

## THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

**Name of the Institute:** ST. ANTHONY'S COLLEGE    **Year of Report:** August 2009 to September 2010

### PART – A

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

#### **a. Infrastructural:**

- a. Plans were adopted to equip all departments with Internet Access and Training like computers and broadband internet connection, along with printing facilities that also include the laptops and LCDs projectors to animate teaching in classrooms. We plan to implement higher virus protection using better firewall and virus scanners at the Internet terminals and the labs. A project launched to make the college Intercom enabled campus.
- b. Renovation work of all departmental staff rooms and classrooms blackboard converted to green board and whiteboard were taken up, including the up gradation of the science laboratories with new and sophisticated instruments and equipment.
- c. Installation of a Bioinformatics laboratory is taken up, along with the purchase of instruments and procuring of new laboratory instruments in some departments.
- d. Plans were made to construct the College Women's Hostel at the earliest.
- e. Plan to purchase new sets of books for all departments to enable setting up of some departmental libraries.

#### **b. Academic targets and plan of Action:**

Most departments plan to have meetings with parents of students at each academic session. Most departments also plan to organize seminars and workshops with the help of reputed institutes and other resources, besides, conduct of hands on training and short term courses were conducted.. Students' seminar, Guest lectures, talks and different forum of interaction were also conducted by various departments during the academic calendar.

As part of the Platinum Jubilee celebrations various programmes like Seminar on “**Recent Trends in Green Chemistry – Its Prospects and Challenges**” will be held on 31<sup>st</sup> October, 2009, Economics department in the month of November 2009. will organize a seminar that will cover different technical and practical issues pertaining to the Union Budget 2009-10 and its impact on North East Economy. **Interdisciplinary Interaction programmes** will also be conducted involving students of various departments on 21<sup>st</sup> and 22<sup>nd</sup> October, 2009. **Field Trips Programmes** to: Mawmluh Cherra Cements Ltd (MCCL), Cherrapunjee on 17<sup>th</sup> August, 2009; Meghalaya State Pollution Control Board, Shillong on 10<sup>th</sup> September, 2009; Regional Directorate, Department of Atomic Energy, Shillong on 10<sup>th</sup> September, 2009; Shyam Century (ferrous) Ltd., EPIP, Byrnihat, Meghalaya on 14<sup>th</sup> December, 2009; Indian Institute of Technology, Guwahati on 14<sup>th</sup> December, 2009.

The members of the Media Club chalked out the following plans for the club for the year 2009-2010 will organized a photographic exhibition on the 19<sup>th</sup> of August 2009, to commemorate the world photography day. The club will also organized the annual photography exhibition of the department to be held on September 14<sup>th</sup>-16<sup>th</sup> 2009. The club has earmarked the autumn vacation as a time to conduct media awareness workshops for the schools students.

### **3. Achievements:**

The various academic and non-academic exercises undertaken by the Departments are always aimed at making a difference in the lives of the students. In the backdrop of the Departmental goal of making it one of the very best to produce quality students with cent percent result every year, first and foremost, the Departments tries to complete the syllabi in time and, if possible, spare some time for revision. Regularly, the teachers also give the students class assignments, home assignments, conduct class tests, etc, along with the terminal test and the selection test. The teachers also provide feedbacks to the students to overcome their deficiencies as noticed by the teachers in the answers. The Faculties of the Departments also actively participated in many seminars, workshops, etc. and other extension activities that help towards achieving the college goal of improving the qualities of the faculty to the national and international standard.

Expansion and improvement of museum planned in some departments. A number of science departments has been chosen for the “Star College Scheme” under DBT, Govt. Of India. Students to attend the following training programmes and seminars: (i) Training programme on plant tissue culture techniques (3<sup>rd</sup> -7<sup>th</sup>, August, 2009), BSI, ERC, Shillong. (ii) Training programme on scanning and transmission electron microscopy (12<sup>th</sup> – 13<sup>th</sup>, October, 2009), RSIC, NEHU, Shillong. (iii) Introduction to immunology and microbiology using online and offline multimedia tools (19<sup>th</sup> – 31<sup>st</sup>, October, 2009) Department of Biotechnology, SAC, Shillong. (iv) Communication skills (12<sup>th</sup> - 28<sup>th</sup> October, 2009) Department of Zoology, SAC, Shillong. (v) State level seminar on “Emerging trends in human reproductive technology” (21<sup>st</sup> October, 2009) Lady Keane College, Shillong. (vi) Educational visit to IIT-Guwahati (31<sup>st</sup> March, 2010).

