

1	Name of the Department	GEOLOGY				
2	Year of Establishment	1962				
3	Names of Programmes /Courses offered (UG,PG , M.Phil. ,Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG				
4	Names of Interdisciplinary courses and the departments /units involved	NIL				
5	Annual/semester/choice based credit system (programme wise)	Semester based credit system				
6	Participation of the department in the courses offered by other departments	Handles PGDDM Course of IGNOU for students allotted to A.V. College.				
7	Courses in collaboration other/universities/ industries/ foreign/institutions, etc.	NIL				
8	Details of courses/ programmes discontinued (if any) with reasons	does not arise				
9	Number of Teaching posts	Government			Adhoc/ Part time	
			Sanctioned	Filled		
		Professor	-	-	-	
		Associate Professor	02	02	0	
	Asstt. Professor	04	03	0		
10	Faculty profile with name, qualification, designation, specialization (D.Sc. /D.Litt. /Ph.D. /M.Phil. etc.)					
	Name of the faculty	Designation	Highest qualification	Specialization	Experience (In years)	No. of Ph.D. Students guided for the last 4 years
	Sanctioned Posts					
	Dr. Arundhati Chakravorty	Associate Professor	M.Sc., Ph.D	Igneous Petrology, Rock mechanics	20	
	Dr. Hrishikesh Baruah	Associate Professor	M.Sc., Ph.D	Sedimentology, Paleontology	16	02
	Dr. Swapnali Dutta	Asst. Professor	M.Sc.,Ph.D	Structural Geology and Metamorphic Petrology	6	
	Dr. Jonali Medhi	Asst. Professor	M.Sc., Ph.D	Structural Geology and Metamorphic Petrology	6	
	Dr. Niva Rani Devi	Asst. Professor	M.Sc., Ph.D	Structural Geology and Metamorphic Petrology	3	
	Adhoc/ Part timer: 01					

11	List of senior visiting faculty	Dr. Asim Dutta Lahkar					
12	Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Programe	Ratio				
		UG	Major	General			
		B.Sc. 1st Year	7%	17%			
		B.Sc. 2nd Year	6%	20%			
13	Student-Teacher Ratio (programme wise)	Programe	Ratio				
		UG	Major	General			
		B.Sc. 1st Year	5: 1	10 : 1			
		B.Sc. 2nd Year	4 : 1	5 : 1			
14	Number of academic support staff (technical) and administrative staff; sanctioned and filled	Sanctioned	Filled				
		Nil	Nil				
15	Qualifications of teaching faculty with DSc /D.Litt /Ph.D/MPhil/PG.	DSc/ D.Litt	Ph.D	MPhil	PG		
		-----	5	0	0		
16	Number of faculty with ongoing projects from a) National-----01 b) International funding agencies and grants received: Nil						
17	Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received	DST-FIST (Science lab. Grants), Individual researches funded by DST and UGC.					
18	Research Centre/laboratory/facility recognized by the University	Geological research laboratory recognized by the Gauhati University to carry out Ph.D. research.					
