS Sustainable Chem. Eng.</i> 2018 , 6, 1732-1743.
Dr D. Mahanta	One-Step Preparation of Freestanding Polypyrrole Films at Air-Water Interface	<i>Chemistry Select</i> 2017 , 2, 9930 – 9933
Dr R. Thakuria	Mechanochemical Synthesis of Olanzapine Salts and Their Hydration Stability Study Using Powder X-Ray Diffraction.	<i>Cryst. Growth Des.</i> 2018 , 18, 2138–2150.
	Drug-drug and drug-nutraceutical cocrystal/ salt as alternative medicine for combination therapy: A Crystal Engineering approach.	<i>Crystals</i> 2018 , 8, 101.
	First-line antituberculosis drug Pyrazinamide: Its pharmaceutically relevant salt and cocrystals.	<i>Acta Cryst B</i> 2017 , 73, 1007–1016. (Most read article)
	Open Flask, Clean and Practical Protocol for Diastereoselective Syntheses of Oxindole Containing Phosphinoyl Compounds under Catalyst-Free and Solvent-Free Conditions.	<i>Chemistry Select</i> 2018 , 3, 3221-3224.

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	Efficient Access to Imidazo[1,2- <i>a</i>]pyridines-/pyrazines/pyrimidines via Catalyst-Free Annulation Reaction under Microwave Irradiation in Green Solvent.	<i>ACS Comb. Sci.</i> 2018 , 20, 164-171.
	I ₂ /TBHP/cyclohexanone a novel catalyst system for the oxidative dearomatization of indoles to indolin-3-ones at room temperature under solvent-free condition.	<i>Catalysis Communications</i> 2018 , 106, 68–72.
Dr D. Kalita	Charge Injection and Hopping Transport in bridged-dithiophene-Triazole-bridged-dithiophene (DT-Tr-DT) Conducting Oligomers: A DFT Approach,	<i>Computational and theoretical Chemistry</i> , 2018 , 1132, 42–49.
	Novel Isophthalohydrazide-cDB24C8 cryptand derivative for the selective recognition of fluoride ion: An experimental and DFT study	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> 2018 , 204, 225-231.
	Narrowing the band gap of graphitic carbon nitride sheet by coupling organic moieties: A DFT Approach	<i>Chem. Phys. Lett.</i> 2018 , 707, 101-107.
Dr. S. Ghosh	Synthesis, characterization, and cytotoxic properties of mono- and di-nuclear cobalt(II)-polypyridyl complexes	<i>Dalton Trans.</i> 2018 , 47, 5755
Dr. N. Nath	Insight into old and new pure shift nuclear magnetic resonance methods for enantiodiscrimination	<i>Magn. Reson. Chem.</i> 2018 , 1–17.
Dr. B. Banik	Core Hydrophobicity Tuning of a Self Assembled Particle Results in Efficient Lipid Reduction and Favorable Organ Distribution	<i>Nanoscale</i> 2018 , 10, 366-377

e) Paper published in other journals during the period (only those considered for API Score).

Name of the faculty	Title of the paper	Name of the journal with Vol. No. & Date
Prof. D. C. Deka	A molecular hybridization approach for simple and expeditious synthesis of novel spiro[oxindoline-3,4'-isoxazolo[5,4- <i>b</i>]pyrazolo[4,3- <i>e</i>]pyridines] in water	<i>ChemistrySelect</i> 2018 , 3, 7862-7866.
	Occurrence of estrogenic heavy metals in three major fresh water bodies of Guwahati city, Assam, India	<i>International journal of basic and applied research</i> , 2018 , 8, 839-49.
	Antioxidant-activity and physico-chemical indices of the rice beer used by the Bodo community in North-East India	<i>Journal of the ASBC</i> 2018 , 76, 112-116.
	A quick micelle catalyzed one-pot synthesis of spiro[indoline-3,4'-pyrano[2,3- <i>c</i>]pyrazoles] in water at room temperature	<i>ChemistrySelect</i> 2018 , 3, 1512-1516.
	2-Phenyl-2,3-dihydrobenzo[<i>d</i>]thiazole: A Mild, Efficient, and Highly Active in situ Generated Chemoselective Reducing Agent for the One-Pot Synthesis of 5-Monoalkylbarbiturates in Water	<i>Synlett</i> 2018 , 29, 477-482.
	A Quick, Simple and Clean Synthesis of Spiro[indoline-3,4'-pyrazolo[4',3':5,6]pyrido[2,3- <i>d</i>]pyrimidines] in Water through a Novel One-pot Multicomponent Reaction	<i>ChemistrySelect</i> 2017 , 2, 5701 – 5706.
	L-Proline-Catalysed One-Pot Regio- and Diastereoselective Synthesis of Spiro[2,3- <i>d</i>]pyrimidin-2-amines-6,5'-pyrimidines] in Water	<i>SynOpen</i> 2017 , 1, 45-49.
	An Expeditious Synthesis of 2,3-dihydroquinazolin-4(1H)-ones in Aqueous Medium Using Thiamine Hydrochloride (VB1) as a Mild, Efficient and Reusable Organocatalyst	<i>Synthetic Communications</i> 2017 , 47, 1601–1609.
	Evaluation of Anticancer and Antimicrobial Activity of	<i>Journal of Biologically Active</i>

	Arborinine from <i>Glycosmis pentaphylla</i>	<i>Products from Nature</i> , 2017 , 7, 131-139.
	Single crystal X-ray diffraction in structure elucidation of arborinine from <i>Glycosmis pentaphylla</i>	<i>The Natural Products Journal</i> , 2017 , 7, 1-7.
	Metal profile of traditional alcoholic beverages prepared by the ethnic communities of Assam, India	<i>Journal of the Institute of Brewing</i> 2017 , 123, 289-295.
	A new, convenient and expeditious synthesis of 4-alkyl-5-methyl-1 <i>H</i> -pyrazol-3-ols in water through a multicomponent reaction	<i>Tetrahedron Letters</i> , 2017 , 58, 566-569.
	Synthesis of β -aminocarbonyl and β -aminonitrile compounds catalyzed by water extract of <i>Musa balbisiana</i> (Colla) via aza-Michael reaction	<i>Asian Journal of Organic & Medicinal Chemistry</i> 2017 , 2, 138-142.
Prof. B. K. Das	Dimeric copper(II) carboxylates as catalysts in the selective epoxidation of styrene.	<i>Polyhedron</i> 2018 , 155, 351-358.
	Oxidation of DPM Catalyzed by Complexes of the type $[\text{Cu}_2(\mu\text{-O}_2\text{CR})_4(4\text{-CNpy})_2]$.	<i>Journal of the Indian Chemical Society</i> 2018 , 95, 707-712.
	Study of distorted octahedral structure in 3d transition metal complexes using XAFS.	<i>Chemical Physics Letters</i> 2018 , 692, 382-387.
	Photocatalytic Degradation of Organic Dyes by Nanostructured Cobalt Oxides under UV-light.	<i>Chemical Science Transactions</i> 2018 , 7, 112-118.
	Controlled synth. of α - and γ - Fe_2O_3 nanoparticles via thermolysis of PVA gels and studies on α - Fe_2O_3 catal. styrene epoxidation.	<i>Journal of Saudi Chemical Society</i> 2017 , 21, S170-S178.
Prof. D. K. Kakati	Investigation of pH sensitive swelling and curcumin release behavior of Chitglc-hydrogel	<i>Journal of Polymer and Environment</i> 2018 . doi/10.1007/s10924-018-1272-x
	Alkyds from red-silk cotton (<i>Bombax ceiba</i>) seed oil and investigation on their microbial degradation	<i>Progress in Organic Coating</i> 2018 , 124,71-79
Prof. C. Medhi	Quantum mechanical studies on the existence of AC mismatches through prototopic tautomerization pathway in adenine and cytosine recognition.	<i>Journal of Theoretical and Computational Chemistry</i> 2017 , 16, 1750027.
	Design, Synthesis and Preliminary Pharmacological Screening (antimicrobial, analgesic and anti-inflammatory activity) of Some Novel Quinazoline Derivatives.	<i>Journal of Applied Pharmaceutical Science</i> 2017 , 7, 083-096.
	.Comparison of donor-acceptor properties of N-heterocyclic rings in Ruthenium complexes by quantum mechanical calculations.	<i>Int. J. of Current Research</i> 2018 , 10, 72212-72217.
	The Effect Of Proton And Water Molecule On Watson Crick Hydrogen Bonds And The Formation Of Cytosine(C)-Thymine(T) Base Pairs.	<i>Int. J of Research in Engineering and Science (IJRES)</i> , 2018 , 6, 54-65.
	Structure and Selectivity of binding sites in HIV protein by 6-aminoquinolines. Molecules: Docking and Molecular Mechanics studies.	<i>Asian Journal of Science and Technology</i> (In Press), 2018 .
	Is Guanine(G) tautomer interaction responsible for the existence of GG mismatches? A quantum mechanical studies on G tautomer combination.	<i>Int. J. of Innovative Research and Advanced Studies (In Press)</i> , 2018 .
	Electronic Properties of Ruthenium complexes having Vinyl imidazole ligand.	<i>Int. J. of Current Research (in press)</i> , 2018 .

Prof. A. K. Talukdar	Vanadia loaded hierarchical ZSM-5 zeolite: a promising catalyst for epoxidation of cyclohexene under solvent free condition	<i>Journal of Porous Materials</i> 2017 , 23, 1143–1154.
	Effective Removal of Cr(VI) From Aqueous Solution By Diamino-Functionalised mesoporous MCM-48 And Selective Oxidation of Cyclohexene And Ethylbenzene Over The Cr Containing Spent Adsorbent.	<i>Journal of Environmental Chemical Engineering</i> 2017 , 5, 4707–4715.
	Removal of Cu(II) and Pb(II) from aqueous solution using nanoporous materials.	<i>Russian Journal of Physical Chemistry A</i> 2018 , 29, 976–983.
	Facile Synthesis of Titanium-Loaded MCM-48 as an Efficient Heterogeneous Catalyst for Selective Oxidation of Aniline to Azoxybenzene.	<i>Chemistry Select</i> 2017 , 2, 8983–8989.
Prof. P. Phukan	Cu-doped CoFe ₂ O ₄ nanoparticles as magnetically recoverable catalyst for C-N cross-coupling reaction.	<i>Catal. Commun.</i> 2018 , 109, 38–42
	Copper-Catalyzed Stereoselective Domino Synthesis of (Z)-3-Methyleneisindolin-1-one.	<i>ChemistrySelect</i> 2018 , 3, 2474–2478
	Condensation product of 2-hydroxy-1-naphthaldehyde and 2-aminophenol: Selective fluorescent sensor for Al ³⁺ ion and fabrication of paper strip sensor for Al ³⁺ ion.	<i>Inorg. Chim. Acta</i> 2018 , 469, 202–208
	Sulfonic Acid Functionalized Activated Carbon Made from Tea Leaves as Green Catalyst for Synthesis of 2-Substituted Benzimidazole and Benzothiazole.	<i>Res. Chem. Intermediat.</i> 2018 , 44, 1597–1615
	Metal-free synthesis of secondary amines by the reaction of tosyl triazene and aryl boronic acid.	<i>Synth. Commun.</i> 2018 , 48, 656–662
	CuI catalyzed sulfamidation of arylboronic acid using TsNBr ₂ at room temperature.	<i>Tetrahedron Lett.</i> 2017 , 58, 4855–4858
	CoFe ₂ O ₄ -SiO ₂ -SO ₃ H Nano Composite as a Magnetically Recoverable Catalyst for Oxidative Bromination of Alkynes.	<i>Synth. Commun.</i> 2017 , 47, 2330–2341
Prof. D. K. Das	Nickelhexacyanoferrate modified Glassy Carbon electrode as voltammetric and electrochemical impedance spectroscopic sensor for thiocyanate ion.	<i>Chemistry Select</i> 2018 , 3, 481–485.
	Condensation product of 2-hydroxy-1-naphthaldehyde and 2-aminophenol: Selective fluorescent sensor for Al ³⁺ ion.	<i>Inorg. Chim. Acta</i> 2017 , 469, 202–208.
	Schiff base modified Pt electrode as sensor for Al(III) and Pb(II)	<i>Indian J Chemistry A</i> 2017 , 56A, 832–837.
	2-Hydroxyacetophenone and ethylenediamine condensed Schiff base: Fluorescent sensor for Al ³⁺ and PO ₄ ³⁻ , biological cell imaging and INHIBIT logic gate	<i>Inorg. Chim. Acta</i> 2017 , 462, 167–173
	Voltammetric distinction between dopamine and ascorbic acid using bare Platinum disc electrode catalysed by bisethylenediaminecopper(II).	<i>Indian J. Chem. Tech.</i> 2017 , 24, 102–106.

Dr. R. J. Sarma	Mechano-Luminescent Behavior of a Pyridine-Containing Anthracene Derivative: Role of Aromatic Stacking Interactions	<i>Cryst. Growth Des.</i> 2018 , 18, 4963–4970.
	Cooperative Binding of Fluoride Anions to a Flexible Cystine-Based Receptor Containing Two 3,5-Dinitrobenzamide Motifs	<i>ChemistrySelect</i> , 2018 , 3, 5786–5791
	Naphthalimide-Containing Isomeric Urea Derivatives: Mechanoluminescence and Fluoride Recognition	<i>ChemPhotoChem</i> 2017 , 1, 524 – 531
	Synthesis of Cu-Cr diketo, sublimable, eutectic composite complex, rod crystals from LDH as suitable MOCVD precursor of CuCr ₂ O ₄ catalysts upon ceramic preforms for N ₂ O decomposition	<i>Materials Today Chemistry</i> 2018 , 7, 40-52.
Dr S. K. Gogoi	Facile Synthesis of Photoluminescent Graphitic Carbon Nitride Quantum Dots for Hg²⁺ Detection and Room Temperature Phosphorescence	<i>ACS Sustainable Chem. Eng.</i> 2018 , 6, 1732-1743.
Dr D. Mahanta	One-Step Preparation of Freestanding Polypyrrole Films at Air-Water Interface	<i>Chemistry Select</i> 2017 , 2, 9930 – 9933
Dr R. Thakuria	Mechanochemical Synthesis of Olanzapine Salts and Their Hydration Stability Study Using Powder X-Ray Diffraction.	<i>Cryst. Growth Des.</i> 2018 , 18, 2138–2150.
	Drug-drug and drug-nutraceutical cocrystal/ salt as alternative medicine for combination therapy: A Crystal Engineering approach.	<i>Crystals</i> 2018 , 8, 101 .
	First-line antituberculosis drug Pyrazinamide: Its pharmaceutically relevant salt and cocrystals.	<i>Acta Cryst B</i> 2017 , 73, 1007–1016. (Most read article)
	Open Flask, Clean and Practical Protocol for Diastereoselective Syntheses of Oxindole Containing Phosphinoyl Compounds under Catalyst-Free and Solvent-Free Conditions.	<i>Chemistry Select</i> 2018 , 3, 3221-3224.
	Efficient Access to Imidazo[1,2- <i>a</i>]pyridines-/pyrazines/pyrimidines via Catalyst-Free Annulation Reaction under Microwave Irradiation in Green Solvent.	<i>ACS Comb. Sci.</i> 2018 , 20, 164-171.
	I ₂ /TBHP/cyclohexanone a novel catalyst system for the oxidative dearomatization of indoles to indolin-3-ones at room temperature under solvent-free condition.	<i>Catalysis Communications</i> 2018 , 106, 68–72.
Dr D. Kalita	Charge Injection and Hopping Transport in bridged-dithiophene-Triazole-bridged-dithiophene (DT-Tr-DT) Conducting Oligomers: A DFT Approach,	<i>Computational and theoretical Chemistry</i> , 2018 , 1132, 42–49.

	Novel Isophthalohydrazide-cDB24C8 cryptand derivative for the selective recognition of fluoride ion: An experimental and DFT study	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> 2018 , 204, 225-231.
	Narrowing the band gap of graphitic carbon nitride sheet by coupling organic moieties: A DFT Approach	<i>Chem. Phys. Lett.</i> 2018 , 707, 101-107.
Dr. S. Ghosh	Synthesis, characterization, and cytotoxic properties of mono- and di-nuclear cobalt(II)-polypyridyl complexes	<i>Dalton Trans.</i> 2018 , 47, 5755
Dr. N. Nath	Insight into old and new pure shift nuclear magnetic resonance methods for enantiodiscrimination	<i>Magn. Reson. Chem.</i> 2018 , 1–17.
Dr. B. Banik	Core Hydrophobicity Tuning of a Self Assembled Particle Results in Efficient Lipid Reduction and Favorable Organ Distribution	<i>Nanoscale</i> 2018 , 10, 366-377

f) Details of book/chapter published during the period :

Name of the faculty	Title of the Book(s)/Chapter	Date of publications
Prof. D. K. Kakati	Advances in Experimental Medicine and Biology 1052: Encapsulation of theophylline in gelatin A-pectin complex coacervates.	Nature Springer. 2018
Prof. A. K. Talukdar	Moula Abishkarar Rsal Kahini (Interesting Story of Discovery of Elements)	2017
Prof. A. K. Talukdar	Career in Chemistry and Future of Chemistry (Book Chapter)	2017
Dr. R. Thakuria	Hydrogen Bonding in Molecular Crystals. (Book Chapter)	Comprehensive Supramolecular Chemistry, 2 nd Edition, 2017, vol. 7, pp. 25–48.
Dr. R. Thakuria	Crystal Polymorphism in Pharmaceutical Science. (Book Chapter)	Comprehensive Supramolecular Chemistry, 2 nd Edition, 2017, vol. 5, pp. 283–309.

33. Placement record during the period (Please state briefly):

More than 50% students were placed at various research positions and regular jobs as per information available with us.

34. Placement services provided to students by the Department/Centre, if any:

Department provides information and helps the students in getting placements in several industries particularly the cement industries of North east region.

30. Is there any Student Counseling Unit in the Department/Centre ? If yes state activities during the period under report:

There is a student counseling and placement cell in the department, with Prof. B. K. Das as the Chairman, and Prof. D. K. Das as the Coordinator.

31. Departmental Library :

a)	No. of Books as on 31.03.2017	1050 (approx.)
b)	New Books procured during the period	85
c)	No. of Journals as on 31.03.2017	5 in regular subscription
d)	New Journals procured during the period	Do
e)	No. of users during the period :	All students and faculties.

32. Departmental publications: **NIL**33. Activities and support from the Alumni Association of the Department/Centre : **NIL**

34. Activities and support from the Parent-Teacher Associations if any: Parent-teacher interaction forum is formed. Prof. B. K. Das is currently the Chairman, and Dr N. Nath is the Coordinator. The first meeting was held on 28-October-2017 in the Department premises.

35. Involvement in Community services: Department provides expert services in analyzing the potable water qualities brought by different NGOs for analysis.

36. Provision for financial aid to students in the Department/Centre, if any: NIL

37. Provision for student assessment of teachers. If such provisions exist, the courses in which student assessment is obtained and action taken on this feedback may please be stated: It is done centrally by IQAC in university.