Explore possibilities of securing research sponsorship. Besides, increase success rate of students in nationally conducted P.G. entrance tests as well as NET for the PG students. The proposed seminar on Green Chemistry, Economical Backdrop, Intellectual Property Rights in Khasi is in the process. The college planned to fine-tune and stabilize the internet, the college as a centre for CISCO to conduct Industrial Certification tests, and intercom services in the entire campus. Works are still on to fine-tune them and even connect each access point by wire to avoid collision of signals. Training of the staff to such use was also conducted.

## **Part: B**

### **1. Activities reflecting the goals and objectives of the Department.**

Every department is deeply committed to producing quality students each year, along with the college target of achieving 100 percent results. The teachers monitor the progress of students through periodic assessments such as terminal and Selection Examinations. Some departments also conduct continuous assessment through internal test(s) every month for all honors subjects and the other general subjects too. It is ensured that students are actively involved in project assignments and presentations, both at the group and individual level. The assessments are meant to allow the students to interact with real life situations (practice) and observe how various theories studied were/can be applied in reality. The teachers also provide feedbacks to the students to overcome their deficiencies as noticed by the teachers in the answers.

To impart the subject knowledge, most departments plan to maintain the success rate i.e 100% pass percentage in NEHU exams. To inculcate communicative skills amongst the students. To update the department with the required instruments. To enrich the departmental herbarium To enrich college botanical garden and maintenance of vermin-composting unit. To enrich the departmental library. To propose more projects and schemes from different financial agencies Preparation of degree study material for practicals and theory. To keep students of this region with latest techniques, experiments, skills, exposure to recent trends in Biological sciences. To properly equipped Green Chemistry Laboratory funded by the Department of Biotechnology, Govt. of India under Star College Scheme has been set up. The Khasi Department was able to conduct the Field Trip to Nartiang, Jaiñtia Hill District. By the interaction with the local people the students got the first-hand information (apart reading from the books in their syllabus) on how, why and when these monoliths was erected and they have witness and study by themselves the different type of Monoliths which was erected in that place. The College has entrusted the Khasi Department along with the Department of Commerce and IQAC to organize a Regional Seminar on Intellectual Property Rights in Khasi on the 28<sup>th</sup> -29<sup>th</sup> October 2010.

### **2. New academic programmes initiated (UG and PG)**

- UGC approved Career Oriented course like Communication skill, e-commerce, etc. were also introduced in the month of July.
- The computer science department also started the Cisco Certified Network Associate (CCNA) course .
- Department of Biotechnology and Biochemistry has also started a short term courses in Bioinformatics and data processing.
- Departments in the Sciences also as part of its Star College Status project has started different short term courses and inter-departmental interaction during the year.

### **3. Innovations in curricular design and transaction. (like BUGS, etc.)**

- Teachers from Computer Science, Botany, Economics, English, Music, Physics, Philosophy, Mizo, Khasi, Chemistry, Zoology, Fishery Sciences, Business Administration, Mathematics, Commerce, Geology, Biotechnology and Biochemistry departments are selected to the Board of Under-graduate Studies (BUGS) of North Eastern Hill University (NEHU) and Other universities in the region.

- Some faculty members belonging to various arts, science & commerce department are involved in designing the State's Higher secondary syllabus under Meghalaya Board of Secondary Education.
- Almost all the teachers from every department are involved in setting question papers, evaluating and scrutinizing the answer scripts for the North Eastern Hill University
- Some members from few departments were also involved in designing the new syllabus for UG courses in other Universities as well.
- Most of the faculty members of all departments were involved in reviewing and framing a new syllabus for the Under-graduate programme.

#### **4. Inter- disciplinary programmes started.(e.g. Pisciculture- Commerce, Biotech- Computer science, etc)**

Interdisciplinary Programmes in Green Chemistry has been started.

- Just like every year, the departments of Biotechnology & Biochemistry have lecturers from departments of Fishery Sciences, Chemistry, Statistics, Botany and Computer Science. They also have scientists from ICAR Research Complex, Umiam providing guidance in the dissertation projects of Post Graduate Students. Likewise the Computer Science department assists the Mass Media department for Desktop Publishing, Multimedia, Web Designing using Dream Weaver. Further the Commerce department collaborates with the Computer Science for Computer Application. In the same way E-commerce works in tandem with the commerce department and Business Administration (BBA) department. Database related classes for M. Sc. Biotechnology. Programming in C language, Fortran language for B. Sc . Practicals in Western Music and Computer Technologies with students of Music department
- Some members of the faculty from Business Administration department are regular resource persons for the programmes conducted by the Students Development Service (SDS) on career planning for the +12 students and Communication Skills development and programmes conducted by the Meghalaya Sports and Youth Affairs department on Career Development and Leadership.
- Commerce and Fishery Science department also takes up inter-disciplinary projects. English faculty are also involved in the MCVP and Media Technology department.
- As part of its Star College Status science departments are having a regular Interdepartmental interaction between the staff and the students in various fields of sciences.

