

# CHRISTIAN COLLEGE, CHENGANNUR

[ACCREDITED WITH B+ BY NAAC]

## ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC FOR THE YEAR 2009-2010

### Introduction

Christian College, Chengannur is one of the 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 centre 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 College was active in various academic, research and extracurricular activities during the academic year 2009-2010. Several seminars, lectures, workshops and conferences were conducted during the report year. This year ten young faculty members joined college giving an extra tinge of youthful vigor to the college community. The research activity in the college is also got resurgence in light of the FIST grant received by the Department of Physics from Ministry of Science and Technology, Government of India. At present, members of the faculty from 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 programmes during last year. The NCC and NSS conducted various social activities reaching to the lower strata of the society.

**PART A****PLAN OF ACTION FOR THE YEAR 2009 -2010**

Christian College, Chengannur has been accredited with B+ grade by the National Assessment and Accreditation Council (NAAC) in the year 2005. 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 2009-2010 in light of the long term and short term plan formulated. The IQAC committee 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 committee. 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 constitution of the IQAC is detailed below:

**Members of IQAC**

Dr. Jacob George	:	Principal & Chairman
Dr. Ajith Verghese George	:	Coordinator
Sri. Hysen Thomas	:	Joint Coordinator
Sri. Mathew Varghese	:	Department of Economics
Dr. Achamma Alex	:	Department of English
Sri. Lalu Varghese	:	Department of Economics
Sri. K. M. Abraham	:	Head, Department of History
Dr. Rajan David	:	Department of Hindi
Dr. Desy P. Koruth	:	Department of Chemistry
Sri. Alex T. George	:	Office Superintendent
Sri. Joji Cherian	:	Management Representative
Prof. M. K. Thomas	:	Management Representative
Dr. Johnson Baby	:	Department of Zoology (Special Invitee)

The plan evolved by the committee for the academic, co-curricular and research activities or the year 2009-2010 is listed below:

- 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.
- To continue with the initiatives towards converting the College campus to an eco friendly one.

Based on these plans various activities and programmes were conducted in 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 identified their strength and weakness and 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 quality. The faculty members and nonteaching staff were offering voluntary services in guidance, counseling and placement, community services, social activities and related matters. The attendance of the students is constantly monitored and follow-up meeting with parents were organized in the case of students with lower attendance. The internal examination marks were also intimated to the parents.
- The sustained encouragement and guidance of IQAC has also resulted in the increased participation of students in extracurricular activities like debate, quiz, sports, elocutions, community development programmes organized by the college.
- The students were encouraged to use the Library facilities. The Best reader award for students was distributed. The Library advisory committee members frequently visited the library and monitored the functioning of the library. The teaching and non teaching faculties were also encouraged to use the facilities available in the library.
- The Sports and Games received rejuvenation this year by conducting the Annual Sports meet. All the students were put into 4 separate houses and different games and sports events were organized on house basis. A large number of students actively participated in the annual sports meet.
- Regular teachers were appointed in place of guest lectures and vacant posts of non teaching staff were also filled up.

- 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. Fifteen faculty members received minor research project from the University Grants Commission. The participation of Teachers in National / International conferences also increased as a result of the continuous effort of the IQAC.
- Dr. Ajith Verghese George, Department of Chemistry is serving as the President of academy of Chemistry teachers in Kerala.
- National and Regional seminars were conducted successfully and proceedings were published. Five teachers participated and presented papers in National/ International conferences.
- The Department of Physics was sanctioned Rs. 24 lakhs as financial assistance from the Ministry of Science and Technology, Government of India for upgrading the Post Graduate teaching and research facilities. This is a commendable achievement of the Department of Physics. During 2008-2009, the department received Rs. 18 lakhs as first allocation. This year second installment amounting Rs.1.5 lakhs was also received. Using the grant the department procured UV-Vis-NIR Spectrometer, LCR Meter, setup for laser optical experiments, High Precision Michelson interferometer facilities. Rs 2 lakhs was used for purchase of books on advanced physics and 4 lakhs for a full-fledged computer lab with networking facilities.
- In consonance with the increased job opportunities available in the private sector and the severe competition among 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 10 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.

- The construction of the Women's Hostel using the financial assistance received from University Grants Commission was completed on 19 January 2010.
- Men's hostel started during June 2009 has an intake capacity of 20. Many teaching and non teaching members as well as students are using this facility.
- The students are motivated to keep the campus eco-friendly. Seminars were organized related to these topics. This has reflected in the general cleanness of the campus, reduction in the quantity of plastic waste in the campus and planting of trees in the college campus.

## **PART B**

### **1. Activities Reflecting the Goals and Objectives of the Institution**

All the activities of the college are 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 Chengannur area which is surrounded by a population, the majority of which is poor.

Some of the policies/objectives followed by the institution:

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

### **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.

The college offers eight undergraduate courses (Mathematics, Physics, Chemistry, Zoology, Botany, Economics, History and English) and four postgraduate courses (Physics, Analytical Chemistry, Economics and English). Various add-on certificate courses in computer science are also offered by the computer division of the college.