38. Information on up to five Good Practices followed by the Department/Centre:

- Remedial classes are organized regularly; Special orientation sessions are held for the benefit of the M.Sc. students
- Mentoring of students
- Facilitate students to take part in summer training programs, in prestigious institutes including IISc Bangalore, IITs and CSIR Laboratories.
- Provision of book banks
- Invitation of eminent scientists from different institutes for motivation and interactions.

39. Detail the plans of the Department/Centre/Institute for the next year :

- Department proposes to introduce CBCS program in the Post Graduate Diploma in Analytical Chemistry (PGDAC) course.
- Department plans to initiate a collaborative research program, and students exchange program with Mangalore University, Karnataka.
- Department has proposed a three months certificate course on handling of sophisticated analytical instruments.

Head, Dept. of Chemistry

**ANNUAL REPORT : DEPARTMENT OF ENVIRONMENTAL SCIENCE
GAUHATI UNIVERSITY (FOR THE PERIOD APRIL 2017 TO MARCH 2018)**

- Name of the Department: ENVIRONMENTAL SCIENCE
 - Year of establishment : 1980
- Head of the Department : Prof. Hari Prasad Sarma
- Details of academic staff :

Sl. No.	Name of the teacher	Designation (Professor/Associate Prof./Asst. Professor)	Full Time/ Contractual	Sex (Male/ Female)	Caste (Gen/ SC/ ST/OBC /DA)	Citation index
33.	Prof. Hari Prasad Sarma	Professor	Full Time (on lien)	Male	Gen	
34.	Dr. Pallavi Sharma	Assistant Professor	Full Time	Female	Gen	
35.	Dr. Minakshi Bora	Assistant Professor	Contractual	Female	OBC	

- Course(s)/Programme offered: M.Sc., Ph.D.
- Special Branches in the Department/Centre: Environmental Pollution & Environmental Hazard
- New Academic Programme initiated during the period under report: None
- Innovation in Curricular design:
- Inter disciplinary Programme started: Both M.Sc. & Ph.D. courses are interdisciplinary
- Department/Centre under : SAP/COSIST(ASSIST)/DST/FIST: **No**
- Total number of Research Scholar working at present:

a) Full Time: 8	b) Part time:
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11. Enrolment of Students in various courses (April 2017- March 2018) :

Enrollment of Students in Various Courses (April 2017 - March 2018):																				
Courses	Sem	Intake Capaci ty	No. Admitted			S.C.			S.T(P)			S.T.(H)			OBC/MO BC			Differen tly abled		
			M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Post- Graduate	1 st																			
	2 nd	15	7	8	15	1	-	1	-	1	1	1	-	1	2	-	2	-	-	-
	3 rd																			
	4 th	15	10	5	15	-	1	1	2	-	2	1	-	1	3	1	4	-	-	-

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12. Teacher-Student and Teacher- Non-teaching staff Ratio:

No. of Teacher	No. of student	No. of Non-teaching staff
3	30	7
Teacher/Student Ratio		Teacher-Non-teaching Staff Ratio
1:10		1: 2.3

13. Final Examination result during the session 2017-18:

(a) No. Appeared

Subject	Total Appeared			S.C.			S.T(P)			S.T.(H)			OBC/MOB C			Differently abled		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
	6	5	11	-	1	1	-	-	-	-	1	1	-	2	2	-	-	-

(b) No. Passed

Subject	Total Passed			S.C.			S.T(P)			S.T.(H)			OBC/MOB C			Differently abled		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
	6	5	11	-	1	1	-	-	-	-	1	1	-	2	2	-	-	-

14. Details of Ph.D. awarded (2017-18):

Name of the Ph.D. Scholars	Title of the Ph.D. thesis	Guide
Karishma Baishya	A study on the Impact of Selected Organophosphorus Pesticides on the Soil Quality of Different Land-Uses of Dimoria Tribal Development Block, Assam	Prof. H.P. Sarma
Jaideep Baruah	Environmental Impact of open cast coal Mining in Ledo-Margherita range of Assam with special reference to water and soil Quality	Prof. S. Kalita
Minakshi Bora	A geo-environmental study for restoration of Kolong river in Nagaon and Morigaon districts of Assam	Prof. D.C. Goswami
Hupesh Choudhury	A study on Mesoscale Convective Systems (MCSs) over Northeast India and its adjoining Region.	Prof. S. Kalita

15. Number of students qualified in:

NET(JRF)	NET	SLET	GATE	Any others
	1			

16. Important students' activities and achievements and awards during the period (Please state briefly)

17. Seminar/Summer School/Workshop conducted during the period 2017-18:

Sl.No.	Name of the Coordinator	Name of the Seminar/Summer School/ Workshop/ Refresher Course	Date	Sponsorship

18. Honours/Awards/Fellowship (with National/International repute) earned by the Faculty members (2017-18) :

Name of the Faculty	Name of the Award/Fellowship	Conferring agency

19. Visit abroad by the Faculty members (2017-18) :

Name of the Faculty	Institute visited	Purpose	Period

20.(a) Sponsored Research Project (2017-18):

Name of the Principal Investigator	Title of the Project	Funding Agency	Duration	Amount(Rs.)

(b) Patent Generated:

Sl No.	Name of the Faculty	Patent Generated	Remarks

21. Academic distinction earned by the students during (2017-18):

Sl.No.	Name of Examination/Programme	Name of the student	Position held

22. Distinguish visitors to the Department during the period 2017-18:

Name of visitors	Address & Designation	Purpose of visit

35. Creation /Increase in infrastructural facilities in the Department/Centre during the period 2017-18:

36. Provisions for (a) computer access (b) internet access and (c) training to teachers, non-teaching staff and students of the Department/Centre: 15 nos. of computers with LAN connections across all rooms are available in the Department.

37. Technology up gradation in the Department/Centre during the period 2017-18:

38. Linkages developed with National/International/Academic/Research Bodies:

39. Academic activities of Faculty members during the period of report (2017-18):

a) Seminar/Conferences/ Workshops attended/presented paper by the faculty during the period:

Name of the faculty(s)	No. of Seminar	No. of Workshops

b) Name of the teacher(s) acted as resource person(s) during the period (state briefly)

c) Refresher Course/ Orientation Course attended by the teachers during the period:

Name of the faculty	Refresher Course	Orientation Course
Dr. Pallavi Sharma		1

d) Details of paper published in the Referred journals during the period:

Name of the faculty	Title of the paper	Name of the journal with Vol. No. & Date

e) Paper published in other journals during the period (only those considered for API Score).

Name of the faculty	Title of the paper	Name of the Journals with Vol. No. & Date
Dr. Minakshi Bora	Water quality assessment in terms of water quality index (WQI): case study of the Kolong River, Assam, India	Applied Water Science, Vol. 7(6); 2017
Dr. Minakshi Bora	Channel morphology and hydraulic geometry of River Kolong, Nagaon, Assam, India: a study from the standpoint of river restoration.	Current Science, vol. 113(4), 2017

f) Details of book published during the period:

Name of the faculty	Title of the Book(s)	Date of publications

40. Placement record during the period (Please state briefly): Few students passing out from the department have joined research organizations for further studies and some have joined private establishments in the relevant environmental sector.

41. Placement services provided to students by the Department/Centre, if any: None

30. Is there any Student Counseling Unit in the Department/Centre? If yes state activities during the period under report.

31. Departmental Library:

a)	No. of Books as on 31.03.2018	911
b)	New Books procured during the period	-
c)	No. of Journals as on 31.03.2018	-
d)	New Journals procured during the period	-
e)	No. of users during the period :	50

32. Departmental publications:

33. Activities and support from the Alumni Association of the Department/Centre:

34. Activities and support from the Parent-Teacher Associations if any:

35. Involvement in Community services:

36. Provision for financial aid to students in the Department/Centre, if any: Institutional Fee Waiver provided to 2 nos. of student.

37. Provision for student assessment of teachers. If such provisions exist, the courses in which student assessment is obtained and action taken on this feedback may please be stated.

38. Information on up to five Good Practices followed by the Department/Centre:

- Students' academic performances are being assessed with innovative methods which includes unit based tests and practical class assessments. MCQ based papers are being set for internal assessment.
- Seminar presentation by students have been made mandatory for developing their communication skills.
- Mentor-Mentee scheme is being introduced and follow up action taken up.
- DAC reviews the infrastructural requirement regularly to meet up the needs of students, teachers and staff members.
- Cleanliness of the department is thoroughly monitored by every member of the department.

39. Detail the plans of the Department/Centre/Institute for the next year:

The department plans to set up an Environmental Earth Science lab in the old departmental campus near the Botany Department by the next financial year. The department also has plans for forming the departmental Alumni Association at the earliest.

Head, Dept. of Environmental Science

**ANNUAL REPORT : DEPARTMENT OF GEOGRAPHY
GAUHATI UNIVERSITY (FOR THE PERIOD APRIL 2017 TO MARCH 2018)**

1. a. Name of the Department : Geography
 b. Year of Establishment : 1949
 2. Head of the Department : Prof. Anup Saikia
 3. Details of Academic Staff :

Sl. No.	Name of the Teacher	Qualification	Specialization	Sex (Male/Female)	Caste (Gen/SC/ST/OBC/Ph)	Career status (Prof/Associate Prof/Asst. Prof)	Full/Part time
1.	Dr. A.K. Bhagabati	M.A., M.Phil, Ph. D.	Agricultural Geography & Environmental Geography	Male	Gen	Professor	Full Time
2.	Dr. A.K. Bora	M.Sc, Ph.D.	Geomorphology, Fluvial Geomorphology & Remote Sensing	Male	Gen	Professor	Full Time
3.	Dr. B.K. Kar	M.Sc, Ph.D.	Population Geography & Cartography	Male	Gen	Professor	Full Time
4.	Dr. A. Saikia	M.A., M.Phil, Ph.D	Geoinformatics, Land Change Science, Climate Change and Protected Areas	Male	Gen	Professor	Full Time
5.	Dr. M. Das	M.A., M.Phil, Ph.D.	Social Geography Tribal Studies	Female	Gen	Professor	Full Time
6.	Dr. D. Sahariah	M.A., M.Phil, Ph.D.	Geomorphology, GIS and Remote Sensing	Male	Gen	Associate Professor	Full Time
7.	Dr. P. Bhattacharya	M.Sc, Ph. D.	Cartography Geography of Tourism	Male	Gen	Associate Professor	Full Time
8.	Dr. U.D. Baruah	M.Sc Ph.D.	Cartography, Climate Change,	Male	ST(P)	Assistant Professor	Full Time

			Glaciology				
9.	Dr. N. Deka	M.A., M.Phil, Ph.D.	Fluvial Geomorphology Agroecosystem and PRA	Male	Gen	Assistant Professor	Full Time
10.	Dr. M. J. Nath	M.A., Ph.D.	Population Geography, Medical Geography	Male	Gen	Assistant Professor	Full Time
11.	S.P. Sharma	M.Sc.	Regional Planning and Remote Sensing	Male	Gen	Associate Professor	Guest Teacher
12.	Dr. R. Barman	M.Sc. Ph.D.	Cartography & Fluvial Geomorphology	Male	Gen	Professor	Guest Teacher
13.	Dr. A. C. Mohapatra	M.A., M.Phil, Ph.D.	Regional development & Planning, Theory	Male	Gen	Professor	Visiting Professor

4. Courses/Programme offered : **M.A./M.Sc., M.Phil., Ph.D.**
5. Special Branches in the Department/Centre : **Cartography, Fluvial Geomorphology, Social Geography, Geoinformatics, Regional Development and Planning, Geography of Rural Development**
6. New Academic Programme initiated during the period under report: **Proposal Submitted**
7. Innovation in Curricular design : **Syllabus revised (2016)**
8. Inter disciplinary Programmes started: -
9. Department/Centre under : SAP/COSSIST(ASSIST)/DST/FIST : **SAP-III (2013-2018)**
10. Total number of Research Scholars working at present:

a. Full Time	b. Part time
11	09

11. Enrolment of students in the various courses (April 2017 – March 2018):

	Sem	Intake Capacity	No. admitted			S.C.			S.T.(P)			S.T.(H)			OBC/MOBC			P.H.		
			M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
	1 st	40	11	29	40	1	1	2	2	3	5	0	2	2	6	9	15	1	0	1
	2 nd																			
	3 rd	40	11	29	40	0	2	2	0	3	3	0	3	3	1	5	6	1	0	1
	4 th																			
M.Phil.		12	3	9	12	0	2	2	0	0	0	0	1	1	1	2	3			
Ph.D.			1	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Others																				

12. Teacher- student Teacher-Non-teaching staff ratio

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No. of Teachers		No. of students		T/S Ratio	
Name of the Awardee		Title of Ph.D. Thesis		Time of Award	Supervisor
10		80 (P.G.) + 12 (M. Phil)		1 : 9.2	
Teacher/Students Ratio			Teacher-Non-Teaching Staff		
1: 9.2			1: 1.2		

13. Final Examination result during the session 2017- 2018:

(a) No. Appeared 38

Subject	Total Appeared			S.C.			S.T.(P)			S.T.(H)			OBC/MO BC			P.H.		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Geography	14	24	38	1	3	4	2	4	6	2	1	3	2	7	9	1	0	1

(b) No. of Candidates Passed : 37

Subject	Total Appeared			S.C.			S.T.(P)			S.T.(H)			OBC/MOB C			P.H.		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Geography	14	24	38	1	3	4	2	4	6	2	1	3	2	7	9	1	0	1

14. Details of Ph. D. awarded (2017 – 2018) :

1.Nilotpal Kalita	Flood Erosion and Bed Aggradation in the Belsiri River of Assam, India	April, 2017	Prof. A. K. Bora Dr. R. Sarmah
2.Monjit Borthakur	The Heat is on : Estimating the Urban Heat Island Effect in Greater Guwahati Area, Assam	May, 2017	Prof. Anup Saikia
3.Pallabi Borah	The river and a city: Changing geography of Guwahati on the bank of Brahmaputra	June 2017	Prof. A. K. Bhagabati
4.Jyoti Prasad Das	Changing wetland environment and its impact on socio-economic condition of wetland dependent communities in Nalbari district, Assam	July 2017	Dr. P. Sharma
5.Juthika Mahanta	Tourism and associated developments in and around Nilachal Kamakhya: a geographical analysis.	July 2017	Dr. B. C. Kalita
6.Purabi Hazarika	Flow variability ,channel changes and associated hazards of Noa-Mangaldoi river system, Assam	August 2017	Prof. A. K. Bora
7.Junmoni Dutta	Role of airports of Assam in the economy, society and culture of their surrounding areas : a geographical analysis	September 2017	Dr. P. Sharma
8.Dhrubajyoti Rajbangshi	Land use and land cover change and growing drainage sewerage problems of Guwahati city: a study on urban geomorphology	November 2017	Prof. A. K. Bora
9.Dhananjoy Medhi	Forest-land encroachment in Goalpara district, Assam : a study of its dimensions causes and consequences	December 2017	Prof. B. K. Kar
10.Ashis Saha	Emerging cross - Border trade relations and changing economy of North-east India	December 2017	Prof. M. Das
11.Arzufa Khanom	Channel dynamics, fluvio-geomorphic hazards and human responses in the charlands of the lower reach of the Brahmaputra river in Assam	March 2018	Prof. A. K. Bora
12.Trishna Changkakati	Variability of the Normalized Difference Vegetation Index in relation to climatic attributes and institutional structures in North-east India.	March 2018	Prof. A. Saikia

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13.Sibani Basumatary	Education ,occupation and health status in Bodoland territorial areas district (BTAD), Assam: A socio- spatial analysis	March 2018	Prof. B. K. Kar
14.Swarup Jyoti Baishya	Natural hazard vulnerability assessment and management in the Baralia-nona basin, Assam.	March 2018	Dr. D. J. Sahariah

15. Number of students qualified in : (April 2017 – March 2018) :

NET(JRF)	NET	SLET	GATE	Any Others
1	10	7		

16. Important students activities and achievements and awards during the period (please state briefly)

Ms. Suli Yohana Ayemi, a student of this Department, received Professor H.P. Das Memorial Award for securing 1st Position in the M.A/M.Sc. Final Exam, 2017

17. Seminar/Summer School/Workshop conducted during the period 2017-18

Sl. No.	Name of the Co-ordinator	Name of the Seminar/Summer School/Workshop/Refresher Course	Date	Sponsorship
1.	Dr. U. D. Baruah	“Application of Methods and Techniques in Contemporary Research”	September 22-23rd, 2017.	

18. Honours /Awards/Fellowship (with National/ International repute) earned by the Faculty Members (2017-2018) : NIL

19. Visits abroad by the Faculty member (2017-2018):

Name of the Faculty	Institute visited	Purpose	Period
Prof. M. Das	Boston, USA	Presented paper on Witch Hunting –A Heinous Social Crime of Assam, India, as part of session titled” Cultural Geographies” on 07/04/2017 in Boston, USA at the 2017 Annual Meeting of the American Association of Geographers	07.04.2017
	Sydney, Australia	Visited different Universities of Sydney and Canberra as a part of the team from Gauhati University to establish academic collaboration and linkages, 2017. Probable collaboration with University of New South Wales and Canberra University	Nov. 25 th -30 th , 2017

20. (a) Sponsored Research Project (2017-2018):

Name of the Principal Investigator	Title of the Project	Funding Agency	Duration	Amount(Rs.)
Prof. M. Das	Continuity and change among the Buddhist Tai Communities of Assam	UGC	2013-2016 (under extn.)	12.05 lakhs

(c) Patents Generated

Sl. No.	Name of the Faculty	Patent Generated	Remarks
-	nil	nil	

21. Academic distinction earned by the students during 2017- 2018

Sl. No.	Name of Examination/Programme	Name of student	Position held
	a. In the P.G. level Examination	Ms. Suli Yohana Ayemi	Ist Class 1 st
	b. No of students passed UGC-CSIR Exam. (NET) (2017-2018)	10	
	c. No. of students passed GATE	-	
	d. No. of students passed Indian Civil Service Examination	-	
	e. No. of students passed GRE	-	

	f. No. of students passed TOEFL	-	
	g. No of students passed GMAT	-	
	h. Any other (Specify), Assam Civil Service Examination	-	

22. Distinguished Visitors to the Department during the year 2017-2018

Name of visitors	Address & Designation	Purpose of visit
Dr. Santonu Goswami	Scientist, Earth and Climate Sciences NRSC, ISRO	Delivered a lecture on India's mission to Antarctica.