#### **5. Examination reforms implemented. (e.g. internal assessment, projects, assignments,etc.)**

The examinations committee supervises all aspects of the examinations. Regular class tests, internal assessments, seminars, project works are held and the marks are carried to the Selection examinations. Seminars and project marks in some departments are carried to the University Examinations marking system. Assessment of attendance were also smoothly conducted by all the departments as part of the college examination reforms. Computerisation of examination systems in the institute is also on the offing.

## 6. Candidates qualified: NET / SLET / GATE / Ph. D. / M. Phil/ etc.

Being an undergraduate college with just postgraduate courses in Biotechnology, started in 2006, the above qualifications are not applicable. However, several of our alumni have qualified NET, after completing their Post Graduate from other institutes. As there is M. Sc. In Biotechnology, the lists of students qualified NET in the year 2008 have been furnished below:

Sl. No.	Name of Student	P.G. Year of Passing M.Sc. Biotech	Details of NET etc. qualified
1.	Shekinah Challam	2010	CSIR-UGC NET JRF & GATE
2.	Tassel Marak	2010	CSIR-UGC NET LS & GATE
3.	Esther Lalnunmawii	2010	CSIR-UGC NET & GATE
4.	Barilang Dkhar	2010	CSIR-UGC NET & GATE
5.	Darilang Mawrie	2010	CSIR-UGC NET & GATE

## 7. Initiative towards faculty development programme. (like short term courses, etc.)

- Ms Ebelmon Nongbri, participated in three day workshop-cum-Training Programme on “Mushroom Cultivation” on the 11<sup>th</sup>-12<sup>th</sup> August 2009 organised by Botany department, at Lady Keane College, Shillong
- Dr. C.S. Rao, participated in three day workshop-cum-Training Programme on “Mushroom Cultivation” on the 11<sup>th</sup>-12<sup>th</sup> August 2009 organised by Botany department, at Lady Keane College, Shillong
- Dr. C.S. Rao, participated in a one day seminar on “Examinations Reforms” organized by St. Anthony;s College, Shillong, on 9<sup>th</sup> Sept. 2009.
- Dr. C.S. Rao, participated as a resource person in a one day workshop cum training programme on Medicinal & Aromatic plants-a career oriented approach, on the 23<sup>rd</sup> Sept. 2009 at Union Christian College Umiam Khwan, Shillong.
- Dr. C.S. Rao, participated in two day National workshop on Microbial diversity database organized by the Department of Biotechnology and Bioinformatics, NEHU, Shillong and supported by department of information technology, ministry of communication and information technology, Government of India, at NEHU, Shillong on 29<sup>th</sup>-30<sup>th</sup> October 2009.
- Dr. C.S. Rao, participated in a one day seminar on “Recent developments in Electronic applications” organized by the department of Physics, Lady Keane College on 7th Dec. 2009 at Lady Keane College, Shillong
- Dr. C.S. Rao, participated in two day workshop on “Electronics circuit designing, fabrication and testing’ organized by the department of Physics, Lady Keane College on 8th, 9th and 10<sup>th</sup> Dec. 2009 at Lady Keane College, Shillong
- Interdepartmental workshop on Botany on 21<sup>st</sup> -22<sup>nd</sup> Oct 09 at Botany Department, St. Anthony,s College, Shillong
- Faculties of Zoology department namely, Mr. F. A. Lamare, Dr. U.Sengupta, Mrs. B. Massar and Mr. D. Lyngdoh attended the “ Innovative Methodologies in teaching of Life Sciences laboratory courses”,(27<sup>th</sup> March, 2009) Department of Zoology, NEHU, Shillong.

