

CHRISTIAN COLLEGE CHENGANNUR

[ACCREDITED WITH B⁺ BY NAAC]

ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC FOR THE YEAR 2006-07

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 as a center of excellence in education on a hilltop with pristine beauty.

The motto of the college is “Our Utmost for the Highest”. The college always had its focus on academic excellence and formation of character and 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 now has grown into a full fledged temple of learning with graduate courses in Physics, Mathematics, Chemistry, Botany, Zoology, Economics, History, English and Post Graduate courses in Physics, Economics, English, and Analytical Chemistry.

The Academic activities of the College include a spectrum of activities throughout the year. Various departments are active in organizing and conducting different academic and co-curricular activities and research. We also organize lectures of eminent personalities, and counseling sessions for students etc at par with our long-standing goal to achieve excellence in teaching and research. At present faculty members of different departments are actively engaged in research and many research projects and currently ongoing.

PART A

PLAN OF ACTION FOR THE YEAR 2006-07

Christian College Chengannur 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 constitution of the IQAC is detailed below:

Members of IQAC

1. Prof. Mathew C. Philip : 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. Annamma Oommen : Head, Department of English
7. Dr. Jacob George : Department of Physics
8. Smt. Molic Thomas : Department of Chemistry
9. Sri. Thomas Alex : Head, Department of Botany
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. George Mathew : Office Superintendent
15. Sri. Nidhi Alex M. Ninan : Librarian

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.

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. The recommendations of all the committees were consolidated into short term and long term work plans. The plan evolved by the committee for the academic, co-curricular and research activities for the year 2006-07 is listed below:

- Improve the efficacy of the scholastic and administrative structure of the Institution.
- Improvement of infrastructural facilities of the Institution.
- Initiate steps to improve academic support to weaker students.

- Commence steps to motivate more students to participate in Sports & Games
- Introduce new courses like Biotechnology, Mass Communication, B.Com, Microbiology, Information Technology, Bio Informatics, Social Work, M. Phil etc
- Improve the quality of academic programmes using ICT technology
- Organize programmes beneficial to the local society.
- Increase computer and internet technology awareness among students and non teaching staff and provide internet facilities to all students.
- Systematize the internal evaluation system so as make it more transparent.
- Strengthen and seek support from alumni and other support organizations.
- Conduct National and Regional level seminar / conference / workshops.
- Strengthen the research activities and facilities of the College through financial support from various funding agencies.
- Improve collaborative research projects and evolve a common platform for sharing infrastructural facilities and human resources with academic institutes and industrial establishments.

Based on these plans various activities and programmes were conducted in the proposed year. The committee evaluated the progress on a continual basis and recommendations were issued on various stages for further improvement.

ACHIEVED OUTCOME IN A NUTSHELL

- ❖ The importance and usefulness of academic planning has gained general acceptance. Everyone recognizes the necessity of an academic plan for the college, in the departmental level and teaching plan at the individual teacher level. Student centered teaching has gained acceptance. Teachers were offering voluntary services in guidance, counseling and placement related matters.
- ❖ The participation of students in debates, seminars, etc has increased. More and more students are coming forward in participating in community development programmes. Blood donation group was active throughout the year.
- ❖ Parents were showing more interest in the programmes of the institution. Almost 100% attendance in parent teacher meeting was achieved. Regular monitoring of student progress through tutorial sessions was effectively organized. The parents were provided with a detailed analytical report of the student's performance during the meeting. The feedback from the parents was encouraging.