19	Publications (2009-15)						
	A. Nos. of papers published in Peer Reviewed /refereed Journal (National/International)						
	Name of the Faculty	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
	Dr. Arundhati Chakravarty	--	--	--	--	--	--
	Dr. Hrishikesh Baruah	--	--	--	2	1	
	Dr. Jonali Medhi	--	--	--	--	--	1
	Dr. Swapnali Dutta	--	--	--	1	--	1
	Dr. Niva Rani Devi	2	1	--	1	--	2
	B. Nos. of Books/Chapters/articles						
Name of the Faculty	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	
Dr. Hrishikesh Baruah	-/-/2	-/-/2	-/1/3	-/-/-	1/2/-	-/-/1	
Dr. Swapnali Dutta	--	--	--	--	1	--	
20	Areas of consultancy and income generated	Sub-soil, Groundwater consultancy done on charity.					

21	Faculty as members in :			
	Name of the Faculty	Name of the international/ National/Regional State level Committees/ Editorial Board	National/ International /Regional	Membership status (Life/Annual)
	Dr. Arundhati Chakravarty	“Aradhana” Socio-cultural organization	National	Life
		UG Section of the Committee of Courses and Studies in Geological Sciences, Gauhati University since 2005.	University level	Member
	Dr. Hrishikesh Baruah	‘The Geological, Mining and Metallurgical Society of India (MGMMS), Calcutta University, Kolkata.	National	Life
		UG Section of the Committee of Courses and Studies in Geological Sciences, Gauhati University since 2005.	University level	Member
		Syllabus reviewer and text book writer for Higher Secondary Council, Assam; State Open School		Member
	Dr. Jonali Medhi	Assam Science Society	Regional	Life
22	Student projects:			
	Percentage of students who have done in-house projects including interdepartmental/programme	Nil		
	Percentage of students placed for projects in other organizations outside the students i.e. Research Laboratories/ Industry / and other agencies.	Transition from UG to PG is 90%. More than 80% of those who opted for PG are seen to be absorbed in Geology related projects, research labs And industries apart from academic institutions. The alumni are in close contact of the department.		
23	Awards/Recognitions received by faculty and students	Students have received various awards in college as well as inter-institutional sports and cultural events.		
24	List of eminent academicians and scientists/visitors to the department	<ol style="list-style-type: none"> 1. Prof. Sachinath Mitra, Senior Professor, Jadavpur University, Kolkata and visiting scientist, NASA 2. Prof. Dhruva Jyoti Saikia, Hon’ble Vice Chancellor, Cotton College State University 3. Prof. Anindya Saarkar, Senior and National Professor, IIT, Kharagpur 4. Prof. Nibir Mandal, Professor and Bhatnagar Award winner, Jadavpur University 5. Prof. N.V. Chalapathi Rao, F.A.Sc., Professor, BHU 6. Dr. Santanu Bose, National Geoscience award winner, Calcutta University 7. Prof. Tarakeswar Kotoki, Dibrugarh University 8. Prof. Sushil Goswami, Dibrugarh University 		

		9. Prof. Pradip Kumar Das, Gauhati University 10. Prof. A. D. Patgiri, Gauhati University 11. Prof. B. P. Duarah, Gauhati University 12. Dr. PratulKalita, Scientist, Central Ground Water Board 13. Dr. UttamGoswami, Chief Geologist, DGM, Govt. of Assam 14. Dr. Swapna Debi, Geologist, Central Ground Water Board																												
25	Seminars/ Conferences/Workshops organized &the source of funding National/international: INTEGRATED LECTURE WORKSHOP on “New Approaches of Geological Field Studies – A Science Academies Education Programme.” held from 9-11 October 2014 Funding Source: 1. Indian Academy of Sciences, Bangalore. 2. Indian National Science Academy, New Delhi. 3. The National Academy of Sciences, Allahabad. Listed below are the experts who participated in the programme as resource persons: 1. Prof. DhruvaJyotiSaikia. Vice Chancellor, Cotton College State University. 2. Prof. AnindyaSarkar. IIT, Kharagpur. Geologist, DGM 3. Prof. NibirMandal ,Jadavpur University, Kolkata. 4. Dr. Santanu Bose. Calcutta University,Kolkata 5. Dr. N. V ChalapathiRao. Banaras Hindu University. 6. Prof. B. P. Duarah , Gauhati University 7. The Department hosts and annual lecture event in memory of Dr. (Mrs.) GayatriBuzarbaruah since 2001 wherein external experts are invited to deliver talk. Listed herewith are the themes on which the experts delivered lectures for the time period:																													