- Mr. F.A. Lamare and Mr. D. Lyngdoh attended a one-week Counselling programme at Siloam, Barapani. 26<sup>th</sup> April to 30<sup>th</sup> April 2010.
- Mr. F. A. Lamare, and Mrs. B. Massar attended the state level seminar on “Emerging trends in human reproductive technology” (21<sup>st</sup> October, 2009) Lady Keane College, Shillong.
- Mr. D. Lyngdoh attended a one week training programme on “Bioinformatics: A Practical Approach” at the Bioinformatics Centre, NEHU, from the 19<sup>th</sup> April to 24<sup>th</sup> April 2010.
- Mrs. Filmica marbaniang of Hindi department attended the “National eastern Languages and Hindi conducted by Meghalaya rashtra Bhasha Prachar Samiti Shillong on 12 and 13<sup>th</sup> September 2009; Hindi Study in East Khasi Hills District conducted by Central Hindi Institute, Shillong and Hindi department, Tripura University, Agartala on 3-4<sup>th</sup> December 2009; “Problems of Using technical terminology in North Eastern Languages” conducted for Scientific and Technical terminology, MHRD Deaprtment of Higher Education New Delhi on 25-27<sup>th</sup> March 2010 and “Dalit Literature” conducted by Hindi department NEHU , Shillong on 30<sup>th</sup> March 2010.
- Cherry Kharshiing and Etawanda Saiborn attended the Refresher Course on *Folkloristics and Semiotics*, organized by the Academic Staff College and Department of Cultural and Creative Studies .NEHU shillong on the 26<sup>th</sup> June 2010- 16<sup>th</sup> July 2010.
- Rosemary Ishorary attended a theatre acting course in London for three months – January 1<sup>st</sup>-March 30<sup>th</sup> 2009. The course was conducted by Central School of Speech and Drama, University of London, London. Rosemary Ishorary attended a Joint World conference on Social Development on June 2010 at Hongkong Etawanda Saiborn attended a refresher Course in *Emerging trends in Communication Technology* organized by the University of Rajasthan at Jaipur on August 6<sup>th</sup> -27<sup>th</sup> August 2009.
- Sr Mary Harriet was awarded a Phd on her thesis entitled *Tv as a medium of Information for Social change: a case Study of rural Meghalaya*. The thesis will be published in book form by Read Worthy Publisher, Delhi sometime in October 2010.
- Thomas Lim has also been promoted as Editor in Chief of *Meghalaya times*, a daily newspaper of Shillong.
- Cherry Kharshiing wrote a film Review on a Khasi film entitled *Hep* which was published on a local daily on June 2010. Cherry Kharshiing was invited to Present a paper on *Media Losing its Social relevance- the onset of Page 3 journalism*, organized by the Institute of Media and Communication (NSHM) kolkata, on October 2009.
- Etawanda saiborne attended a refresher course in *Emerging trends in Communication Technology* on August 6<sup>th</sup> - 27<sup>th</sup> Organised by the Academic Staff College, university of Rajasthan, at Jaipur.
- Prof. Anjan das attended two Refresher courses in ‘Wireless Adhoc and sensor Networks’ Jadavpur University Kolkatta, 4<sup>th</sup> January -23<sup>rd</sup> January 2010 and “Computer Sciences” in University of Mumbai 28<sup>th</sup> January to 17<sup>th</sup> February 2010
- Dr. H. G. Lyngdoh and Mrs. B. Massar attended a workshop on Higher Education for Quality Excellence at Stella Maris , Chennai from 2<sup>nd</sup> and 3<sup>rd</sup> February 2010.
- Faculties from the Computer department attended a number of workshops conducted by ISI Kolkatta, 9-10 March 2010, C-DAC Bangalore On 29<sup>th</sup> August 2009, C\_DAC Kolkatta on 23<sup>rd</sup> October 2009, FOSS Free and Open Source Software at St. Anthony’s College on 13-14<sup>th</sup> November 2009. Fr. Joby Joseph attended and presented a paper at an International Conference at Singapore in October 2010. Workshop on ERP at IIM Shillong on the 11<sup>th</sup> and 12<sup>th</sup> October 2009; Workshop on HMIS, Hospital Management Information System by

IIM, Shillong on 6<sup>th</sup> October 2009 and a workshop on High Performance Computing at NEHU, Shillong on 3<sup>rd</sup> to 6<sup>th</sup> March 2009

- Teachers attended the Annual Faculty Development programmes organized by the college from time to time. Some have attended workshops, seminars and UGC sponsored orientation and refresher courses. There are others who participated in National and International seminars held in different places.
- Some members were also actively involved in various academic bodies, participated and presented papers in seminars, workshops, etc., and were also involved in research projects and other extension activities.
- The College also organized and conducted residential development programme for faculty members at SILOAM, an extension facility of St. Anthony's College located on the banks Umiam lake.

#### **8. Total number of seminars / workshops conducted.( if any)**

- Economics department organised 1 (one) Students' Seminar on Union Budget 2009-10
- Chemistry has one , Platinum Jubilee Seminar on "**Recent Trends in Green Chemistry – Its Prospects and Challenges**" was held on 31<sup>st</sup> October, 2009.
- The department of Economics organized a lecture on Research Methodology on Social Sciences on the 24<sup>th</sup> July 2009
- Departments of Botany, Physics, English, Zoology and Computer Science also conducted seminars and special lectures during the academic year
- First ever National Conference on Emerging Trends and Applications in Computer Science -2010 was conducted by the College on 9<sup>th</sup> and 10<sup>th</sup> April 2010
- The college also hosted the visit of the US astronaut to the college and had an online interaction with him when he was on spacecraft and also when he had returned to earth when he visited the college.