23. Creation/ Increase in infrastructural facilities in the Department/Centre during the period 2017-18 : **No**
 24. Provisions for (a) computer access (b) internet access and (c) training to teachers, non-teacher staff and students of the Department/Centre : **Yes**

25. Technology upgradation in the Department/Centre during the period 2017-18 : -

26. Linkages developed with national/International/Academic/Research Bodies : -

27. Academic activities of Faculty members during the period of report (2017-18)

(a) Seminar/Workshops attended/Presented papers by the faculty during the period:

Name of the faculty(s)	No. of Seminars	No. of Workshops
Dr. A. K. Bhagabati	3	4
Dr. Ashok K. Bora		1
Dr. B. K. Kar	3	1
Dr. A. Saikia	1	1
Dr. M. Das	5	-
Dr. D. Sahariah	3	2
Dr. P. Bhattacharya	2	-
Dr. U. Deka Baruah	1	1
Dr. N. Deka	3	1
Dr. M. J. Nath	1	-

b) Name of the teacher(s) acted as resource person(s) during the period (state briefly)

Name of the Faculty	Institution name
Dr. A.K. Bhagabati	Geographical Society of India, Calcutta University, K. K. Handique Open State University Guwahati, Garhgaon College, Sibsagar B. Borooah College
Dr. A. K. Bora	B. Borooah College, USTM, UGC HRD Centre G.U., Sonapur College
Dr. B.K. Kar	B. Borooah College, UGC HRD Centre G.U., Bajali College,
Dr. A. Saikia	University of Science & Technology, Meghalaya, UGC HRD Centre G.U., Computer Science G.U.
Dr. M. Das	B. Borooah College, Sonapur College, Bajali College, Cotton College
Dr. D. Sahariah	B. Borooah College, Nalbari College, Arya College, Assam Science Society
Dr. P. Bhattacharya	B. Borooah College
Dr. N. Deka	Assam Science Society
Dr. M. J. Nath	Darrang College

(c) Refresher Course/Orientation Course attended by the teachers during the period : Nil

(d) Details of papers published in the Referred Journals during the period : (April 2017 – March 2018) :

Name of the faculty	Title of the Paper	Name of the Journal with Vol. No. & Date
Dr. Ashok K. Bora	1. Geophysical changes of wetland resources and their management in Nonoï watershed Assam,	<i>Transactions of the Inst of Indian Geographers</i> , Vol.39, No.2, pp-223-236. (Co-authored)
Dr. Anup Saikia	1. Unplanned urban growth: land use/land cover change in the Guwahati Metropolitan Area, India.	<i>Geografisk Tidsskrift - Danish Journal of Geography</i> 118(1): 88-100 (Co-authored)
	2. A global reference database of crowd sourced cropland data collected using the Geo-Wiki platform (Co-authored),	<i>Scientific Data</i> 4: sdata 2017136, DOI:10.1038/sdata.2017.136 (Co-authored)
Dr. M. Das	1. Crime Against Women in Brahmaputra Valley,	<i>Transactions of the Inst of Indian Geographers</i> , 39(1):47-57 (2017) (Co-

		authored)
Dr. D. Sahariah	1.A global reference database of crowd sourced cropland data collected using the Geo-Wiki platform (Co-authored)	Scientific Data 4,170136. DOI:10.1038/sdata.2017.136 (Co-authored)

(e) Papers published in other journals during the period (only those considered for API score)
Included in the above list.

Name of the faculty	Title of the Paper	Name of the Journal with Vol. No. & Date
Dr. A. K. Bhagabati	1.Dynamics of Agroecosystems in the Brahmaputra Valley, Assam (India),	<i>Journal of Agroforestry and Environment</i> , Agroforestry Society of Bangladesh, 11, 1 & 2. (Co-authored)
	2.Natural Resources in a Village Environment of Brahmaputra Floodplain, in Thakur, B. et al. (ed),	<i>Regional Development: Theory and Practices</i> , Concept Publishing Company, New Delhi.
	4.Wetlands: Dying Ecosystems in a Degraded Environment,	<i>North-Eastern Geographer</i> , Vol.39, No 1 and 2, 2016-18
Dr. Ashok K. Bora	1.Water resources : Its potential and utilization in rural landscape of Nonoi watershed, Assam.	<i>Jl. of NE India Council for Social Science Research</i> , 41 (1&2):41-43
	2.Analysis of Landuse/Landcover in Dhemaji district of Assam using IRS LISS-III data,	<i>Asian Journal of Research in Social Sciences and Humanities</i> , Vol.7 No. 7
	3.Impact of Landuse/Landcover changes in Guwahati city, Assam India, <i>International</i>	<i>Journal of Innovative Research in Technology</i> Vol. 4, Issue.4, ISSN : 2349-6002
	4.Geo-environmental problems in Guwahati city, Assam India,	<i>The Public: Problems and Solutions</i> , Vol.6 (2), PP.56-61
	5.Pattern of Charland Dynamics in the Lower Brahmaputra Reach in Assam,	<i>North Eastern Geographer</i> , Vol. 39, No.1& 2, ISSN : 0973-0915
Dr. Bimal K. Kar	1. Deforestation of Protected Areas: A Case Study of Sonai-Rupai Wildlife Sanctuary in Assam	<i>North Eastern Geographer</i> 39, 1 & 2, 2016-17, pp.114-123 (Co-authored).
Dr. M. Das	<i>1.Ambubachi Mela of Kamakhya Temple: Beliefs and Nature of Pilgrim Participation.</i>	<i>Geographical Review of India</i> , 78 (12), pp.181-191 (2016)
Dr. D. Sahariah	1.A study on morphometric characteristics of Jiadhal River basin using remote sensing and GIS,	<i>International Journal of Research in Management & Social Science</i> , Volume 5, Issue 3 (I): September, (2017), (Co-authored)
	2.Bank erosion and changing course of Baralia and Nona rivers of Assam,	<i>North Eastern Geographer</i> , Vol. 39, No. 1 & 2, (2017), (Co-authored)
Dr.Prasanta Bhattacharya	1.Direct Validation of TRMM/PR Near Surface Rain over the Northeastern Indian Subcontinent Using a Tipping Bucket Raingauge Network,	<i>SOLA (Scientific Online Letter on the Atmosphere)</i> Vol.13, 2017, pp. 157-162, Meteorological Society of Japan, ISSN:1349-6476,(co-authored)
	2.Stakeholder's Sustenance in Tourism Progression in Ziro Valley of Arunachal Pradesh,	<i>Erudition</i> , Vol. 1, Issue-1, 2017, pp. 20-26, ISBN: 978-93-5288-241-0, (co-authored)
	3.A checklist of exotic plants in Subankhata reserve	<i>Indian Forest</i> , Pp. 1117-1120 Vol.

	forest, Baksha district of Assam, India,	142 (11), ISSN: 0019-4816, (co-authored)
Dr. N. Deka	1.Dynamics of Agroecosystems in the Brahmaputra Valley, Assam (India),	<i>Journal of Agroforestry and Environment</i> , Agroforestry Society of Bangladesh, 11, (1 & 2). (co-authored)
	2.Diversity and Dynamics of Rural Landscapes in the Brahmaputra Floodplain, Assam,	<i>Natural Resource Management for Sustainable Development and Rural Livelihood</i> , Vol.3, Today and Tomorrow's Publ., New Delhi.

(f) Details of books published during the period : (April 2017 – March 2018):

Name of the faculty	Title of the Book(s)	Date of publications
Dr. A. K. Bhagabati	1. <i>Society and Environment</i> , EBH Publishers (India), Guwahati	2017
	2.Ganitiyo Prabandhamala, Dr. B. C. Deka (ed), published by Assam Science Society, Guwahati	2018
	3. <i>Pragya- Pathikrita Adhyapok Asraf Ali</i> , Published by S. Ali, Guwahati	2018
Dr. B. K. Kar	1. <i>Society and Development: Human Geographic Perspectives</i> , EBH Publishers (India), Guwahati, 2017, ISBN: 978-93-86302-01-4 (Jointly Edited).	2017
	2. <i>Population, Environment and Emerging Challenges</i> , Department of Geography, Gauhati University and Techno Ed, Guwahati, 2018, ISBN: 978-93-81859-53-7 (Jointly Edited).	2017
Dr. D. Sahariah	1.Lessening urban forest landscape and growing human - leopard conflictin greater Guwahati. in Patowary, B. (eds), Environment and Development, Olympia Publications, Guwahati, (Co-authored)	2017
Dr. P. Bhattacharya	1. <i>Population Environment and Emerging Challenges</i> , Organizing Committee of the 36th IIG Congress, Dept. of Geography, Guahati University in Association with Techno Ed, Guwahati, ISBN:978-93-81859-53-7, jointly edited	2018
Dr. N. Deka	1.Population growth and infiltration: related problems in Assam in Palme Borthakur, Lalit Saikia and Eahya Al Huda (eds) <i>Resources and Challenges in North East India</i> , Chandra Prakash , Panbazar, Guwahati -1, pp 184-198 (co-authored)	2018

28. Placement record during the period (Please state briefly) : **Through University**

29. Placement services provided to students by the Department/Centre, if any: **G.U. Centrally**

30. Is there any student Counseling Unit in the Department/Centre,

if yes state activities during the period under report. **No**

31. Departmental Library :

a.	No. of Books as on 31.03.2018	1974
b.	New Books procured during the period	-
c.	No. of Journals as on 31.03.2018	220 –International = 17 National = 192 Local = 11
d.	New Journals procured during the period	Nil
e.	No. of users during the period :	160

32. Departmental Publication : (in press)

33. Activities and support from the Alumni Association of the Department/Centre : **No**

34. Activities and support from the parent-Teacher associations if any : **No**

35. Involvement in Community services : **NEIGS, Assam Science Society**
36. Provision for financial aid to students in the Department/Centre, if any : **Basic Scientific Research (BSR) Fellowship of UGC to Research Scholars**
37. Provision for student assessment of teachers. If such provisions exists, the courses in which assessment is obtained and action taken of this feedback may please be stated: **Feedback taken annually**
38. Information on up to five Good Practices followed by the Department/Centre :
- The Department being the headquarters of the North East India Geographical Society (NEIGS), its faculty members are engaged in extension lecture, etc.
 - The students of the department also have a P.G. Geography students forum (since 1977) to carry out various academic activities including bringing out a wall magazine and a Journal named 'Geographical Horizon'.
 - The department also brings out a research Journal named Journal of Geography (since 1995).
 - Conducting need-based Remote Sensing & Geographical Information System training/workshop for Research Scholars, College Teachers and government officials.
 - Carrying out research work in the department with fund of UGC – SAP and individual projects.
39. Details of the plans of the Department/Centre/Institute for the next year :
Department proposes to open the following courses in near future :
 (i) PG Diploma in Remote Sensing (RS) and Geographical Information System (GIS)
 (ii) PG Diploma in Disaster management
 (iii) PG Diploma in Tourism and Leisure Studies
 Department also has a plan to build a Geography museum and a Centre for Regional Development Studies

Head, Department of Geography

ANNUAL REPORT: DEPARTMENT OF GEOLOGICAL SCIENCES GAUHATI UNIVERSITY (FOR THE PERIOD APRIL 2017 TO MARCH 2018)

4. a. Name of the Department : Geological Sciences
b. Year of establishment : 1950
2. Head of the Department : Prof. Parag Phukon
3. Details of academic staff :

Sl. No.	Name of the teacher	Designation	Full Time/ Contractual	Sex (Male/ Female)	Citation Index (h-index)
36.	Dr. Amulya Chandra Mazumdar	Professor	Full time	Male	Scopus 4 Google Scholar: 4
37.	Dr. Bhagawat Pran Duarah	Professor	Full time	Male	Scopus 3
38.	Dr. Parag Phukon	Professor	Full time	Male	Scopus 3
39.	Dr. Sarat Phukan	Professor	Full time	Male	Scopus 3 Google Scholar: 4
40.	Dr. Bikash Gogoi	Associate Professor	Full time	Male	Scopus 1 Google Scholar: 3
41.	Dr. Jayanta Jivan Laskar	Associate Professor	Full time	Male	Scopus 1
42.	Dr. Balen Bhagabaty	Associate Professor	Full time	Male	
43.	Dr. Pranjit Hazarika	Assistant Professor	Full time	Male	Scopus 6 Google Scholar: 6
44.	Dr. Surajit Misra	Assistant Professor	Full time	Male	Google Scholar: 4
45.	Dr. Runty Choudhury	Assistant Professor	Full time	Female	Scopus 3
46.	Dr. Dharendra Nath Das	Professor (Retd)	Contractual	Male	

4. Course(s)/Programme offered: M. Sc. and Ph. D.
5. Special Branches in the Department/Centre: No
6. New Academic Programme initiated during the period under report: No
7. Innovation in Curricular design:
Program Specific Objectives (PSO) and Course Objectives (CO) are added to the syllabus.
8. Inter disciplinary Programme started: No
9. Department/Centre under:
10. Total number of Research Scholar working at present: 29

a) Full Time: 21

b) Part time: 8

47. Enrolment of Students in various courses (April 2017- March 2018):

Post graduate course in Geology (M.Sc.)

Sem	Intake Capacity	No. Admitted			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			Differently abled		
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
4 th (2015-2017)	28	19	9	28	0	2	2	2	1	3	3	1	4	4	2	6	0	0	0
2 nd (2016-2018)	28	14	14	28	3	2	5	1	3	4	1	0	1	4	5	9	0	0	0
1st (2017-2019) (New enrolment)	30	20	10	30	0	1	1	4	0	4	2	1	3	8	3	11	0	0	0
3 rd (2016-2018)	28	14	14	28	3	2	5	1	3	4	1	0	1	4	5	9	0	0	0
2 nd (2017-2019)	30	20	10	30	0	1	1	4	0	4	2	1	3	8	3	11	0	0	0
4 th (2016-2018)	28	14	14	28	3	2	5	1	3	4	1	0	1	4	5	9	0	0	0

PhD in Geology

Intake Capacity	No. Admitted			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			Differently abled		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

12. Teacher-Student and Teacher- Non-teaching staff Ratio:

No. of Teacher (including Guest Teacher)	No. of student	No. of Non-teaching staff
11	60	9
Teacher/Student Ratio	Teacher-Non-teaching Staff Ratio	
0.18	1.22	

13. Final Examination result during the session 2017-18:

(a) No. Appeared

Subject	Total Appeared			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			Differently abled		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Geology	14	8	22	1		1	2	2	4	1	0	1	3	2	5	0	0	0

(b) No. Passed

Subject	Total Passed			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			P.H.		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Geology	11	8	19	1	0	1	1	2	3	1	0	1	3	2	5	0	0	0

48. Details of Ph.D. awarded (2017-18):

Name of the Ph.D. Scholars	Title of the Ph.D. thesis	Guide
1. Ms. Watinaro Imsong	Geomorphological Appraisal of Neotectonic Activities in the Shillong Plateau, Northeast India	Prof. Sarat Phukan
2. Ms. Nandita Mazumdar	Structure and stratigraphy of rocks along Bhalukpong-Tawang geo-transect, Western Arunachal Himalaya, India with special reference to anisotropy of magnetic susceptibility of Bomdila Gneiss	Prof. K. P. Sarma
3. Ms. Rupshikha Sarma	Structure, tectonic stratigraphy and magnetic susceptibility of rocks along Lohit river valley of Mishimi Block, Arunachal Himalaya, India	Prof. K. P. Sarma

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15. Number of students qualified in:

NET(JRF)	NET	SLET	GATE	Any others
1			1	

16. Important students' activities and achievements and awards during the period (Please state briefly)
Nil

17. Seminar/Summer School/Workshop conducted during the period 2017-18: 2 (Two)

Sl.No.	Name of the Co-Ordinator	Name of the Seminar/Summer School/ Workshop/ Refresher Course	Date	Sponsorship
1	Dr. Pranjit Hazarika	Workshop on 'Advanced Petrography'	June 26 to July, 2018	Self-sponsored
	Dr. Sarat Phukan	GEoinformatics for UG students		Self-sponsored

18. Honours/Awards/Fellowship (with National/International repute) earned by the Faculty members (2017-18): Nil

Name of the Faculty	Name of the Award/Fellowship	Conferring agency
x	x	x

19. Visit abroad by the Faculty members (2017-18): Nil

Name of the Faculty	Institute visited	Purpose	Period
x	x	x	x

20. Sponsored Research Project (2017-18):

Name of the Principal Investigator	Title of the Project	Funding Agency	Duration	Amount(Rs.)
Dr Sarat Phukan	Study of hydrocarbon potential, depositional environment and geological mapping of the Disang-Barail transitional sequence in Assam, Nagaland and Arunachal Pradesh	Oil India Limited	2 years	39.83 lakh
Dr. Bikash Gogoi	Integrated palynofacies and magnetostratigraphic study of Bhuban Formation in some selected outcrops exposed in the central part of Mizoram, NE India	Oil India Limited	2 years	39.64 lakhs
Dr. A. C. Mazumdar	Tectonothermal evolution and EPMA geochronology of granulite facies rocks from the Gneissic Complex of Shilong Plateau, India	UGC	2 years	14.97 lakhs
Dr. Pranjit Hazarika	Determination of elemental and isotopic compositions of tourmaline from Pb-Zn and Cu-Au deposits of Northwestern India: implications for compositional fractionation, ore genetic processes and source of ore forming fluid.	DST-INSPIRE	5 years	35 lakhs

21. Academic Distinction earned by the students during 2017-18

22. Academic distinction earned by the students during (2014-15):

Sl.No.	Name of Examination/Programme	Name of the student	Position held
1	UGC-CSIR Exam.(NET)	Tapash Chandra Baro	116
2	GATE	Tapash Chandra Baro	

23. Distinguished visitors to the Department during the period 2014-15:

Name of visitors	Address & Designation	Purpose of visit
Prof. Abhijit Bhattacharya	Department of Geology & Geophysics, IIT-Kharagpur	Classroom lectures for second semester students (Visiting Professor)
MS. Reba Devi	Executive Director, Oil India Ltd. COEE, OIL, Guwahati	Student interaction on "Hydrocarbon Exploration by Oil India Ltd."

24. Increase in infrastructural faculties in the Department/Centre during the period 2017-18:

- New microscope facility
- New Central Computer Lab.

