

CHRISTIAN COLLEGE, CHENGANNUR

[ACCREDITED WITH B⁺ BY NAAC]

ANGADICAL SOUTH P.O., KERALA – 689 122

ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC FOR THE YEAR 2007-08

Introduction

Christian College, Chengannur is one of the oldest and prestigious Arts and Science college owned and managed by The Malankara Mar Thoma Syrian Church and affiliated to the University of Kerala. It is a NAAC accredited B+ college. Founded in the year 1964, Christian College towers high on a hilltop with pristine beauty as a center of excellence in education.

The motto of the college is “Our Utmost for the Highest”. The college always had its focus on academic excellence, formation of character, emphasis on spread of universal secular spiritual truth so as to produce intellectually well-trained, morally upright, socially conscious and technology savvy youngsters. The college has grown into a full fledged temple of learning with graduate courses in Physics, Mathematics, Chemistry, Botany, Zoology, Economics, History and English and Post Graduate courses in Physics, Economics, English and Analytical Chemistry.

The college was active in various academic, research and extra curricular activities during the academic year 2007-08. Several seminars, lectures and conferences were conducted during the report year. Also five young faculty members and two young non-teaching staff members joined the college giving an extra tinge of youthful vigor to the college community. The research activity in the college has also got resurgence in the light of the FIST grant received by the Department of Physics from the Ministry of Science and Technology, Government of India. The faculty members of different departments are actively engaged in research and many research projects are currently ongoing. Many teachers

attended and presented papers in national and international conferences. All the subject associations and various clubs were active in arranging various seminars and programmes during report year. The NCC and NSS conducted various social activities reaching up to the lower strata of the society.

PART A

PLAN OF ACTION FOR THE YEAR 2007-08

Christian College, Angadical South, Chengannur, Kerala has been accredited with B+ grade by the National Assessment and Accreditation Council (NAAC) in the year 2004. Based on the guidelines of the NAAC, the college has constituted an Internal Quality Assurance Cell (IQAC). The IQAC is envisaged as an internal nodal agency to evaluate, promote and consolidate all the activities of the college.

The committee chalked out long term and short term action plans for ensuring continuous improvement in the entire operations of the institution. The IQAC motivated and monitored various academic and non-academic activities during the year 2006-2007 in light of the long term and short term plan formulated. The IQAC discussed the action plan for the year at the beginning of the academic year based on the short term plans envisaged by the last year IQAC.

In consultation with all the committees in the college, a schedule was prepared for convening the Planning Board, Academic Committee, Research and Analysis Committee, Computer Education Committee, Library Advisory Committee, Career Guidance and Placement Cell, Examination committee, Women's Cell, Sports and Games Committee Ethics Committee etc. The recommendations of all the committees were consolidated by the IQAC into short term and long term work plans.

The constitution of the IQAC is detailed below:

Members of IQAC

1. Dr. Jacob George : Principal & Chairman
2. Sri. Ajith Verghese George : Coordinator
3. Prof. Jacob George : Management Representative
4. Sri. Thomas George : Management Representative
5. Prof. M. K. Thomas : Nominee from Local Society
6. Smt. T. Annamma Oommen : Head, Department of English
7. Smt. Molicce Thomas : Department of Chemistry
8. Sri. Thomas Alex : Head, Department of Botany
9. Sri. E. Daniel : Head, Department of Mathematics
10. Sri. Lalu Varghese : Department of Economics
11. Smt. Ruby Mathew : Head, Department of Physical Education
12. Dr. Johnson Baby : Department of Zoology
13. Dr. Vinoy Thomas : Department of Physics
14. Sri. K. T. Thomas : Office Superintendent
15. Sri. Nidhi Alex M. Ninan : Librarian

The plan evolved by the committee for the academic, co-curricular and research activities for the year 2007-08 is listed below:

- ◆ Conducting National and Regional level seminars/Talks/Conferences
- ◆ Conducting seminars and lectures by Career Guidance and Placement Cell and providing campus placement opportunities to students.
- ◆ Inspire the Faculty to undertake more research projects and publish research articles in peer reviewed journals
- ◆ Instigate teachers to participate in conferences and refresher courses.
- ◆ Develop the college campus as an eco friendly one.

- ◆ Renovation of the College Auditorium.
- ◆ Rewiring of the main building and departments.
- ◆ Initiate steps to appoint regular lecturers in place of guest lectures and vacant posts of non teaching staff.
- ◆ Construction of women's hostel.
- ◆ Completion of compound wall.

Based on these plans, various activities and programmes were conducted during the proposed year. The committee evaluated the progress on a regular basis. Comments and recommendations for further improvement in quality were issued at various stages.

ACHIEVED OUTCOME IN A NUTSHELL

- The concept of academic planning introduced by the IQAC has been widely appreciated and welcomed by the students and staff members. The various departments, following this planned approach, identified their strength and weaknesses. Following the general directions of IQAC, each department worked out their plan of action for the year. IQAC carefully monitored the activities of all the departments and committees and provided all support for further enhancement of the quality. The faculty members and non-teaching staff members were offering voluntary services in Career Guidance and Placement, Counseling, community services, social activities and related services.
- The sustained encouragement and guidance of IQAC has also resulted in the increased participation of students in extra curricular activities like debate, quiz, sports, elocution, community development programmes etc which are organized by the college. A separate club named Red Ribbon club was organized this year to promote awareness about blood donation in the students. The benevolence of students to participate in blood donation is being utilized by seven hospitals including Government hospitals in and around Chengannur.