- ❖ The Career Guidance and Placement Cell functioned actively. Valuable lectures on topics like personality development, how to face interview board etc were conducted. This has resulted in the placement of many students in various companies and institutions in and outside Kerala
- ❖ Feedbacks from students were collected about the academic and infrastructural facilities provided to them. Individual heads of the departments framed the questions, based on the guidelines provided by NAAC, and the results were consolidated and duly communicated to the principal for further action.
- ❖ Roofing for the administrative block was carried out during this period. New sophisticated instruments were acquired by the Physics, Chemistry, Botany and Zoology departments.
- ❖ As per the Provisions in the Kerala University Act and Statutes, elections were conducted to the College Council. College Union elections were conducted as per the direction of the University. Parent Teacher Association and Alumni association functioned well.
- ❖ Parent teacher student interactions were held successfully for all classes during the year. The feedbacks collected from parents during these meetings were very much helpful to the IQAC for formulating the programmes.
- ❖ Community service programmes were organized effectively by NSS and NCC.
- ❖ IQAC promoted self evaluation by individual teachers for improvement in their teaching, research extracurricular and co-curricular activities. Self evaluation from the teachers in the prescribed format was consolidated by IQAC and forwarded to the Heads of the Departments. The feedback was discussed in the departmental meetings. Teacher analysis was examined by individual teacher. This resulted in notable improvements in the efficiency of Departments.
- ❖ National and Regional seminars were conducted successfully and proceedings were published.
- ❖ Research grants were received from various agencies.
- ❖ One teacher completed FIP and was awarded PhD. Two other teachers are continuing their research work leading to PhD.

PART B

1. Activities Reflecting the Goals and Objectives of the Institution

The activities and programmes of the college were so designed to be in tune with the motto of the college. The college is imparting value based and modern education with the goal of moulding intellectually well-trained, morally upright, socially conscious and technology savvy youngsters.

Some of the policies/objectives followed by the institution:

- Strengthening of healthy practices.
- Admission and Appointment polices are so formulated that merit is never overlooked.
- No capitation fee other than University/Government fee is collected.
- Computer training, Communicative English classes and personality development programmes were offered to students.
- Sports facilities like multi gymnasium are offered to students free of cost.

2. New Academic Programmes Initiated [UG and PG].

Affiliation of the University of Kerala and Sanction of the state Government is necessary for starting new courses. Even though the college applied for new courses, 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 conducted a 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 is preparing the syllabus for the different courses for the entire University. However, while designing new syllabus, the Council usually requests for comments on the draft syllabus from experts of colleges. Faculty members of this college viz, Sri. S. Rajagopal, Sri. Mathew Varghese, Sri. Ajith Verghese George, Smt. P. J. Aleyamma, Dr. Rajan David,

Sri. Thomas Alex and Sri. Thomas Mathew contributed during the curriculum design and transaction. The seminar on advanced topics by professional and eminent experts, organized by each department provided new vistas of knowledge transaction and fields of research.

4. Inter Disciplinary Programmes Started

The thin film coating and high temperature furnace facilities of the Research Lab of the Department of Physics are used by many students of the department of Chemistry of this College.

5. Examination Reforms Implemented.

The College has an Examination committee consisting of senior faculty members. In addition to this, every Department has its own examination committee under the leadership of the respective heads of the department. This committee works in conjunction with the College Examination committee. In the reported year the committee planned and implemented a two tier examination system - a series of tests organized by the concerned department and terminal examinations by the college. Examination Results were monitored and detailed progress report of the students were sent to the parents by post. Class wise 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 resulted in the improvement of the overall performance of the students.

6. Candidates qualified NET/ GATE/SLET etc.

Post graduate students are advised to appear for NET, GATE, SLET examinations seriously. The department of Physics started a NET coaching class on 7th October 2006. The programme was inaugurated by Dr. K. Babu Joseph, Former vice-chancellor of Cochin University of Science & Technology. Classes on various topics in the CSIR-NET syllabus were handled by eminent persons. This academic year following students qualified UGC/CSIR Examination.

- i) Suby Elizabeth Oommen [Economics]
- ii) Adarsh [Economics]

- iii) Saraswathy P. [Economics]
- iv) Joice Thomas [Chemistry]
- v) Manukumar N. [Chemistry]
- vi) Lekshmi S. [Physics]

Nineteen students had qualified the State Eligibility Test [SET] conducted by the Government of Kerala.

7. Initiative Towards Faculty Development Programme

Several faculty members of the college availed the FIP scheme of the University Grants Commission and pursued research during the period under report. Smt. Achamma Alex [English] and Smt. Sophia K. Philip [Chemistry] are doing research under this scheme. Sri. Jacob George [Physics] who was doing research under FIP submitted the thesis and was awarded PhD during 2006-07. Sri. Ajith Verghese George [Chemistry], Sri. A. Abraham [Physics], Sri. Hysen Thomas [Physics], Smt. Jisha John [Economics] and Sri. John George Athyal [English] are doing part time research. Dr. Desy P. Koruth, Sri. Ajith Verghese George, Smt. Leela Joseph and Smt. Jisha John, Sri. Hysen Thomas participated in National seminars/Conferences.