- Department library
- 25. Provisions for
 - (a) Computer access: Yes
 - (b) Internet access: Yes
 - (c) Training to teachers, non-teaching staff and students of the Department/Centre: Partially Yes
- 26. Technology upgradation in the Department/Centre during the period 2017-18:
 - 12 nos. of student grade Leica petrological microscope, 1 Leica stereo zoom microscope, 1 research grade Leica petrological microscope and one Leica DGPS system had been procured with the DST-FIST, 2016 grant during this period.
 - A research grade microscope (Olympus) and number of minor equipments were procured through RUSA grant
 - The Internet Network connected to the NKN facility of GU was upgraded through replacement of earlier network
- 27. Linkages developed with National/International/Academic/Research Bodies :

Linkages developed through collaborative research programme with the following academic and research institutions:

 - Birbal Sahni Institute of Paleobotany
 - Nagaland University
 - Centre of Excellence in Energy Research, Oil India Ltd., Guwahati
- 28. Academic activities of Faculty members during the period of report (2017-18)
 - a) Seminar/Workshops attended/presented paper by the faculty during the period:

Name of the faculty(s)	No. of Seminar	No. of Workshop	No. of papers presented
Prof. A C. Mazumdar	0	0	0
Prof. B. P. Duarah	0	0	0
Prof. Parag Phukan	2	4	1
Sarat Phukan	0	0	0
Bikash Gogoi	2	0	2
J. J. Laskar	0	0	0
Balen Bhagabaty	1	1	1
Pranjit Hazarika	0	2	0

- b) Name of the teacher(s) acted as resource person(s) during the period (state briefly)
Prof. Parag Phukan, Prof. B. P. Duarah, Prof. Sarat Phukan, Dr. Bikash Gogoi, Dr. Balen Bhagabati and Dr. Pranjit Hazarika delivered lectures at various forums
- c) Refresher Course/ Orientation Course attended by the teachers during the period:

Name of the faculty	Refresher Course	Orientation Course
x	X	x

- d) Details of paper published in the Referred journals during the period:

Name of the faculty	Title of the paper	Name of the journal with Vol. No. & Date
Machahary, Ratamali and Phukan, P	Analysis of Erosion vulnerability of an alluvial segment of the Brahmaputra river between Disangmukh and Dhansirimukh, Assam	Bulletin, Ind. Geol. Cong., 2017, 9:1
Priyam L. Borgohain, Sarat Phukan & Dilip R. Ahuja	Downstream channel changes and the likely impacts of flow augmentation by a hydropower project in River Dikrong, India	International Journal of River Basin Management, 2018, 10.1080/15715124.2018.1439497
Watinaro Imsong, Swapnamita Choudhury, Sarat Phukan & B. P. Duarah	Morphodynamics of the Kulsi River Basin in the northern front of Shillong Plateau: Exhibiting episodic inundation and channel migration	Journal of Earth System Science, 2017, 127:5.
Arpita Sharma, Sarat Phukan, Binoy K. Saikia and Bimala P. Baruah	Geochemical evaluation of the hydrocarbon prospects of carbonaceous shale and coal of Barail Group, Upper Assam Basin	International Journal of Oil, Gas and Coal Technology, DOI: 10.1504/IJOGCT.2019.10012759
Balen Bhagabaty and A. C. Mazumdar,	Geochemical Characteristics of Tukreswari and Borbhita Granitoid in Goalpara District, Assam.	Journal of Geological Society of India, 89:5
Bhagabaty, Balen and A. C. Mazumdar,	Geochemistry of Precambrian metapelites from Patharkhang, West Khasi Hills district,	International Research Journal of Earth Sciences, 5:8

	Meghalaya, India.	
Bhagabaty, Balen and A. C. Mazumdar,	Geochemistry of Precambrian metapelites from Patharkhang, West Khasi Hills district, Meghalaya, India.	Open Journal of Geology, 7
Hazarika, P., Mishra, B., & Pruseth, K. L.	Trace-element geochemistry of pyrite and arsenopyrite: ore genetic implications for late Archean orogenic gold deposits in southern India	Mineralogical Magazine, 2017, 81:3
Mishra, B., Pruseth, K. L., Hazarika, P., & Chinnasamy, S. S.	Nature and source of the ore-forming fluids associated with orogenic gold deposits in the Dharwar Craton	Geoscience Frontiers, 2018, 9:3
Dutta, Parag Jyoti, Sarma, S., and Laskar, Jayanta Jivan	Predicting the spatial distribution of rain-induced shallow landslides by applying GIS and Geocomputational Techniques : A case study from North East India.	International Journal on Recent & Innovation Trends in Computing and Communication. 2017, Vol.5, No.5, p. 1306-1319.
Konwar, S., Laskar, J.J., and Borah, M.	Geotechnical studies to assess the stability of large granite and gneiss boulders occurring on hillslopes at Katabari, Gorchuk in Guwahati, Assam, India	International Journal of Applied Environmental Sciences. 2017, Vol.12, No.5, p. 877-886
Rahman, N.S., and Laskar, J.J.	Lithofacies associations and channel flow characteristics associated with a Unit Bar of the Brahmaputra River in Dibrugarh, Assam, India	Asian Journal of Multidisciplinary Studies 2017, Vol.5, No.8, p. 32-39.
Saikia, S., Laskar, J.J. and Rahman, N.S.	Geotechnical analysis of river bank slopes in the southern part of Majuli, Assam, India,	International Journal of Recent Scientific Research. 2017, Vol.8, No.11, p.21392 – 21398
Saikia, S., and Laskar, J.J.	An account on bedform features and lithofacies types of the Brahmaputra River found in Kakari Kata Bar, Majuli District, Assam.	Asian Journal of Multidisciplinary Studies, Vol.5. No.11, p. 262-267
Sonowal, S. and Laskar, J.J.	Studies on textural characteristics of the Jiadhul river sediments, Dhemaji District, Assam, North east India.	International Journal of Recent Scientific Research. Vol.8, No.11, p. 21392 - 21398.
Saikia, S. and Laskar, J.J.	Mineralogical composition and spatial variation of suspended sediments in a 2nd order channel of the Brahmaputra River in Majuli, Assam, India.	International Research Journal of Environmental Sciences 2017, Vol.6, No.11, p. 16-22
Srivastava, S.K., Laskar, J., Kreditsu, V. and Awomi, .	Petrography and major element geochemistry of Palaeogene sandstones, south of Kohima town, Nagaland	Journal of Applied Geochemistry 2018, Vol.20, No.1, p. 41-49

e) Paper published in other journals during the period (only those considered for API Score):

Name of the faculty	Title of the paper	Name of the Journals with Vol. No. & Date
X	X	X

f) Details of book published during the period:

Name of the faculty	Title of the Book(s)	Date of publications
Mahananda Borah, Balen Bhagabaty and P. K. Das	Gems and Jewels	2017
Phukan, Sarat and Jahnvi Khound	Coal Deposits of Northeast India	2017

28. a) Placement record during the period (Please state briefly):

As per record of the department the following passed out students of 2014-15 batch and research scholars got employment in the organization indicated against their names:

Name of the student	Employer
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1.	Rajashree Gogoi	Geologist in Oil India Ltd. through Campus Recruitment
2.	Manaswita Bordoloi	Geologist in Oil India Ltd. through Campus Recruitment
3.	Dicton Saikia	Assistant Geologist at Geological Survey of India
4.	Sorat Konwar	Assistant Professor, Department of Geology, JB College

b) Placement services provided during the period (Please state briefly): A campus placement by the Oil India Ltd. had been organized in the Department and two students got placement.

29. Is there any Student Counseling Unit in the Department/Centre? If yes state activities during the period under report: **Yes**

30. Placement services provided to students by the Department/Centre, if any: No

31. Departmental Library

a)	No. of Books as on 31.03.2014	753
b)	New Books procured during the period	24
c)	No. of Journals as on 31.03.2014	Department relies on the journals available in the Central Library and also on the online journals available through the UGC-Inflibnet
d)	New Journals procured during the period	Nil
e)	No. of users during the period:	Nil

32. Departmental publications: Nil

33. Details of Patents generated, if any: Nil

34. Citation index of faculty members and impact factor: Impact factor: **0.824**

35. Activities and support from the Alumni Association of the Department/Centre:

36. Activities and support from the Parent-Teacher Associations if any:

37. Involvement in Community services:

Teachers, research scholars and students of the Department organized an exhibition cum demonstration programme on geology for the benefit of the students of Nalbari Jatia Vidyalaya, Bagurihati High School and Goalpara High School in 28 October, 2017

38. Provision for financial aid to students in the Department/Centre, if any: Nil

39. Provision for student assessment of teachers. If such provisions exist, the courses in which student assessment is obtained and action taken on this feedback may please be stated.

At individual level, teachers occasionally take feedbacks from students on the teaching-learning process

40. Information on up to five Good Practices followed by the Department/Centre:

(a) Maintaining a clean and green ambience of the department. A plantation and mass cleaning was organized on 15 August and 15 October, 2017 involving students, research scholars and teachers as well as non teaching staff members.

(b) Departmental activities are conducted through participatory management. Teacher in-charge for Departmental Examination Cell, Career Counseling, Training and Placement Cell, Seminar Library, Departmental Quality Assurance Cell, Geological Museum, Various labs takes care of the respective issues. Student Coordinators from each of the classes are entrusted to liaise various student related activities.

(c) Punctuality and regularity in classes is strictly adhered to by the teachers. Attendance of students through a signature

system in each class ensures a transparent way of record keeping and a monthly release of attendance record for all the students help keep track of their regularity in classes.

(d) As part of student enrichment programme occasional thematic talks are arranged. In the last academic session altogether 11 invited lectures were organized in the Department by the Placement Cell. Renown faculty from IIT-Kharagpur appointed as Visiting Professor, takes classes on selected topics of the syllabus for the benefit of students. Summer training programmes are arranged for students in different industry and research organizations, wherever possible.

(e) Well equipped labs, well stocked Geological Museum and Departmental Library which remains open 24X7 and a

positive student-teacher relationship provide a healthy academic ambience in the department

41. Detail the plans of the Department/Centre/Institute for the next year :

- Improving the lab. facility (Viz., Geoinformatics lab, chemical lab, petrology lab, hydrogeology lab) and strengthening

the departmental library through more procurement of books

- Introducing a two module evening course in geoinformatics
- Conducting workshops as part of extension activity using DST-FIST microscope facility
- Developing linkages with other academic and research organizations

**ANNUAL REPORT: DEPARTMENT OF MATHEMATICS
GAUHATI UNIVERSITY (FOR THE PERIOD APRIL 2017 TO MARCH 2018)**

1. a. Name of the Department : Mathematics
b. Year of establishment : 1948
2. Head of the Department : Prof. R. K. Deka
3. Details of academic staff :

Sl. No.	Name of teacher	Designation	Full Time/ Contractual	Sex (Male/Female)	Caste	Citation Index
1	Dr. Kuntala Patra	Professor	Full Time	F	GEN	2
2	Dr. Rita Choudhury	Professor	Full Time	F	GEN	
3	Dr. Helen Kumar Saikia	Professor	Full Time	F	GEN	
4	Dr. Rudra Kanta Deka	Professor	Full Time	M	GEN	
5	Dr. Nazibuddin Ahmed	Professor	Full Time	M	GEN	
6	Dr. Hemanta Kumar Sarmah	Professor	Full Time	M	GEN	
7	Dr. Kanika Das	Professor	Full Time	F	GEN	
8	Dr. Chandra Rekha Mahanta	Associate Professor	Full Time	F	GEN	
9	Dr. Bipan Hazarika	Associate Professor	Full Time	M	GEN	
10	Dr. Nilakshi Goswami	Asstt. Professor	Full Time	F	GEN	
11	Dr. Hemen Dutta	Asstt. Professor	Full Time	M	GEN	
12	Dr. Debasish Bhattacharjee	Asstt. Professor	Full Time	M	GEN	
13	Dr. Ranu Paul	Asstt. Professor	Full Time	F	GEN	
14	Dr. Jituparna Goswami	Asstt. Professor	Full Time	M	GEN	
15	Dr. Utpal Jyoti Das	Asstt. Professor	Full Time	M	GEN	

4. Course(s)/Programme offered : M.A./M.Sc./ Ph.D./M.Phil.
5. Special Branches in the Department/Centre :

Name of Special Papers

1. Algebra

2. Functional Analysis
3. Fluid Dynamics
4. Relativity
5. Space Dynamics
6. Algebraic Topology
7. Fuzzy Sets and application
8. Mathematical Logic
9. Computer Algebra
10. Partial Differential Equation
11. Programming with C
6. New Academic Programme initiated during the period under report :M.Phil
7. Innovation in Curricular design :Yes
8. Inter disciplinary Programmestarted :Yes
9. Department/Centre under : SAP/COSSIST(ASSIST)/DST/FIST: **NIL**
10. Total number of Research Scholar working at present:

a) Full Time:04	b) Part time:33
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11. Enrolment of Students in various courses (April 2017- March 2018) :

Courses	Sem	Intake Capacity	No. Admitted			S.C.			S.T(P)			S.T.(H)			OBC/MOBC		
			M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Post-Graduate		80	58	22	80	3	1	4	9	3	12	0	0	0	15	2	17
M.Phil.																	
Ph.D.			3	1	4	2	0	2				0	0	0	0	1	1
Others																	

12. Teacher-Student and Teacher- Non-teaching staff Ratio :

No. of Teacher	No. of student	No. of Non-teaching staff
15	160	5
Teacher/Student Ratio		Teacher-Non-teaching Staff Ratio
3:32		3:1

13. Final Examination result during the session 2017-18:

(a) No. Appeared

Subject	Total Appeared			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			P.H.		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
	43	31	74															

(b) No. Passed

Subject	Total Passed			S.C.			S.T(P)			S.T.(H)			OBC/MOBC		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
	38	25	63												

14. Details of Ph.D. awarded (2017-18):

Name of the Ph.D. Scholars	Title of the Ph.D. thesis	Guide
HemenBharali	A study on ore's harmonic numbers and some generalized forms, including a few group theoretic aspects	Prof. Helen K Saikia
Anjan Kumar Deka	A Study of Some Steady and Unsteady Heat and Mass Transfer Problems	Dr. DipakSarma
Bhabesh Das	A study on perfect numbers and associated arithmetic functions	Prof. Helen K Saikia
Bandita Das	Flow behavior of some momentum and heat transfer problem in visco-elastic fluids	Prof. Rita Choudhury
Mridul Ch. Das	Study of various bifurcation and their associated properties in nonlinear systems	Prof. H. K. Sarmah
Bijoy Kamal Bhattacharyya	A study on some local and global properties of the chaotic Logistic map	Prof. Hemanta Kr. Sarmah
ManasDutta	Analytical and numerical solutions of some Hydrodynamic and Hydromagnetic flow problems	Prof. N. Ahmed

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Dipankar Das	A study of some fixed point theorems in tensor product spaces	Dr. NilakshiGoswami
Ali Hussain Sheikh	Analytical solutions of some problems on MHD convective flow through channels and past flat plates	Prof. N. Ahmed
SumanAgarwalla	A study of some hydromagnetic and hydrodynamic heat transfer problems	Prof. N. Ahmed
Rumi Chaharia	Study of non linear wave phenomena in plasma	Dr. Nirupama Devi
SuwagMoni Das	A Theoretical Analysis of some hydrodynamic and hydromagnetic flow problems with heat and mass transfer	Prof. N. Ahmed
RekhaKalita	Studies of Non linear waves in plasmas with various compositions	Prof. B. C. Kalita
PramilaKumariPrajapati	Analysis on Stability of Periodic Orbits, Limit Cycles and Hopf Bifurcations in non linear differential equations	Prof. T. K. Dutta
NitinSarma	A study of cosmological dynamics in some modified gravity models	Dr. C. R. Mahanta

15. Number of students qualified in :

NET(JRF)	NET	SLET	GATE	Any others
NIL	01	7	1	

16. Important students' activities and achievements and awards during the period (Please state briefly)
NabanitaGoswami, a research scholar of the department, presented a poster in the IWM Annual conference 2017 held at IISc Bangalore from 13th July to 15th July 2017.

17. Seminar/Summer School/Workshop conducted during the period 2017-18 :

Sl.No.	Name of the Co-ordinator	Name of the Seminar/Summer School/ Workshop/ Refresher Course	Date	Sponsorship
1	Prof. R. K. Deka	Late B.C. Deka Memorial Lecture	29 th January, 2018	Endowment fund

18.Honours/Awards/Fellowship (with National/International repute) earned by the Faculty members (2017-18) :

Name of the Faculty	Name of the Award/Fellowship	Conferring agency

19. Visit abroad by the Faculty members (2017-18) : NIL

Name of the Faculty	Institute visited	Purpose	Period

20. (a) Sponsored Research Project (2017-18):

Name of the Principal Investigator	Title of the Project	Funding Agency	Duration	Amount(Rs.)
Prof. Rita Choudhury	Mathematical Modeling in MHD Visco-Elastic Fluid with emphasis on heat and mass transfer	UGC	3 years (July 2015-June 2017)	Rs.15,45,000/-

(b) Patent Generated :

Sl. No.	Name of Faculty	Patent Generated	Remarks

21. Academic distinction earned by the students during (2017-18) :

Sl.No.	Name of Examination/Programme	Name of the student	Position held
1.			

22. Distinguish visitors to the Department during the period 2017-18 :

Name of visitors	Address & Designation	Purpose of visit

Dr. Promode K Saikia	Professor, NEHU	Viva-voce exam
Dr. B. R. Sarma	Professor, Dibrugarh University	Viva-voce exam
Dr. S. K. Tomar	Professor, Panjab University	Bhupati Deka Memorial Lecture
Dr. T. K. Dutta	Professor, Calcutta University	Viva-voce exam
Dr. Prabir Kr. Kundu	Professor, Jadavpur University	Viva-voce exam
Dr. S. N. Bora	Professor, IIT, Guwahati	Viva-voce exam
Dr. Ranjit Singh Maibam	Professor, Manipur University	Viva-voce exam
Dr. Kallol Paul	Professor, Jadavpur University	Viva-voce exam
Dr. Mridulla Kanoria	Professor, Calcutta University	Viva-voce exam
Dr. Rajkumar Roychoudhury	ISI, Kolkata	Viva-voce exam
Dr. Prasanta Chatterjee	Professor, Calcutta University	Viva-voce exam
Dr. M.S. Chaudhuri	Professor,	Viva-voce exam
Dr. Uday Chand Dey	Professor, Calcutta University	Viva-voce

23. Creation/Increase in infrastructural facilities in the Department/Centre during the period 2017-18: NIL
24. Provisions for (a) computer access (b) internet access and (c) training to teachers, non-teaching staff and students of the Department/Centre:
- (a) Computer access is there to all the faculty members, research scholars, students and office staff.
- (b) Internet Access is there to all the faculty members, research scholars, students and office staff. In the western wing of the department new internet ports were provided during this period.
- (c) Training to teachers, non-teaching staff and students : NIL
25. Technology up gradation in the Department/Centre during the period 2017-18 :
26. Linkages developed with National/International/Academic/Research Bodies :
27. Academic activities of Faculty members during the period of report (2017-18):

a) Seminar/Workshops attended/presented paper by the faculty during the period :

Name of the faculty(s)	No. of Seminar	No. of Workshop
Prof. K. Patra	2	1
Prof. R. Choudhury	3	1
Dr. Ranu Paul	1	

- b) Name of the teacher(s) acted as resource person(s) during the period (state briefly) :

Prof. Kuntala Patra :

Acted as invited speaker, in the National Conference- March 9-10, 2018 at Imphal

Acted as Invited speaker in an International conference from March 24th to 25th, 2018, Agartala, Tripura University.

Prof. Rita Choudhury :

Invited speaker and chairperson in the International conference on recent trends in Mathematical Sciences organized by the Department of Appl Mathematics, MBB University jointly with Tripura Mathematical Society during 24-25 March, 2018.