- The persistent efforts of the Parent Teacher Associations had paid off in the form of increased interaction of parents with the teachers and college authorities. Nearly 100 percent attendance in parent teacher meetings is achieved by these efforts. The parents were provided with quarterly and annual reports of the academic, extra curricular performance and attendance of the students. This has improved the performance of students and the general improvement of academic and disciplinary atmosphere of the college.
- In consonance with the increase in job opportunities in the private sector and the severe competition amount the job aspirants for finding jobs, the need for improvement of soft skills is important. In this regard the Career Guidance and Placement Cell of this college functioned effectively and actively. The placement cell organized several campus interviews and 14 students got placement in various companies, banks and other firms. Several programmes like personality development, how to face interview board etc were conducted this year.
- During the beginning of the academic year the students were given the college email id and have instructed to point out their grievances/comments/suggestions/ criticism etc if any. The valuable feedbacks received from the students were seriously tackled and adequate and practical solutions were provided.
- The auditorium is renovated this year and is now used for various activities and functions organized by the college. New instruments were acquired by the Physics, Chemistry, Botany and Zoology departments. The construction of compound wall is also completed this year. Expansion of the Women's hostel utilizing the funds received from University Grants Commission has started and is steadily progressing. Rewiring of the College main building and departments has completed. Additional water taps were also provided for the students.
- The efforts of IQAC to inspire the faculty members to undertake more research projects and publish research articles in peer reviewed journals has reaped good

results. The Department of Physics got Rs. 24 lakhs as financial assistance from the Ministry of Science of Technology, Government of India {FIST Grant} for upgrading the Post Graduate teaching and research facilities of the Department. Nineteen faculty members applied for minor research project to University Grants Commission for conducting research work

- As per the provisions of the Kerala University Act and Statutes, elections were conducted to the College Council. College Union (Students Union) elections were also conducted as per the direction of the University.
- The Alumni association was very active during the report year. The annual get together is organized in the Deepavali day and the participation of the former staff members and students has substantially increased.
- NSS and NCC functioned very effectively during the year. Several community and social welfare activities were organized. Due the increasing interest in the number of students aspiring to join NSS, the college has applied for a second unit and was sanctioned by the Kerala University.
- Regional seminars were conducted successfully. Four teachers participated and presented papers in National/International conferences.
- One teacher completed FIP and submitted PhD thesis. Eight other teachers are continuing their research work leading to PhD.
- The students and staff members were motivated to keep the campus eco friendly. Seminars were organized related to these topics. This has reflected in the general cleanliness of the campus and reduction in the quantity of plastic waste in the campus.
- Five regular teachers were appointed in place of guest lectures and two vacant posts of non-teaching staff were also filled.
- A yearly publication briefing the year long activities of the college named “*Campus Communique*” has been published (Copy of the same appended).

PART B

1. ACTIVITIES REFLECTING THE GOALS AND OBJECTIVES OF THE INSTITUTION

All the activities of the college were designed in tune with the motto of the college “Our Utmost for the Highest”. Since its inception this college existed as a beacon of light for aspiring students in and around Chengannur which is surrounded by a diverse population, the majority of which is poor.

Some of the policies/objectives followed by the institution:

- Strengthening of healthy practices and imbibing academic and moral ethos in students and staff.
- Admission and appointment policies are formulated that merit is never overlooked.
- No capitation fee other than the fees prescribed by the University/Government is collected.
- Computer training, communicative English classes and personality development programmes were offered to students.
- Sports facilities like multi gymnasium were offered to students free of cost.
- Providing special career orientation programmes to students.
- Encouraging students and staff to utilize library and internet facilities to the maximum.
- Imbibe research atmosphere among the faculty so as to attract more students to pursue their career in fundamental and applied research areas.
- Inspire faculty members to undertake more research projects utilizing the funding agencies like University Grants Commission, Kerala State Council for Science Technology and Environment, Department of Science and Technology- Government of India etc and to publish more research papers in peer reviewed international and national journals.

2. NEW ACADEMIC PROGRAMMES INITIATED [UG AND PG].

As per conditions stipulated in Kerala University Statutes, affiliation of the University and sanction of the Government of Kerala is necessary for starting new courses in affiliated Colleges like ours. Even though the college applied for new and innovative courses in the reported year also, due to the restrictions imposed by the Government, no new courses were sanctioned during the academic year.

Certificate courses on Office Automation, Internet and Numerical Applications were conducted by the computer division of the College for UG and PG students. The Department of Physics has continued UGC/CSIR-NET coaching programme for the postgraduate students of this college and nearby colleges.

3. INNOVATIONS IN CURRICULAR DESIGN AND TRANSACTION.

The University of Kerala has a rigid approach regarding the Curriculum design. The Board of Studies of the concerned subject and the Academic Council of the University is preparing the syllabus for the different courses for the entire University. However, while designing new syllabus, the academic bodies usually request for comments on the draft proposals from experts of colleges. Faculty members of this college viz, Sri. S. Rajagopal, Sri. Mathew Varghese, Sri. Ajith Verghese George, Sri. E. Daniel, Dr. Rajan David, Sri. Thomas Alex, Smt. Leela Joseph and Smt. Annamma Oommen contributed during the curriculum design and transaction. Many of the faculty members of this college actively participated in the deliberations and discussions conducted by the University for reformulating the syllabus and course restructuring.

4. INTER DISCIPLINARY PROGRAMMES STARTED

The thin film coating unit and high temperature furnace facilities of the Research Lab of the Department of Physics and the polymer synthesis facility available in the Department of Chemistry were used by many students.

5. EXAMINATION REFORMS IMPLEMENTED.

The College has an Examination Committee consisting of senior faculty members. Also every Department has its own examination committee under the leadership of the respective heads of the department. This committee works in consonance with the College Examination committee. In the reported year the committee continued the two tier examination system - a series of tests organized by the concerned department and terminal examinations by the college. The academic performance and the general conduct of the students were analyzed and the same have been informed to the parents regularly. PTA meetings were organized for all the classes in which the general progress and behavior of the students were discussed. Feedbacks collected from the parents were also evaluated. This has resulted in the improvement of the overall performance of the students.

