CRITERION 5	Faculty Information and Contributions	200

4. FACULTY INFORMATION AND CONTRIBUTIONS (200)

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date of Joining the Institution	Department	Specialization	Academic Research			Sponsored Research (Funded Research)	Consultancy and Product Development
	Degree (highest degree)	University	Year of Graduation						Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment		
Dr Damodar Agarwal	PhD	IIT KGP	2003		Prof.	4.1.84	EE	Ind Eng	1	2			
Dr Durlav Hazarika	PhD	IIT KGP	2000		Prof.	23.07.83	EE	PS		6			
Dr Runumi Sarma	PhD	J.U	2002		Prof.	1.9.86	EE	Img Proc	4	3			
Dr Aroop Bardalai	PhD	GU	2008		Prof.	17.2.85	EE	M/C Cont		2			
Dr Sarmila Patra	PhD	JU	2004		Asso. Prof.		EE	PS	7	4			
Dr Bani Kanta Talukdar	PhD	IIT KGP	2009		Assoc. Prof	31.7.89	EE	PS	2	4			
Dr Dipankar Chanda	PhD	IIT KGP	2003		Asso. Prof.	22.06.2005	EE	PS		3			
Prof. Deeptarka Deka	M.Tech	IIT D	1989		Assoc. Prof	2011	EE	OC					
Dr Satyajit Bhuyan	PhD	JU	2006		Assoc. Prof	24.10.96	EE	PS	5	3			
Dr Bimal Chandra Deka	PhD	IIT B	2004		Assoc. Prof	12.11.92	EE	PS Rb	3	5			
Dr BarnaliGoswami	PhD	JU	2008		Assoc. Prof	8.11.95	EE	PS	4	1			
Dr Amrita Ganguly	PhD	IIT G	2012		Assoc. Prof	8.11.1995	EE	IP	3	6			
Dr Purabi Patowary	PhD	IIT KGP	2016		Assoc. Prof	19.12.1996	EE		2		1		
Mr. Deba Kumar Mahanta	M.Tech	ADBU	2013		Asstt. Prof	3.10.07	EE	OE&OC	12				
Mr. Biswanath Dekaraja	M.Tech	JU	2012		Asstt. Prof	5.1.07	EE	PS					
Mr. Sasanka S. Sarma	M.Tech	JU	2013		Asstt. Prof	03.10.07	EE	HV	1				

Table B.5

5.1 Student-Faculty Ratio (SFR) (20)

No. of UG Programs in the Department (n) :=1

No. of PG Programs in the Department (m) :=1

No. of Students in UG 2nd Year=u1= 99

No. of Students in UG 3rd Year= u2= 99

No. of Students in UG 4th Year= u3 =99

No. of Students in PG 1st Year= p1 =18

No. of Students in PG 2nd Year=p2 =18

No. of Students = Sanctioned Intake + Actual admitted lateral entry students

S =Number of Students in the Department = UG1 + UG2 +UG3 + PG1 +PG2

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Teacher Ratio (STR)

Year	**CAY(2017- 2018)**	**CAY(2016- 2017)**	**CAY(2015- 2016)**
UG1	99	99	99
UG2	99	99	99
UG3	99	99	99
UG	**297**	**297**	**297**
PG1	18	18	18
PG2	18	18	18
PG	36	36	36
Total No. of Students in the Department **(S)**	**333**	**333**	**333**
No. of Faculty in the Department **(F)**	**19**	**17**	**17**
Student Faculty Ratio (SFR)	**SFR1=333/ 19=17.52**	**SFR2= 333/17= 19.58**	**SFR3= 333/17= 19.58**
Average SFR	**SFR=(SFR1+SFR2+SFR3)/3 = 18.89**		

Table B.5.1

Note:

Minimum 75% should be Regular/ full time faculty and the remaining shall be Contractual Faculty/Adjunct Faculty/Resource persons from industry as per AICTE norms and standards.

The contractual faculty will be considered for assessment only if a faculty is drawing a salary as prescribed by the concerned State Government for the contractual faculty in the respective cadre and who have taught over consecutive 4 semesters.

Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 20:1, and zero for average SFR higher than 20:1. Marks distribution is given as below:

15.00 - 15.50 - 20marks

15.51 - 16.50 – 18 marks

16.51 - 17.50 - 16marks

17.51 – 18.50 - 14marks

18.51 – 19.50 - 12marks

19.51 – 20.00 - 10marks

Faculty Cadre Proportion (25)

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required = 1/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per 5.1 = 1/9*23 = 3

F2: Number of Associate Professors required = 2/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per5.1 = 2/9*23 = 6

F3: Number of Assistant Professors required = 6/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per5.1 = 6/9*23 = 16

Year	**Professors**		**Associate Professors**		**Assistant Professors**	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY	3	3	6	9	16	3
CAY*m*1	3	3	6	9	16	3
CAY*m*2	3	3	6	9	16	3
Average Numbers	RF1=3	AF1=3	RF2=6	AF2=9	RF3=16	AF3=3
AF1/RF1	1.00	CADRE= $\left[\left(\frac{AF1}{RF1}\right)+\left(\frac{AF2}{RF2}\right)\times 0.6+\left(\frac{AF3}{RF3}\right)\times 0.4\right]\times 12.5$				
AF2/RF2	1.5	RATIO MARKS $=\left[(1.00)+(1.5)\times 0.6+(0.187)\times 0.4\right]\times 12.5$				
AF3/RF3	0.187	$=24.68\approx 25$				

Table B.5.2

- If AF1 = AF2= 0 then zero marks
- Maximum marks to be limited if it exceeds25

Example: Student No. = 180; Required number of Faculty: 12; RF1= 1, RF2=2 and RF3=9

Case 1: AF1/RF1= 1; AF2/RF2 = 1; AF3/RF3 = 1; Cadre proportion marks = (1+0.6+0.4) x12.5

= 25 Case 2: AF1/RF1= 1; AF2/RF2 = 3/2; AF3/RF3 = 8/9; Cadre proportion marks = (1+0.9+0.3) x12.5 = limited to 25

Case 3:AF1/RF1=0; AF2/RF2=1/2; AF3/RF3=11/9; Cadre proportion marks = (0+0.3+0.49) x12.5 = 9.87

Faculty Qualification (25)

FQ =2.5 x [(10X +4Y)/F)] where x is no. of regular faculty with Ph.D., Y is no. of regular faculty with M.Tech. F is no. of regular faculty required to comply 1:15 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

Years	X	Y	F	FQ=2.5 x [(10X +4Y)/F)]
2017-18	11	8	23	15.43
2016-2017	12	3	23	14.34
2015-2016	12	3	23	14.34
Average Assessment				14.70≈15

Table B.5.3

Faculty Retention (25)

No. of regular faculty members in CAY*m*2= 15 CAY*m*1=15 CAY=13

Years	No. Of Regular Faculty	No. Of Faculty Retained	Retention %
2015-2016	**15**	**15**	**100**
2016-2017	**15**	**15**	**100**
2017-2018	**15**	**13**	**87**
Average			**96**

Table B.5.4

No. of regular faculty members retained keeping CAYm2 (2014-15) as base year = 15

No. of regular faculty members in CAY m3 (2014-15) = 15

Therefore, Faculty retention is = (15/15)*100=100 %

Innovations by the Faculty in Teaching and Learning (20)

- Faculty members have not limited the teaching learning process to only blackboard teaching.
- Faculties have taken initiatives to arrange lectures on topics related to their courses beyond the

syllabus.

- Students are encouraged to engage in learning through web courses and assignments based on different software tools are given to the students
- Every semester end, a viva voce, covering all the topics up to that semester, is organized where comprehensive learning is tested.
- Soft skill training is given to the students for preparing them for the campus placements.
- Hands-on training on different aspects of the curriculum is given to the students to improve their practical knowledge.
- The area where some additional inputs can be given, training and seminars are held in the Department. Some of the initiatives are given below:

Appropriate Methods to improve Teaching and Learning Process with relevance Curriculum