Invited speaker and chairperson in 105th Indian Science Congress held in Manipur University, Imphal, 16-20 March, 2018

Invited speaker and chairperson in the International conference on Emerging Technologies in Data Mining and Information Security held in IEM Group, Kolkata during 23-25 February, 2018.

Invited speaker in the Orientation Programme (Mathematics Department) held in the University of Science and Technology (USTM), Meghalaya on 07.09.2017.

Dr. C. R. Mahanta

Resource person in the orientation workshop on Mathematics held in Maharishi Vidya Mandir, Silpukhuri during 27 Jun, 2017 to 2nd July, 2017.

Dr. Ranu Paul : Attended one International conference on "Mathematical Sciences for Advancement of Science and Technology" (MSAST 2017) during December 21-23, 2017

Paper Presented Global stability analysis of tumor free critical points to control growth of tumor in an immune-tumor drug model.

c) Refresher Course/ Orientation Course attended by the teachers during the period:

Name of the faculty	Refresher Course	Orientation Course
Dr. U.J. Das	Participated in a Refresher Course "Emerging Trends in Science &	

	Technology (IDC) –I” held at Human Resource UGC-Human Resource Development Centre, Gauhati University, Guwahati from 25 th October to 14 th November 2017	
Dr. Ranu Paul	01 (January 30,2018 to February 19, 2018)	

(FOR THE PERIOD APRIL 2017 TO MARCH 2018)

c) Details of paper published in the Referred journals during the period:

Prof. Kuntala Patra

1. On the subset graph of a near ring, International J. of Math. Archive Vol 8 (3), 2017 ISSN 2229-5046
2. On a generalized zero division graph of a commutative ring with respect to an ideal, Communications in Mathematics and Application. Vol. 8. No.3, 2017, ISSN 0975-8607.
3. On a zero –division based graph structure of a commutative ring. Asian J. of Mathematics and computer research Vol 25 (3), 2018. ISSN 2395-4205

Prof. Rita Choudhury

Sl. No.	Title of the publication	Year of Publication	Name of journal where published	ISBN/ISSN
1.	Flow Features of a conducting Visco-Elastic past a vertical permeable plate, Rita Choudhury and BamdebDey	2017, Vol. 13, No. 9, pp 5687-5702	Global Journal of Pure and Applied Mathematics, India	0973-1768
2.	Impact of Visco-Elastic of MHD Free convective flow past a vertical surface embedded in porous medium, Rita Choudhury and BamdebDey	2017, Vol. 20, No. 2, pp. 211-228	Advances and application in fluid Mechanics, INDIA	0973-4686
3.	Diffusion-Thermo and Thermo-Diffusion Effects on Heat and Mass Transfer MHD Visco-Elastic Flow past a plate, Rita Choudhury and Bibhash Deka	2017, Vol. 9, No. 3, pp471-482	International Journal of Engineering and Technology, INDIA	0975-4024
4	MHD visco-elastic fluid flow and heat transfer around a circular cylinder, Rita Choudhury and Bibhash Deka	2017, Vol. 12, pp 98-107	WSEAS Transactions on Fluid Mechanics, GREECE	2224-347X
5	Hydromagnetic channel flow of a second grade fluid induced by Thermal Radiation and Chemical Reaction, Rita Choudhury and Bibhash Deka	2017, Vol. 62, No. 3, pp. 207-220	Acta Technica Csav (Ceskoslovenska Akademie Ved), Czech Republic	0001-7043
6	Unsteady Thermal Radiation effects on MHD convective slip flow of visco-elastic fluid past a porous plate embedded in porous medium, Rita Choudhury and BamdebDey	2018, Vol. 57, No. 2, pp. 215-226	International Journal of Applied Mathematics and Statistics, INDIA	0973-1377

Prof. Helen K Saikia

1. On total directed graphs of non-commutative rings, KukilKalpaRajkhowa, Helen K. Saikia. AKCE International Journal of Graphs and Combinatorics, December 2017, Volume 14, Issue 3, pp 261–268.
2. On \mathbb{Z} -torsion module, Himashree Kalita, Azizul Hoque, Helen K. Saikia. Bollettino dell'Unione Matematica Italiana, June 2017, Volume 10, Issue 2, pp 223–228.
3. On abundancy index of some special class of numbers, Bhabesh Das, Helen K. Saikia. Sohag Journal of Mathematics, May 2017, Volume 4, Issue 2, pp 37-40.

Prof. R. K. Deka

1. Effect of variable viscosity on a nanofluid over a porous wedge. International Journal of Fluid Mechanics Research, DOI:10.1615/InterJFluidMechRes.2018019500 pages 355-368, 2018.
2. Transient free convection flow past vertical cylinder with constant heat flux and mass transfer. Ain Shams Engineering Journal (2017) 8,643–651
3. Unsteady Natural Convection Flow past an Infinite Cylinder with Thermal and Mass Stratification. International Journal of Engineering Mathematics, Volume 2017, Article ID 8410691, 13 pages

Prof. N. Ahmed

Sl. No	Title with page nos	Journal	ISSN/ISBN no	Whether peer reviewed, Impact Factor, if any
1	Natural convection in transient MHD dissipative flow past a suddenly started infinite vertical porous plate: A finite – difference approach, 49(6), 491-508, 2018	Heat Transfer Research, Begell House(SCI)	2162-6561	Impact Factor 0.93
2	Radiation Effect on Unsteady MHD Flow past a semi-infinite vertical porous plate in presence of thermal diffusion and chemical reaction,21(3),305-323, 2018	Advances and Applications in Fluid Mechanics	0973-4686	Peer reviewed
3	MHD mass transfer flow past an inclined plate with variable temperature and plate velocity embedded in a porous medium, 47,27-41, 2018 DOI: 10.1002/htj.21288	Heat Transfer - Asian Research (Wiley, Web of Science)	1099-2871 and 1523-1496	
4	MHD free convective dissipative flow past a porous vertical plate in presence of heat sink, 14(1), 17-36, 2018	Journal of Calcutta Mathematical Society	2231-5314	Peer reviewed
5	Steady MHD mass transfer flow in presence of heat sink and chemical reaction, Vol. 44(1), 15-39 , 2017	International Journal of fluid mechanics research, Begell house(Web of Science)	2152-5102	Peer reviewed
6	Effects of thermal radiation and chemical reaction on transient MHD free convection Couette flow in a porous medium ,20(2),229-248, 2017	Advances and Applications in Fluid Mechanics (Scopus)	0973-4686	Peer reviewed
7	Effect of radiation on convective MHD flow past a moving vertical porous plate,20(3),363-374, 2017 (July)	Advances and Applications in Fluid Mechanics (Scopus)	0973-4686	Peer reviewed
8	Heat and mass transfer in transient MHD radiating flow through an infinite annulus in a porous medium in presence of chemical reaction ,13(1), 1-24,2017	Journal of Calcutta Mathematical Society	2231-5314	Peer reviewed
9	Thermal diffusion effect on MHD oscillatory channel flow with slip condition and mass transfer	Journal of Rajasthan Academy of Physical Sciences	0972-6306	Peer reviewed
10	Hydromagnetic free convective flow past a vertical plate moving with time dependent plate velocity,96(6), 331-350, 2017	Far East Journal of Applied Mathematics	0972-0960	Peer reviewed
11	Soret effect on oscillatory MHD free convective flow past a vertical porous plate in slip-flow regime with chemical reaction and radiation,13(1), 41-58,2017	Journal of Calcutta Mathematical Society	2231-5314	Peer reviewed
12	Unsteady MHD free convective flow past a moving vertical plate in presence of heat sink,16(1,2), March-June, 2017,21-39.	Journal of Rajasthan Academy of Physical Sciences	0972-6306	Peer reviewed
13	Soret and Dufour effects on MHD convective flow past a moving vertical porous plate in presence of thermal radiation, 32(2),147-166, 2017	Bulletin of the Allahabad Mathematical Society	0971-0493	Peer reviewed

Dr. C. R. Mahanta

1. Bianchi type – II universe with wet dark fluid in general theory of relativity- Astrophysics and space science, Vol. 362, issue 9 p. 154 (2017) issn-0004-640X
2. Anisotropic ghost dark energy cosmological model with hybrid expansion law-New Astronomy, Vol. 57, p.70 (2017)

Dr. Bipan Hazarika

S. No	Title with Page No.	Authors as they appear	Journal name and ISBN/ISSN No	Whether peer reviewed, Impact factor if any
	1st April 2017 to 31st March 2018			
1	On arithmetical summability and multiplier aequences, 40(1)(2017), 43-46	TajaYaying and BipanHazarika	<i>National Academy Science Letters</i> , Springer Publications , ISSN No: 0250-541X	peerreviewed, SCIE, IF 0.345
2	Some new Fibonacci difference spaces of non-absolute type and compact operators, 65(12) (2017), 2551-2573	Anupam Das and BipanHazarika	<i>Linear and Multilinear Algebra</i> , Taylor and Francis , ISSN No 1563-5139	peerreviewed, SCIE, IF 0.89
3	Application of geometric calculus in numerical analysis and difference sequence spaces, 449(2) (2017), 1265-1285	KhirodBoruah and BipanHazarika	<i>Journal of Mathematical Analysis and Applications</i> , Elsevier Publications , ISSN No 0022-247X	peerreviewed, SCI (Science Citation Index), IF 1.014
4	Pointwise ideal convergence and uniformly ideal convergence of sequences of fuzzy valued functions, 32(3) (2017), 2665-2677	BipanHazarika	<i>Journal of Intelligent and Fuzzy Systems</i> , ISSN No-1064-1246	peerreviewed, SCIE, IF 1.261
5	Some classes of ideal convergent sequences and generalized difference matrix operator, 31(6) (2017), 1827-1834	Syed Abdul Mohiuddine and BipanHazarika	<i>Filomat</i> , ISSN No-0354-5180	peerreviewed, SCIE, IF 0.695
6	On asymptotically Wijsmanlacunary statistical convergence of set sequences in ideal context, 31(9) (2017), 3691-3703	BipanHazarika and AyhanEsi	<i>Filomat</i> , ISSN No-0354-5180	peerreviewed, SCIE, IF 0.695
7	On statistical convergence of double sequences of fuzzy valued functions, 32(6) (2017), 4331- 4342	S. A. Mohiuddine, BipanHazarika and Abdullah Alotaibi	<i>Journal of Intelligent and Fuzzy Systems</i> , ISSN No-1064-1246	peerreviewed, SCIE, IF 1.261
8	Solvability of the infinite system of integral equations in two variables in the sequence spaces C_0 and ℓ_1 , 326(2017) 183-192	Anupam Das, Bipan Hazarika , Reza Arab and M. Mursaleen	<i>Journal of Computational and Applied Mathematics</i> , Elsevier Publication , ISSN No 0377-0427	peer reviewed, SCI, IF:1.357
9	On arithmetic continuity in metric spaces, 28(2017), 985-989	Taja Yaying and Bipan Hazarika	<i>Afrika Matematika</i> , Springer Publications , ISSN: 1012-9405	peer reviewed, SCOPUS
10	On some generalized geometric difference sequence spaces, 36(3) (2017), 373-395	Khirod Boruah and Bipan Hazarika	<i>Proyecciones Journal of Mathematics</i> , ISSN: 0717-6279	peer reviewed, SCOPUS

11	Some applications of similarity of soft sets, 33(6) (2017), 3767-3777	Manash Jyoti Borah and Bipan Hazarika	<i>Journal of Intelligent and Fuzzy Systems</i> , ISSN No-1064-1246	peer reviewed, SCIE, IF 1.261
12	Some properties of Generalized Fibonacci difference bounded and p -absolutely convergent sequences, 36(1) (2018), 37-50	Anupam Das and Bipan Hazarika	<i>Boletim da Sociedade Paranaense de Matematica</i> , ISSN No: 0037-8712	peer reviewed, SCOPUS
13	Matrix transformation of Fibonacci band matrix on generalized bv -space and its dual spaces, 36(3) (2018) 41-52	Anupam Das and Bipan Hazarika	<i>Boletim da Sociedade Paranaense de Matematica</i> , ISSN No: 0037-8712	peer reviewed, SCOPUS
14	Metric-like spaces to prove existence of solution for nonlinear quadratic integral equation and numerical method to solve it, 328(2018) 302-313	Bipan Hazarika , Erdal Karapınar, Reza Arab and Mohsen Rabbani	<i>Journal of Computational and Applied Mathematics</i> , Elsevier Publication, ISSN No 0377-0427	peer reviewed, SCI, IF:1.357
15	Some operators on interval-valued Hesitant fuzzy soft sets, 29(3)(2018), 509-529	Manash Jyoti Borah and Bipan Hazarika	<i>Afrika Matematika</i> , Springer Publication, ISSN: 1012-9405	peer reviewed, SCOPUS
16	Existence of solution foran infinite system of nonlinear integral equations via measure of noncompactness and homotopy perturbation method to solve it, 343(2018) 341-352	Bipan Hazarika , H. M. Srivastava, Reza Arab and Mohsen Rabbani	<i>Journal of Computational and Applied Mathematics</i> , Elsevier Publication, ISSN No 0377-0427	peer reviewed SCI, IF:1.357

Dr. Nilakshi Goswami

- (1) Some fixed point theorems in the projective tensor product of 2-Banach spaces, Global Journal of advanced research on classical and Modern Geometries, Vol. 6 (Issue 1), Page 20-36, 2017.
- (2) Some Results on Positive elements in the Tensor product of C^* -algebras, International Journal of Mathematics Trends and Technology, Vol. 51, No. 3, Page 1-7, November, 2017.
- (3) On a subset of invertible elements of C^* -algebras and some related fixed point theorems, Journal of Tripura Mathematical Society, Vol 19, page 21-37, 2017.
- (4) Hyers-Ulam-Rassias stability of an additive functional Equation in b-metric spaces, Journal of Assam Academy of Mathematics, Vol. 8, Page 12-25, February, 2018.
- (5) Some Results on Stability of bi-exponential functional equations over b-metric spaces, Journal of Global Research in Mathematical Archives, Vol. 5, No. 3, Page 106-112, March, 2018.

Dr. Hemen Dutta

1. Identities on some special polynomials derived from the concepts of n -normed structures, accretive operators and contraction mappings, Iranian Journal of Science and Technology, Transactions A: Science, Vol. 42, No. 2, 2018, pp. 787-792 (SCI-Exp., IF: 0.757) (jointly with M. Kir, M. Acikgoz and S. Araci)
2. Statistical deferred weighted B -summability and its applications to associated approximation theorems, Journal of Inequalities and Applications, 2018:65, 27 March 2018, 21 pages (SCI-Exp, IF: 0.966) (jointly with T. Pradhan, S.K. Paikray, B.B. Jena)
3. Mathematical Modelling of Bacterial Meningitis Transmission Dynamics with Control Measures, Computational and Mathematical Methods in Medicine, Article ID 2657461, 27 March 2018, 22 pages. (SCI-Exp, IF: 1.545) (jointly with J.K.K. Asamoah, F. Nyabadza, B. Seidu, M. Chand)
4. Characterization of matrix classes involving some sets of sequences of fuzzy numbers, Filomat, Vol. 31, No. 19, 2017, pp. 6101-6112. (SCI-Exp., IF: 0.695) (jointly with J. Gogoi)

5. An extension of rational contractive condition in partially ordered rectangular metric spaces, Miskolc Mathematical Notes, Vol. 18, No. 2, 2017, pp. 873–888. (SCI-Exp., IF: 0.388) (jointly with M. Kir, M.A. Akturk and E. Yolacan)
6. On the convergence of an iteration process for nonself totally asymptotically I -quasi-nonexpansive mappings, Proceedings of the Jangjeon Mathematical Society, Vol. 20, No. 3, 2017, pp. 377-389 (Scopus) (jointly with B. Gunduz).

Dr. Utpal Jyoti Das

Sr. No.	Name of the faculty	Title of the Paper	Name of the Journal, volume no., page no., year
1	U. J. Das	Heat and mass transfer of MHD visco-elastic oscillatory flow through an inclined channel with heat generation/ absorption in presence of chemical reaction	Latin American Applied Research, 47, 47-52, 2017.
2	U. J. Das	Heat transfer to MHD oscillatory dusty visco-elastic fluid flow in an inclined channel filled with a porous medium	Latin American Applied Research, 47, 145-150, 2017.
3	U. J. Das (With S. Dorjee)	Unsteady two dimensional hydromagnetic visco-elastic flow and heat transfer along a porous oscillating channel	Journal of the Tripura Mathematical Society, 19, 38-51, 2017.
4	U. J. Das (With S. Dorjee)	MHD oscillatory slip flow of visco-elastic fluid through a channel filled with porous medium	Journal of the Assam Academy of Mathematics, 18, 1-11, 2018.

Dr. Debasish Bhattacharjee

Debasish Bhattacharjee, (2017) "On Some Dynamical Behavior Of Modified Ricker Model", J. Assam Acad. Math. Vol. 7 (2017) pp: 86-93

B. C. Kalita, S. Das, and D. Bhattacharjee (2017), "Determination of the measure of size (amplitude) of perturbation and its role in the process of enforcing discrete Korteweg-de Vries solitons to modified Korteweg-de Vries solitons as means of continuum hypothesis in a multi-component dusty plasma", Physics of Plasmas 24, 102121 (2017); doi: 10.1063/1.5005535

Dr. Jituparna Goswami

Name of the faculty	Title of the paper	Name of the Journals with Vol. No. & Date
Jituparna Goswami	Characterization of a hyperperfect group	MATEMATIKA, Vol. 33, No. 1, 97-103, June 2017 (E-ISSN: 0127-9602)

Name of the faculty	Title of the paper	Name of the Journals with Vol. No. & Date
Jituparna Goswami	Some Properties of Strongly Perfect Groups	Journal of Assam Academy of Mathematics, Vol. 8 (2018), pp: 26-33 (ISSN: 2229-3884)

Ranu Paul

e) Paper published in other journals during the period (only those considered for API Score). **All given in 27 (d)**

Name of the faculty	Title of the paper	Name of the Journals with Vol. No. & Date

f) Details of book published during the period :

Name of the faculty	Title of the Book(s)	Date of publications
Hemen Dutta	An Introductory Course in Summability Theory, First Edition, John Wiley & Sons, Inc., USA, 2017, ISBN: 9781119397694 (jointly with A. Aasma and P.N. Natarajan)	

28. a) Placement record during the period (Please state briefly):

b) Placement services provided during the period (Please state briefly) :

29. Is there any Student Counseling Unit in the Department/Centre? If yes state activities during the period under report.

30. Placement services provided to students by the Department/Centre, if any:

31. Departmental Library :

a)	No. of Books as on 31.03.2017	6965
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b)	New Books Procured during the period	198
c)	No. of Journals as on 31.03.2017	58
d)	New journals procured during the period	04
e)	Number of users during the period	More than 300 users

32. Departmental publications :

33. Details of Patents generated, if any : NIL

34. Citation index of faculty members and impact factor:

Activities and support from the Alumni Association of the Department/Centre :

35. Activities and support from the Parent-Teacher Associations if any : **Positive**

36. Involvement in Community services :

a. **Prof. K. Patra** : Involved in various activities with different educational institutes.

b. **Prof. R. Choudhury** : Working for the promotion of scientific awareness and engaged in various social activities.

c. **Prof. H. K. Saikia** : Working for the promotion of Mathematics in the field of research

d. **Dr. N. Goswami** : Working for the upliftment of Mathematics in the region.

e. **Dr. H. Dutta** : Involved in popularizing Mathematics in the masses.