A Post Graduate monitoring committee is also constituted as per the guidelines of the University of Kerala to address the grievances of the students connected with the marks awarded in various internal assessments.

6. CANDIDATES QUALIFIED NET/ GATE/SLET ETC.

The faculty members continually encourage the post graduate students to appear for NET, GATE, SLET examinations seriously. The Department of Physics continued the NET coaching classes in the year under report. The Department organized two workshops in connection with the coaching under the sponsorship of Malankara Mar Thoma Syrian Church. The first one was a Two-Day workshop on General Theory of Relativity held during February 22-23, 2008. Dr. K. P. Satheesh, Reader, Govt. College, Kottayam handled the classes. The second workshop was held on 7th March, 2008 on Nanotechnology. Dr. P. T. Thomas, Reader, Government College, Kozhikode delivered talks on 'nanostructures'. Teachers and postgraduate students of five nearby colleges participated in the workshops. Ten Postgraduate students attended the NET examination and two were successful.

Eight students of this college, after their post graduation joined research leading to PhD. Ten students had qualified the State Eligibility Test [SET] conducted by the Government of Kerala.

7. INITIATIVE TOWARDS FACULTY DEVELOPMENT PROGRAMME

Smt. Sophia K. Philip [Chemistry] and Smt. Achamma Alex [English] of the college availed FIP scheme of the University Grants Commission and completed their research during the 10th plan period and rejoined the college during the reported year. Mrs. Sophia K. Philip submitted her thesis entitled "Solution, Solid Phase and Microwave Assisted Synthesis of Aminothiamle Precursors and their Cyclisation" for the award of Ph.D degree in Chemistry.

Mrs. Annes Joseph, Department of Zoology presented a research paper entitled "Immuno stimulatory effect of zinc in tiger shrimp *Penaeus monodon*" in the 8th Asian Fisheries Forum held at Kochi during November 20-23, 2007. Mr. Ajith Verghese George, Department of Chemistry presented a paper entitled "Bio Organics of Rivers Manimala, Achencovil and Pamba of Pathanamthitta and Alappuzha Districts of Kerala" in the International Conference on Climate Change and Water Crisis held at Bishop Moore College, Mavelikkara during February 4-6, 2008.

8. TOTAL NUMBER OF SEMINARS/ WORKSHOPS CONDUCTED.

Seminars organized in the college may be grouped into three categories.

- Academic Seminars.
- Other Meetings and Programmes
- Student seminars.

Academic Seminars conducted during 2007-08

1. The post graduate Department of Physics organized a one day seminar on 'Magnetic Nanomaterials' on October 19, 2007. Dr. M. R. Anantharaman, Reader, Cochin University of Science & Technology, Kochi delivered the keynote address.

2. The Department of Mathematics conducted a One-Day Seminar on "Algebra and Graph Theory" on 21st February 2008. Dr. Radhakrishnan Nair, Department of Mathematics, Dewaswom Board College, Sasthamkotta delivered a lecture on "Medieval Mathematics" and Dr. Joseph Mathew, Head, Department of Mathematics, St. Berchmans College, Changanacherry delivered a lecture on "Graph Theory".
3. The Department of Mathematics organized another seminar on 'Groupoids' on 14th March, 2008. Prof. B. Jayasree, M. S. M. College, Kayamkulam delivered the keynote address.
4. The post graduate Department of English organized a one-day seminar for graduate and postgraduate students on 25th September, 2007. Prof. B. Harikrishna, NSS College, Pandalam spoke to the students on 'Postmodernism'.
5. A Lecture on "Environmental Resources of Kerala" was organized by the Department of Botany on 3rd March, 2008. Dr. C. C. Harilal, Department of Plant Science, Government College, Mahe, served as the main resource person.
6. Department of History organized a one-day seminar on "Importance of History as a Discipline" on March 13, 2008. Dr. P. M. Rajan Gurukkal, Director of School of Social Sciences, Mahatma Gandhi University, Kottayam served as the main speaker.
7. A Lecture on "Zoonotic Diseases " was organized by the Department of Zoology, on March 11, 2008. Dr. P. B. Satheesh Babu, Geneticist, Central Hatchery, Chengannur spoke on the occasion.
8. The National Science day was celebrated on 28 March 2008 with the financial assistance from Kerala State Council for Science Technology and Environment. Popular science writer Sri. Palliyara Sreedharan delivered a talk on the topic 'Understanding planet earth.' Quiz and elocution competitions were also conducted for the undergraduate and postgraduate students. A video documentary was presented on the focal theme.

Other Meetings and Programmes

1. In connection with the Traffic Awareness Week, an awareness programme was conducted for the students. His Grace Dr. Zacharias Mar Theophilus Suffragan Metropolitan inaugurated the seminar. Sri. B. Raveendranath, DYSP Chengannur, led the session.
2. The Christian College Fellowship organized a one-day conference for the students on 6th October, 2007. Mr. George Behanan led a session on counseling and Rev. Ninan Daniel handled the moral study.
3. The English day celebrations were organized by the Department of English on December 21, 2007. Dr. Abraham Karickam, Principal, Mar Thoma College Tiruvalla delivered the keynote address.
4. January 28, 2008 was observed as Library Day. Quiz, Essay, Best reader competitions were conducted in connection with the programme and prizes were distributed to the winners. Noted French born Indian artist Miss. Louba Schild was the chief guest in the meeting.
5. Dr. B. Arunthathi, famous play back singer and Head, Department of Music, S. N. College, Kollam inaugurated the activities of Women's Cell on 16th November 2007.
6. A meeting was convened on 29th October 2007, to felicitate the newly installed Mar Thoma Metropolitan Dr. Joseph Mar Thoma, former Manager of the College. Rt. Rev. Dr. Zacharias Mar Theophilus Suffragan Metropolitan, Manager of the College, presided over the meeting. Principal Dr. Jacob George, Er. Mathew Varghese, Prof. Ajith Verghese George, Prof. Mathew Varghese, Prof. K. M. Abraham, Sri. T. V. Babu and Sri. Alen felicitated. Manager Thirumeni presented a memento to the Metropolitan.
7. Intercollegiate Quiz competitions were conducted by the Department of Economics. Cash awards were distributed to the winners.