Sl. No	Topics	Technical talk/ workshop	Resource Person	Date
1.	Electronic Design	Seminar on "Electronic System Design and Manufacturing"	Manoj Kumar, Application Engineer, Entuple Technologies Pvt. Ltd	11.11.2017
2.	MATLAB	40 Hrs Training on MATLAB and Simulink	17th to 21st Dec' 2017	Micropro Kolkata
3.	Embedded System	40 Hrs workshop cum training on "Embedded System" Aurdino	22nd to 27th Dec, 2017	Micropro, Kolkata
4.	Transformer Construction	Industry Visit for students to Transformer Manufacturing Unit	09/03/2018	Er. Bimal Das Proprietor, Powermake Industries
5	Practical Exposure	Hands-on training	27th to 31st Mar 2018	Industry Visit to ITI for students
6.	Hands on	3-days Workshop on LABView and Its Practical Applications	29th to 31st Mar, 2018	Dr. Kanthalakshmi, EEE Dept. PSG College, Coimbatore

Table B.5.5

Faculty as participants in Faculty development/training activities/STTPs(15)

- A Faculty scores maximum five points for participation
- Participation in 2 to 5 days Faculty development program: 3 Points
- Participation>5 days Faculty development program: 5 point

Name of Faculty	Max. 5 per Faculty		
	17-18	16-17	15-16
Dr Damodar Agarwal	3		3
Dr Durlav Hazarika			

Dr Runumi Sarma Bordoloi	3	3	
Dr Aroop Bardalai		3	
Dr Sarmila Patra	3	3	
Dr Bani Kanta Talukdar		3	3
Dr Dipankar Chanda			3
Dr Satyajit Bhuyan	3	3	5
Dr Bimal Chandra Deka			3
Dr Barnali Goswami			5
Dr Amrita Ganguly	5		5
Dr PurabiPatowari			5
Mr. Deba Kumar Mahanta		3	5
Mr. Biswanath Dekaraja	5	5	5
Mr. Sasanka S. Sarma	5	5	5
Sum	27	28	47
RF = Number of Faculty required to comply with 15:1 Student-Faculty ratio as per 5.1	23	23	23
Assessment = 3×(Sum/0.5RF) (Marks limited to 15)	7.04	7.3	12.26
Average Assessment over three years (Marks limited to 15) = 8.86≈9			

Table B.5.6

Research and Development(30)

Academic Research (10)

Ph.D. guided /Ph.D. awarded during the assessment period

Research Guide	Name of the Scholar	Area of Research	Year of Completion	Status
Dr Damodar Agarwal	Dipankar Kalita	LED Lighting	continuing	course work completed
	Biplobjyoti Saikia	DG and Power Control	continuing	course work completed
Dr Durlav Hazarika	S Bhuyan	PS planning and operation	2006	Completed
	P K Sarmah	Instrumentation Engineering	2009	Completed
	Neelanjana Baurah	PS planning and operation	2011	Completed
	R Das	PS planning and operation	2016	Completed
	C Das	Embedded system in Sericulture Industry	2017	Completed
	B M Gupta	Power system Voltage stability	continuing	Thesis Submitted
	Smriti Dey	Operation planning of FACTS devices	continuing	Synopsis Submitted