37. Provision for financial aid to students in the Department/Centre, if any:

Scholarships/Prize awarded :

1. The Amala Bezbaruah Memorial Prize of Rs. 10,000/- along with a citation is awarded every year to the student who secures the highest aggregate mark in the first and second semesters.

2. Dr. B. C. Deka, Memorial Lecture and Award of Rs. 10,000/- with a citation is awarded every year to the 1st ranked student in MA/M.Sc . Mathematics

38. Provision for student assessment of teachers. If such provisions exist, the courses in which student assessment is obtained and action taken on this feedback may please be stated. Information on up to five Good Practices followed by the Department/Centre:

Wall Magazine (Prameyika)

Ramanujan Day celebration

Celebration of Amala Bezbaruah Memorial award ceremony

Bulletin of Gauhati University Mathematics Association

Phanidhar Datta Memorial Lecture (Every Year)

Teachers day celebration.

40. Detail the plans of the Department/Centre/Institute for the next year :

Extension of Library.

Extension of Computer Lab.

Modernization of Class Rooms.

Head, Deptt. of Mathematics

ANNUAL REPORT DEPARTMENT OF PHYSICS GAUHATI UNIVERSITY (FOR THE PERIOD APRIL 2017 TO MARCH 2018)

2. a. Name of the Department : Physics

b. Year of establishment: 1954

2. Head of the Department: Dr. Madhurjya P. Bora

3. Details of academic staff:

Sl. No.	Name of the teacher	Designation (Professor/Associate Prof./Asst. Professor)	Full Time/ Contractual	Sex (Male/ Female)	Caste (Gen/ SC/ ST/OBC /DA)	Citation index
1.	Dr. Kalyanee Boruah	Professor	Full Time	Female	GEN	Citations: 48 h-index: 4
2.	Dr. Anurup Gohain Barua	Professor	Full Time	Male	OBC	Citations: 96 h-index: 6
3.	Dr. Madhurjya P. Bora	Professor and Head	Full Time	Male	GEN	Citations: 165 h-index: 5
4.	Dr. Buddhadev Bhattacharjee	Professor	Full Time	Male	GEN	Citations: 2881 h-index: 31

5.	Dr. Deepali Sarkar	Professor	Full Time	Female	GEN	Citations: 399 h-index: 11
6.	Dr. Banty Tiru	Associate Professor	Full Time	Female	MOBC	Citations: 20 h-index: 2
7.	Dr. Kalpana Bora	Associate Professor	Full Time	Female	GEN	Citations: 103 h-index: 6
8.	Dr. Kushal Kalita	Associate Professor	Full Time	Male	GEN	Citations: 134 h-index: 7
9.	Dr. Biman J Medhi	Associate Professor	Full Time	Male	GEN	Citations: 168 h-index: 8
10.	Dr. Manos P. C. Kalita	Assistant Professor	Full Time	Male	GEN	Citations: 119 h-index: 5
11.	Dr. Sanjeev Kalita	Assistant Professor	Full Time	Male	GEN	Citations: 13 h-index: 2
12.	Dr. Abhijit Das	Assistant Professor	Full Time	Male	SC	Citations: 11 h-index: 3
13.	Dr. Bimal K. Sarma	Assistant Professor	Full Time	Male	GEN	Citations: 127 h-index: 8
14.	Dr. Sulochana Deb	Assistant Professor	Full Time	Female	GEN	Citations: 7 h-index: 2
15.	Dr. Simanta Hazarika	Assistant Professor	Full Time	Male	GEN	Citations: 26 h-index: 4
16.	Dr. Subhankar Roy	Assistant Professor	Full Time	Male	GEN	Citations: 7 h-index: 3
17.	Dr. Hemen Kumar Kalita	Assistant Professor	Full Time	Male	GEN	Citations: 125 h-index: 8
18.	Dr. Hirakjyoti Goswami	Assistant Professor	Full Time	Male	GEN	Citations: 5 h-index: 2

4. Course(s)/Programme offered:

M. Sc. in Physics, M. Sc. in Radiological Physics, PhD in Physics, PhD in Radiological Physics

5. Special Branches in the Department/Centre:

The Department of Physics has following thrust areas of research and offers elective papers to M. Sc course

Astronomy and Astrophysics, Condensed Matter Physics, Electronics, High Energy Physics, Nanophysics, Nuclear Physics & Cosmic Rays, Plasma Physics and Spectroscopy

6. New Academic Programme initiated during the period under report: PhD in Radiological Physics

7. Innovation in Curricular design:

M. Sc. Physics Syllabi have been revised and restructured with effect from 2018 batch. Students' inputs have been considered for discussion and subsequent implementation of the new structure.

8. Inter disciplinary Programme started: Nil

9. Department/Centre under: SAP/COSIST(ASSIST)/DST/FIST:

UGC-SAP (DRS III)

FIST (Level I)

10. Total number of Research Scholar working at present:

a) Full Time: 33	b) Part time: 11
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11. Enrolment of Students in various courses (April 2017- March 2018) :

Courses	Sem	Intake Capacity	No. Admitted			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			Differently abled		
			M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Post-Graduate (M. Sc. Physics)	I	50	34	17	51	3	1	4	4	3	7	1	–	1	10	7	17	–	–	–
M.Phil.		N/A																		
Ph.D.		10	3	1	4	1	–	1	–	–	–	–	–	–	1	–	1	–	–	–
Others (M.Sc.Radiological Physics)	I	10	5	6	11	1	–	1	1	–	1	–	–	–	1	2	3	–	–	–

12. Teacher-Student and Teacher-Non-teaching staff Ratio :

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No. of Teacher	No. of student	No. of Non-teaching staff
18	120	27
Teacher/Student Ratio		Teacher-Non-teaching Staff Ratio
3:20		2:3

13. Final Examination result during the session 2017-18:

(a) No. Appeared

Subject	Total Appeared			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			Differently abled		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Physics	32	19	51	–	2	2	2	2	4	–	–	–	14	8	22	–	–	–
Radiological Physics	3	5	8	–	–	–	–	–	–	–	–	–	1	1	2	–	–	–

(b) No. Passed

Subject	Total Passed			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			Differently abled		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Physics	29	18	47	–	2	2	1	1	2	–	–	–	13	8	21	–	–	–
Radiological Physics	3	5	8	–	–	–	–	–	–	–	–	–	1	1	2	–	–	–

14. Details of Ph.D. awarded (2017-18):

Name of the Ph.D. Scholars	Title of the Ph.D. thesis	Guide
Dr. Kalyan Dey	A Study on the MUCH Geometry Optimization and Physics Observables of the Proposed FAIR-CBM Experiment	Dr. Buddhadev Bhattacharjee
Dr. Gayatri Ghosh	Aspects of fermion masses and mixings	Dr. Kalpana Bora
Dr. Punam Patgiri	Studies on some properties of photon induced Cosmic Ray air showers.	Dr. Kalyanee Boruah
Dr. Kuldeep Deka	Studies on microstructural, optical and magnetic properties of some transition metal doped semiconductor nanostructures	Dr. Manos P. C. Kalita
Dr. Upamanyu Sharma	Steady state and time resolved measurements of the bioluminescence emission of fireflies	Dr. Anurup Gohain Barua
Dr. Partha Pratim Dev Sarma	Synthesis and characterization of polypyrrole incorporated with biomolecule	Dr. Deepali Sarkar
Dr. Tapashi Das	A Study of Mesons and Glueballs.	Dr. Dilip Kr. Choudhury
Dr. Nibedita Kalita	Multi-band Studies of Blazars with XMMNewton	Dr. Kalpana Duorah
Dr. Baishali Saikia	A Study of Models of Nucleon Structure Functions	Dr. Dilip Kr. Choudhury
Dr. Bornali Chetia	Ionospheric Perturbation at varied Solar Geomagnetic Ambiences as seen through Satellite and Ground Based Techniques	Dr. Minakshi Devi
Dr. Mintu Das	Electrical and Optical properties of unpassivated and passivated nanoporous silicon	Dr. Deepali Sarkar
Dr. Yasmin Zahan	Understanding on growth and development processes of the Lower atmospheric turbulences leading to the severe weather condition at the subtropical environment by using Remote sensing Techniques	Dr. Minakshi Devi

15. Number of students qualified in:

NET(JRF)	NET	SLET	GATE	Any others
02	01	Nil	01	

16. Important students' activities and achievements and awards during the period (Please state briefly)

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Students participated in the Department Foundation Day Events where they showcased their talents by presenting science projects, scientific posters, etc. In addition, students are the active members of the organizing committee of the first ever Alumni meet cum get together organized by the Department in February 2018.

17. Seminar/Summer School/Workshop conducted during the period 2017-18:

Sl.No.	Name of the Coordinator	Name of the Seminar/Summer School/ Workshop/ Refresher Course	Date	Sponsorship
1	Dr. Kushal Kalita and Dr. Subhankar Roy	National Seminar on Progresses in Nuclear and High Energy Physics	30-31 March 2018	UGC-SAP(DRS-III)

18. Honours/Awards/Fellowship (with National/International repute) earned by the Faculty members (2017-18):

Name of the Faculty	Name of the Award/Fellowship	Conferring agency
Dr. Banty Tiru	Visiting Scientist	National Atmospheric Research Laboratory Gadanki
Dr. Buddhadeb Bhattacharjee	Physicist	GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany
Dr. Buddhadeb Bhattacharjee	Physicist	CERN, Switzerland
Dr. Hemen Kumar Kalita	Visiting Fellow	IIT Bombay
Dr. Kalpana Bora	Visiting Faculty	IIT Guwahati
Dr. Bimal K. Sarma	Outstanding Reviewer Status	Editors, Journal of Alloys & Compounds, Elsevier

19. Visit abroad by the Faculty members (2017-18) :

Name of the Faculty	Institute visited	Purpose	Period
Dr. Banty Tiru	National Atmospheric Research Laboratory Gadanki	Research work	March 2018 (4 days)
Dr. Buddhadeb Bhattacharjee	CERN, Switzerland	Research work	April 2017 (1 week)

20. (a) Sponsored Research Project (2017-18):

Name of the Principal Investigator	Title of the Project	Funding Agency	Duration	Amount(Rs.)
Dr. Abhijit Das	Design and implementation of scanned light sheet microscope with spatial light modulator based beam scanning	SERB DST	3 years	50,84,246.00
Dr. Bimal K. Sarma	ZnO based single layer and multilayer structures as smart transparent conductors	SERB (DST)	3 years	2274000.00
Dr. Buddhadeb Bhattacharjee	ALICE-Upgrade, Operation and Utilization	DST	5 years	18700000.00
Dr. Hemen Kumar Kalita	Graphene derivatives as resistive and capacitive based prototype sensor for soil moisture detection for agriculture applications	UGC	2 years	1000000.00
Dr. Hemen Kumar Kalita	Surface engineered graphene as toxic gas sensors	G. U.	2 years	150000.00
Dr. Hemen Kumar Kalita	Surface engineered graphene based prototype sensor for soil moisture application	ASTEC	2 years	250000.00
Dr. Kalpana Bora	Neutrino nucleon scattering cross sections across energy scales	SERB (DST)	3 years 6 months	2100000.00
Dr. Manos P. C. Kalita	Near-Infrared Emitting Water Soluble Quantum	SERB (DST)	3 years	2642000.00

	Dots			
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(b) Patent Generated:

Sl. No.	Name of the Faculty	Patent Generated	Remarks
		Nil	

21. Academic distinction earned by the students during (2017-18):

Sl.No.	Name of Examination/Programme	Name of the student	Position held
1	Visited CERN to participate LHC shift and ALICE data analysis (May 2017)	Nur Hussain	JRF
2	Visited CERN to participate LHC shift and ALICE data analysis (May 2017)	Pranjal Sarma	JRF
3	Visited ICTP to participate in “Advanced School on Programmable System-on-Chip for Scientific Instrumentation”	Rubi Baishya	JRF
4	Visited ICTP to participate in “Advanced School on Programmable System-on-Chip for Scientific Instrumentation”	Priya Sarma	JRF

22. Distinguished visitors to the Department during the period 2017-18:

Name of visitors	Address & Designation	Purpose of visit
Prof. Bhupendra Nath Goswami	Former Director, IITM, Pune	Delivered a talk on “CLOUDS : Building Blocks of Tropical Weather and Climate”, 16/02/2018
Prof. M. Gupta	Professor, Punjab University	Delivered a talk on “Understanding the flavor Riddle”, 29/01/2018
Dr. Ken Suzuki	Scientist, Stefan Meyer Institute, Vienna, Austria	Delivered a talk on “Stefan Meyer Institute in Vienna and studies of hadrons with the PANDA Experiment at FAIR”, 26/05/2017
Mr. S. Debanath	Scientist C, ASTEC, Patent Information Center, Guwahati	Delivered a talk on “Intellectual Property Rights”, 27/10/2017
Dr. Bappaditya Pal	Post Doctoral Fellow, Department of Physics, School of Natural Science, Far Eastern Federal University, Vladivostok, Russia	Delivered a talk on 07/04/2017

28. Creation /Increase in infrastructural facilities in the Department/Centre during the period 2017-18:

The Department of Physics has adequate facilities for teaching and learning. The Department houses 8 class rooms, 6 teaching laboratories, 11 research laboratories, 1 computer laboratory, 1 departmental library and a workshop. In addition, the department runs an Astronomical Observatory. These facilities are accessible to PhD scholars for their research and M. Sc students for regular lab and project activities. Descriptions of the major facilities of this department are presented below:

Computer Laboratory: The department has 24×7 computer facilities with high-speed, fiber optic as well as Wi-Fi internet connection. It facilitates all necessary commercial and open source software under Linux and Windows platform. Sophisticated Clusters for parallel computation are also introduced in this facility. There are all together 20 Brand New All-in-One business class desktop PCs, 10 nos. of ordinary desktop PCs, one network server, one internet server, two network file servers, and two high end computing servers. Besides, the lab has network laser printers, and a colour laser printer distributed across the department. The whole set up runs several high capacity online UPS, with connections spreading across the whole department and laboratories.

Nuclear Physics Teaching Laboratory: The laboratory is upgraded and renovated with air conditioning facility.

Spectroscopy Research Laboratory: Spectroscopy research laboratory is recently renovated.

Adv. Electronics Laboratory: Adv. Electronics laboratory is upgraded with air-conditioning system.

Smart class room: Physics Gallery is recently upgraded to modern Smart Class room with audio and visual facilities.

Astrophysics Research Laboratory: Astrophysics research laboratory is recently renovated.

High Energy Physics Research Laboratory: High Energy Physics research laboratory is recently upgraded with Latest Desktop PCs and air-conditioning system.

29. Provisions for (a) computer access (b) internet access and (c) training to teachers, non-teaching staff and students of the Department/Centre:

- (a) Newly upgraded Computer Laboratory has installed 25 nos. of All in One Desktop computers with i7 processor with LINUX o/s and other latest softwares.
- (b) Printing Black/White and Colour laser printing facility is also installed. Training is provided to students of M.Sc in Physics and M.Sc in Radiological Physics regularly.

30. Technology up gradation in the Department/Centre during the period 2017-18:

The Department of Physics has centrally managed, 24×7, high-speed wireless facility which is accessible at each and every point of the department. Wi-Fi and LAN facilities are updated recently in terms of increased access points, speed, and network troubleshooting capability, access point management, energy efficient ethernet and network security. Computer lab is modernized with the introduction of 20 numbers of high speed, up-to-date configuration computers (Core-i7). The departmental office is automated by introducing high-speed Wi-Fi and LAN, copying, scanning and remotely accessible printing facilities. CCTV cameras are installed at the entrance of the department which is accessible via departmental LAN. Physics Lecture Gallery is fully modernized with the addition of ICT-enabled facilities like smart board, lecture recording system, video conference facilities etc. Student attendance in first year is taken biometrically and the attendance records are made available online to the students.