8. Christmas Carol service was held on 7th December 2007. Rt. Rev. Thomas Samuel, Bishop of the Church of South India gave the Christmas Message. Christmas Carol singing competitions were also arranged on 5th and 6th December 2008.
9. Staff Association published a Staff Address Directory. His Grace Dr. Zacharias Mar Theophilus Suffragan Metropolitan released the directory. Former Principal, Dr. George Zachariah, received the first copy.
10. The Tourism club and Nature club conducted a nature study camp from 26-28 January 2008 at the Wild Life Sanctuary, Munnar. 17 student members and 5 staff members participated in the study camp. The forest department of the Government of Kerala sponsored the camp.
11. The Tourism club organized a lecture about snakes on 13th February 2008. Miss. Amy Elizabeth Thomas gave a talk on “Snakes-our Friends”.
12. The Hostel Day of the women’s hostel was celebrated in a befitting manner on 28th February 2008. Rev. Sunil Mathew was the chief guest on the occasion.

Student Seminars

As per the Syllabus of the University of Kerala every student of the PG course must present a seminar in every semester. The seminar presentations of the student will be a one hour programme and the same is attended by almost all faculty members of the concerned department. Seminars were evaluated critically and suggestions for improvements were made. Students of the UG level were also given assignments to conduct seminar on selected topics

9. RESEARCH PROJECTS.

1. Dr. Vinoy Thomas & Mr. Hysen Thomas, Department of Physics are continuing their major research project entitled ‘*Synthesis of Ultrafine Magnetic Particles for Application in High Frequency Magnetic Cores and Magnetic Thin Film Sensors*’ amounting to Rs. 4,49,350/- sanctioned by the Kerala State Council for Science Technology and Environment (KSCSTE).

2. Dr. Jacob George, Principal, is continuing the minor research project entitled '*Pattern Formation in reaction diffusion systems*' amounting to Rs. 60,000/- from U. G. C.
3. Mr. Hysen Thomas, Department of Physics, is continuing minor research project entitled '*Fabrication of Magneto-Impedance Based Sensors*' amounting to Rs. 80,000/- from UGC.

FIST Grant to the Department of Physics

The Department of Physics received Rs. 24 lakhs as financial assistance from the Ministry of Science and Technology, Government of India for upgrading the postgraduate teaching and research facilities. This is a commendable achievement of the Department of Physics. Using the grant, the department will procure UV-Vis-NIR Spectrophotometer, LCR Meter, full setup for laser optical experiments, High Precision Michelson interferometer facilities. An amount of Rs. 5 lakhs will be used for purchase of books on advanced physics and 4 lakhs for a full-fledged computer lab with networking facilities.

10. PATENTS GENERATED IF ANY:

NIL

11. NEW COLLABORATIVE RESEARCH PROGRAM:

The Department of Physics is continuing a major research project on 'Synthesis of Ultra-Fine Magnetic Particles for Application in High Frequency Magnetic Cores and Magnetic Thin Film Sensors'. The project was implemented in consultation and collaboration with Dr. M. R. Anantharaman, Department of Physics of Cochin University of Science and Technology, Kochi. The Department also has collaborative research agreements with St. Berchmans College, Changanacherry and the Department of Physics, University of Calicut in the field of Pattern Formation, Transparent Conducting Oxides and Crystal Growth. The Department of Chemistry has got collaborations with Bishop Moore College, Mavelikkara on the topic of Bio Organics of Rivers.

There are arrangements for students exchange for Post Graduate research project programme with colleges like St. Berchmans College, Changanacherry, St. Thomas College, Kozhencherry, Mar Thoma College, Tiruvalla, Sree Narayana College, Kollam, MSM College, Kayamkulam and Bishop Moore College, Mavelikkara.

12. RESEARCH GRANTS RECEIVED FROM VARIOUS AGENCIES.

Sl. No	Funding agency & Amount Allocated	Name of PI and Co-PI	Department
1.	KSCSTE, Kerala Rs. 27500 (Second Installment)	Dr. Vinoy Thomas Mr. Hysen Thomas	Physics
4	Ministry of Science and Technology, Government of India Rs. 18 lakhs	All Faculty Members of Department of Physics	Physics

13. DETAILS OF RESEARCH SCHOLARS

Smt. Sophia K. Philip [Chemistry] and Smt. Achamma Alex [English] of the college availed FIP scheme of the University Grants Commission and completed their research during the 10th plan period and rejoined the college during the reported year. Mrs. Sophia K. Philip submitted her thesis entitled "Solution, Solid Phase and Microwave Assisted Synthesis of Aminothiamle Precursors and their Cyclisation" for the award of Ph.D degree in Chemistry.

Sri. Ajith Verghese George [Chemistry], Mr. Hysen Thomas [Physics], Sri. A. Abraham [Physics], Jisha John [Economics], Mr. John George Athyal [English] and Thomas P Thomas [Botany] are doing part time research at various Universities. Many research scholars from St. Berchmans College, Changanacherry, Mar Thoma College, Tiruvalla and Mahatma Gandhi University and MSM College, Kayamkulam has utilized many research facilities available in the College.

14. CITATION INDEX OF FACULTY MEMBERS AND IMPACT FACTOR

Publication of faculty members in peer reviewed Journals during 2007-08

Following teachers published research papers in accredited national / international journals during the academic year.