	<table border="1"> <thead> <tr> <th>Year</th> <th>Topic</th> <th>Name</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td>2009-10</td> <td>Disaster Management with reference to NE India</td> <td>Dr. S.C. Goswami</td> <td>Professor Dibrugarh University</td> </tr> <tr> <td>2010-11</td> <td>Groundwater Development of Assam: Scope and strategy</td> <td>Dr. Swapna Devi</td> <td>Geologist, Ground water Board</td> </tr> <tr> <td>2011-12</td> <td> 1.Cenozoic Sedimentation and Tectonic Evolution of Indus, Ganga and Brahmaputra Valley 2. All About Petroleum Exploration </td> <td> Dr.B.P.Duarah Mr.PallavjyotiDeka </td> <td>Professor, Deptt. of Geological sciences, Gauhati University, Guwahati</td> </tr> <tr> <td>2012-13</td> <td>Looking our Planet From the Sky</td> <td>Dr. SantanuSarma</td> <td>Assoc. Prof., Cotton College</td> </tr> <tr> <td>2013-14</td> <td>Groundwater- importance of water conservation and artificial recharge</td> <td>Ms. KabitaSarma</td> <td>Geologist, DGM,Guwahati.</td> </tr> <tr> <td>2014-15</td> <td>Seismic Research on Mohodiscontinuity in NE India</td> <td>Dr. Dipak Kr. Borah</td> <td>Assoc. Prof., Diphu Govt. College</td> </tr> </tbody> </table>	Year	Topic	Name	Designation	2009-10	Disaster Management with reference to NE India	Dr. S.C. Goswami	Professor Dibrugarh University	2010-11	Groundwater Development of Assam: Scope and strategy	Dr. Swapna Devi	Geologist, Ground water Board	2011-12	1. Cenozoic Sedimentation and Tectonic Evolution of Indus, Ganga and Brahmaputra Valley 2. All About Petroleum Exploration	Dr.B.P.Duarah Mr.PallavjyotiDeka	Professor, Deptt. of Geological sciences, Gauhati University, Guwahati	2012-13	Looking our Planet From the Sky	Dr. SantanuSarma	Assoc. Prof., Cotton College	2013-14	Groundwater- importance of water conservation and artificial recharge	Ms. KabitaSarma	Geologist, DGM,Guwahati.	2014-15	Seismic Research on Mohodiscontinuity in NE India	Dr. Dipak Kr. Borah	Assoc. Prof., Diphu Govt. College	
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26	Student profile (programme/course wise):																				
	Year	2009-10			2010-11			2011-12			2012-13			2013-14			2014-15				
	Programme	UG MAJOR			UG MAJOR			UG MAJOR			UG MAJOR			UG MAJOR			UG MAJOR				
	Enrolled	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T		
	1 st Yr.	17	06	13	11	16	27	19	06	25	21	08	29	20	11	31	22	04	26		
	2 nd Yr.	15	06	21	15	06	21	25	22	47	-	-	-	39	16	55	30	20	50		
	3 rd Yr.	08	05	13	14	05	19	14	6	20	19	19	38	23	8	31	29	12	41		
	Total	40	17	57	40	27	67	58	34	92	40	27	67	82	35	117	81	36	117		
	Year	2009-10			2010-11			2011-12			2012-13			2013-14			2014-15				
	Programme	UG MAJOR			UG MAJOR			UG MAJOR			UG MAJOR			UG MAJOR			UG MAJOR				
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T			
Appeared	05	05	10	15	08	23	11	06	17	04	08	12	11	04	15	17	07	24			
Passed	05	05	10	15	08	23	11	06	17	04	08	12	11	04	15	15	07	22			
% of pass	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	88	100	91			
27	Diversity of Students																				
	UG Course			2009-10			2010-11			2011-12			2012-13			2013-14			2014-15		
	% of students from the same state			97%			93%			100%			99%			100%			100%		
	% of students from other States			03%			07%			Nil			01			Nil			Nil		
% of students from abroad			NIL			NIL			NIL			NIL			NIL			NIL			
28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?(2009-2014)									Does not arise											
29	Student progression (2013-14):																				
	UG to PG									90%											
	PG to M.Phil.									N/A											
	PG to Ph.D.									N/A											
	Ph.D.to Post-Doctoral									N/A											
	Employed •Campus selection •Other than campus recruitment									N/A											
	Entrepreneurship/Self-employment									A certificate course on Gemology has been generated and ready for implementation											
30	Details of Infrastructural facilities																				
	a. Library			Nos. of Books in the Departmental Library.						Nos. of Books of the concerned subject in the Central Library.						Journals/ Magazines					
				184, E-Books:1000+						659						Department - 243					
	b. Internet facilities for Staff & Students			No's of lab. for UG level students – 3 No's of lab. for PG level students – NA No's of lab. for Research Scholars – 1 Any specific specialties of the lab. –																	
	c. Class rooms with ICT facilities			01																	
d. Laboratories (Give			1. Three student laboratories are available having good stock of																		

	details)	<p>necessary equipment with some being procured under DST-FIST grants.</p> <ol style="list-style-type: none"> 2. One Ph.D. research lab with good research microscope, granulometric, heavy mineral separators and imaging facilities. 3. Gemmological equipments 4. Department equipped with good E-library stock and N-list connectivity. 					