	Gitu Das	Micro Grid Operation Planning	continuing	Synopsis Submitted
	J K Barman	Railway Track condition monitoring	continuing	Synopsis Submitted
	Dipankar Sutradhar	Instrumentation Engineering	continuing	Course work complete
	Raj Kamal Kakoti	Power system corridor	continuing	Course work complete
Dr Runumi Sarma	Mrs. Debirupa Hore	Wind Driven DFIG	Submitted in 2018	Reports awaited
	Mrs. Sangita Choudhury	DIP	continuing	Course work completed
	Ms. Jugasri Joy Sarma	FRA for Transformer	continuing	Course work completed
Dr Aroop Bardalai	Sanjeeb Hazarika(Jointly with Dr. Satyajit Bhuyan)	Power System	continuing	Synopsis Submitted
	Hrishikesh Sarma	Electric Drive	continuing	Synopsis Submitted
Dr Sarmila Patra	Mitali Chakravorty	Power System	2017	submitted
	Ritunjoy Bhuyan	Power System	2017	submitted
	Suranjana Bhardwaj	Power System	continuing	Synopsis Submitted
	Nayan Jyoti Pathak	Power System	continuing	Synopsis Submitted
Dr Bani Kanta Talukdar	Jesif Ahmed	FACTS Devices, PS	continuing	Synopsis Submitted
	Anupam Saikia	Power system	continuing	Course work completed
	Pallabi Roy	Power System	continuing	Course work completed
	Sourav Deka	Power System	continuing	Course work complete
Dr Dipankar Chanda	Rupjyoti Haloi	Biomedical Signal Proc	continuing	Course work complete
	Jumpi Dutta	Biomedical Signal Proc	continuing	Course work complete
	Rulia Azam	Biomedical Signal Proc	continuing	Course work complete
Dr Satyajit Bhuyan	Manash Jyoti Baishya	Power System	continuing	Course work complete
	Abu Hachan Shah	Power System	continuing	Course work complete
	Sanjib Hazarika(Jointly with Dr. Aroop Bardalai)	Power System	continuing	Course work complete
Dr Bimal Chandra Deka	Basudev Das	Power System Reliability	submitted 2018	submitted
	Pranab Kumar Goswami	Reliability	continuing	Course work complete
	Bipul Talukdar	Renewable Energy	continuing	Course work complete

	Mousumi Patowary(CG)	Microgrid	continuing	Submit in May 2018
	Mrigakshi Sarma	Renewable Energy	continuing	Course work complete
Dr BarnaliGoswami	Bhaskar Mahanta	P S Optimization	continuing	Synopsis Submitted
Dr Amrita Ganguly	Chayashree Patgiri	Biomedical Image Processing	continuing	Synopsis Submitted
	Namrata Kataki	Biomedical Image Processing	continuing	Synopsis Submitted
	Nisha Goswami	Image Processing	continuing	Course work complete
	Mausam Choudhury	Image Processing	continuing	Course work complete
	Munmi Dutta	Image Processing	continuing	Course work complete
	Chandana Deb	Image Processing	continuing	Course work complete

*** CG= Co Guide** ***Table B.5.7.1a***

Faculty Pursuing Ph.D.

Mr. Deba Kumar Mahanta

List of Publications

Name of the Faculty	Title of the paper	Name of the journal	Name of the Conference	ISBN/ISSN/ Proceeding	Volume /No.	Date & Year of publication
Dr Durlav Hazarika	Development of Microprocessor based Embedded System for detection of mature muga	Sericologia		0250-3980	Vol 53 Issue-3	2015
	Use of DFIWG for Improvement of Voltage Stability Condition of a Power System	J. Inst. Eng. India Ser. B		2250-2106	Vol. 99 No. 1 61–69	2018
	A Method for Optimal Load Dispatch of a Multi-zone Power System with Zonal Exchange Constraints	J. Inst. Eng. India Ser. B			Volume 99, Issue 2,	2018

	Improvement of bus voltage profile of a target bus using doubly fed induction generator-based distributed generator		IEEE International conference on power and embedded derive control (ICPEDC2017) Chennai ,India		386-391	2017
Dr Runumi Sarma	Improved control of Dynamic Responses of wind driven DFIG under fault condition		ICCUBEA 2015 IEEE conference.	ISBN: 978-1-4799-6892-3	pp 511-515	2015
	Modeling, analysis and operation of wind driven DFIG under unbalance network voltage conditions: a review	IJCRR January 2015.		ISSN: 2231-2196 (Print) ISSN: 0975-5241 (Online)	Volume 7 Issue 1	2015
Dr Sarmila Patra	A New Methodology for Reliability Analysis of Interconnected Power System by using Improved Genetic Algorithm	Trends in Electrical Engineering, STM journal			5 (3),	2015
	Measurement and Classification of Power Quality Disturbances Using Wavelet Based Neural Network	i-Manager's Journal on Power Systems Engineering			3 (4),	2015
	Adequacy analysis of a wind and diesel based stand alone microgrid system	Global Journal on Advancement in Engineering and Science (GJAES)			2 (1),	2016
	Multi objective optimal power flow using particle swarm optimization technique		Signal Processing, Communication, Power and Embedded System (SCOPES), 2016 Paralakhemundi, India	**ISBN:** 978-1-5090-4620-1		2016
	Multi-Objective Teaching Learning Based Optimization Technique for Loss Reduction and Fast Voltage Stability Index Minimization	International Research Journal of Engineering and Technology (IRJET)			Volume : 04 Issue: 04 |	2017