1. **Dr. Johnson Baby** (Zoology)

“Constitutive and inducible nuclear factor-kappa B in immortalized normal human bronchial epithelial and non-smell cell lung cancer lines” *Cancer Letters*, 2007 September 18 255 (1): 85-94. Available online at www.elsevier.com

2. **Mr. Hysen Thomas** (Physics)

“On The Crystallization Dynamics and Micro-structural Transformations of Fe₄₀Ni₃₈B₁₈Mo₄ Alloys”, *Journal of Materials Science*, February 2008.

3. **Mrs. Annies Joseph** (Zoology)

"Acute salinity stress alters the haemolymph metabolic profile and reduces immuno competence to white spot syndrome virus /infection" *Aquaculture* (2007) 87-97. Available online at www.elsevier.com/locate/aquaonline

4. **Dr. Biju Thomas** (Political Science)

“Putin’s India Policy: Mutual Gains for Future” *India Quarterly*, April-June, 2007

5. **Mrs. Subi Elizabeth Oommen** (Economics)

“Economic Development and Social Sector Development-An Inter District Analysis”, *Southern Economist*, December 2007

Publication of faculty members in Conference Proceedings during 2007-08

- Mr. Ajith Verghese George, Department of Chemistry presented a paper entitled “Bio Organics of Rivers Manimala Achencovil and Pamba of Pathanamthitta and Alappuzha Districts of Kerala” in the International Conference on Climate Change and Water Crisis held at Bishop Moore College, Mavelikkara, February 4-6, 2008.

- Mrs. Annies Joseph, Department of Zoology presented a research paper entitled "Immuno stimulatory effect of zinc in tiger shrimp *Penaeus monodon*" in the 8th Asian Fisheries Forum held at Kochi, November 20-23, 2007.

15. HONOURS/AWARDS TO THE FACULTY : Nil

16. INTERNAL RESOURCES GENERATED

The general policy of the college is to offer quality education at affordable rates even to economically backward students. We always try to minimize the financial burden to the students. The day to day expenses related to the running of the college is met from the generous contribution of Parent Teacher Association (PTA), Alumni and well wishers. The management also provides financial assistance whenever need arises. The entire amount so received was utilized for enhancing the quality of services offered. The amount received during 2007-08 is listed below:

No	Source	Amount
1	Parent Teacher Association	8,15,200.00
2	Alumni	10,000.00
3	Well wishers	2,82,500.00
4	Management	9,77,821.00
Total		20,85,521.00

16. DETAILS OF DEPARTMENTS GETTING SAP, COSIST (ASSIST)/ DST, FIST ETC. ASSISTANCE / RECOGNITION.

The Department of Physics received Rs. 24 lakhs {FIST GRANT} as financial assistance from the Ministry of Science and Technology, Government of India for upgrading the postgraduate teaching and research facilities.

Using the grant the department will procure UV-Vis-NIR Spectrophotometer, LCR Meter, full setup for laser optical experiments, High Precision Michelson interferometer facilities. An amount of Rs.5 lakhs will be used for purchase of books on advanced physics and 4 lakhs for a full-fledged computer lab with networking facilities.

18. COMMUNITY SERVICES.

The community service of the institution may be classified under three heads

- i. Activities of NSS and Red Ribbon Club*
- ii. Services offered by individual teachers*
- iii. Programmes organized by Departments.*

National Service Scheme & Red Ribbon Club

NSS unit of the college organized a one-day legal awareness class for undergraduate students on 13th September 2007. Sri. G. Girish, Honorable Judicial First Class Magistrate, Chengannur inaugurated the seminar. Principal Dr. Jacob George presided over the function. Adv K. K. Ramachandran Nair (President, Chengannur Bar Association), Prof. Thomas Mathew (Former NSS Programme Co-ordinator, University of Kerala) offered felicitations. Adv. C. N. Ammanchy (Marriage Laws), Adv. Aby Kuriakose (Criminal Laws) Adv. Ashok Ammanchy (Cyber Laws) Adv. P. K. Ajith Kumar (Other Laws) led different sessions.

Annual ten day camp of NSS was held from Dec 21-30, 2007 at Sri Vijayeswari High School, Cheriyanad. Sri. V. K. Vasudeven (President, Cheriyanad Grama Panchayath) inaugurated the camp. Dr. Vinoy Thomas and Sri John George Athyal, the Programme officers gave the leadership.

NSS and Red Ribbon club conducted a blood group detection programme on 11th October 2007. Blood groups of 297 students were identified and a directory of blood groups of all the students and staff members is prepared. The students have been donating blood to various hospitals as and when need arises.

Services offered by individual teachers

Several teachers worked as resource persons for seminars and other leadership training programmes in various neighboring Schools and Colleges. Sri. Mathew Varghese of Department of Economics is a senate member of the University of Kerala and is a management consultant. Sri. Thomas Alex, Head of the Department of Botany, is serving as the Treasurer of Christian Agency for Rural Development (CARD), a social organization of the Malankara Mar Thoma Syrian Church. He is also an executive committee member of the Krishi Vijyan Kendra of the Government of India located at Thelliyoor, Pathanamthitta District. Sri. Jacob George, Department of Physics, is serving as the President of the Mallappally Service Co-operative Bank. He is active in various organizations of the church which are engaged in social work at the downtrodden sections of the society. Dr. Desy P. Koruthu of the Department of Chemistry is a Counselor and her services were rendered to the students as well as to the public.

Programmes organized by departments

All the departments are frequently conducting programmes including lecturers on personality development, leadership training and communication skills. The Department of Physics conducted a series of lectures/classes for the post graduate students in connection with the UGC/CSIR-NET coaching programme.

All the programmes organized by respective departments were detailed in item no 8

19. TEACHERS AND OFFICERS NEWLY RECRUITED

In the report year Dr. Biju Thomas (Political Science), Mrs. Annies Joseph (Zoology) Mrs. Subi Elizabeth Oommen (Economics), Mr. Biji Abraham (Economics) and Dr. A. S. Jyothi Kanchan (Botany) were appointed as lecturers and Mr. Sunil K. Varghese (Typist) and Mr. Roymon Raju (Mechanic) were appointed as nonteaching staff.