31	Number of students receiving College, University, Government or other agencies.:						
	Financial assistance from	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
	College						
	University/ Government						
32	Details on student enrichment programmes (special lectures /workshops/ seminar) with external experts	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
		List attached below					
	<ul style="list-style-type: none"> • The Department maintains workable linkages with institutes of higher learning like the Geological Survey of India, Calcutta University, M.L. Sukhadia University, Udaipur, Rajasthan etc. apart from different mines. Students are taken to such institutes and mines to understand the intricacies of nature. • Students have to undertake rigorous field work. • A lecture workshop has been hosted on new approaches of geological field studies sponsored by the Indian Academy of Sciences, Bangalore, New Delhi and Allahabad. • Special lectures from external experts as well as alumni are arranged. Listed herewith are the topics on which external experts delivered lectures. 						
	Year	Topic	Name of the invitees		Designation		
	2009-10	Disaster Management with reference to NE India	Dr. S.C. Goswami		Professor Dibrugarh University		
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	2013-14	1. Delivered Inaugural Speech of Workshop organized by the Department. 2. Groundwater- importance of water conservation and artificial recharge	Prof. Dhruva Jyoti Saikia. Prof. Anindya Sarkar. Prof. Nibir Mandal. Dr. Santanu Bose. Dr. N. V Chalapathi Rao. Prof. B. P. Duarah Ms. Kabita Sarma		Vice Chancellor, Cotton College State University, IIT, Kharagpur. Geologist, DGM Jadavpur University, Kolkata. Calcutta University, Kolkata Banaras Hindu University.		

				Guwahati University Geologist, DGM, Guwahati.
	2014-15	Seismic Research on Mohodiscontinuity in NE India	Dr. Dipak Kr. Borah	Asst. Prof. Diphu Govt. College
33	Teaching methods adopted to improve student learning (ICT, Tutorial class, Extra classes.)		Teaching Method	Comments
			Peer teaching	Yes
			Group discussion:	Yes
			Seminar by students	Yes
			Guest Lecturer:	Yes
			Project making/ Experimental workshop:	Yes
			Any preliminary discussion on earlier topics :	Yes
			Chalk board or Power point	Both
			Educational tour /visit:	Yes
			Any other	Survey, data collection and analyses
34	Participation in Institutional Social Responsibility (ISR) and Extension activities		As an academic institution, the College caters to a number of extension activities right from social service activities under the NSS, NCC, and adoption programme to environmental management surveys. The Department is involved in all the programmes.	
35	SWOC analysis of the department and Future plans			
	Strength	<ul style="list-style-type: none"> The faculty members work hard to help students achieve their desired goals. To maintain the legacy of the department relentless efforts are made. Alumni of the Department are well placed and spread across various parts of the country. The zeal to carry out research related activities are there within the faculty members. 		
	Weakness	<ul style="list-style-type: none"> The Department has less space. Infrastructural facilities needs to be enhanced like thin section cutter, image analyzer, imageries etc. 		
	Opportunities	<ul style="list-style-type: none"> Opportunities are many in terms of receipt of grants to enhance the infrastructural facilities, organize seminars, workshops for both teachers and students. For a department which has completed fifty years of existence such steps are achievable. 		
	Challenges	<ul style="list-style-type: none"> Lack of infrastructural facilities. Semester system has reduced the span of academic interaction time with students with Geology being a new subject for the students. Less number of teachers. 		
	Future Plan	<ul style="list-style-type: none"> To open up PG courses in Geology To develop a good research Centre Work hard relentlessly to create future geoscientists of the Nation as well as good human beings. To maintain close relationship with alumni. 		