8. Total Number of Seminars/ workshops conducted.

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

- a. National seminars conducted with the help of funding agencies.
- b. Seminars organized on regional level by departments.
- c. Lecturer programmes
- d. Student seminars.

National seminars conducted during 2006-07

Sl. No	Department	Topic	Venue / date	Funding agency
1.	Economics	Ecology and Development	College Auditorium 16-17 November 2006	UGC
2.	Physics	Current Trends in Materials Science (CTMS-07)	Charal Mount, Kuriannur 25-27 March 2007	UGC KSCSTE, Kerala

The Post Graduate Department of Economics in Association with The University of Kerala, on the occasion of the Golden Jubilee celebrations of the formation of the state of Kerala, had organized a seminar on “*Ecology and Development*” at the college auditorium on November 16 & 17, 2006. The seminar was officially inaugurated by Dr. M. K. Ramachandran Nair, Honorable Vice Chancellor, University of Kerala. Dr. Zacharias Mar Theophilus Saffragan Metropolitan, Manager of the college presided. Former Vice Chancellor of the Kerala University Dr. B. Iqbal, Dr. M. K. Prasad, Environmentalist and Dr. S. S. Santhosh Kumar, Disaster Management Consultant led the technical sessions. Selected Post Graduated students from different colleges presented their papers. The papers presented in the conference were published in the conference proceedings.

The Department of Physics conducted a 3 day National Conference on Current Trends in Materials Science [CTMS -07] from March 25-27, 2007 at Charal Mount, Kuriannor, Kerala. The conference was envisaged as an effective platform for the scientific community, especially the young scientists, to interact with each other, to share their knowledge and to foster research collaborations with Scientists of various R&D and academic institutions in India. Dr. M. K. Ramachandran Nair, Honorable Vice Chancellor of the University of Kerala inaugurated the Conference. Bhatnagar awardee Dr. Goerge Thomas [RRL, Thiruvananthapuram] delivered the keynote address. Dr. P. A. Joy, [NCL, Pune], Prof. K. P. Vijayakumar [Cochin University of Science & Technology, Kochi], Dr. N. V. Unnikrishnan [Mahatma Gandhi University], Dr. George Varghese [St. Berchmans College, Changanacherry] and Dr. Jacob Thomas, IAS [Petronet LNG] delivered invited talks. A total of 81 research papers under six subject areas comprising of Nanotechnology, Glasses & Ceramics, Crystal Growth & Characterization, Magnetic Materials, Optical Properties of Thin Films, Conductivity Studies on Thin Films, Polymers, Non-linear Dynamics, Renewable Energy Sources and Student Projects were also presented in the conference. All the papers presented in the conference were compiled and published as proceedings which were supplied to all the participants at the venue.

Seminars Organized on Regional Level by Departments

The department of Zoology and Physics organized regional level seminars during the academic year. In addition to the students of this college, students of neighboring colleges also attended these seminars. Dr. K. Shyjumon who was a Physics Post Graduate

student of this college, now working as Post doctoral fellow at the synchronous facility laboratory Trieste, Italy, was the resource person for the seminar organized by the Department of Physics.

Sl. No	Department	Topic & Resource Person	Venue / date	Funding agency
1.	Zoology	<i>Pet animals and their diseases</i> Dr. Deepu Mathew [Veterinary Surgeon, Govt. Hospital, Chengannur]	College auditorium 28-9-2006	College Management
2.	Physics	<i>Nanotechnology- Prospects & Future</i> Dr. K. Shyjumon [Trieste, Italy]	College auditorium 22-8-2006	College management
3	Physics	<i>Introduction to Quantum Field Theory</i> Dr. K. Babu Joseph [Former Vice Chancellor, CUSAT, Cochin]	College auditorium 7-10-2006	College management

Lecture programs organized during 2006-07

Sl. No	Department	Topic & Resource Person	Venue / date	Funding agency
1.	English	New Trends in Teaching Dr. K. K. John [Principal Titus II Teachers Training College]	College Auditorium 19-9-2006	English Association

Student Seminars

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

9. Research projects.

Newly Implemented:

Sl. No	Title of project	Funding agency & Amount Allocated	Department & Period of Project	Name of PI and Co-PI
1.	Synthesis of ultra-fine Magnetic Particles for Application in High Frequency Magnetic Cores and Magnetic thin Film Sensors	KSCSTE Kerala Rs. 4,49,000	Physics 2006-09	Dr. Vinoy Thomas Mr. Hysen Thomas
2	Rhythmic precipitation patterns in diffusion controlled systems	UGC Rs. 65,000	Physics 2006-08	Dr. Jacob George
3	Fabrication of magneto- impedance based sensors	UGC Rs. 80,000	Physics 2006-08	Mr. Hysen Thomas Dr. Jacob George

Completed:

Sl. No	Title of project	Funding agency & Amount Allocated	Department & Period of Project	Name of PI and Co-PI
1.	Globalization and Impact on Agriculture: A Case Study of Kerala Economy	UGC Rs. 25,000	Economics 2004-06	Dr. Manju S. Nair

10. Patents generated if any:

NIL

11. New collaborative research program:

The Department of Physics recently got 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 of the Department of Physics of Cochin University of Science and Technology, Kochi. The Department also has collaborative research agreements with St Berchmans College, Changanacherry in the filed of Pattern formation and crystal growth. 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.

12. Research grants received from various agencies.

Sl. No	Funding agency & Amount Allocated	Name of PI and Co-PI	Department
1.	KSCSTE, Kerala Rs. 3,94,350	Dr. Vinoy Thomas Mr. Hysen Thomas	Physics
2	UGC Rs. 52,500	Dr. Jacob George	Physics
3	UGC Rs. 67,500	Mr. Hysen Thomas Dr. Jacob George	Physics

13. Details of research scholars

Smt. Achamma Alex [English] and Smt. Sophia K Philip [Chemistry] are doing research under UGC FIP scheme of UGC. Sri. Jacob George [Department of Physics] who has availed the UGC FIP scheme has completed and submitted his thesis and subsequently awarded PhD. Sri. Ajith Verghese George [Chemistry], Mr. Hysen Thomas [Physics], Sri. A. Abraham [Physics], Jisha John [Economics] and Mr. John George Athyal [English] are doing part time research at various universities in Kerala. Many research scholars from St Berchmans College, Changanacherry, Mar Thoma College, Tiruvalla and Mahatma Gandhi University has utilized many research facilities available in the Department of Physics.

14. Citation index of faculty members and impact factor

Publication of faculty members in peer reviewed Journals during 2006-07

- Gijo Jose, **Vinoy Thomas**, Amrutha K A., N. V. Unnikrishnan, M. A. Ittyachen Structural and Optical characterization of Eu³⁺/ CdSe nanocrystal containing silica glass, *Mater. Chem. Physics* 96 (2006) 381
- Hysen Thomas**, Deepa K. S. Raju V R, P. A. Joy, M. R. Anantharaman, Effect of thermal annealing on Fe₄₀Ni₃₈B₁₈Mo₄ thin: modified Herzer model for magnetic evolution, *J. Phys. D: Appl. Phys.* **39** (2006) 1993–2000
- Van Dyke N, **Johnson Baby** and Van Dyke MW (2006). Stm1p, a ribosome-associated protein, is important for protein synthesis in *Saccharomyces cerevisiae* under nutritional stress conditions. *Journal of Molecular Biology* May 12: 358(4):1023-31

Publication of faculty members in Conference Proceedings during 2006-07

1. **Hysen Thomas** & M. R. Anantharaman, Magnetic Evolution of Fe₄₀Ni₃₈B₁₈Mo₄ Ribbons & Thin Films With Thermal Annealing, Indo Singapore Simposium on Advanced Functional Materials [AFMS 06], IIT Mumbai on 24-26 February 2006
2. **Hysen Thomas**, M. R. Anantharaman, Magnetic Evolution Of Ultra-Thin Nanostructural Fe₄₀Ni₃₈B₁₈Mo₄ Films With Thermal Annealing, 19th Kerala Science Congress to be held on January 29-31, 2007

15. Honours/Awards to the faculty

Sri. A. Abraham of the Department of Physics has received the best research paper award of the National conference on Atmospheric Sciences at Sreekandapuram, Kannur, Kerala held from March 15-16, 2007.