20. TEACHING AND NON TEACHING STAFF RATIO.

The college has faculty strength of 55 Lecturers. There are 46 permanent lecturers [English - 7, Economics - 9, History - 2, Politics - 1, Mathematics - 3, Statistics – 1, Physics - 9, Chemistry - 6, Botany - 3, Zoology - 2, Malayalam - 1, Hindi - 1, Phy. Education-1] and 9 guest lectures. The total number of non-teaching staff members is 34. The Teaching to Non-teaching staff ratio is 1.62.

21. IMPROVEMENT IN LIBRARY SERVICES.

The central library houses 26033 books including 466 newly purchased, 46 periodicals and their back volumes. The books are arranged in separate sections based on subjects and their subdivisions.

The digitalization process could not be completed due to certain technical problems. The company undertook the digitalization work stopped functioning properly. The management has taken up the matter seriously and negotiating with the company for completing the process. The students are also provided with reprographic facilities. Attention was given for improving the quality of library services. Students are encouraged to use the library facility by organizing library day celebration. January 28, 2008 was observed as Library Day. Quiz, Essay and Best reader competitions were conducted and the prizes were distributed by the noted French born Indian artist Miss. Louba Schild. The library committee continually monitored the functions of the library and given effective suggestions for further improvements.

22. NEW BOOKS / JOURNALS SUBSCRIBED AND THEIR VALUE.

In addition to the existing stock of books 466 new books were purchased and added to the library during this period. In the report year the college received UGC grant of Rs 1,68,532/- for the purchase of books. Books of different subjects were purchased as per the decision of the planning board constituted in accordance with the guidelines of the University Grants Commission.

List of Journals subscribed and their value.

1. Current Science (Rs. 750)
2. National Geographic (Rs. 2375)
3. Pramana (Rs. 500)
4. Bulletin of Materials Science (Rs. 1200)
5. Indian Journal of Agricultural Economics (Rs. 3000)
6. Sajosps (Rs 250)
7. Electronics for You (Rs 385)
8. Indian Journal of Pure and Applied Physics (Rs. 1200)
9. Resonance (Rs. 400)
10. Economics and Political Weekly
11. Competition Affairs (Rs. 300)
12. Information Technology (Rs. 600)
13. Competition Master (Rs. 300)
14. Down to Earth (Rs. 480)

23. COURSES IN WHICH STUDENT ASSESSMENT OF TEACHERS WERE INTRODUCED AND THE ACTION TAKEN ON STUDENT FEED BACK

The College has an established system of teacher evaluation by students. Every department distributes general questionnaires to assess the performance and competence of the faculty members as assessed by the students. The feed backs were consolidated by the Heads of the Departments and intimated to respective teachers for further action.

24. UNIT COST OF EDUCATION IS RUPEES

The students need to pay the fees fixed by the University/Government. The fees collected from the students are remitted to the Government. The fee structure for each student per year in different disciplines is detailed below.

	Class	Amount (Rs)
Under Graduate	I st Year Chemistry/Physics	2,350
	I st Year Botany/Zoology	2,450
	I st Year Mathematics	2,170
	I st Year History/ Economics/English	2,070
	II nd Year Chemistry/Physics	1,355
	II nd Year Botany/Zoology	1,455
	II nd Year Mathematics	1,175
	II nd Year History/ Economics/English	1,075
	III rd Year Chemistry/Physics	1,265
	III rd Year Botany/Zoology	1,265
	III rd Year Mathematics	1,085
	III rd Year History/ Economics/English	1,085
Post Graduate	I st Year Analytical Chemistry/Physics	3,500
	I st Year Economics/English	2,600
	II nd Year Analytical Chemistry/Physics	2,440
	II nd Year Economics/English	1,540

UG students hailing from families having income less than 25,000/- per year and PG students having income less than 50,000/- per year is eligible for fees concession as per the Kumara Pillai Commission report. They have to remit only the caution deposits which will be reimbursed as and when the student leaves the institution. SC/ST students are exempted from the payment of fees. They are getting a lump sum grant and monthly allowance of about Rs. 4000/- per year.

Since Christian College Chengannur is a government aided college, the salary of teaching and non teaching staff is provided by the Government of Kerala. All other expenses related to the operation of the college are provided by the management with the help of parent

teacher association, alumni, well wishers etc. The cost of education per student per year [Including Government and management share] works out to be 41,424/-

25. COMPUTERIZATION OF ADMINISTRATION AND THE PROCESS OF ADMISSIONS AND EXAMINATION RESULTS, ISSUE OF CERTIFICATES.

Admission process was completely computerized and rank lists for various courses were prepared by a centralized process. The process of preparing the continuous assessments mark lists etc are also computerized. The final examinations are conducted by the University and the results are published by the University. The mark lists and certificates were also issued by the University.

26. INCREASE IN INFRA STRUCTURAL FACILITIES.

Most of the plans conceived during the beginning of the year were accomplished. The achievements are listed below.

1. The compound wall construction is almost complete. Report year, the expenditure incurred for this purpose amounts to Rs. 5,00,000/- and the final bill is to be settled.
2. The UGC has sanctioned an amount Rs. 64 lakhs for the construction of the women's hostel and the construction is in progress. The expenses were made from the first allocation of Rs. 32 lakhs.
3. It was decided to convert an existing building outside the campus and owned by the management to a hostel for men students and teaching and non teaching staff members. The work was started during January 2008 and the hostel is expected to be operational by 2008-09.
4. The auditorium is renovated during the report year and is now used for various activities and functions organized of the college.
5. The rewiring of the. College main building and departments were completed at an expenditure of Rs. 1,50,000/-

27. TECHNOLOGY UPGRADATION.

The computerization of admission procedure created an atmosphere for the acceptance of new technologies. The change towards student centered teaching methods has necessitated the incorporation of the use of electronic gadgets in teaching. Most of the faculty members now make use of internet in preparing teaching materials. The students were encouraged to prepare assignments using information from internet. More and more teachers are using computer for lesson plan and for preparing teaching notes. PowerPoint presentation and use of LCD is gaining more favorable reception among teaching community.