Dr Satyajit Bhuyan	Variable Evaluation And Optimal Placement of STATCOM in Test Bus Systems		National Exhibition and Conference on New and Renewable Energy, Assam Don Bosco University		To be published in June 2018 issue of ADBU Journal	6—7 October, 2017
Dr Bimal Chandra Deka	Impact of isolation process of faulty section on reliability of distribution system connected with distributed generation	Int. Journal of Power and Energy Conversion		1757-1154	Vol.9/No.1	2018
	ANN-based adaptive current controller for on-grid DG system to meet frequency deviation and transient load challenges with hardware implementation	IET Renewable Power Generation, IEEE		1752-1416	Vol.12/ No.1	2018 (**SCI**)
	An adaptive current control-detuned harmonics elimination schemes for enhancement of power quality in RES interfaced AC-grid network	Sustainable Energy Technologies and Assessments-Elsevier			Vol.25	2018 (**SCIE**)
	Relative Influence of Intelligent Current Controllers on Power Quality in Grid-interactive Solar Inverter System		IEEE Conference on Energy, Power and Environment (ICEPE), NIT Meghalaya, Shillong, Meghalaya			June 1-2, 2018,
Dr BarnaliGoswami	An Efficient Regression Based Demand Forecasting Model including temperature with Fuzzy Ideology for Assam	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering		ISSN:2320-3765	Vol. 4, Issue 1,	2015

	An Efficient Differential Evolutionary approach to Optimal Reactive Power Dispatch with Voltage Profile Improvement	International Research Journal of Engineering and Technology (IRJET)		ISSN:2395-0056	Volume : 02, Issue 3	2015
	Firefly based Unit Commitment	International Journal of Engineering Research & Technology (IJERT		ISSN: 2278-0181	Vol. 5, Issue 12,	2016
	Artificial Bee Colony Algorithm for Profit Based Unit Commitment Using Modified Pre-Prepared Power Demand Table	International Research Journal of Engineering and Technology (IRJET)		S.NO: 122	vol 4, Issue 5	2017
Dr Amrita Ganguly	Transmission Line Fault Classification Using Discrete Wavelet Transform		ICEPE 2015 IEEE Conference NIT Meghalaya	978-1-4673-6503-1		2015
	An improved fault area detection & fault location methodology using wavelet transform		ICEPE 2015 IEEE Conference NIT Meghalaya	978-1-4673-6503-1		2015
	Optimal sizing and cost assessment of hybrid Renewable Energy Systems for Assam Engineering College		INDICON IEEE Conference	2325-9418		2015
Mr. Deba kumar Mahanta	Investigation of Transformer Oil Breakdown using Optical Fiber as Sensor	IEEE Transactions on Dielectrics and Electrical Insulation		ISSN: 1070-9878	Volume : 25, Issue: 1	
	Water quantity based quality measurement of transformer oil using polymer optical fiber as sensor	IEEE Sensors Journal	Print ISSN: 1530-437X	Volume: 18, Issue: 4	pp 1506 - 1512	Feb.15, 2018

	Transformer Condition Monitoring using Fiber Optic Sensors: A Review	AJET	ISSN: 2348-7305	Vol. 4, Issue: 1	pp 142 – 145,	2016
	Electrical insulating liquid: A review	Journal of Advanced Dielectrics	Print ISSN: 2010-135X Online ISSN: 2010-1368	Volume 07, Issue 04	pp. 1-9	Aug. 2017
	Transformer Oil Temperature Measurement Using Tungsten Filament as Sensor	International Journal of Electrical Machines and Drives		Vol. 3, No. 2	pp 17-20	2017
	Genetic Algorithm Approach for Placement Optimization of FBG Sensors for a Diagnostic System	International Journal of Electrical and Electronics Engineering	ISSN: 2278-1676	Vol. 4, Issue 5	pp 18-23	Jan-13
	Design of Uniform Fiber Bragg Grating using Transfer matrix method	International Journal of Computational Engineering Research	ISSN: 2250-3005	Vol. 3, Issue. 5	pp 8-14	May-13
Dr. Purobi Patowary	A Phase Shift Control based DSTATCOM for mitigation of voltage sag and voltage swell in Distribution Systems	Int. Journal of Engineering Research and Technology (IJERT)		ISSN:2278-0181	Vol. 6, No. 04	2017