Certificate courses on Office Automation, Internet and Numerical Applications, Soil and Water analysis were conducted by the computer division and Chemistry Department of the College for UG and PG students

### **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. Mathew Varghese, Dr. Ajith Verghese George, Dr. Rajan David, Sri. Thomas P. Thomas and Sri. E. Daniel 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. Many students and faculty members from nearby colleges also utilize these instruments for sample preparations.

### **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/SET etc.**

Post graduate students are advised to appear for NET, GATE, SET examinations. Six students have qualified the State Eligibility Test [SET] conducted by the Government of Kerala and one qualified NET conducted by CSIR-UGC.

#### **7. Initiative Towards Faculty Development Programme**

Two faculty members of the college were granted FDP scheme of the University Grants Commission during the XI plan. Sri. A. Abraham [Physics] and Smt. Jisha John [Economics] continuing their research utilizing the FDP scheme. Sri. Hysen Thomas [Physics] and Sri. John George Athyal [English] are doing part time research. Mrs. Annies Joseph, Department of Zoology was awarded Ph.D. in Zoology for the thesis entitled “Haematological responses of *Penaeus Monodonto* environmental alterations and pathogenic invasion” from the Cochin University of Science and Technology in September 2009 and Mrs. Achamma Alex, Department of English was awarded Ph.D. in English for the thesis entitled “An Endless War against the Hierarchy of Power; the Works of Timothy Fidley” from the University of Kerala in December 2009.

#### **8. Total Number of Seminars/ workshops conducted.**

##### ***a. Seminars organized on state level by departments and college.***

1. A seminar on the “Recent Trends in NAAC Reaccreditation Process”, was organized by the IQAC on 7<sup>th</sup> October 2009 in the college, Prof. Alexander K. Samuel, Principal, St. Thomas College, Kozhencherry led the seminar.



2. Department of Economics organized a seminar entitled “Input of ASEAN agreement on India Economy” on 24<sup>th</sup> September 2009, Dr. Varghese George, Mar Thoma College, Tiruvalla was the resource person.
3. A lecture on “Bioremediation” was organized on 9<sup>th</sup> October 2009 by the Department of Botany, Prof. Thomas Mathew, Mar Thoma College, Tiruvalla presented the paper.
4. A one day workshop on “Vegetative Propagation, Tissue Culture and Mushroom Cultivation” was organized for the final year Botany students at Krishi Vijnan Kendra Thelliyoor on 20<sup>th</sup> October 2009.
5. A one day seminar was organized by the Department of Mathematics on 19<sup>th</sup> August 2009 on “Game and Puzzles in Graph Theory”, Dr. Aparna Lakshmanan, St. Xaviers, College Aluva presented the paper.
6. Department of Physics organized a seminar on “Alternative Energy Resources” on 8<sup>th</sup> October, 2009 in connection with the inauguration of the Physics association. Dr. K. P. Vijayakumar, Cochin University of Science and Technology presented the paper.
7. A seminar on “Computational Chemistry” was organized by the Department of Chemistry on 20<sup>th</sup> October 2009, Dr. Abraham George, Mar Ivanios College, Trivandrum led the seminar.
8. A one day seminar on “Scope of English in the Modern Context” was conducted on 25<sup>th</sup> August 2009 by the Department of English. Dr. Krishnakumar, MSM College, Kayamkulam delivered the talk.
9. A workshop was organized by the Department of History on “Career opportunities in History” on 9<sup>th</sup> October 2009. Dr. P. S. Pradeep, Catholicate College, Pathanamthitta was the main speaker.
10. A seminar on “Grading and Restructuring under Graduate Education” for the teachers of our college and three other nearby colleges was organized by the college on 3<sup>rd</sup> December, 2009 sponsored by the University of Kerala.

***b. Other programs organized during 2009-2010***

1. Rt. Rev. Joseph Mar Barnabas Episcopa celebrated Holy Communion Service at 8:30 am on the New Year Day 1<sup>st</sup> January 2010) at the college chapel. All the staff members and interested students participated.
2. Dr. D. C. Chandra Bose, Principal, S. N. College, Chengannur distributed the Suvarna Jubilee Scholarship worth Rs. 10,000/- each to 9 students of the college on 26<sup>th</sup> August 2009.
3. Intercollegiate paper presentation on the topic “Development and Environment Trade Off” and Quiz competitions were conducted by the Department of Economics on 24<sup>th</sup> February 2010. Cash awards were distributed to the winners.
4. Christmas Carol service was held on 8<sup>th</sup> December 2009 under the leadership of college choir. The Most Rev. Kuriakose Mar Gregorious Metropolitan of the Knanaya Church gave the Christmas Message. Final year B. A. English students secured first place in the Carol singing competition held in connection with the Christmas carol.
5. The activities of the Women’s cell was inaugurated by Smt. Mini Antony IAS, District Collector, Kottayam on 30<sup>th</sup> October 2009
6. The Tourism club and Nature club conducted a nature study camp from 2<sup>nd</sup> to 4<sup>th</sup> October 2009 at Thattekkad National Bird Sanctuary. 25 students and 3 faculty members participated in the nature study camp. The forest department of the Government of Kerala sponsored the camp.
7. A medical camp was organized by the IQAC and National Service Scheme of the college on 23<sup>rd</sup> December 2009 at SNDP UP School, Areekkara. A medical team of St. Thomas Mission Hospital, Kattanam led the camp.
8. A debate was arranged by the Women’s Cell on 3<sup>rd</sup> February, 2010 on the subject “Reality Shows and Kerala Society”
9. The Zoology Association organized a quiz competition on wild life environment and general knowledge on 6<sup>th</sup> October, 22009. Twelve teams participated in that event.

