





Profile of the Department

1. Name of the department: **BOTANY**
2. Year of Establishment: **2016**
3. Names of Programmes / Courses offered: **B.Sc. Major and Core**
4. Name of Interdisciplinary courses and the Department/units involved: **NIL**
5. Annual/ semester/choice based credit system (programme wise): **Semester**
6. Participation of the department in the courses offered by other Department: **NIL**
7. Courses in collaboration with other Universities, industries, foreign institution: **NIL**
8. Details of course/programmes discontinued (if any) with reasons: **NIL**
9. Number of Teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors	-	4 (non-sanctioned)

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.,)

Name	Qualification	Designation	Specialization	No. Of Years of Experience	Photo
Dr. Purnima Saikia	Ph.D.	Assistant Professor	Cytogenetics and Plant Breeding	3 years	
Mr. Ambarish Bhuyan	M.Sc., SLET	Assistant Professor	Plant Physiology and Biochemistry	3 years	
Dr. Sukanya Baruah Chaliha	Ph.D.	Assistant Professor	Cytogenetics and Plant Breeding	2 years	

Dr. Amal Bawri	Ph.D.	Assistant Professor	Plant Taxonomy & Plant Ecology	1 Years	
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- 11 List of senior visiting faculty: **1. Prof. P.K. Borua**
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **NIL**
13. Student -Teacher Ratio (programme wise): **Major: 29: 1**
General: 21: 1
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **NIL**
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:
Ph.D – 03, M.Sc. – 01
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grant received: **NIL**
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc and total grant received: **NIL**
18. Research centre/ facility recognized by the University: **NIL**
19. Publications:
 - Publications per faculty:
Dr. Purnima Saikia

Research Publications in Journals:

Year	Title of the Paper	Publishing Journal	ISSN
2016	Role of plant growth regulators(PGRs) in in vitro seed germination of <i>Acampe rigida</i> (Buch.-Ham.EX SW)P.F.Hunt.	International Journal Of Current Research (IJCR) Vol. 8, Issue11, pp.41595-41597, Nov.	0975-8333X, SJIF-7.617
2017	Role of different concentration of PGRS(plant growth regulators) on in vitro multiplication of <i>Dendrobium fimbriatum</i> var. <i>oculatum</i> using nodal segments.	IOSR Journal of Biotechnology and Biochemistry(JBB). Vol. 3, Issue 1, pp 98-100, Jan-Feb.	2455-264X, IF- 3.98
2017	Significance of different concentrations of plant growth regulators(PGRS) on in vitro multiplication	IOSR Journal of Biotechnology and	2455-

	of <i>Dendrobium moschatum</i> (Buch.-Ham.)SW. using nodular explants.	Biochemistry(JBB). Vol. 3, Issue 5, pp 54-57, Sep-Oct.	264X, IF- 3.98
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- Papers/Chapters in edited books

Year	Book/Chapter(s)	Name of the Book/Publisher	ISBN
2018	Orchids, their importance and their suitable potting mixes.	Emerging Trends in Multidisciplinary Research.	978-93-5105-359-0

Mr. Ambarish Bhuyan

- Research Publications in Journals:

Year	Title of the Paper	Publishing Journal	ISSN
2015	Effect of different kinds of salt and their different levels on seed germination of <i>Trigonella foenum-graecum</i> L.	Golden Research Thoughts Vol-5(1): 1-6.	2231-5063
2015	Ethnomedicinal plants used by the Sonowal Kacharis of Dibrugarh District, Assam, India.	International Journal of Applied Research Vol-1(9): 87-90.	2394-7500