#### **9. Research projects: Newly implemented**

- Zoology department has an ongoing project granted by NBFGR, ICAR Luknow to Dr. U. Sengupta.
- The department of Commerce took up a research project entitled "*Assessment and Mapping of Feminine Modalities towards Occupational Preferences and Selectivities*" with Indian Council for Social Sciences, New Delhi
- The Department of Biotechnology, Government of India has also sanction a project on Bioinformatics to the department of Biotechnology.
- The Department of Biotechnology, Government of India has also sanctioned a project called Star Project Status to the departments of Biochemistry, Biotechnology, Zoology, Botany, Physics and Chemistry
- The UGC has also sanctioned a project to the Chemistry department entitled "*Peroxo and Heteroligand Peroxo Complexes of Vanadium, Molybdenum and Tungsten. Synthesis, reactivity and solution study*"
- Prof. K. S. Rajput is presently undertaking one UGC sponsored minor research project on Student Awareness on HIV/ AIDS

### **Completed ones**

- The Economics department, under the supervision of Prof. K.S. Rajput, successfully completed a project entitled “*Effect of socio-economic variables on fertility and basic reproductive health behaviour among Hindu and Muslim women: A study of Sonitpur district of Assam*”, sponsored by the Indian Council of Social Science Research, New Delhi.
- Similarly Department of Commerce also undertook another project entitled “*Alternate Growth Opportunities: Inferences towards Rural Marketing Environment and Communication Services*” UGC, New Delhi.

### **10. Patents generated: Nil**

### **11. New collaborative research programmes:**

The department of Statistics has tied up with Sikkim Manipal Institute of Technology, Sikkim to undertake various research programmes. Faculty members of statistics are involved in collaborative research programmes with Visva –Bharati University, Santiniketan, The University of North Carolina at Greensboro, USA, The College of William and Mary, Virginia USA and Quaid-i-Azam University, Pakistan

### **12. Research grants received from various agencies:**

Most Sciences department received Rs. 7, 00,000(Rupees seven Lakhs) each under DBT star College scheme like Physics, Chemistry, Biochemistry, Botany, Zoology and Biotechnology. Economics, Geology, Zoology, Biotechnology and Biochemistry have received grants from the college and various funding agencies like UGC, DST, DONER, DBT, etc to take up both minor and major projects.

One faculty member of Statistics received Major Research Grants from UGC, New Delhi.

### **13. Details of research scholars (if any):**

From the Chemistry department

1. M.C. Dutta, Ph.D. degree awarded on 12/07/2010.
2. M. Saha (Registered).
3. A.S. Devi (Registered).

One Research Scholar has been registered and two new scholars have been admitted to the department of Chemistry.

### **14. Citation Index of faculty members and impact factor: Not Applicable**

### **15. Honors / awards to faculty.**

- Prof. Tikaram Subedi had successfully cleared the NET in the month of October 2009. Prof. Wannasuk Nongbsap had been conferred the M.Phil degree by NEHU in the month of June 2010
- Three faculty members ,Dr. L.I. Singha, Prof. Y. Choudhury and Prof. P Warjri, belonging to the department of Biochemistry, were awarded Gold Medals for securing first class first position in their respective P.G. examinations.



- Dr. M. Odyuo of the Biotechnology & Biochemistry department were awarded Ph. D by North Eastern Hill University.

#### **16. Internal resources generated. (like short term courses, programmes, etc.)**

- The college through various departments has started the UGC approved career-oriented courses in Accounting Practices, Income Tax Practices, e-commerce, Communication Skills, Video & Audio Production, Desktop Publishing, Immunodiagnostics, Plant Tissue Culture and Research & Survey analysis offered to students from the college and to those belonging to other educational institutions.
- Other programmes to generate funds are also taken up such as personality development and Communication Skills in which the faculty are actively involved.
- The Students Development Service (SDS) counseling cell also provides coaching to MBA aspirants.
- The mass Media department brings out yearly publication of a campus newspaper, hold photo exhibition, outsourcing of documentary films for governmental and non-governmental organization.
- Apart from the above, the computer science department has generated Rs. 130,000 through short-term courses and Rs. 5,000 through the students' Cyber club and Conference Related income of Rs. 60,000/-

#### **17. Details of departments getting SAP, COSIST (ASSIST) / DST, FIST, etc.**

Chemistry department received a Project Grant from the Department of Biotechnology, Govt. of India, under Star College Scheme for the period 2009 – 2011.