10. A Quiz programme on “Kerala History, Culture and Current Affairs” was organized by History Department on 3<sup>rd</sup> November, 2009. Twenty teams participated in the quiz programme.
11. Final year B. A. English students published a manuscript magazine viz., ‘Profiles’.
12. A campus cleaning programme was conducted in connection with Gandhi Jayanthi. All the students and staff members participated with enthusiasm.
13. Principal and 20 non teaching staff members of the college attended the one day seminar organized by the Higher Education Commission of the Mar Thoma Church on 3<sup>rd</sup> October 2009 at Titus II Teacher’s Training College, Tiruvalla.
14. All the students and staff members were given three 100 mg tablets of DEC and one 400 mg tablet of Albendazole each on 11<sup>th</sup> November 2009 in connection with National Filariasis Eradication Programme by the Health Department. Dr. Sasikumar Pillai gave an awareness class on the programme on 3<sup>rd</sup> November 2009 for the students and staff members.
15. Ten teachers participated in the workshop of Senior Teachers held at Santhigiri, Alwaye organized by the Higher Education commission of Marthoma Church on 24-25 April 2009.
16. Dr. Jacob George (Principal), Dr. Ajith Verghese George (Convener, IQAC) and Prof. Mathew Varghese (Governing Council member) joined the Higher Education Commission team headed by His Grace Dr. Zacharias Mar Theophilus Suffragan Metropolitan for the visit to different colleges and Universities during 23.11.2009 to 29.11.2009 at New Delhi and Chandigarh.
17. The Women’s cell organized the *Kalalayajyothi* programmed of the Kerala Vanitha Commission on 19<sup>th</sup> November 2009. The programme was inaugurated by justice. D. Sreedevi, Chairperson, Kerala Vanitha Commission.

***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. Students are using ICT technology for taking classes.

**9. Research projects.**

List of UGC Projects completed:

<b>Sl. No</b>	<b>Title of project</b>	<b>Funding agency &amp; Amount Allocated</b>	<b>Department &amp; Period of Project</b>	<b>Name of PI and Co-PI</b>
1.	Synthesis of Ultra fine Magnetic particles for application in high frequency magnetic cores and magnetic thin film sensors	KSCSTE Rs. 4,49,350 /-	Physics 2007-2009	Dr. Vinoy Thomas & Sri. Hysen Thomas
2.	'Pattern Formation in reaction diffusion systems'	UGC Rs. 60,000/-	Physics 2007-2009	Dr. Jacob George, Principal
3.	Fabrication of Magneto-Impedance Based Sensors	UGC Rs.80,000/-	Physics 2007-2010	Sri. Hysen Thomas

Ongoing projects are:

Sl. No	Title of project	Funding agency & Amount Allocated	Department & Period of Project	Name of PI and Co-PI
1.	Thermal Studies of Metal Complexes based on cross linked polymer supported legends and their Application in Certain Organic Reactions'	UGC Rs. 50,000/-	Chemistry 2008-2010	Dr. Desy P. Koruthu,
2.	Study on Differential Algebraic Equations	U.G.C. Rs. 40,000/-	Mathematics 2008-2010	Mrs. Mariamma Varghese
3.	Conventional to ICT Based Libraries''	UGC Rs. 50,000/-	Library 2008-2010	Mr. Nidhi Alex M. Ninan
4.	Studies on Nutritional Requirement and Improvement of Techniques on Commercial Cultivation of Oyster Mushrooms (Pleurotus SPP)	UGC Rs. 95,000/-	Botany 2008-2010	Mr. Thomas Alex
5.	The Social and Economic Implications of Alternative Dispute Resolution (ADR) System: A Case Study of Cheriyanad Grama Panchayath	UGC Rs. 75,000/-	Economics 2008-2010	Mr. Lalu Varghese
6.	Treatment of Political Prisoners in the Princely state of Cochin during 1935- 1941	UGC Rs. 70,000/-	History 2008-2010	Mr. K. M. Abraham
7.	Struss Responses in the Teleost, Anavas Testudineus (Bloch) Exposed to Endocrine Distruptors	UGC Rs. 1,10,000/-	Zoology 2008-2010	Dr. Johnson Baby
8.	Spatio-Temporal Resolution of Geomagnetic and Interplanetary Field Compodence	UGC Rs. 1,26,000/-	Physics 2008-2010	Dr. Ligi Cherian
9.	Preperation, Characterisation and realization of Bismath Based Optical Devises	UGC Rs. 55,000/-	Physics 2008-2010	Dr. Vinoy Thomas
10.	The Effects of Guided Systamatic Aerobic Dance Programme on the Self Esteem of Female College Students	UGC Rs. 70,000/-	Physical Education 2008-2010	Mrs. Ruby Mathew