31. Linkages developed with National/International/Academic/Research Bodies:

- CERN, Geneva, Switzerland
- GSI, Darmstadt, Germany
- Rutherford Appleton Laboratory, UK
- University of York, UK
- UGC, New Delhi
- DST, Govt. of India
- ASTEC, Assam
- IASST, Guwahati

32. Academic activities of Faculty members during the period of report (2017-18):

a) Seminar/Conferences/ Workshops attended/presented paper by the faculty during the period:

Name of the faculty(s)	No. of Seminar	No. of Workshops
Dr. Madhurjya P Bora	1	
Dr. Anurup Gohain Barua	4	
Dr. Banty Tiru	2	
Dr. Bimal Kumar Sarma	1	1
Dr. Buddhadeb Bhattacharjee	1	
Dr. Hemen Kumar Kalita	1	
Dr. Kalpana Bora	1	1
Dr. Kalyanee Boruah	2	
Dr. Manos P C Kalita	1	
Dr. Sanjeev Kalita		1
Dr. Subhankar Roy	1	

b) Name of the teacher(s) acted as resource person(s) during the period (state briefly):

- **Dr. Madhurjya P Bora** delivered invited special evening lecture *Hymn to Agni - the source of life*, SERB School on Frontiers in Quantum Optics, IIT Guwahati December 2017.
- **Dr. Anurup Gohain Barua** acted as a resource person and delivered a talk on *The Light of the firefly* in the seminar on Recent Trend in Biophysics, Jawaharlal Nehru College, Boko, February 2018.
- **Dr. Sanjeev Kalita** acted as a resource person and delivered a talk on *Stars as distant markers in the Universe* in the State Level Master Resource Person Workshop cum training on Basic Observational Astronomy, April 2018.
- **Dr. Bimal K. Sarma** acted as a resource person and delivered a lecture on *Micro/Nanostructured Semiconductors and Their Hybrid Thin Films with Special Mention of Plasma Nanotechnology* in the National Workshop on Thin Film Technology and Applications at NIT Nagaland, February 9–13, 2018.

c) Refresher Course/ Orientation Course attended by the teachers during the period:

Name of the faculty	Refresher Course	Orientation Course
Dr. Sanjeev Kalita		OP-115
Dr. Sulochana Deb		OP-115

d) Details of paper published in the Referred journals during the period:

Name of the faculty	Title of the paper	Name of the journal with Vol. No. & Date
Dr. Kalyanee Boruah	Broadening of the thermal	New Astronomy 55 (2017) 22

	component of the prompt GRB emission due to rapid temperature evolution	
Dr. Anurup Gohain Barua	Coherence of the light of the firefly <i>Luciola praeusta</i>	Current Science 114 (2018) 637
Dr. Madhurjya P. Bora	Dust acoustic solitons and polarization force	Physics of Plasmas 25 (2018)14501
Dr. Buddhadev Bhattacharjee	Strange behavior of rapidity dependent strangeness enhancement of particles containing and not containing leading quarks	Nuclear Physics A 965 (2017) 74
	Role of net baryon density on rapidity width of identified particles from the lowest energies available at the CERN Super Proton Synchrotron to those at the BNL Relativistic Heavy Ion Collider and at the CERN Large Hadron Collider	Physical Review C 96 (2017) 24903
Dr. Deepali Sarkar	Effect of annealing temperature on optical properties of silver-PVA nanocomposite	Optik 157 (2018) 1115
	Morphological, structural and electrical properties of polypyrrole nano coated bamboo cellulose fibre	Indian J. Fibre Text. Res. 43 (2018) 66
	One-pot synthesis of zinc oxide-polyaniline nanocomposite for fabrication of efficient room temperature ammonia gas sensor	Ceramic International 43 (2017) 11123
	Development of room temperature ethanol sensor from polypyrrole (PPy) embedded in polyvinyl alcohol (PVA) matrix	Polymer Bulletin 75 (2018) 3109
	UV-Visible optical photo-detection from porous silicon (PS) MSM device	Superlattices and Microstructures 101 (2017) 228
Dr. Banty Tiru	An analysis of frequency selectivity of indoor power line channels for broadband communication	ARPJ Journal of Engineering and Applied Sciences 13 (2018) 2213
Dr. Kalpana Bora	Effects of Leptonic Nonunitarity on Lepton Flavor Violation, Neutrino Oscillation, Leptogenesis, and Lightest Neutrino Mass	Advances in High Energy Physics 2018 (2018) 5093251
	Probing Majorana neutrino textures at DUNE	Physical Review D 96 (2017) 075006
	Neutrino cross-section in ultrahigh energy regime using double asymptotic limit of QCD	Pramana 89 (2017) 60
Dr. Manos P. C. Kalita	Structural phase controlled transition metal (Fe, Co, Ni, Mn) doping in CdS nanocrystals and their optical, magnetic and photocatalytic properties	Journal Alloys and Compounds 757 (2018) 209
	Effects of size reduction on microstructural, optical, vibrational, magnetic and photocatalytic properties of ZnO nanocrystals	Materials Characterization 137 (2018) 109
	Structural, optical and ion sensing properties of 2-mercaptoethanol capped Mn-doped ZnS nanocrystals	Superlattices and Microstructures 111 (2017) 373
	On the influence of Raman scattering of water in the photoluminescence measurement of water dispersed ZnO nanocrystals	Methods and Applications in Fluorescence 5 (2017) 027001
	Williamson-Hall analysis and optical properties of small sized ZnO nanocrystals	Physica E 92 (2017) 36
Dr. Sanjeev Kalita	An unnoticed significance of the	Astrophysics 60 (2017) 422

	Chandrasekhar mass limit	
	Effect of the Kerr metric on Photospheric Radius Expansion in X Ray burst	Astrophysics 60 (2017) 582
	Revealing new picture of dark matter through test of gravity near the Galactic Centre	Res. Notes AAS 1 (2017) 27
	Gravitational Theories near the Galactic Center	The Astrophysical Journal 855 (2018) 70
Dr. Bimal K. Sarma	Role of residual stress and texture of ZnO nanocrystals on electro-optical properties of ZnO/Ag/ZnO multilayer transparent conductors	Journal of Alloys and Compounds 734 (2018) 210
	Fabrication of Ag/ZnO heterostructure and the role of surface coverage of ZnO microrods by Ag nanoparticles on the photophysical and photocatalytic properties of the metal-semiconductor system	Applied Surface Science 410 (2017) 557
Dr. Sulochana Deb	Effect of annealing temperature on optical properties of silver-PVA nanocomposite	Optik 157 (2018) 1115
Dr. Simanta Hazarika	Prediction of Ripening Stage of Cameo Apple Using Fourier-Transform Infrared Spectroscopy	International Journal of Fruit Science 18 (2018) 188
Dr. Subhankar Roy	Leptogenesis in quasi-degenerate neutrino mass models with non-zero θ_{13}	Canadian Journal of Physics 96 (2018) 71
	Stability of the neutrino parameters and self complementarity relation with varying SUSY breaking scale	Physical Review D 97 (2018) 055038
Dr. Kushal Kalita	The PANDA Barrel-TOF Detector at FAIR	Journal of Instrumentation, C08017, 12 , (2017)
	Momentum fractions carried by quarks and gluons in models of proton structure functions at small x	International Journal of Modern Physics A 32 (2017) 1750107
Dr. Hemen Kumar Kalita	Correlations between preparation methods, structural features and electrochemical Li-storage behavior of reduced graphene oxide	Nanoscale 9 (2017) 11303

e) Paper published in other journals during the period (only those considered for API Score).

Name of the faculty	Title of the paper	Name of the Journals with Vol. No. & Date
	Nil	

f) Details of book published during the period:

Name of the faculty	Title of the Book(s)	Date of publications
	Nil	

33. Placement record during the period (Please state briefly):

Students are able to join PhD programs in institutes of national importance such as IITs, SINP etc. in addition to their placements for research works at various state and central Universities, IASST, CPP-IPR and NITs. Some students have joined regular jobs at central institutes, colleges, schools, and banking sectors.

34. Placement services provided to students by the Department/Centre, if any:

The University has dedicated placement cell and students receive communications from the cell for recruitment drive by several agencies. In addition, students are made aware of various job vacancies and national and international research positions for PhD programme.

30. Is there any Student Counseling Unit in the Department/Centre? If yes state activities during the period under report.

Although we do not have dedicated Unit for Student Counseling, the Department has mentor-mentee system in place where 5-6 students are allotted a faculty member as mentor for counseling. The students are advised on issues pertaining primarily to their academics from time to time and as and when necessary.

31. Departmental Library:

a)	No. of Books as on 31.03.2018	2059
b)	New Books procured during the period	8
c)	No. of Journals as on 31.03.2018	405
d)	New Journals procured during the period	Nil
e)	No. of users during the period :	96

32. Departmental publications:

The Department has annual research publication, *Horizon – a journal of Physics* where invited research articles from distinguished scientists, regular research papers from the Department and affiliated colleges are published as peer review publications.

33. Activities and support from the Alumni Association of the Department/Centre:

The Department organized Alumni meet in Feb 2018 and responses have been encouraging and the Department will look forward to have more such programs involving alumni to strengthen bonding of the Department with former students.

34. Activities and support from the Parent-Teacher Associations if any: Nil

35. Involvement in Community services:

The faculty members frequently visit different colleges, and centres to deliver scientific presentations and motivate students to devote in understanding Physics. The Department under the banner of Physical Society, G.U. has initiated extension and outreach activities where students and faculty members will visit schools and interact through scientific activities for promoting science education.

36. Provision for financial aid to students in the Department/Centre, if any:

Students from low family income background are admitted under fee waiver scheme of the Government of Assam. Students are encouraged to participate in various scientific events and present their projects in science fair and related expenditures are met by the Department.

37. Provision for student assessment of teachers. If such provisions exist, the courses in which student assessment is obtained and action taken on this feedback may please be stated.

The department has the provision of online students' feedback where anonymous students feedback are invited to assess the course outcome and teachers performance. The overall views and issues are shared and discussed and performances of teachers are confidentially communicated to the teachers individually.

38. Information on up to five Good Practices followed by the Department/Centre:

- Classes with rigorous approach to understand Physics problems
- Timely declaration examination results, regular students' feedback and follow up action
- Regular Friday Seminar by the students, invited distinguished scientists, research scholars, and faculty members and other co-curricular activities are conducted under the name of Physical Society of the Department.
- Continuous upgradation of Teaching Laboratories by introducing new experiments with uninterrupted power supply
- Non teaching members are trained to improve efficiency in official works and providing better technical assistance in Teaching Labs.

39. Detail the plans of the Department/Centre/Institute for the next year:

The Department of Physics is mapped under University CBCS for PG courses and new elective papers shall be introduced considering the students' interests and placements. New classrooms with adequate ICT will be created to improve the class room ambience. Lab space to start Robotics lab and innovation practices will be made available in the upcoming extension building. An attempt will be made to create common research facilities and renovation of Physics workshop to cater needs of the students, research scholars, and faculties.

Head, Dept. of Physics

Sl. No	Name of the teacher	Qualification	Specialization	Sex (Male/ Female)	Caste (Gen/ SC/ST/ OBC/ PH	Carrier status (Professor/ Associate Prof. / Asstt. Prof.	Full Time/ Contractual
1.	Dr. H.K. Baruah (Retired on 30.11.2017)	M.Sc,Ph.D	Numerical Analysis,OR, Fuzzy Mathematics	Male	Gen	Professor	Full Time
2.	Dr. D.C. Nath (Retired on 30.11.2017)	M.Sc, Ph.D	Demography, Actuarial Statistics	Male	Gen	Professor	Full Time
3.	Dr. P. Sarmah (Retired on 31.1.2018)	M.Sc, M.Phil, Ph.D	Operation Research	Female	Gen	Professor	Full Time
4.	Dr. L. Choudhury	M.Sc, M.Phil, Ph.D	Demography	Male	Gen	Professor	Full Time
5.	Dr. K.K. Das	M.Sc, Ph.D	Combinatorial Probability, Distribution Theory, Data Analysis	Male	Gen	Professor	Full Time
6.	Dr. Amit Choudhury (On lien w.e.f.2.4.2018)	M.Sc, Ph.D	Operation Research	Male	Gen	Professor	Full Time
8.	Dr. Jagriti Das	M.Sc, Ph.D	Actuarial Statistics	Female	SC	Assistant Professor	Full Time
9.	Dr. Pallabi Medhi	M.Sc, Ph.D	Operation Research	Female	Gen	Assistant Professor	Full Time
10.	Ms. Paramita Roy	M.Sc	Operation Research	Female	Gen	Assistant Professor	Full Time
11.	Ms. Sahana Bhattacharjee	M.Sc	Distribution Theory	Female	Gen	Assistant Professor	Full Time

- | | | | |
|---------------|---|---------------|----|
| a) Full Time: | 7 | b) Part time: | 28 |
|---------------|---|---------------|----|

[illegible]

12. Teacher-Student and Teacher- Non-teaching staff Ratio :

No. of Teacher	No. of student	No. of Non-teaching staff
10	64	5
Teacher/Student Ratio		Teacher-Non-teaching Staff Ratio
5:32		2:1

13. Final Examination result during the session 2017-18:

(a) No. Appeared

Subject	Total Appeared			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			P.H.		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Statistics	12	14	26	0	0	0	2	1	3	1	0	1	6	6	12	0	0	0

(b) No. Passed

Subject	Total Passed			S.C.			S.T(P)			S.T.(H)			OBC/MOBC			P.H.		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Statistics	6	13	19	0	0	0	0	1	1	0	0	0	3	6	9	0	0	0

14. Details of Ph.D. awarded (2017-18):

Name of the Ph.D. Scholars	Title of the Ph.D. thesis	Guide
Anjana Moyee Saikia	A study of Mortality Situation in Guwahati city during last Quarter Century (1986–2011)	Prof. L. Choudhury
Tandrima Chakraborty	Epidemic Processes of Infectious Diseases: Discrete Time Models	Prof. Dilip C. Nath
Sahana Bhattacharjee	Circular Statistics: An Application to Atmospheric And Health Sciences	Prof. Kishore K. Das
Soma Dhar	A Study on Queue Process on Incoming Patients in Public Hospitals	Prof. Kishore K. Das
Dibyajyoti Bora	Proximate Determinants of Mental Disorders in Assam	Prof. Kishore K. Das
Nijara Rajbongshi	An Epidemiological study on the incidence of cancers in the North-East India with special reference to cervical and breast cancer	Prof. Dilip C. Nath
Alpana Deka	Application of Image Processing and Pattern Recognition for analysis of Handwritten Signatures	Dr. Lipi B. Mahanta

15. Number of students qualified in :

NET(JRF)	NET	SLET	GATE	Any others
-	-	1	-	-

16. Important students' activities and achievements and awards during the period (Please state briefly): Nil

17. Seminar/Summer School/Workshop conducted during the period 2017-18 :

Sl.No.	Name of the Co-ordinator	Name of the Seminar/Summer School/ Workshop/ Refresher Course	Date	Sponsorship
1	Dr.Pallabi Medhi	Statistical Data Analysis using Python Programming Language	26 th - 27 th March, 2018	Gauhati University

18. Honours/Awards/Fellowship (with National/International repute) earned by the Faculty members (2017-18) : Nil

Name of the Faculty	Name of the Award/Fellowship	Conferring agency

19. Visit abroad by the Faculty members (2017-18) : Nil

Name of the Faculty	Institute visited	Purpose	Period

20. Sponsored Research Project (2017-18):Nil

Name of the Principal Investigator	Title of the Project	Funding Agency	Duration	Amount(Rs.)

B-190

Ms. Paramita Roy	A study on the pattern of Household Consumption Expenditure in India with special reference to Post-Reforms period	Gauhati University	3 years	Rs. 1.5 lakh
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21. Academic distinction earned by the students during (2017-18): Nil

Sl.No.	Name of Examination/Programme	Name of the student	Position held

22. Distinguish visitors to the Department during the period 2017-18 : Nil

Name of visitors	Address & Designation	Purpose of visit
Dr. R.B. Barman	Chairman, National statistical Commission, India	To deliver lecture to the students and research scholars of the department

35. Creation/Increase in infrastructural facilities in the Department/Centre during the period 2016-17: Nil

36. Provisions for (a) computer access (b) internet access and (c) training to teachers, non-teaching staff and students of the Department/Centre:

Computer & internet access is available to all teachers, research scholars, and students. Non teaching staff also use computer and internet.

25. Technology upgradation in the Department/Centre during the period 2017-18: Nil

26. Linkages developed with National/International/Academic/Research Bodies : Nil

27. Academic activities of Faculty members during the period of report (2017-18):

a) Seminar/Workshops attended/presented paper by the faculty during the period :

Name of the faculty(s)	No. of Seminar	No. of Workshops
Dr. Sahana Bhattacharjee	Presented a paper in an International Conference	-

b) Name of the teacher(s) acted as resource person(s) during the period (state briefly):

Name of the faculty member: Dr. Sahana Bhattacharjee

Name of the programme: 7 day training course in innovative research dimensions and data analysis in R

No. of lectures delivered: 2

Programme conducted by: Department of Statistics, Assam university, Silchar

Duration of the programme: 16.01.2018 to 22.01.2018

c) Refresher Course/ Orientation Course attended by the teachers during the period

Name of the faculty	Refresher Course	Orientation Course
Ms. Paramita Roy	-	OP-114 conducted by UGC-HRDC, Gauhati University
Dr. Pallabi Medhi	25.10.17-14.11.17 conducted by UGC-HRDC, Gauhati University	29.05.17-24.06.17 conducted by UGC-HRDC, Gauhati University

d) Details of paper published in the Referred journals during the period :

Name of the faculty	Title of the paper	Name of the journal with Vol. No. & Date
Dhruba Das and Hemanta K. Baruah	Imprecise vector: The case of Subnormality	National Academy Science Letters, Vol. 40, Issue 6, pp.455-460
Dhruba Das and Hemanta K. Baruah	Imprecise vector: The case of Subnormality	National Academy Science Letters, Vol. 40, Issue 6, pp.455-460
Dilip C. Nath and Jagriti Das	Modeling of claim severity through the mixture of exponential distribution and computation of its probability of ultimate ruin	Thailand Statistician, Vol. 15, Issue 2, pp.128-148
Verma, V., Nath, D. C. & Das, R.	Bayesian bounds for population proportion under ranked set sampling	Communications in Statistics-Simulation and Computation, DOI: https://doi.org/10.1080/03610918.2017.1387659
Das, R., Verma, V. & Nath, D. C.	Bayesian Estimation of Measles Vaccination Coverage under Ranked Set Sampling	STATISTICS IN TRANSITION new series, Vol. 18, Issue 4, pp.589-608
Sikdar, M. & Sarmah, P.	Pattern recognition in language model with special reference to children	International Journal of Innovative research and advanced studies, Vol.

	stories	4, Issue 3, pp.397-406
Sikdar, M.&Sarmah, P.	Statistical pattern classification of direct speeches in children stories	International journal of applied mathematics and statistical sciences, vol.6, Issue 5, pp.7-18
Sharma, M, Choudhury, L. and Sarma, R.	Dynamic life tables for India and some of its major states	Journal of Population and Social Studies, Vol. 25, Issue 4, pp.343-357
L. Choudhury & Nabanita Saikia	Decomposition of Crude Death Rates for India and its Selected States-1971 and 2011	Indian Journal of Public Health Research & Development. July 2017, Vol (8), Issue-3
L. Choudhury, Mompri Sharma and Anjana Moyee Saikia	Dynamic Life Table for Guwahati City: An Urban Set Up of North Eastern India	Indian Journal of Public Health Research & Development, July 2017, Vol (8), Issue -3
Dhar, S., Das, K.K. and Mahanta, L.B.	An infinite server queueing model with varying arrival and departure rates for healthcare system	International journal of Pure and Applied Mathematics, Vol. 113, Issue 5, pp.583-593
Dibyajyoti Bora and Kishore K Das	Statistical models for age on onset of mental disorders	International journal of scientific and engineering research, vol.8, issue 10, pp.852-859
Dr.Pallabi Medhi	MODELING CUSTOMERS' IMPATIENCE IN M/M/1 QUEUE UNDER GENERAL RENEGING DISTRIBUTION	Journal of Assam Sc. Society, Vol. 57, No.1&2

e) Paper published in other journals during the period (only those considered for API Score). Nil

Name of the faculty	Title of the paper	Name of the Journals with Vol. No. & Date

f) Details of book published during the period : Nil

Name of the faculty	Title of the Book(s)	Date of publications

28. Placement record during the period (Please state briefly): Nil

29. Placement services provided to students by the Department/Centre, if any : Nil

30. Is there any Student Counseling Unit in the Department/Centre ? If yes state activities during the period under report. No

31. Departmental Library :

a)	No. of Books as on 31.03.2018	1480
b)	New Books procured during the period	53
c)	No. of Journals as on 31.03.2018	33
d)	New Journals procured during the period	0
e)	No. of users during the period :	75

32. Departmental publications : Nil

33. Activities and support from the Alumni Association of the Department/Centre : Nil

34. Activities and support from the Parent-Teacher Associations if any : Nil

35. Involvement in Community services : Nil

36. Provision for financial aid to students in the Department/Centre, if any: Nil

37. Provision for student assessment of teachers. If such provisions exist, the courses in which student assessment is obtained and action taken on this feedback may please be stated. Nil