DST has granted Rs. 100,000/- for the Computer Science department for which the machines and the peripheral equipments are still awaited.

#### **18. Community services. (like blood donations, cyber clubs, extension programmes, etc.)**

- The teachers and students of the Departments actively participate in the blood donation camps, NSS, NSC and other social service activities organized by the college. Prof. K. S. Rajput of Economics department is also acting as the Care Take Officer (CTO) of the NCC Boys Wing of the college which provides help in some of the community services.
- Mr. R. S. wankhar of Khasi department along with Mr. S. F. Kynta of History department with some students are involved in the extra-curricular activities of the College by joining the NSS and actively participated and attended various programmes conducted by the NSS Unit of the College and others programmes like, Annual Special Camp, Tree Plantation, Cleaning Drive, Blood Donation, Disaster Management etc.
- The Cyber Club of the Computer science department conducted a week long computer literacy programme for the villages of Umran, Umden and Mawlai in the months of December, March and April 2007 respectively. They also conducted a month long course on IT fundamentals for the non-computer students of the college at a very minimal rate of Rs. 150.00.
- The Mass media department organized Street Theatre and Awareness programmes, assisted in Media guidance and Media Education for teachers.
- Like every year the teachers and students of the various departments actively participate in the blood donation camps, environmental awareness and disaster management programmes, blood donation camps, eye camps, community teaching and in NSS activities.

**19. Teachers newly recruited:**

From Chemistry department one with effect from 25<sup>th</sup> June, 2010.

From Mathematics recently, one member of the department, Prof. A. A. Basumatary has temporarily left the department & joined another institution in Assam and this necessitated the appointment of one new teacher. At present Prof. P. Lynser is serving the department on part time basis.

In Khasi department the college has appointed Ms. Ibaiamonlin Warjri as a part time lecturer against the vacancy of Ms. Rosa Mystica Mawlong (resigned) on the 9<sup>th</sup> June 2010.

From Zoology department Ms. K. Mihsill joined the department with NET-JRF on 1<sup>st</sup> May 2010. In Philosophy department Mr. Ambrose Dohtdong joined on 1<sup>st</sup> August 2009

**20. Teaching – Non- Teaching Ratio: 124:45 = 3:1**

**21. Improvements in the library services:**

- A good number of books and journals have been procured during the period. All departmental libraries were updated and books being issued to the students through the departments. Reference books have been made available to part-time students. Some departments have seminar libraries both for teachers and students.
- A number of books were collected under CPE scheme.
- Internet facility in the library was made available to all the students.
- A number of free access scientific journals were also made available to the college.
- Bioinformatics and Broadband internet connections have been provided to students in the library.

**22. New books / journals subscribed and their value:  
Rs. 10,48,744/-**

**23. Courses in which student assessment of teachers is introduced and the action taken on student feedback: N A**

**24. Unit cost of education: Rs. 24,774/- per student**

**25. Computerization of administration & the process of admissions and examination results, issue of certificates:**

The administration, including the library and the process of admissions has been fully computerized with Wi-Fi Internet connection. The process of examinations has been partly computerized. The issue of certificates is done on printed formats.

**26. Increase in infrastructural facilities:**

- **Botany department has procured the following**

SL.No	Date	Particulars
1	8/8/09	(a) Trinocular Research microscope(Model LX400)
2	8/8/09	(b) Rotary Vacuum evaporator

3	8/8/09	(c) Portable Autoclave(Model:7407PAD)
4	8/8/09	(d) BOD Incubator (Model:7140-091)
5	17/08/09	Abney level
6	17/08/09	Portable pH Meter
7		Altimeter
8	27/08/09	Fungicide sprayer
9	4/12/09	Gramin GPS
10	6/1/10	Aluminium India-Herbarium cupboard
11		Spectrophotometer

- **Chemistry department:** A properly equipped Green Chemistry Laboratory funded by the Department of Biotechnology, Govt. of India under Star College Scheme has been set up.
- **Zoology** Department has procured the following instruments and equipments to upgrade the teaching and learning facilities: Fluorescent microscope with digital photography attachment, Binocular compound microscope, electronic balance, electrophoretic apparatus, western blot equipment, transilluminator, pH meter, Photocolorimeter, refrigerator, oven, incubator, and distillation unit.
- The interior arrangement of the staff room and class rooms are redesigned for maximum utility of space.
- The different departments got a laptop, a LCD projector and an OHP.
- The computer science department was upgraded with 40 new computers and a 10 KVA UPS. 43 new systems were bought for the staff and the students of MCA. Usage of systems, Scanning and Dot-matrix printing facilities were made available for free for the students in the Computer Centre.