11.	Attempting Environmental Justice – the Literature and Language of Sustainable Living	UGC Rs. 50,000/-	English 2008-2010	Mrs. Shalini Rachel Varghese
12.	Effectiveness of Models of Teaching and Lecture Method in teaching English at the Higher Secondary Level)	UGC Rs. 1,05,000/-	English 2008-2010	Mr. John George Athyal
13.	Trends in Russians Foreign Policy and Strategic Relation with India and China	UGC Rs. 45,000/-	Political Science 2008-2010	Dr. Biju Thomas
14.	Modulatory Effect of Ambient Minerals on the Anti Oxidative Defense Responses in Shrimps	UGC Rs. 1,80,000/-	Zoology 2008-2010	Mrs. Annies Joseph
15.	Taxonomy and Diversity of Gastropods (Mollusca: Gastropoda) of Kerala Coast	UGC Rs. 1,20,000/-	Zoology 2008-2010	Mrs. Preetha Karnaver
16.	Analysis of Certain Priority Queuing Systems	UGC Rs. 75,000/-	Mathematics 2008-2010	Ms. Tresa Mary Chacko

**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 Berchman's College, Changanacherry in the field 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 and MSM College, Kayamkulam.

**12. Research Grants Received From Various Agencies.**

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 Rs. 4,49,350 /-	Physics 2007-2009	Dr. Vinoy Thomas & Sri. Hysen Thomas
2.	Pattern Formation in reaction diffusion systems	UGC Rs. 60,000/-	Physics 2007-2009	Dr. Jacob George
3.	Fabrication of Magneto-Impedance Based Sensors.	UGC Rs.80,000/-	Physics 2007-2009	Sri. Hysen Thomas
4.	Thermal Studies of Metal Complexes based on cross linked polymer supported legends and their Application in Certain Organic Reactions?	UGC Rs. 50,000/-	Chemistry 2008-2010	Dr. Desy P. Koruthu,
5.	Study on Differential Algebraic Equations.	U.G.C. Rs. 40,000/-	Mathematics 2008-2010	Mrs. Mariamma Varghese
6.	Conventional to ICT Based Libraries	UGC Rs. 50,000/-	Library 2008-2010	Mr. Nidhi Alex M. Ninan
7.	Studies on Nutritional Requirement and Improvement of Techniques on Commercial Cultivation of Oyster Mushrooms (Pleurotus SPP).	UGC Rs. 95,000/-	Botany 2010-2012	Mr. Thomas Alex
8.	The Social and Economic Implications of Alternative Dispute Resolution (ADR) System: A Case Study of Cheriyana Gramapanchayath.	UGC Rs. 75,000/-	Economics 2010-2012	Mr. Lalu Varghese
9.	Treatment of Political Prisoners in the Princely state of Cochin during 1935- 1941.	UGC Rs. 70,000/-	History 2010-2012	Mr. K. M. Abraham
10.	Stress Responses in the Teleost, Anabas Testudineus (Bloch) Exposed to Endocrine Distruptors.	UGC Rs. 1,10,000/-	Zoology 2010-2012	Dr. Johnson Baby

11.	Spatio-Temporal Resolution of Geomagnetic and Interplanetary Field Compodence.	UGC Rs. 1,26,000/-	Physics 2010-12	Dr. Ligi Cherian
12.	Preparation, Characterisation and realization of Bismuth Based Optical Devices.	UGC Rs. 55,000/-	Physics 2010-2012	Dr. Vinoy Thomas
13.	The Effects of Guided Systematic Aerobic Dance Programme on the Self Esteem of Female College Students	UGC Rs. 70,000/-	Physical Education 2010-2012	Mrs. Ruby Mathew
14.	Attempting Environmental Justice – the Literature and Language of Sustainable Living	UGC Rs. 50,000/-	English 2010-2012	Mrs. Shalini Rachel Varghese
15.	Effectiveness of Models of Teaching and Lecture Method in teaching English at the Higher Secondary Level	UGC Rs. 1,05,000/-	English 2010-2012	Mr. John George Athyal
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18.	Taxonomy and Diversity of Gastropods (Mollusca: Gastropoda) of Kerala Coast”	UGC Rs. 1,20,000/-	Zoology 2010-2012	Mrs. Preetha Karnaver
19.	Analysis of Certain Priority Queuing Systems	UGC Rs. 75,000/-	Mathematics 2010-2012	Ms. Tresa Mary Chacko

### 13. Details of Research Scholars and Research Activities

- Dr. Achamma Alex participated in the International Seminar and presented a paper on “Violence, the Unobtrusive Facet of Power: Reflections from Canadian and Indian Literatures” at National Museum of Ethnology in Osaka, Japan from 11 to 13 September 2009.
- Dr. Biju Thomas Department of Political Sciences has attended and presented a paper on “Central Eurasia: Geo political and Economic Perspectives” in the National



seminar Held at the Centre for Central Eurasian Studies, University of Mumbai on 10-11 February 2010.