- Papers/Chapters in edited books

Year	Book/Chapter(s)	Name of the Book/Publisher	ISBN
2015	Effect of salinity stress on seed germination and early seedling growth of <i>Vigna radiata</i> (L.) Wilczek	Research Quest	978-93-82746-76-8
2016	Effect of carbonates on seed germination and early seedling growth of <i>Tigonella foenum-graecum</i> L.	Dimensions of Multidisciplinary Research Studies	978-93-5105-260-9
2018	Traditional Healing Plants used by the Mising tribe of the Brahmaputra Valley, Assam	Recent Trends in Environment and Society-its issues and discussions	978-93-82283-14-0
2018	Effect of BaCl ₂ and FeCl ₃ on seed germination of <i>Vigna radiata</i> (l.)wilczek	Emerging Trends in Multidisciplinary Research.	978-93-5105-359-0

Dr. Sukanya Baruah Chaliha

- Research Publications in Journals:

Year	Title of the Paper	Publishing Journal	ISSN
2015	Risk Factors Associated with Myocardial Infarction in a North East Indian Study.	International Journal of Health Sciences & Research vol-5,issue-9pp.41-52.	2249-9571
2016	Insertion/Insertion Genotype of Angiotensin I-Converting-Enzyme Gene Predicts Risk of Myocardial Infarction in North East India.	Biochem Genet,vol-54,issue-2 pp.134-46	PubMed PMID: 26687160
2016	Profile of Complementary and Alternative Medicine Use by Diabetic and Hypertensive Patients Presenting with Angina in North East India.	International Journal of Health Sciences & Research. Vol-6,issue-1pp.17-25	2249-9571

- Papers/Chapters in edited books

Year	Book/Chapter(s)	Name of the Book/Publisher	ISBN No
2018	Impact of North-Eastern Medicinal Plants	Recent Trends In Environment And Society- Its Issues And Discussions	978-93-82283-14-0
2018	Use of Traditional Herbal Medicine And Satisfactory Effect Of Arjuna in Cardiac Disesase	Emerging Trends in Multidisiplinary Research.	978-93-5105-359-0

Dr. Amal Bawri

- Research Publications in Journals:

Year	Title of the Paper	Publishing Journal	ISSN
2019	Baro, D., Bawri, A. & Borthakur, S. K. (2019). <i>Tolypanthus maclurei</i> (Merrill) Danser: An addition to flora of India, from Manas National Park, Assam. <i>National Academy of Science Letter</i> https://doi.org/10.1007/s40009-018-0776-1	<i>National Academy of Science Letter</i>	0250-541X (Pr.); 2250-1754 (El.)
2018	Bawri, A., Gajurel, P. R. and Khan, M. L. (2018). An amplified description and conservation status of a little known endemic species: <i>primula jigmedianaw.</i> w. sm. (primulaceae). <i>J. Bombay Nat. Hist. Soc.</i> 115: 17. doi: 10.17087/jbnhs/2018/v115/105653	Journal of Bombay Natural History Society	0006-6982 (Pr.) 2454-1095 (El.)