16. Internal resources generated

The general policy of the college is to offer quality of education at affordable rates even to economically backward students. We always try to minimize the financial burden to the students. The day to day expense 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.

No	Source	Amount
1	Parent Teacher Association	14,73,196.00
2	Alumni	50,000.00
3	Well wishers	37,324.00
4	Management	12,85,134.00
Total		28,45,654.00

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

The department of Physics has applied for financial assistance from DST, New Delhi worth 42 lakhs under the FIST Scheme.

18. Community services.

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

- i. Activities of NSS
- ii. Services offered by individual teachers
- iii. Programmes organized by Departments.

Activities of NSS

The college has an active NSS unit which organizes programmes on a regular basis. An important service rendered by this body is the organization of a group of volunteers for blood donation. The vicinity of the Government hospital makes this effort truly meaningful and effective. This year 37 patients in the hospitals in and around chengannur have utilized this service.

A legal awareness class for undergraduate students, onam celebrations, orientation class for NSS volunteers, Chikkun Guniya awareness campaign, cleaning of college and premises, cleaning of Pandavanpara Harijan colony during Gandhi Jayanthi celebration, seminar on Health and Youth and special ten day camp during Christmas vacation were some of the programs conducted by the NSS unit during this period.

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. He is also the Convener of the Higher Education Commission of Mar Thoma Church which is running ten colleges in Kerala. Sri Thomas Mathew, Head of the Department of History has served as the NSS Program Coordinator of the University of Kerala. During his tenure he visited almost all the colleges in the University and conducted awareness classes/camps/seminars etc. His leadership and services in the

Tsunami affected areas of Kerala coast are remarkable. 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 Mar Thoma Church. He is also an executive 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 and the Lay Trustee of the Malankara Mar Thoma Syrian Church. 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 are 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. The Department of Botany conducted a course on mushroom cultivation to the general public and has cultivated mushrooms in the college campus. Mathematics Department has conducted an outreach programme for the Higher Secondary students of the nearby schools to expose them to basics of Mathematics.

19. Teachers and officers newly recruited

Even though there are existing vacancies in various departments and office, due to ban for new appointments in Aided Colleges by the Government of Kerala, no appointment was made during the reported year. The shortage of teaching staff was mitigated by appointing guest lecturers

20. Teaching and non teaching staff ratio.

The college has faculty strength of 55 Lecturers. There are 48 permanent lecturers [English - 7, Economics- 7, History-3, Politics -1, Mathematics - 3, Physics - 9, Chemistry - 7, Botany - 4, Zoology - 4, Malayalam-1, Hindi-1, Phy. Education-1] and 7 guest lectures. The total number of non-teaching staff members is 48. The Teaching to Non-teaching staff ratio is 1.46.

21. Improvement in library services.

The central library has 25067 books, 45 periodicals and their back volumes. The library houses the department books in separate catalogue sessions and few research journals.

Digitalization of library functioning is already underway and is expected to be complete during 2007-08. Attention was given for improving the quality of library services. Students are encouraged to use the library facility. The library committee was convened each month and monitored the effective functioning of the library. Digitalization of records, online centralized search facilities and subscription to inflibnet are the next challenges that are to be addressed by the College.

22. New books / journals subscribed and their value.

In addition to the existing stock of books 246 new books were purchased and added to the library during this period. The college received UGC grant of Rs 19,449/- during this period for the purchase of books. Books of different subjects were purchased as per the decision of the planning board.

List of Journals subscribed and their value.

1. National Geographic (Rs. 2375)
2. Information Technology (Rs. 420)
3. Pramana (Rs. 500)
4. Resonance (Rs. 400)
5. Electronics for You (Rs 500)
6. Current Science (Rs. 750)
7. Indian Journal of Agricultural Economics (Rs. 3000)
8. Down to Earth (Rs. 480)
9. Sajosps (Rs 250)

23. Courses in which student assessment of teachers were introduced and the action taken on student feed back

The college is following a system of general feedback collected through printed questioners. The data was consolidated and was used for formulating future plans and making changes in existing practices. The data was made available to all the faculty members and suitable measures for improvements were suggested.