- Mr. John George Athyal, Department of English presented a research paper on “Youth and Education” at Rajeev Gandhi National Institute of Youth Development, Sree Perumthoor during 17<sup>th</sup> to 18<sup>th</sup> September 2009.
- Sri. Biji Abraham attended and presented a paper at the National Workshop on “Environment Impact Assessment” during September 1 - 5, 2009 at Centre for Science and Environment, Thuglacabad, New Delhi.
- Dr. Sophia K. Philip participated and presented research paper entitled “An efficient and eco friendly synthesis of Guanidine” at the National Seminar held at N.S.S. College, Pandalam on 18<sup>th</sup> November 2009.
- Almost all teachers participated in the Workshops on Restructuring and Grading of Undergraduate courses organized by the Board of Studies of different faculties of University of Kerala.

### **Students Research Projects**

Dr. Desy P. Koruthu, Smt. Molic Thomas and Smt. Anna Kushy Jacob, faculties of the Department of Chemistry received student projects from Kerala State Council for Science Technology & Environment, Government of Kerala worth Rs.6500, 5500 and 3200 respectively. Dr Ligi Cherian, Lecturer, Selection grade lecturer also received student project from KSCSTE

## **14. Citation index of faculty members and impact factor**

### **Publication of faculty members in peer reviewed Journals**

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

**1. Dr. Ajith Verghese George (Chemistry)**

“Comparative study of trace metals in the Sediments of Reverse Manimala, Achencoil and Pampa in Pathanamthitta and Alappuzha Districts of Kerala. *Acta Ciencia Indica*, 2009, 25(2): 419-424.

**2. Dr. Rajan David (Hindi)**

“Indian Culture in the Historical Dramas of Jayasankar Prasad”, *Kerala Jayanthi*, January 2009”.

**3. Mrs. Molic Thomas (Chemistry)**

"Studies of Soil Fertility for enhancing crop intensity at Chengannur in Alappuzha, Kerala" *Acta Ciencia Indica*, 2009, 35 C(1), 25-28

**4. Dr. Abhilash R. (Zoology)**

a. “Thiodan Induced Hematological Alterations in a Fresh Water Fish *Oreochromis Mossambicus*” *Environment & Ecology* 2009, 27(4A) 1779 – 1782.

b. “Changes in Aminotransferase Activity Due to Thiodan Intoxication in *Oreochromis Mossambicus*” *Geobios*, 2009, 36, 53-56.

**5. Dr. Ligi Cherian and Mr. A. Abraham (Physics)**

“IMF- Geomagnetic field coupling and vertical variance index” *J. Geophys. Res* 2010, A01207, 115.

**6. Dr. Vinoy Thomas and Mr. Hysen Thomas (Physics)**

“Thermal and Structural Analysis of the Crystallization Dynamics of Metallic Glass –  $Fe_{40}Ni_{38}B_{18}Mo_4$ ” *J. Optoelectronics and Advanced Materials*, 2009, 11, 1994 – 1999

Effect of silver nanoparticles on the dielectric properties of holmium doped silica glass  
*Physica B* 405 (2010) 1513–1517

**7. Dr. R. Jayakrishnan (Physics)**

- a. “Dielectric Coatings: Agents for Passivation and Anti-reflection”, Photovoltaics International Journal, 2009, 6, 83-85.
- b. “Sub-micrometer thick CuInSe<sub>2</sub> Films for Solar cells Using Sequential Elemental Evaporation” Solar Energy, 2009, 83, 964-968
- c. “Characterization of Spray Pyrolysed CuInS<sub>2</sub> thin films” The open Surface Science Journal, 2009, 1, 1-6.

**15. Honours/Awards to the faculty**

**University and Government Responsibilities**

1. Prof. Mathew Varghese served as the Kerala University Senate member. He is also working as the resource person of the Kerala State Higher Education Council for restructuring under graduate education.
2. Prof. Lalu Varghese is a member of the Board of Studies (pass) of Economics. He was appointed as the Convener of the zonal vigilance squad for the examinations of the University of Kerala.
3. Prof. E. Daniel is a member of the Board of studies (pass) of Mathematics.
4. Prof. Thomas. P. Thomas was appointed as a member of the zonal vigilance squad for the examinations of the University of Kerala.
5. Dr. Ajith Verghese George is serving as the President of Academy of Chemistry Teachers in Kerala. Academy of Chemistry Teachers (ACT) is an academic body of Chemistry Teachers in Kerala involved in promoting research activities and chemistry teaching.

**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 minimise the financial burden of 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.

No	Source	Amount
1	Parent Teacher Association	2106040/-
2	Alumni	18000/-
3	Well wishers	254100/-
4	Management	212500/-
<b>TOTAL</b>		<b>2590640/-</b>

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

The Department of Physics was sanctioned 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. This year the Department received Rs. 18 lakhs as the first allocation. This year a second installment amounting to Rs. 1.5 lakhs was received. Using the grant the department procured UV/Vis/NIR Spectrophotometer, LCR Meter, full setup for laser optical experiments, High Precision Michelson interferometer facilities. Rs.1 lakh was used for the 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

1. Activities of NSS
2. Activities of NCC
3. Services offered by individual teachers
4. Programmes organized by Departments.
5. Activities of the College Union.