28. COMPUTER AND INTERNET ACCESS AND TRAINING TO TEACHERS AND STUDENTS.

The training programme to provide proficiency in using internet and computer skills started during the last year is continuing. More and more students are availing this facility and the general usage of internet in the college is substantially increased.

29. FINANCIAL AID TO STUDENTS

Parent Teacher Association

Financial assistance for weaker section in the form of scholarships was provided by the PTA of the college. Meritorious students and rank holders were awarded with scholarships. The students hailing from financially weaker section of the society were supported with financial assistance.

Alumni Association

Merit scholarships were provided by the Alumni association for outstanding students in each subject in the Undergraduate and Postgraduate courses. Special awards were instituted by the Kuwaiti chapter of the alumni for meritorious students from weaker sections of the society. Twelve students benefitted from this philanthropic effort.

Endowment and Scholarships by Management

Sixteen endowments are instituted by the management for giving scholarships to financially backward students as well as top scorers.

Staff Association

The association of teaching staff also provides financial assistance to various students based on need and merit. Individual teachers personally lend a helping hand to many students who are in need. Four retired teachers instituted endowments for giving awards to students based on merit and means.

30. ACTIVITIES AND SUPPORT FROM ALUMNI ASSOCIATION.

College has a two tier alumni association. Each department has their own alumni association and all these together constitute the College alumni. The main college alumni association has several chapters' scattered across the globe. The College alumnus is controlled by an executive committee. The college alumni meet every year on the Deepavali day. The alumni association has various regional chapters at Philadelphia, Kuwait, Dubai, Doha and Trivandrum. The Kuwait alumni chapter hosts a website for integrating various activities with address 'www.christiancollegechengannur.com'. It also publishes yearly newsletters. The Kuwait chapter donated Rs. 10,000 for Kuwait alumni awards. Many alumni members gave donations for the development of infrastructural facilities of the college.

31. ACTIVITIES AND SUPPORT FROM PTA

The PTA of our college is a democratically constituted body constituted from the parents of students of this college and teachers. An executive body elected at the annual general body meeting organizes the activities. The PTA is an important agency that actively participates in many day to day activities of the college and also plays an important role in the development activities of the institution. Two general body meetings of the PTA were held. Parent Teacher Association has collected Rs. 8,15,200/- and handed over an amount Rs. 4,72,500/- to college management for different developmental activities.

32. HEALTH SERVICES.

The college authorities take keen interest in providing clean water, bathroom and toilet facilities etc to the students. In the reported year the water distribution system is renovated by replacing old GI pipes with PVC pipes of ISI specification. New water taps were also provided. In association with nearby hospitals two health awareness programmes were organized in the reported year in association with National Service scheme. The students are encouraged to utilize the facilities of multi gymnasium regularly. The college has arranged councilors for providing adequate guidance and counseling for needy students. A seminar was conducted to increase the awareness among students about blood donation.

33. PERFORMANCE IN SPORTS ACTIVITIES.

The college has been taking keen interest in the sports and games activities. The college has teams for football, cricket, kabadi, table tennis, shuttle badminton, cross country and athletics. Our football team made a good performance this year by reaching the semifinal round of the Kerala university north zone intercollegiate tournaments. Four students of this college were selected to represent the north zone team. The team was also invited to participate in the prestigious George Joseph memorial football tournament organized by the TKM College of Engineering, Kollam.

Cricket team reached the quarterfinal rounds of the intercollegiate tournaments and one student was selected to represent the north zone team of the University. Cross country and athletic teams also participated in inter collegiate tournaments.

34. INCENTIVE TO OUTSTANDING SPORTS STUDENTS.

Sports day celebrations were conducted in which outstanding sports persons were honored. Financial help was given to sports and athletic students coming from BPL families. Special coaching is provided on holidays for students interested in cricket by Cricket Academy, Chengannur.

35. STUDENT ACHIEVEMENTS AND AWARDS

Ms. A. C. M. Shaleena secured Third Rank in MA English and Ms. Betty Mathew, secured fourth rank in M.Sc. Physics from the University of Kerala.

The results of University examinations for undergraduate and postgraduate courses are noteworthy, in spite of the fact that most of the students hail from socially and economically backward sections of the society. The results of BSc. Degree examination of April-May 2007 is detailed below:

Course	Candidates appeared	First Class	Second Class	Third Class	Total passed	Percentage of pass
BSc Mathematics	16	8	2	4	14	87.50 %
BSc Physics	19	6	6	2	14	73.68 %
BSc Chemistry	17	5	5	-	10	58.82 %
BSc Botany	24	6	7	5	18	75.00 %
BSc Zoology	30	10	10	4	24	80.00 %

Compared to the results of science batches the results for Arts courses are moderately low. This fact is noticed by the IQAC and suitable recommendations are issued to the corresponding departments for immediate and necessary action. The results of B. A. Degree examination of April-May 2007 is as follows:

Course	Candidates appeared	First Class	Second Class	Third Class	Total passed	Percentage of pass
BA English	27	1	2	15	18	66.66 %
BA History	32	-	1	6	7	21.87 %
BA Economics	35	-	-	10	10	28.57 %

For Postgraduate courses, the University Examination results are commendable. Three of the four postgraduate departments scored 100 % pass. For Physics nine out of ten students secured first class. The English department secured 100 percent first class.