### 27. Technology upgradation:

- The Biotechnology and Biochemistry departments are equipped with Microscopes, PCR machines, Thermal Cycler, Cryocans, Gel Documentation System, ELISA reader, Spectrophotometer (UV-Vis)., Benchtop Fermenter Water Deionizer, CO<sub>2</sub> Incubator, Refrigerators. These are used for practical classes and dissertation projects.
- All the LCD Projectors of the laboratory were mounted on the wall for better viewing.
- A new 1 Mbps leased line connection was set up for the use of students.
- Computer department of the college has signed up for Microsoft Campus Agreement and for all the licensed versions of Adobe Products.

### 28. Computer and internet access and training to teachers and students:

- The Internet machines in the library for students were fine-tuned and leased line connectivity was given better bandwidth.
- The Wi-Fi connectivity of the college was reconfigured and is still under fine-tuning for better accessibility
- The teachers of the college were also given training on the use of Microsoft Excel for entering and monitoring attendance entries of the students.
- Students from non-computer background were offered a month long course on basics of IT by Cyberclub students at a minimal rate of Rs. 150/-
- Bioinformatics centre of Biotechnology department was established and it has enable periodic training to teachers and students in the field of Life Sciences

**29. Financial aid to students:**

The college has a scholarship fund for the economically backward students that come under what is called the FEAE Scholarship. Another fund (Emergency Account) has been created and administered at the discretion of the Principal.

**30. Activities and support from the Alumni Association: Career counseling was given this year.**

**31. Activities and support from the Parent- Teacher Association:**

The heads of the departments would update the parents regarding the performance and the class attendance of the students. Parents and teachers of some department were also offered a session by the College counselor Ms. Arlene Kharnongrum on issues of Parenting.

**32. Health services:**

The college has tie-up services with Nazareth Hospital, Shillong. The college also provides consultancy services to the hospital as well as other health centers in the state from time to time.

**33. Performance in sports activities:**

Students, teachers and technical staff participate in various sporting events during the annual College -Week celebrations, MCTA Inter- College sports meet, Varsity week sports for M. Sc. and other events; some get selected in the college teams of various sports. The college also has had state-level players in Football, Cricket, Table Tennis, Badminton and Basketball.

**34. Incentives to outstanding sportspersons: Nil**

**35. Student achievements and awards.(e.g attendance, etc.):**

- Meritorious students have secured admissions to P.G. courses in recognized institutions. A few have been recruited by Industry and other educational institutions.
- This year saw most departments achieving 100% pass results in the NEHU exams. Most of the top rank holders in the University examination belonged to the college.
- Students have successfully emerged in entrance examinations of reputed institutions for different PG programmes. Token of appreciation in the form of certificates and medals were awarded to students in academics as well as in the different activities conducted by the departments and the college.

**36. Activities of the Guidance & Counseling unit :**

- Life Orientation programmes aimed at developing the personality of the student were organized for all the degree students over a period of 3 days every year.
- Communication Skills Development programme was held for a period of 3 weeks. The focus of this programme was to hone the necessary skills that would be required by a student as they move on to the job scene or for higher studies.
- The Student Development Services organized a coaching programme for candidates aspiring to appear for the numerous Entrance Tests for MBA and M.Sc. in Biotechnology.
- There were a number of guest lectures and career talks held over the year on topics ranging from retail sector, insurance, Hospitality and Business Process Outsourcing.
- The SDS cell is involved in personal and academic counseling for different requirements of students.

### 37. Placement services provided to students:

The placement officer of the college SDS is in correspondence with various recruiters for holding campus interviews. A total of 181 students were offered jobs by companies like Satyam Services Ltd, Wipro, IBM DAKSH, GENPACT, 7th Solutions, HSBC and Infosys.