Table B.5.7.1b

Sponsored Research(5)

- Funded research:

  (Provide a list with Project Title, Funding Agency, Amount and Duration)

  Funding amount (Cumulative during last three academic years starting from CAYm1):
  Amount > 20 Lacs – 5 Marks

  Amount >= 16 Lacs and <= 20 lacs – 4 Marks
  Amount >= 12 Lacs and < 16 lacs – 3 Marks
  Amount >= 8 Lacs and < 12 lacs – 2 Marks
  Amount >= 4 Lacs and < 8 lacs – 1 Mark
  Amount < 4 Lacs – 0 Mark

Development activities (10)

Department Contribution to Institute Development Activities

Name of Faculty	**Position Held**	**Period**	**Nature of Work**
Dr. Damodar Agarwal	Dean, Faculty of Engineering, Gauhati University	Since May 2014	Coordinate/supervise academic programs (both UG and PG) under faculty of Engineering of Gauhat iUniversity. Place any issues, such introducing a new program, changes in the syllabi, changes in the regulation etc. related to the academic programs (both UG and PG) under Faculty of engineering before the Academic council, the highest academic body of the university for its approval.
Dr. Damodar Agarwal	Coordinator, Entrepreneurship Development Cell, AEC	Since April, 2009	To coordinate/supervise various activities, such as holding awareness programs, EDPs, lecture series, Erthniti- the annual entrepreneurship event of the college, conducting industrial visits etc. in order to build an Entrepreneurship ecosystem
Dr. Bimal Deka	Assistant Zonal Officer (Examination)	Since 2011 till date	(a) To prepare draft time table for examination (b) To conduct five university examinations in a year (c) To distribute examination answer scripts to the examiners according to the list prepared by the university (d) To collect evaluated answer scripts from examiners and do scrutiny of all answer scripts (e) To send scrutinized mark foils to the university for preparation of results (f) To attend all examination related problems of students
Dr. Amrita Ganguly	Asst. Training And Placement Officer	Since 2012 till Date	Contacting companies for placements. Arranging different Training activities from the cell Arranges the summer internship for students Hosting companies during Placement Drives
Dr. Amrita Ganguly	Nodal Officer Academics TEQIP III	Since September 2017	Look into all the academic activities in the institution under TEQIP III Project
Dr. Bani Kanta Talukdar	Prof.-in-charge Central Computing	Since July 2011	To monitor procurement of various equipment

	Centre		And relevant softwares Communicate with all other Departments about the usage of the centre To conduct online exams and look after the internet and wi-fi connectivity of the college campus
Dr. Aroop Bardalai	Vice President, Assam Engineering College Student Union.		Heads the panel of Prof. in charge of different port folios. Convene meeting of office bearers as when necessary. Monitor overall functioning of the union body
Dr. Aroop Bardalai	Prof. In Charge Central Store, AEC		Supervises over all activity of the store, monitor quality control of material procured.
Dr. Satyajit Bhuyan	Prof.In Charge Magazine Section, AECSU	Since 2013	Supervises the publication of the annual magazine of the college. Also supervises various literary activities organized amongst the students.
Prof. Deba Kumar Mahanta	Prof. In Charge ISTE Student Chapter, AEC		Organizing aptitude tests on a regular basis for preparing students for the placements and other competitive exams. 2) Organizing Gate mock tests, Organizing mock interviews group discussions Organizing ISTE-SRMC Examination.
Dr. Dipankar Chanda	TEQIP –III Coordinator for Electrical Engineering Department	Since November 2017	Submission of academic activity & expenditure plans of the department Submission & Approval of procurement Plan of the department and Execution of activities

Table B.5.7.3a

Additional Activities:

Dr. Satyajit Bhuyan: He has been writing regularly in two vernacular dailies published from Assam. His columns appear in both editorial page as well as weekly literary page. Till date a good number of books in Assamese have been published. An anthology of translated short stories into English has also been published.