38. Information on up to five Good Practices followed by the Department/Centre:

I. Sessional exams are held on time.

II. Attendance of students are monitored.

III. Friendly teacher-student relationship.

IV. All students and research scholars have access to academic databases and statistical software.

V. Students and research scholars are allowed to take print out of the research papers in the laboratory.

39. Detail the plans of the Department/Centre/Institute for the next year :

**ANNUAL REPORT: DEPARTMENT OF ZOOLOGY
GAUHATI UNIVERSITY(FOR THE PERIOD APRIL 2017 TO MARCH 2018)**

1. a. Name of the Department : Zoology
b. Year of establishment : 1963
2. Head of the Department : Prof. Jatin Kalita
3. Details of Academic Staff (Zoology) :-

Sl. No	Name	Qualification	Specialisation	Sex	Caste	Carrier status	Full/part time
1	Prof.K.Dutta	M.Sc,Ph.D	Cell & Molecular Biology	Female	General	Professor	Full time
2	Prof.R.K.Bhola	M.Sc,Ph.D	Entomology	Male	General	Professor	Full time
3	Prof.J.Kalita	M.Sc,Ph.D	Biodiversity & Conservation Biology	Male	General	Professor	Full time
3	Prof.P.K.Saikia	M.Sc,Ph.D	Animal Ecology & Wildlife Biology	Male	General	Professor	Full time
4	Prof.J.C.Kalita	M.Sc,Ph.D	Physiology	Male	General	Professor	Full time
5	Dr.D.Sarma	M.Sc,Ph.D	Fish Biology & Fishery Science	Male	General	Associate Professor	Full time
6	Dr.B.Khanikar	M.Sc,Ph.D	Entomology	Female	General	Assistant Professor	Full time
7	Dr.Manas Das	M.Sc,Ph.D	Physiology	Male	General	Assistant Professor	Full time
8	Dr.B.Mech	M.Sc,Ph.D	Cell & Molecular Biology	Female	ST	Assistant Professor	Full time
9	H.Choudhury	M.Sc	Fish Biology & Fishery Science	Male	General	Assistant Professor	Full time
10	Dr.M.K.Saikia	M.Sc,Ph.D	Animal Ecology & Wildlife Biology	Female	General	Assistant Professor	Full time

Details of Academic Staff (Wildlife Science):-

Sl.No	Name	Qualification	Specialisation	Sex	Caste	Carrier status	Full/part time
1	Dr.M.K.Saikia	M.Sc,Ph.D	Animal Ecology & Wildlife Biology	Female	General	Assistant Professor	Part time
2	Prof.J.Kalita	M.Sc,Ph.D	Biodiversity & Conservation Biology	Male	General	Professor	Part time
3	Prof.P.K.Saikia	M.Sc,Ph.D	Animal Ecology & Wildlife Biology	Male	General	Professor	Part time
4	Dr.D.Sarma	M.Sc,Ph.D	Fish Biology & Fishery Science	Male	General	Associate Professor	Part time
5	Dr.B.Khanikor	M.Sc,Ph.D	Entomology	Female	General	Assistant Professor	Part time

4. Courses Offered:

1. M.Sc. in Zoology (4 Semester Regular Course)
2. M.Sc. in Wildlife Science (4 Semester Regular Course)
3. Pre-Ph.D. Course in Zoology
4. Ph.D. in Zoology

5. Enrolment of Students in various courses:-

Deptt	Sem	Intake Capacity	No. Admitted	SC	ST(P)	ST(H)	OBC/MOBC
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Zoology M.Sc			M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
	1st	40	7	31	40	2	1	3	2	2	4	0	2	2	1	9	10
	2nd	40	9	31	40	2	1	3	2	5	7				1	9	10
	3rd	40	6	34	40	0	3	3	0	6	6	0	2	2	1	7	8
	4th	40	6	34	40	0	3	3	0	6	6	0	2	2	1	7	8
Animal Ecology & Wildlife Biology	1st	20	6	11	20	0	0	0							2	5	7
	2nd	20	9	11	20	0	0	0							2	5	7
Pre-Ph.d course		NA	2	9	11	1	1	2	1	0	1	0	0	0	0	3	3

6. Teacher Student Ratio

No. of Teachers	No. of Students	T/S Ratio
10	120	1:12

7. Specializations Offered

Sl.No	Name of Special paper	Intake Capacity	No. Admitted
1	Animal Physiology& Biochemistry	08	8
2	Cell & Molecular Biology	08	8
3	Fish Biology & Fishery Science	08	7
4	Entomology	08	8
5	Animal Ecology & Wildlife Biology	08	8

8. Classes held during the Session 2017-2018

Course	Theoretical	Practical
M.Sc 1st Semester	200	162
M.Sc 2nd Semester	220	164
M.Sc 3rd Semester	212	12
M.Sc 4th Semester	185	157
AEWB 1st Semester	145	67
AEWB 2nd Semester	150	79
Pre-Ph.D Course (Zoology)	118	Not applicable

9. Particulars of working days during the session Aug., 2017-July, 2018

No. of actual working days during the session Aug, 2017 - July, 2018		
1	No. of actual working days	180
2	No. of University Examination days	36
3	No. of Departmental Examination days	8
4	No. of days for co-curricular activities	14

10. Final Examination Results during the session 2017-18

(a). No. Appeared

Subject	Total Appeared			SC			ST(P)			ST(H)			OBC			PH		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Zoology	6	32	38	0	3	3	0	5	5	0	2	2	1	6	7	0	0	0
	6	32	38	0	3	3	0	5	5	0	2	2	1	6	7	0	0	0

(b). No. Passed

Subject	Total passed			SC			ST(P)			ST(H)			OBC			PH		
Zoology	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
	6	32	38	0	3	3	0	5	5	0	2	2	1	6	7	0	0	0

M.Sc. in Animal Ecology & Wildlife Biology

(a). No. Appeared

Subject	Total Appeared			SC			ST (P)			ST (H)			OBC/ MOBC			PH		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
AEWB	8	12	20													0	0	0

(b). No. Passed

[illegible]

Pre-Ph.D Course in Zoology

(a). No. Appeared

Subject	Total Appeared			SC			ST (P)			ST (H)			OBC/ MOBC			PH		
Zoology	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
	1	10	11	0	1	1	0	3	3	0	0	0	1	2	3

(b). No. Passed

Subject	Total Passed			SC			ST (P)			ST (H)			OBC/ MOBC			PH		
Zoology	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
	1	10	11	0	1	1	0	3	3	0	0	0	1	2	3			

11. Details of Ph.D. awarded during 2017-18

Sl.No	Name of Ph.D. Student	Name of Guide
1	Sarmistha Brahma	Prof.D.K.Sharma
2	Tandra Phukan	Prof.M.M.Goswami
3	M.Suresh Singh	Dr.Binode Kr. Baruah
4	Pradip Kr. Sahoo	Prof.P.C.Bhattacharjee
5	Mousumi Saikia	Dr.Dipali Devi
6	Prabhat Ch. Sarma	Prof.P.K.Saikia
7	Himangshu Kr. Kalita	Prof.Dandadhar Sarma
8	Rupak Nath	Prof.Dandadhar Sarma
9	W.Subhadra Singh	Prof.Jatin Kalita
10	Y.Rumbai Devi	Prof.Jatin Kalita
11	Biman Kr.Sarma	Dr.Binode Kr. Baruah
12	Kakali Talukdar	Dr.Ratul Ch.Rajkhowa
13	Alakesh Barman	Dr.Binode Kr. Baruah
14	Habibullah Qaiser	Prof.D.K.Sharma
15	Kaushik Mishra	Prof.J.C.Kalita
16	Parthana Mudai	Prof.Jatin Kalita
17	Rahul Sarma	Dr.Rajlakshmi Devi
18	Bhanita Deka	Prof.P.K.Saikia
19	Bhabesh Nath	Prof.D.K.Sharma
20	Dipika Kalita	Prof.Jatin Kalita
21	Arpan Kr. Das	Dr.Bulbuli Khanikor
22	Snigdha Chakraborty	Prof.M.M.Goswami
23	Gitartha Kaushik	Dr.Sabitra C. Bordoloi
24	Sima Kumari	Dr.Rajlakshmi Devi
25	Paramita Choudhury	Dr.Rita Mahanta
26	Sudem Basumatary	Prof.Dandadhar Sarma
27	Mayurakshi Deka	Dr.Uma Dutta
28	Fariha Jabeen	Prof.Dandadhar Sarma
29	Imdadul Islam Khan	Dr.Arup Hazarika
30	Moni Kankana Kalita	Dr.Dipali Devi
31	Mitali Deori	Dr.Dipali Devi Dr.Rajlakshmi Devi
32	Himadri Kalita	Dr.Rajlakshmi Devi
33	Jayanta Kr.Das	Dr.Arup Hazarika
34	Kokila Patowary	Dr.Mamata Goswami
35	Daud Ch. Boro	Dr. Subrata Sharma
36	Tarun Ch. Taid	Dr.Ratul Ch.Rajkhowa

12. Awards/Fellowship earned by Faculty members:

Name of Faculty	Name of Award/Fellowship	Conferring Agency
Nil	Nil	Nil

13. Sponsored Research Project:-

Name of Principal Investigator	Title of the Project	Funding Agency	Duration	Amount
Dr. Dandadhar Sarma	ICAR-NBFGR collaborative program on technological and infrastructure support for development of tribal farmers under TSP scheme in Assam Region	NBFGR	2018-21	7,10,000/-
Dr. Dandadhar Sarma	Attempt to develop diagnostics and preventive measure for suspected fish viral diseases encountered in Assam	DBT,GOI	2018-21	1,43,23,600/-
Dr. Dandadhar Sarma	Establishment of Captive breeding protocols and value additions to selected indigenous ornamental fishes from North East India	DBT,GOI	2018-21	76,46,000/-
Dr. Dandadhar Sarma	Establishment of Aquarium Unit for culture and breeding of indigenous hills stream fishes	ICAR-DCFR,Bhimta 1	2018-21	1,50,000
Dr. P. K. Saikia PI & Co- PI Dr. M. K. Saikia	Biodiversity of Himalayan foot hills of north Bank Landscape, Assam, India.	NMHS , MoEF	2018-2021	1.27,44,000.00

14. Academic distinction earned by the students during 2016-17

		Name of students	Position Held
A	In the PG level examination		
B	No. of students passed UGC-CSIR NET	2	
C	No. of students passed GATE	1	
D	No. of students passed Indian Civil Service Examination	No information
E	No. of students passed GRE	No information
F	No. of students passed TOEFL	No information
G	No. of students passed GMAT	No information
H	Any other (specify) SLET	8	

16. Development of the Department during 2017-18

i. Academic Development	<p>Sincere effort has been made to improve bench skill of the Stakeholders in theoretical as well as in practical knowledge. Following steps has been taken in 2016-17:</p> <ul style="list-style-type: none"> ⇒ By organizing short term training courses in Bioinformatics & proteomics application in Teaching and Research through BIF ⇒ By organizing popular lecture inviting distinguish Scholar of India ⇒ Stakeholders were also get benefitted due to the outcome of various ongoing research project of the department. ⇒ Effort were also imparted to the stake holders about career development by holding interactive session through invited scientist DBT, GOI, New Delhi.
ii. Infrastructure Development	<ul style="list-style-type: none"> ⇒ The GU authority has allocated to the department an area of about 10 acres of land for construction of Aquaculture and Biodiversity project site to carry out advance Research and training. A total 09 pond has already been constructed along with facilities like Hatchery (Carp and Air breathing fishes), hatchling rearing unit, Aquaculture and Limnology laboratory etc (construction is in progress). The site also having a separate area for construction of infrastructure and facilities for Biodiversity thrust area. ⇒ The department has also successfully completed UGC (SAP) phase –II (DRS-II) in March/2013

17. Academic activities of Faculty Members:

Publication of Faculty Members (Academic Session 2017-18)

1. Prof.P.K.Saikia, HoD Zoology

- Ananda Boro, Prasanta Kumar Saikia & Uttam Saikia (2018). New records of bats (Mammalia:Chiroptera) from Assam, northeastern India with a distributional list of bat fauna of the state. *Journal of Threatened Taxa* | www.threatenedtaxa.org | 26 April 2018 | 10(5): 11606–11612 10.11609/jott.3871.10.5.11606-11612.
2. K Yadav, S Dhiman, B Rabha, D Goswami, PK Saikia, V Veer (2017). [Disappearance of *An. minimus* and *An. dirus* from certain malaria endemic areas of Assam, India](#). *Journal of Arthropod-Borne Diseases* 11(1): 27-35.
3. Chakraborty, A and Saikia P. K. (2017). An unusual food plant species consumed (*Cyathea gigantia*, A tree fern) by a Globally Endangered and endemic Primate species of Assam *Trachypitecus gee* Khajuria, 1956: A prospective new adaptive ray towards Anthropogenic forest disturbances in kakoijana Reserve forest, Bongaigaon, Assam, India. *Journal of Global Biosciences*, 6(2): 4814-4822. Impact factor: 1.115.

2. Prof.D.Sarma

- Basumatary S, Choudhury H, Talukdar, B, Sarma D. Length-weight relationships (LWRs) of four freshwater fish species from the Brahmaputra and Barak River basins, northeast India. *J Appl Ichthyol.* 2017;00:1–2. <https://doi.org/10.1111/jai.13536> (IF: 0.845)
- Saikia D. J., Chattapadhyay P, Banerjee G & Sarma D, (2017) Identification and Pathogenicity of *Pseudomonas aeruginosa* DJ1990 on Tail and Fin Rot Disease in Spotted Snakehead. *Journal of the World Aquaculture Society* doi: 10.1111/jwas.12476 (IF: 1.015)
- Choudhury H., D. K. B. Mukhim, S. Basumatary, D. P. Warbah & D. Sarma (2017) *Schistura larketensis*, a new cavernicolous fish (Teleostei: Nemacheilidae) from Meghalaya, Northeast India. *Zootaxa* <http://dx.doi.org/10.11646/zootaxa.4353.1.5> (IF: 0.972)
- Choudhury H, S. Mili, S Basumatary, A Mazumdar & D. Sarma (2017) Length-weight relationships of *Badis dibruensis* Geetakumari and Vishwanath, 2010 (Badidae) and *Lepidocephalichthys arunachalensis* (Datta and Barman, 1984) (Cobitidae) from Subansiri River (Brahmaputra basin), Northeast India. *J Appl Ichthyol.* 2017; 00:1–2. <https://doi.org/10.1111/jai.13505> (IF: 0.845)
- Talukdar, B. H. K. Kalita, R. A. Baishya. S. Basumatary, D. J. Saikia & Sarma. D (2017) Cytotoxic and genotoxic effects of acid mine drainage on fish *Channa punctata* (Bloch). *Ecotoxicology and Environmental Safety* 144 (2017) 72–78 (IF: 3.13)
- Talukdar B, Jabeen F, Kalita HK, Basumatary S, Choudhury H, Sarma D. (2017) Length–weight relationships of two Nemacheilid fish species [*Schistura fasciata* Lokeshwor and Vishwanath, 2011 and *Schistura reticulofasciata* (Singh and Bănărescu, 1982)] from Simsang River, Meghalaya, India. *J Appl Ichthyol.* ; 00:1–2. <https://doi.org/10.1111/jai.13410> (IF: 0.845)
- Basumatary S, Jabeen F, Dey A, Choudhury H., Kalita H. K., Talukdar B & Sarma.D (2017) Length–weight relationships of *Garra birostris* Nebeshwar & Vishwanath, 2013, *Garra amandalei* (Hora, 1921), *Johnius coitor* (Hamilton, 1822) and *Raiamas bola* (Hamilton, 1822) from the Brahmaputra River basin, Northeast India. *J Appl Ichthyol.*; 2017; 00:1–2. <https://doi.org/10.1111/jai.13440> (IF: 0.845)
- Talukdar, B. S. Basumatary, H. K. Kalita, R. A. Baishya. A.Dutta, S. K. Srivastava & Sarma.D (2017) Effects of Acid Mine Drainage of coal mines on some haematological parameters of *Channa punctatus* (Bloch). *Natl. Acad. Sci. Lett. (Springer)* (IF: 0.34)
- Basumatary S., Choudhury H. & Sarma.D (2017) Length-weight relationships of *Hara hara* (Hamilton, 1822), *Pangio pangia* (Hamilton, 1822) and *Setipinna brevifilis* (Valenciennes, 1848) from the Lower Brahmaputra River, Northeast India. *J Appl Ichthyol* 2017;00:1–2. <https://doi.org/10.1111/jai.13481> (IF: 0.845)
- Saikia D. J., Chattapadhyay P, Banerjee G & Sarma D, (2017) Time and Dose Dependent Effect of *Pseudomonas aeruginosa* Infection on the Scales of *Channa punctate* (Bloch) Through Light and Electron Microscopy. *Turk. J. Fish. Aquat.Sci.* 17: 871-876 (IF: 0.566)
- Dey, A & Sarma, D (2018) Diversity, distribution and conservational approach of hillstream ornamental fishes in Manas river, India: An eastern hotspot region 1(1) 104-112
- Kalita M, Choudhury H, Saikia A, Sarma D. (2018) Length–weight relationships of four endemic snakeheads *Channa andrao* Britz, 2013, *Channa aurantimaculata* Musikasinthorn, 2000, *Channa bleheri* Vierke, 1991, and *Channa stewartii* (Playfair, 1876)] from the Brahmaputra drainage, northeast India. *J Appl Ichthyol.* 2018;00:1–2. <https://doi.org/10.1111/jai.13804> (IF: 0.845)

Kalita C, Choudhury H, Sarma D. (2018) Length-weight relationships of three fish species from the lower

Brahmaputra drainage in Assam, India. *J Appl Ichthyol.* 00:1–2. <https://doi.org/10.1111/jai.13704> (IF: 0.845)

Choudhury H, Thaosen S, Dey A, Basumatary S, Sarma D(2018) Length-weight relationships of three fish

species from the Jatinga River (Barak drainage) in Assam, India. *J Appl Ichthyol.* 2018;00:1–2. <https://doi.org/10.1111/jai.13727> (IF: 0.845)

Dey A, Choudhury H, Basumatary S, Bharali R.C & Sarma D.(2018) Length–weight relationships of three freshwater fish species from the Kameng River (Brahmaputra basin) in Arunachal Pradesh, northeast India. *J Appl Ichthyol.* 00:1–2. <https://doi.org/10.1111/jai.13635> (IF: 0.845).

4. Manas Das Asst. Professor

1. **Mazumder P. M.** And Das S. Das M. K. 2017. ISOLATION, CHARACTERIZATION AND ANTIOXIDANT ACTIVITY OF THE ISOLATED COMPOUND OBTAINED FROM METHANOL EXTRACT OF BUTEA MONOSPERMA (LAM.) KUNTZE, INDIAN DRUGS:54(6) 37-42.

5. Dr. Malabika kakati saikia, Asst. Professor

1. **Saikia, M. K. 2017.** ENDEMIC VERTEBRATE FAUNA OF NORTHEAST INDIA WITH SPECIAL REFERENCE TO HERPETOFAUNA, AVIAN AND MAMMALIAN FAUNA: A PRILIMINARY REVIEW, Book, REFLECTION: 81-98. HRDC, GU.

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