### 38. Development programmes for Non-teaching staff: Nil

### 39. Healthy practices of the institution:

- Regular classes and timely completion of syllabus, Maintenance of cleanliness in the department, Maintenance of College botanical garden and celebrations of World environment Day.
- Chemistry Department conducted **Orientation Programme** in Chemistry Honours for the B.Sc 1<sup>st</sup> year Honours students and conducted assessment tests at the end of the programme and weaker students were identified. Remedial measures for such students undertaken.
- A very cordial and personal relationship between the faculty and the students and their parents exists.
- The teachers of the departments actively look into the welfare of the students both academic as well as personal life. The students are encouraged and given the life skill training and personal development with the help of qualified resource persons. The academic performance of the students is actively monitored and whenever required remedial measures are taken.
- For every workshop/seminar and hand-on training programme attended by the students, they are awarded a certificate of participation and recognition from the concerned authority.
- Students are also asked to evaluate and provide the department with a feedback for each and every programme attended by them.
- The non-teaching staff carries out the maintenance tasks like cleaning and painting with incentives given from the college. This brings about a deep sense of belonging and commitment towards the institution.
- Career counseling, personal counseling, coaching for competitive examinations and such other programmes are organized by the Student development services. The SDS also holds Personality Development and Communication Skills workshops, Motivational Leadership programmes like Skills Training programmes, etc. The SDS cell also extends its services to schools and colleges in the city.
- Blood donation Camps are a regular activities organized by the NSS and the NCC units of the college.
- A Spiritual Orientation is carried on by holding all faith prayers at the beginning of every function. Special days are set aside for prayer experience during the year. The College Association comprising elected representatives of the students and representatives of the staff and the management that looks into the normal day-to-day functioning of the college as well as in the organization of events that take place in the college from time to time.
- SILOAM- a Transformational Leadership Resource Centre and an Extension service centre of the college, situated in an idyllic location, holds programmes for the students and staff. It also holds other outreach programmes like Leadership training, Professional

enrichment programmes, Training Counselors for schools and colleges, Marriage Revitalization programmes and Parenting Skills workshops.

#### **40. Linkages developed with National / International, Academic or Research bodies:**

Linkages established with:-

Indian Institute of Technology, Guwahati, Tezpur University (Central University), Tezpur, Regional Atomic Mineral Directorate, Shillong, Meghalaya State Pollution Control Board, Shillong. Under sponsored DBT project Grant, the Departments conducted Platinum Jubilee Seminar, Field trips and Interdisciplinary interaction programmes. Associated with research bodies: All India Science Congress, All India Congress of Cytology and Genetics, Aquaculture Biodiversity Conservation Society, Indian Society of Developmental Biologists. Besides these the different departments also developed linkages with : North Eastern Council, National Informatic Centre, Different departments in the Government of Meghalaya, TCS Kolkatta, CISCO India, Red Hat Pvt. Ltd India, Oracle Pvt. Ltd. India, IIT Mumbai, Saohar College of Technology Sultanate of Oman, Presidency College Chennai, Loyola College Chennai, Assam Engineering college assam CDAC Bangalore, Kolkatta, IIM Shillong NIT Silchar Prometric for CAT Exam and Dr. Babasaheb Ambedkar Marathwada University Aurangabad MS India

Any other relevant information the institute wishes to add: Zoology department pf St. Anthony's College is waiting for the celebration of its Golden Jubilee Year. For this, all necessary preparations are underway.

### **Part-C**

#### **Detail of the plans of the Institute for the next year from June 2010to May 2011.**

1. The Institute will strive to maintain the success rate in the North Eastern Hill University examinations through continuous monitoring and assessment. Assignments, tests (both closed book and open book), projects, case discussion, presentations, will be utilized for their observed benefits to the students.
2. Besides fulfilling the regular academic duties, the Department contemplates to:  
hold a National Seminar on “**Global Trends in Modern Chemistry**” in December, 2010.
3. To continue strengthening the infrastructure of the department by procuring new instruments and incorporation of new teaching aids.
4. To continue with the expansion and improvement of the museum.
5. To continue with the process of procuring books and journals for the departmental library.
6. To continue making the research laboratory well equipped for research.
7. To continue with existing programme for the holistic development of the students.
  
8. The Institute has earmarked additional funds to further strengthen its library by procuring and adding more books to its existing collection and also subscribing to new journals. It has also chalked out plans to start a students' book bank where students can borrow specific number of books that can be retained by them for one whole academic year. Another plan to bar code all its books will take shape this coming academic year. The library will also have a photocopying section for students.
9. Every departmental library will be further equipped with new books, journals and other relevant reading material.

10. To Invite resource people from research institutions, Universities, and the private sector to interact with P.G. and U.G. students, to expose and update them on advancements in various fields and to sensitize them about the scope in those respective fields.
11. Every department will be encouraged to organize and conduct student seminars whereby they will be exposed to new ideas and also enhance their communication and presentation skills. In this connection, the institute will organize, coordinate and conduct National workshops and seminars on various important areas and topic.
12. The Institute plans to improve Multimedia Teaching Aids centre with laptops, LCD projectors, Overhead projectors.
13. Through a full-time placement coordinator for help and assistance to enlighten our graduate and post graduate students in gaining employment to various reputed firms and institutions.
14. One of the institute's endeavors has always been to provide value education to students. In this regard, the institute will continue a holistic training centre known as SILOAM to impart relevant life skills to both student and teacher alike. Services rendered by SILOAM will also be available to the community at large.
15. The examination system will be fully computerized and also integrated with the students' admission system for keeping and storing student data.

**Dr. H. G. Lyngdoh**  
**Co-ordinator**