24. Unit cost of education is Rupees

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

	Class	Amount (Rs)
Under Graduate	I st Year Chemistry/Physics	2,340
	I st Year Botany/Zoology	2,440
	I st Year Mathematics	2,160
	I st Year History/ Economics/English	2,060
	II nd Year Chemistry/Physics	1,345
	II nd Year Botany/Zoology	1,445
	II nd Year Mathematics	1,165
	II nd Year History/ Economics/English	1,065
	III rd Year Chemistry/Physics	1,255
	III rd Year Botany/Zoology	1,255
	III rd Year Mathematics	1,075
	III rd Year History/ Economics/English	1,075
Post Graduate	I st Year Analytical Chemistry/Physics	3,490
	I st Year Economics/English	2,590
	II nd Year Analytical Chemistry/Physics	2,430
	II nd Year Economics/English	1,530

UG students hailing from families having income less than 25,000/- per year and PG students having income less than 50,000/- per year are 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 [Including Government and management share] works out to be 31,813/-

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. Only internal examinations are conducted by the college and the marks for continuous assessment are forwarded to the university. This process is computerized. The final examinations are conducted by the University and the results are published by the University. The mark lists and certificates are 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. A modern college canteen building with all facilities was constructed during the academic year with an approximate expenditure of Rs. 10 lakhs and the canteen was shifted from the old building to the new one.
2. The compound wall construction is in progress. In the financial year, the expenditure incurred for this purpose amounts to Rs. 4, 46,674/- .
3. The UGC has sanctioned an amount Rs. 64 lakhs for the construction of the women's hostel and the construction work will be started soon.
4. A research laboratory for the Department of Physics was furnished with an expenditure Rs. 1 lakh.
5. Infrastructure for a muti gymnasium was created.
6. Road towards the college from the Junction was keeled with an expenditure of Rs. 1,24,368/-
7. A superstructure of aluminum is erected on top of the administrative building to prevent leakage of water to office interiors. The expenditure incurred for the same is Rs. 2,58,733/-

27. Technology up gradation.

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. More and more teachers are using computer for lesson plan and for preparing 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.

A new training programme was introduced to give training in the use of computer and internet. The computer centre has two types of courses viz., a course to provide basic information regarding the use of computer and another intended to provide advanced level learning to those who have basic knowledge in computer programming and usage.

29. Financial aid to students

Parent Teacher Association

Financial assistance for weaker section in the form of scholarships is provided by the PTA of the college. Meritorious students and rank holders were awarded with scholarships.

Alumni Association

Merit scholarships were provided by the Alumni association for outstanding students in each subject in the Undergraduate and Postgraduate courses.

Endowment and Scholarships by Management

Fourteen 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.

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 college alumni are 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, Saudi Arabia, Trivandrum. The alumni association supports various activities in the college. The Kuwait chapter donated Rs. 30,000 for the rewiring of the college auditorium. They have also provided Rs. 20000/- as sponsorship for the National Conference organized by the Department of Physics as sponsorship.

31. Activities and support from PTA

The PTA of our college is a democratically constituted body. 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.9,15,831/- and handed over to college management as per need

32. Health services.

The health care of the students is closely monitored and the college administration takes all necessary steps to provide clean water, bathroom and toilet facilities etc to the students. In order to provide hygienic drinking water, water purifiers were provided in all floors of the main building. In association with nearby hospitals several health awareness programmes were organized in the reported year. The students are using the multi gymnasium regularly. A fully furnished restroom is provided for the girl students. The college has arranged councilors for the providing adequate guidance and counseling for needy students.

33. Performance in sports activities.

The college has been taking keen interest in the sports and games activities. The students are encouraged to take part in various sports activities. The college has teams for Football, cricket, kabadi, table tennis, cross country and athletics. The Physical education department successfully hosted the Kerala University inter collegiate football tournament in the college. Baiju B Daniel [Economics] of this college gained third place in cross country race in Kerala University cross country championship and represented the University of Kerala in the inter University.

In collaboration with the Cricket Academy of Chengannur, the college is providing facilities and training in cricket to children of nearby schools. On Saturdays and Sundays, children of varying age groups, 8-16 years, assemble in the college cricket field for training and practicing. They are actively participating in district championships and many of them were selected to Alappuzha district teams and to state teams of various age categories.