### **National Service Scheme & Red Ribbon Club**

Orientation class for the new National Service Scheme Volunteers was conducted on 15<sup>th</sup> August 2009. Prof. Thomas Mathew, Former University NSS Programme Coordinator was the resource person. A poster exhibition on Indian Freedom and Independence was also arranged on the same day. A poster competition was conducted on the preservation of environment on 10<sup>th</sup> August 2009. Onam was celebrated in a befitting manner. Athapukkalam and Onappattu competitions were held. The prizes were distributed to the winners.

NSS unit of the college organized a one-day legal awareness class for undergraduate students on 11<sup>th</sup> November 2009. Sri. S. H. Panchapakesan, Hon. Sub Judge, Chengannur inaugurated the seminar. Principal Dr. Jacob George presided over the function. Adv. C. N. Ammanchy led the classes on Domestic Laws, Marriage Laws Ragging and Cyber laws. The Ruby Jubilee Celebration of National Service Scheme was conducted on 20<sup>th</sup> November 2009. Prof. B. Sreekumar inaugurated the meeting and Sri. Brhmanayakam Mahadevan, Students trainer, University of Kerala was the recourse person.

Annual seven-day camp of NSS was held from Dec 18-24, 2009 at SNDP UP School, Areekkara. Sri. Saji Cherian, President, District Sports Council inaugurated the camp.

NSS and Red Ribbon club is keeping the directory of blood groups of all the students and staff members and they have been donating blood to various hospitals as and when need arises.

Sri John George Athyal and Sri. Biji Abraham served as the Programme officers.

### **National Cadet Corps**

The total strength of the NCC unit is 60. This year 18 cadets appeared for the B certificate examination and 2 appeared for the C certificate examination. Dr. Biju Thomas has undergone the precommission course at Officers Training Academy, Kamptee, Nagpur from 13<sup>th</sup> July 2009 to 10<sup>th</sup> October 2009 and took charge as NCC Officer. On the Republic Day, Rt. Rev. Dr. Zacharias Mar Theophilus Suffragan Metropolitan, Manager of the college

hoisted the national flag on Independence Day. An awareness programme on cancer and a lecture on climate change was conducted for the cadets.

### **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 also a management consultant. Sri. Thomas Alex, Head, 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. Dr. Jacob George, Principal is serving as the President of the Mallappally Service Co-operative Bank. He is active in various organizations of the Mar Thoma 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. Dr. Ajith Verghese George is serving as the President of the Academy of Chemistry Teachers (ACT) in Kerala.

### **Programmes Organized by Departments**

All the departments are conducting programmes including lecturers on personality development, leadership training and communication skills. 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. Chemistry department conducted a training programme in water analysis and soil analysis.

### **College Union**

College Union and Arts club inauguration was held on 3<sup>rd</sup> November 2009. Acharya Narendra Bhooshan renowned writer inaugurated the activities of the college union for the

academic year 2009-2010. Union Chairman Midhun Kumar presided over the function. The Arts club was inaugurated on the same day by Sri. William Issac, Idea Star Singer fame. Dr. Jacob George, Principal and Dr. Rajan David (Staff Advisor), Prof. Mathew Varghese, University Senate Member offered felicitations. Folk Songs of Harippad Arp followed the meeting. Arts Festival was conducted on 19<sup>th</sup> and 20<sup>th</sup> January 2009.

Our students presented a float on global warming at the Opening ceremony of the Kerala University Youth Festival held at Cherthala. Dr. Rajan David served as the Staff Advisor to the College Union and Arts Club. The 46<sup>th</sup> college day celebrations were conducted on 3<sup>rd</sup> March 2010. Noted cine producer & director Sri. Babu Thiruvalla was the chief guest.

#### **19. Teachers and officers newly recruited**

Dr. Abhilash R. (Zoology), Dr. R. Jayakrishnan (Physics), Dr. Rani Abraham (Chemistry), Mrs. Roshni Thomas (Chemistry), Mrs. Rekha Unni (Chemistry), Mrs. Thankam K. Abraham (English), Miss. Leena Liz Mathew (English), Mrs. Fancy D R (English), Mrs. Solomon Asha Joseph (English) and Mr. Basil Thomas (English) were appointed against regular vacancies during the academic year.

#### **20. Teaching and non teaching staff ratio.**

The college has faculty strength of 56 Lecturers. There are 48 permanent lecturers [English - 12, Economics- 8, History-3, Politics -1, Mathematics - 3, Physics - 9, Chemistry - 9, Botany - 4, Zoology - 4, Malayalam-1, Hindi-1, Phy. Education-1]. The total number of non-teaching staff members is 28. The Teaching to Non-teaching staff ratio is 2:1.