2017	Bawri, A., Gajurel, P. R. and Khan, M. L. (2017). Lectotypifications of a few names of <i>Primula</i> species. DOI 10.1007/S12225-018-9750-9	<i>Kew Bulletin</i>	0075- 5974 (Pr.); 1874-33x (El.)
2017	Bawri, A. and Borthakur, S. K. (2017). Lectotypifications of <i>Beilschmiediabrandisii</i> species. 27(2): 132-134.	<i>Rheedea</i>	0971-2313
2017	Bawri, A., Gajurel, P. R., & Khan, M.L. (2017). <i>Primula sikkimensis</i> Hook. and <i>P. obliqua</i> W.W.Sm. (Primulaceae) – new additions to the flora of Arunachal Pradesh, India 11 (1)167:171.	Pleione	0973-9467
2016	Bawri, A., Das, A. K., & Gogoi, G.(2016). Notes on <i>Phaulopsis dorsiflora</i> (Retzius) Santapau (Acanthaceae): a lesser known species from Arunachal Pradesh and new record for India. 10(1): 174 -176.	Pleione	0973-9467
2016	Bawri, A., Gajurel, P. R., & Khan, M.L. (2016). <i>Primula calderiana</i> subsp. <i>bawaiia</i> new sub-species of <i>Primula calderiana</i> (Primulaceae) from Eastern Himalaya, India. 265(1):67-72	<i>Phytotaxa,</i>	1179-3155 (pr.);1179-3163 (online)
2015	Bawri, A., Gajurel, P. R., & Khan, M.L.(2015). Rediscovery of <i>Primula polonensis</i> .70:56	Kew Bulletin	0075- 5974 (Pr.); 1874- 33x (El.)
2015	Bawri, A., Gajurel, P. R., Paul, A., & Khan, M. L. (2015). Diversity and distribution of <i>Primula</i> species in western Arunachal Pradesh, eastern Himalayan region, India.7 (1):6788-6795.	Journal of Threatened Taxa	974-7907 (El);0974-7893(Pr.)
2014	Bawri, A., Gajurel, P. R., & Khan, M.L. (2014). New distributional records of <i>Primula</i> species in Arunachal Pradesh, India. 5(1):6-10.	Bioscience Discovery	2249-2321
2014	Bawri, A., Gajurel, P. R., & Khan, M.L. (2014). <i>Primula lacerata</i> (Primulaceae)-a rare species and addition to the flora of India from East Himalayan Region. 24(1):63-66.	Rheedea	0971-2313
2013	Bawri, A., Gajurel, P. R., & Khan, M.L.(2013). Record of <i>Primula waltonii</i> Watt ex I. B. Balfour (Primulaceae) from Arunachal Himalaya with taxonomic notes. 7(1): 262-265	Pleione	0973-9467

- Papers/Chapters in edited books

Year	Book/Chapter(s)	Name of the Book/Publisher	ISBN No
2018	Bawri, A., Gajurel, P.R. & Borthakur, S. K. 2018. Species Composition And Community Characteristics of <i>Primula</i> Habitat In Arunachal Pradesh, Eastern Himalaya. 331-348.	Advances in Botanical Research in North East India/ EBH Publishers (India) M.L. Nehru Road, Panbazar Guwahati-781001, Assam (India)	9789386302526
2018	Deka, J., Bawri, A., Khan, M. L. & Tripathi, O. P. 2018. Species Diversity and Community Analysis Of Apricola Reserve Forest In Assam, N.E India. 311-330.	Advances in Botanical Research in North East India/ EBH Publishers (India) M.L. Nehru Road, Panbazar Guwahati-781001, Assam (India)	9789386302526

- Book Authored

S. No.	Title	ISBN	Year of published	Co-authors
1	Flora of BTAD Vol. I-IV (4 vols.) EBH Publishers (India) M.L. Nehru Road, Panbazar Guwahati-781001, Assam (India)	ISBN978-93-86302-57-1	2018	Borthakur, S. K., Bawri, A., Baro, D. &Baro, A.

- Edited Book/ Proceeding

S.No.	Title	ISBN	Year of published	Co-editors
1	Advances in Botanical Research in North East India EBH Publishers (India) M.L. Nehru Road, Panbazar Guwahati-781001, Assam (India)	ISBN-9789386302526	2018	Borthakur, S. K., Bawri, A. Nath, N.

- Number of papers published in peer reviewed journals (Nationals/ Internationals) by faculty and students: **12**

- Number of publication listed in Database (For Eg: Web of Science, Scopus, Humanities International Complete Dare Database-International Social Sciences Directory, EBSCO host, etc.: **10**)
- Monographs: **NIL**
- Chapter in Books: **9**
- Book Edited: **1**
- Books with ISBN numbers with details of publishers: **4**
- Citation Index
- SNIP
- SJR
- Impact factor
- H-index

20. Areas of consultancy and income generated: **NIL**

21. Faculty as members in

a. National committees:

- East Himalayan Society For Spermatophyte Taxonomy (EHSST)
- Indian Association for Angiosperm Taxonomy (IAAT)

b. International Committees

c. Editorial Boards

22. Student projects:

- Percentage of students who have done in house projects including inter departmental/programme: **NIL**
- Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies: **NIL**

23. Awards / Recognitions received by faculty and students

- DST-SERB National Post-Doctoral Fellow
- Grant: Ruffords Small Grant for nature Conservation, UK
- Ishan Uday Fellowship (Student)

24. List of eminent academicians and scientists/ visitors to the department

1. Prof. P. K. Borua

25. Seminars/Conferabnce/Workshops organised & the source of funding

- National : **NIL**
- International: **NIL**

26. Student profile programme/course wise:

Name of the Course/ programme	Batch	Enrolled
BSc Major	2016	32
	2017	20
	2018	37
	2019	22
BSc General	2016	29
	2017	37
	2018	33
	2019	42

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States
BSc 1 st sem Major (2019batch)	86.37	13.63
BSc 1 st sem General (2019 batch)	95.24	4.76
BSc 3 rd sem Major (2018batch)	83.33	16.67
BSc 3 rd sem General (2018 batch)	95	5
BSc 5 th sem Major (2017 batch)	95.83	4.17

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil service, Defence services, etc?: NIL

29. Students Progression

Student progression	Against % enrolled
UG to PG	14
PG to M.Phil	-
PG to Ph.D.	-

Ph.D. to Post Doctoral	-
Employed	-
• Campus selection	-
• Other than campus selection	1
Entrepreneurship/Self employment	-

30. Details of Infrastructural facilities

- a) Library : **Yes**
- b) Internet facilities for Staff & Students : **Yes**
- c) Class rooms with ICT facility : **Yes**
- d) Laboratories : **1**

31. Number of students receiving financial assistance from college, university, government or other agencies: **1**

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts:

An interactive session by Prof. (Rtd.) P. K. Borua, Director in Charge of Centre for Tea and Agro Studies, Dibrugarh University on “Prospects of studying Life Sciences and Genetics as an interesting subject of Life Sciences” was held on 7th October, 2017

33. Teaching methods adopted to improve student learning

1. Audio-visual tools: Power Point Presentations, Documentaries.
2. Interactive approach – group discussions, lectures, chalk and duster.
3. Providing study materials – notes and books.
4. Encouraging students to refer to general text books, reference books, websites, etc.
5. Use of open source learning platform- MOODLE
6. Field visits.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

1. Observation of World No Tobacco Day on 31st May, 2018

The faculty members of the department delivered a talk on harmful aspects of tobacco

consumption on human health with special reference to cardiovascular system.

2. Plantation on World Environment Day 5th June, 2019

The department organized a plantation programme on 5th June, 2018 to celebrate World Environment Day

3. Germplasm conservation of Medicinal Plants with the collaboration of OUM NGO, Dibrugarh. (29/05/2019)

The department planted selected about 40 species of medicinal plant in the campus with the collaboration of OUM NGO, Dibrugarh.

35. SWOC analysis of the department and Future plans

Strength:

1. Healthy atmosphere – among the staff and students.
2. A healthy work culture- All lectures/tutorials / lab works are held on time.
3. An inspired sense of discipline.

Weakness:

1. Insufficient Books

Opportunities:

1. Development and management of forests, parks, museums, botanical gardens, nurseries, green house management, etc.
2. The knowledge of botanical studies helps in conservation/ protection of biodiversity and to maintain ecological balance.
3. Employment opportunities as horticulturist, environment consultant, ecologists, taxonomists, etc.
4. Teaching beyond classrooms, through organized educational tours and academic interactions.

Challenges:

1. The challenge to update with fast growing changes in the field of biology.
2. To boost the low confidence level of students, enhance their competency and empower them.

Future Plans:

1. To motivate students to appear for competitive examinations.

2. To publish Departmental newsletters and journals.
3. To organize National level seminars and workshops.
4. To involve students in awareness programme towards environment and society