34. Incentive to outstanding sports students.

Sports day celebrations were conducted in which outstanding sports persons were honored. Mr. Baiju B. Daniel was presented a cash award of Rs. 1000/- for securing third place in the University cross country championship. Financial help was given to sports and athletic students coming from BPL families.

35. Student achievements and awards

Ms. Jisha John secured first rank in M.Sc. Physics examination with record marks [89.4%], Ms. Smitha L. P. secured third rank in M.Sc. Analytical Chemistry examination and Ms. Elsa Susan Zachariah secured fifth rank in M.Sc. Physics examination of the Kerala University.

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 March-April 2006 is detailed below:

Subject	Total Appeared	First Class	Second Class	Third Class	Total Passed	Percentage of pass
Mathematics	20	17	3	-	20	100 %
Physics	17	8	4	3	15	82.2 %
Chemistry	20	10	6	1	17	85.0 %
Botany	34	7	15	8	30	88.2 %
Zoology	31	12	11	7	30	96.3 %

Compared to the results of science courses 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 March-April 2006 is as follows:

Subject	Percentage of Pass
English	43.33 %
History	29.00 %
Economics	57.89 %

For Postgraduate courses, the University Examination results are commendable. All postgraduate departments scored 100 % pass.

Subject	Percentage of Pass
Physics	100 %
Analytical Chemistry	100 %
English	100 %
Economics	100 %

36. Activities of the guidance and counseling unit.

The college provides guidance and counseling services 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.

37. Placement services provided to students.

A career guidance and placement cell functioned in the college under 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.

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. Thirty five students from various discipline attended the campus

recruitment drive conducted in CMS College, Kottayam. Five students got campus placements in various firms in India during the reported year.

38. Development programmes for non teaching staff

The computer lab has been providing free training in computer basics to non teaching staff. Four of the office staff members are now well versed in computer operations.

39. Healthy practices of the institution.

- Special consideration to economically weaker candidates during admission. Five percent of the seats are reserved for them.
- The college gives thrust to research. Active research is going on in all post graduated departments. All the infrastructural facilities are provided free by the management. The college welcomes students from nearby colleges for project work.
- Innovation in curriculum: Even though the curriculum provided by the University is rigid, we incorporate our innovations in its transaction. Our innovative practices include
 - ❖ A general shift from teacher centered teaching to student centered teaching.
 - ❖ Computer aided teaching
 - ❖ Remedial and enrichment classes.
 - ❖ Interdisciplinary and multi disciplinary teaching.
 - ❖ Lectures on topics like preparation for competitive examinations, how to face interviews.
 - ❖ Parent – teacher – student interactive sessions.
 - ❖ Class wise PTA meetings
 - ❖ Seminars by eminent persons
- Daily meditation and Prayer in the chapel for interested students.
- Counseling sessions for needy students

We strive to provide opportunities for not only intellectual development of our students but also to acquire sound skills like team work and leadership, social commitment and service orientation through the activities of NSS, NCC and voluntary groups.

40. Linkages developed with National, International, Academic, Research bodies

The Department of Physics 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, SPAP, Mahatma Gandhi University, Kottayam
3. Magnetics Lab, Cochin University of Science & Technology, Kochi
4. St. Thomas College, Kozhencherry
5. Mar Thoma College, Tiruvalla
6. Istvan Lagzi, Department of Physical Chemistry, Eotovos University, Budapest, Hungary
7. Quality Assurance Laboratory, Kollam

41. Any other relevant information's 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, students of this college will be there among the roll of honour of the University bagging ranks. To keep par with the motto of the institution the faculty members are striving hard to achieve perfection and excellence in the field of education and research.

Part C

Detail the plans of the institution for the next year

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

- ◆ Construction of women's hostel.
- ◆ National and Regional level seminars
- ◆ Seminars and lectures by career guidance and placement cell.
- ◆ 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 campus.
- ◆ Renovate the College Auditorium.
- ◆ Rewire of the College main building and departments.
- ◆ Initiate steps to appoint regular teachers in place of guest lectures and vacant posts of non teaching staff.
- ◆ Completion of compound wall.

*Name and Signature
of the
Co-ordinator of IQAC*

*Name and Signature
of the
Chair Person of IQAC*