#### **21. Improvement in library services.**

The central library has 27500 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 2010-11. 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 973 new books were purchased and added to the library during this period. The college received UGC grant of Rs. 277640/- 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**

	<b>Class</b>	<b>Amount (Rs)</b>
<b>Under Graduate</b>	I <sup>st</sup> Year Chemistry/Physics	2,350
	I <sup>st</sup> Year Botany/Zoology	2,450
	I <sup>st</sup> Year Mathematics	2,170
	I <sup>st</sup> Year History/ Economics/English	2,070
	II <sup>nd</sup> Year Chemistry/Physics	1,355
	II <sup>nd</sup> Year Botany/Zoology	1,455
	II <sup>nd</sup> Year Mathematics	1,175
	II <sup>nd</sup> Year History/ Economics/English	1,075
	III <sup>rd</sup> Year Chemistry/Physics	1,265
	III <sup>rd</sup> Year Botany/Zoology	1,265
	III <sup>rd</sup> Year Mathematics	1,085
	III <sup>rd</sup> Year History/ Economics/English	1,085
	<b>Post Graduate</b>	I <sup>st</sup> Year Analytical Chemistry/Physics
I <sup>st</sup> Year Economics/English		2,600
II <sup>nd</sup> Year Analytical Chemistry/Physics		2,440
II <sup>nd</sup> 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 [Including Government and management share] works out to be

**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. The compound wall construction is completed.
2. The UGC has sanctioned an amount Rs. 64 lakhs for the construction of the women's hostel and the work is completed and consecration of the hostel building was held on 19<sup>th</sup> January 2010.

**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 association 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, Saudi Arabia, UAE, Trivandrum. The alumni association supports various activities in the college.

The Annual get together of the Alumni Association was held on 17<sup>th</sup> October 2009. The meet was inaugurated by Sri. Binoy Viswam, Hon'ble Minister for Forest & Housing. Sri. Issac Eapen Indian Information service, Kozhikode, Sri. Rajan Zachariah UAE chapter President and Dr. Esther Mathew, former students delivered the talks. Different competitions were conducted for the students by the Alumni Association on 15<sup>th</sup> October

2009 and prizes were distributed during the annual meeting. An address directory was also released. A good number of former teachers and students attended the function. Sri. P. R. Joy worked as the General Secretary of the Alumni Association.

Different chapters of the Alumni are functioning well. Kuwait chapter and UAE chapter has given an amount of Rs. 12000/- and Rs. 6000/- respectively for giving awards first year Degree and PG students.

### **31. Activities and support from PTA**

The parent teacher association has been always a source of support and inspiration for the college. Class wise PTA meetings organized played a vital role in setting the general discipline on the campus. Proficiency prizes were distributed to students who have secured highest marks in UG and PG classes at the annual general body meeting. Mr. K. Thomas Mammen is the P. T. A. President and Prof. M. K. Thomas and Dr. Ajith Verghese George are serving as the secretaries.

### **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. Dr. Kurivilla George, alumni of the college is available for the argent medical care of the students.

### **Hostel Facilities**

Women's Hostel is accommodating 28 students. Rev. Biju C.P. and Rev Jacob John led counseling classes on every first and third Thursdays of each month for the inmates. A special talk was arranged for the hostellers to enable them to face the challenges connected with hostel life and to help them to face their examinations. Mrs. Daisy Kurien, TMA

Counseling Institute, Amalagiri, Kottayam led the session. The consecration of the new women's hostel, constructed under the special scheme of the UGC, was held on 19<sup>th</sup> January 2010 by the Most Rev. Dr. Joseph Mar Thoma Metropolitan in the presence of Rt. Rev. Dr. Zacharias Mar Theophilus Suffragan Metropolitan. From next academic year onwards we will be able to accommodate 100 students in the Women's Hostel.

Men's hostel started during June 2009 with an intake capacity of 20 is now accommodating 8 students.

### **33. Performance in sports activities.**

Coaching camps were conducted for both Men and Women cricket players in association with Alappuzha District Cricket Association. College Women Cricket team participated in the Kerala University Inter Collegiate Tournament. Vidhya V. Varrier (2<sup>nd</sup> BA Economics) was selected to represent the University cricket team. Women cricket team members participated in the Alappuzha District cricket selection trials and our 8 girls were selected to represent the senior team and 5 were selected to represent the junior team. They participated in the state championship. Souparnika Santhosh (1<sup>st</sup> BSc Zoology) was selected to represent Kerala State in the junior nationals at Hyderabad. Men cricket team participated in the intercollegiate tournaments. V. K Vijesh and K. C. Shyam Kumar were selected to represent the north zone team. Our football team made a good performance in this year by reaching the semifinal round of the Kerala University intercollegiate tournaments. Men and women table tennis team also participated in the intercollegiate tournaments.

The college annual sports was held on 12<sup>th</sup> November 2009 on house basis. The flag was hoisted and the meet was opened by Sri. Raveendra Prasad, Dy.S.P., Chengannur. Green House secured the overall Championship. Anoop Susheel, II<sup>nd</sup> B.Sc. Physics and Rejani K. P., Final Year B.Sc. Zoology were the individual champions. Inter house football and cricket tournaments were also conducted. A friendly cricket match between staff members and yellow house, the winners of the inter house tournament was held on 23<sup>rd</sup> February 2010. The cap for the officials and teachers were sponsored by SERT IT campus. Smt. Ruby Mathew (Lecturer, Physical Education), Prof. Mathew Varghese (General Convener) and the

teachers who are in charge of the houses deserves appreciation for the pains they have taken for the smooth conduct of the annual athletic meet.