Provide details:

- Product Development

- Research laboratories

Power System Research Laboratory where research scholars undertake research

Room description	Usage	Area sq.mt	Exclusive/ shared	Capacity	Room Equipped with	No of research Scholars
Power system Research Laboratory	For Research scholars	12	Sharing	6 No's	1. Internet with speed of 100mbps 2. Chairs 3. Desktop Computers 6Nos 4. Printers 1 Nos 5. Scaners1 Nos 6. Book racks 7. AC 1 no.	18 on sharing basis

Table B.5.7.3b

- Instructional materials
  - Faculty gives hand outs to the students on certain topics for self study.
  - Every Laboratory course of the Department has detailed lab manuals which are available for the students at the beginning of the semester.
- Working models/charts/monograms etc.
  - Charts displayed in all Laboratories.
  - Some poster presentation by the students is displayed in the laboratories.
  - Models of some motors are displayed for the students to understand the motors in a better way.

Consultancy (from Industry)(5)

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding amount (Cumulative during last three academic years starting from CAYm1):

Amount > 10 Lacs – 5 Marks

Amount >= 8 Lacs and <= 10 lacs – 4 Marks Amount >= 6 Lacs and < 8 lacs – 3 Marks Amount >= 4 Lacs and < 6 lacs – 2 Marks Amount >= 2 Lacs and < 4 lacs – 1 Mark Amount < 2 Lacs – 0 Mark

Faculty Performance Appraisal and Development System (FPADS)(30)

Faculty members of Higher Educational Institutions today have to perform a variety of tasks pertaining to diverse roles. In addition to teaching, faculty members need to innovate and conduct research, keep abreast with changes in technology, and develop expertise for effective implementation of curriculum. They are also expected to engage themselves in solving the problems

of industry and the society pertaining to their field. Another role relates to the shouldering of administrative responsibilities and co- operation with other faculty, heads-of-departments and the head of the institute. An effective performance appraisal system for faculty is vital for optimizing the contribution of individual faculty towards institutional performance.

- **A well-defined system for faculty appraisal for all the assessment years(10)**

The Faculty Appraisal System in the department is a two tier system. At the end of each Academic Year, every faculty has to fill up an Annual self-Assessment for the performance based appraisal system (PBAS) given in Annexure V which is submitted to the Principals office. The Principals office then forwards the same to the Government.

In addition to this, there is a internal faculty appraisal at the departmental level. The process involved in this is as follows:

The HOD forms a committee consisting of a few faculty members of the department.

All faculty members are asked to fill up a Self Appraisal Form where different metrics for assessment is included.

The Appraisal Committee then will assess the performance of the faculty. The departmental level appraisal form is given in Annexure V

Its implementation and effectiveness (20)

- All the faculties are briefed about the appraisal criteria at the beginning of the academic year.
- At the end of the academic year, faculty members carry out self appraisal& submit to the concerned HOD.
- HOD, in turn, discusses with the Appraisal Committee about the performance of the faculty.
- HOD then discusses the assessment with the concerned faculty about his/her performance.
- The faculty is informed by the HOD about the steps that are to be taken to improve the teaching learning process in the following academic year.

Effectiveness:

- This process has effectively improved the overall academic environment of the college with the faculties taking steps to improve the shortfalls of the department as a whole.
- Faculty members are also encouraged to improve themselves and aim for a higher attainment level.

Visiting/Adjunct/Emeritus Faculty etc.(10)

Adjunct faculty also includes Industry experts. Provide details of participation and contributions in teaching and learning and /or research by visiting/adjunct/Emeritus faculty etc. for all the assessment years:

- Provision of inviting/having visiting/adjunct/emeritus faculty(1)

- Minimum 50 hours per year interaction with adjunct faculty from industry/retired professors etc. (Minimum 50 hours interaction in a year will result in 3 marks for that year; 3 marks x 3 years = 9marks)