Course	Candidates appeared	First Class	Second Class	Third Class	Total passed	Percentage of pass
MSc Physics	10	9	-	1	10	100 %
MSc Anal. Chemistry	12	4	-	8	12	100 %
MA Economics	13	2	5	3	10	76.92 %
MA English	6	6	-	-	6	100 %

36. ACTIVITIES OF THE GUIDANCE AND COUNSELING UNIT.

The college provides guidance and counseling services to students at two levels. All students come under a tutorial system where the group tutor establishes a personnel rapport with the students. The counseling unit of the college offered personnel counseling to the cases referred to them by group tutors and organized seminars, workshops, talks etc for general mental health. The management appointed Rev. Biju C. P. and Rev. Sunil Mathew, professional councilors to help the students with proper guidance and counseling. They regularly visited the college and offered general counseling classes personal counseling to needy students.

37. PLACEMENT SERVICES PROVIDED TO STUDENTS.

A career guidance and placement cell functioned in the college under the leadership of Sri. Mathew Varghese of the Department of Economics. The programmes of the cell are:

- Training of students for competitive examinations and for facing interviews.
- Invite organizations for campus interviews.
- Provide placement assistance to students.
- Guidance for Higher Education in reputed educational institutes in India.

The cell conducted a number of personality development programmes for post graduate and final year degree students. Career guidance classes were conducted on information technology and fashion technology. Coaching classes on 'how to face the interview', 'how to prepare Curriculum Vitae' etc was also conducted by various experts in the respective fields. Twenty Four eligible students from various disciplines attended the campus recruitment drive conducted by the Federal Bank. Four students got campus placements in various branches of the bank during the reported year.

38. DEVELOPMENT PROGRAMMES FOR NON TEACHING STAFF

The computer lab has been providing free training in computer basics, Office XP, DTP and internet usage to non teaching staff. Four of the office staff members are now well versed in computer operations.

39. HEALTHY PRACTICES OF THE INSTITUTION.

- Special considerations were given to economically weaker candidates during admission. Five percent of the management seats are reserved for them.
- Active research is going on in all post graduate departments. All the infrastructural facilities are provided free by the management. The college welcomes students and teachers from nearby colleges for project work. The research facilities available are provided to aspiring students and teachers from nearby colleges free of cost.
- Innovation in curriculum: Even though the curriculum provided by the University is rigid, we incorporate innovations in its transaction and the practices include,
 - ❖ A general shift from teacher centered teaching to student centered teaching.
 - ❖ Computer, OHP and LCD aided teaching.
 - ❖ Exposing students to study materials available in the internet.
 - ❖ Remedial and enrichment classes.
 - ❖ Inter disciplinary and multi disciplinary teaching.

- ❖ Lectures on topics like preparation for competitive examinations, how to face interviews.
 - ❖ Research exposure to Students.
 - ❖ Parent – teacher – student interactive sessions.
 - ❖ Class wise PTA meetings
 - ❖ Seminars by eminent persons
- Daily meditation and Prayer in chapel for interested students from 9:00 am to 9:20 am.
 - Daily two minutes prayer song before the commencement of classes.
 - General counseling classes for all students and personal counseling for needy
 - Promoting sound skills like team work, leadership, social commitment and service orientation through the activities of NSS, NCC and other voluntary groups.

40. LINKAGES DEVELOPED WITH NATIONAL, INTERNATIONAL, ACADEMIC, RESEARCH BODIES

The Department of Physics and Chemistry has some linkages with some national and international laboratories and scientists in the area of research. They are listed below:

1. Crystal Physics Centre, St. Berhmans College, Changanacherry
2. Sol Gel Lab, School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam
3. Magnetics Lab, Cochin University of Science & Technology, Kochi
4. St. Thomas College, Kozhencherry
5. Mar Ivanios College, Thiruvananthapuram
6. Bishop Moore College, Mavelikkara
7. Istvan Lagzi, Department of Physical Chemistry, Eotvos University, Hungary
8. Quality Assurance Laboratory, Kollam
9. Mar Thoma College, Tiruvalla

41. ANY OTHER RELEVANT INFORMATION THE INSTITUTIONS WISHES TO ADD.

The institution situated in one of the highest hills in Chengannur is blessed with scenic beauty. The calm, serene and elegant atmosphere provides an ideal environment for learning. Christian College, Chengannur has a tradition of high academic excellence. Each year, postgraduate students of this college will be there among the roll of honor of the University, bagging any of the first three ranks. In consonance with the motto of the College '*Our Utmost for the Highest*' the teaching and non teaching staff members are striving hard to achieve perfection and excellence in the field of education and research.

PART C

PLANS OF THE INSTITUTION FOR THE NEXT YEAR

The plan of the institution for the next year is listed in a nutshell as follows:

- ◆ Fresh initiatives for improving the academic performance of students.
- ◆ Encourage students to utilize library facilities.
- ◆ Revamping the athletics and games by encouraging students and giving incentives to them.
- ◆ Initiate steps to appoint regular teachers in place of guest lectures and to fill vacant posts of non teaching staff.
- ◆ Inspire the faculty to undertake more research projects and publish research findings in peer reviewed national and international journals
- ◆ Instigate teachers to participate in national/international seminars, conferences and workshops
- ◆ Encourage the different departments to conduct national and regional seminars by using the possible grants from University Grants Commission and Kerala State Council for Science Technology and Environment.

- ◆ Procuring sophisticated research instruments for the Department of Physics using FIST grant.
- ◆ Seminars and lectures by career guidance and placement cell.
- ◆ Completion of women's hostel construction.
- ◆ Renovation of the existing old building outside the main campus and to convert it to a men's hostel to accommodate staff and postgraduate students.
- ◆ To continue with the initiatives towards converting the College campus to an eco friendly one.

Ajith Verghese George

Coordinator of IQAC

Dr. Jacob George (Principal)

Chair Person of IQAC

Chengannur

31.03.2008