### 34. Incentive to outstanding sports students.

Sports day celebrations was conducted on November 10<sup>th</sup> 2009 in which outstanding sports persons were honored. Financial help was given to sports and athletic students coming from BPL families.

### 35. Student achievements and awards

1. Achu Anna Mathew, DC II English represented the college at the University Youth Festival and won second prize in English recitation
2. Navya Lis Charles, DC I English won the first prize and ever rolling trophy at the intercollegiate English elocution competition held at Mar Thoma College, Tiruvalla.

#### Results

The results of B. Sc/M. Sc. Degree examination of March-April 2009 is detailed below:

#### B. A./B. Sc. Results

Subject	Total Appeared	First class	Second class	Third class	Total passed	Percentage of pass
Mathematics	19	12	03	02	17	89.47%
Physics	21	12	04	01	17	80.95%
Chemistry	19	04	05	--	09	47.36%
Botany	15	07	02	03	12	80.00%
Zoology	22	12	03	01	16	72.72%
Economics	25	--	--	15	15	60.00%
History	22	--	--	09	09	40.90%
English	22	02	10	08	20	90.90%

**M.A./M.Sc. Results**


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Subject	Total Appeared	First class	Second class	Third class	Total passed	Percentage of pass
English	11	05	04	01	10	90.90%
Economics	05	--	02	03	05	100.00%
Physics	09	08	--	01	09	100.00%
Anal.Chem	11	06	--	03	09	81.81%

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**36. Activities of the guidance and counseling unit.**

Constant training and Counseling was given to students for appearing various competitive examinations and campus recruitment drives. A model aptitude test was conducted for the students and the best four were awarded with cash prizes of Rs.1000, Rs.500 and Rs.250. Various seminars on Career opportunities, personality development, facing the interview board etc. were conducted for the students in association with various agencies like NIIT and APTECH. Job opportunities and campus recruitment drives were advertised or displayed through proper notices and brochures. Prof. Mathew Varghese served as the Placement Officer.

**Counseling Unit**

Counseling unit was actively functioning during the current academic year. Counseling classes were arranged for the new comers. Rev. Abraham Zachariah led the sessions. Rev. C. P. Biju and Rev. Jacob John, who were in charge of the student's ministry, visited, inspired and motivated the students of the institution regularly. A Counseling class was also conducted on 30<sup>th</sup> October 2009 for the men students of the college. Dr. Desy P. Koruthu functioned as the coordinator.

### **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.

Constant training and Counseling is given to students for appearing various competitive examinations and campus recruitment drives. Various seminars on Career opportunities, personality development, facing the interview board etc. were conducted for the students in association with various agencies like NIIT, ICFAI, APTECH, DRONA, Incredible HR etc. Job opportunities and campus recruitment drives were advertised or displayed through proper notices and brochures. Prof. Mathew Varghese served as the Convener.

### **38. Development Programmes For Non-teaching Staff**

The computer lab has been providing free training in computer basics to non teaching staff. Six 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.
  - ICT 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.

### **Councils and Meetings**

The Governing Council of the college met several times during the year and gave necessary directions regarding general administration and development of the college. Staff Council met regularly to decide on matters relating to administration and academic progress. Teaching Staff meetings and non teaching staff meetings were also conducted regularly and staff members gave valuable suggestions for improving the academic atmosphere. A Staff retreat was conducted on 9<sup>th</sup> June 2009. Rev. Dr. Abraham Kuruvilla led the retreat.

### **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. Berchmans College, Changanacherry
2. Sol Gel Lab, SPAP, Mahatma Gandhi University, Kottayam
3. Magnetism Lab, Cochin University of Science & Technology, Kochi
4. Dept. of Physics. St. Thomas College, Kozhencherry
5. Dept. of Physics Mar Thoma College, Tiruvalla
6. Istvan Lagzi, Department of Physical Chemistry, Eotvos University, Hungary

The Department of Chemistry has collaborations with the following institutions.

- Reutgers University Newcastle USA,
- IISc Bangalore,
- Central University Hyderabad,
- NCL Pune,
- Mahatma Gandhi University Kottayam,
- University of Kerala Thiruvananthapuram
- Cochin University of Science and Technology Kochi
- 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:

- To conduct National and Regional level seminars
- To conduct 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.
- Planting of trees in the campus and their maintainance.
- Planting if medicinal plants in the Botanical garden.
- Electrical Rewiring of the College main building and departments.
- Providing parking facilities for staff & students.
- Construction of Seminar Hall.
- Intercom connecting all departments and office.
- Providing INFLIBNET facilities in the library.
- Appointment of regular staff in place of guest lecturers & vacant

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

*Name and Signature  
of the  
Chair Person of IQAC*