

**INTERNAL QUALITY ASSURANCE CELL  
UNIVERSITY COLLEGE  
TRIVANDRUM**

**ANNUAL QUALITY ASSESSMENT REPORT (AQAR) -2008-09**

**TRIVANDRUM  
MARCH 2009**

## **PART A**

The IQAC meeting held on in the Principal's chamber decided to implement with immediate effect the following quality enhancement activities:

- To prepare Quality Plans at the Department level with a calendar of activities.
- To review the progress of these plans in the middle of the academic year.
- Mandatory sharing of experience by the faculty members who attend important Training Programmes/Workshops.
- To institute Annual Quality award to a Department that adopts best practices in Teaching-Learning, Research and Consultancy and Student Support.
- To give more attention to the promotion of sports and games in the College.

The Annual meeting of the QAC to review the progress of the quality initiatives during the year 2008-09 on 24-03-2009 came to the following conclusions:

- Most of the departments devised quality plans and some effectively implemented those according to a calendar.
- The Department of Botany has carried out excellent work to win the Annual Quality Award for 2008-09.

## **Part B**

### **1. Activities reflecting the goals and objectives of the institution:**

- To promote student interest in studies and career development, three programmes were conducted by the various departments including the Student Achievers' Day (Geology Dept),
- In order to encourage research among the academic community four national seminars were organised in the college including the
- In order to promote sports and games a number of activities were organised in the College. This included the South India Intercollegiate Handball tournament for men and women, University team coaching camp for Hand ball (Men and Women).

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

NIL

**3. Innovations in curricular design and transaction:**

Restructuring of the Arts and Sciences Degree Curriculum was not attempted in the Post Independence Era in our Country. This was attempted by the Kerala University in a comprehensive manner by introducing academic flexibility and grading system. The University College, Trivandrum took a lead role in that. Almost all senior faculties belong to any one of the 37 Boards of Studies and 8 Faculty members serve as Chairmen. Thus, the institution played a key role in the transformation of the degree curriculum into a Choice based semester system. A number of workshops were held in the college as part of this and several faculty members served as Chairmen for the Board for restructuring. Degree curriculum was totally revised by including new and frontier areas of study and research. Curriculum transactions also changed considerably by the inclusion of continuous assessment of students based on seminars, assignments and class tests. Information Technology,

Scientific Inquiry, communication skill development are some of the new areas included in the degree curriculum. The University Grants Commission has also commended the University of Kerala in this regard.

**4. Inter-disciplinary programmes started:**

NIL

**5. Examination reforms initiated:**

The affiliating University, i.e., the University of Kerala initiated a series of examination reforms including computerised hall ticket issuing system and announcement of results.

**6. Candidates qualified: NET/SLET/GATE etc.**

A total of 20 students from the different departments passed the UGC NET examination. Thirty five students of the college passed the various entrance examinations of the country and joined national institutions such as IITs, Central Universities and other higher education institutions of repute.

**7. Total Number of seminars/workshops conducted: 12**

**8. Research Projects**

a. Newly implemented : 4

- 1. UGC Major project in Tamil
- 2. STEC Major project in Physics
- 3. UGC Major project in Chemistry
- 4. UGC Minor project in Geography

8. b. Completed : 3

**9. Patents generated, if any. NIL**

## 10. New collaborative research programmes:

Dr. T.E. Gireesh, Sr. Lecturer in Physics, became part of a Project Team for the Chandrayaan-2 in the Development of Lab Model of "Solar Wind and Energetic Particle Spectrometer" (SWEPS). The other participants in the team include Scientists from the PRL, Ahmedabad, BARC, Mumbai, IIG, Mumbai, IIT Kanpur, Saurashtra University, Rajkot, Prof. Ram Meghe Institute of Technology, Amravati, Aligarh Muslim University and the P.G. Autonomous Govt. College, Datiya, M.P.

## 11. Research grants received from various agencies :

1. UGC Major research project in Tamil - Folk Traditions in Sangam Literature. Project Investigator Dr. Nisha Raffi, Dept. of Tamil Rs. 4.39 lakhs

2. STEC, Govt. of Kerala Major Research project on Nano material technology with applications in superconductivity research. Project Investigator - Dr. P.R.S.Warrier, Dept. of Physics. Rs. 10.00 lakhs

3. UGC Project in the Dept. of Chemistry - Polyoxometallate nanoabsorbent for environment remediation. Project Investigator - Dr. M.K. Sreedhar Rs. 4.55 lakhs

4. UGC Minor Project in the Dept. of Geography - Dynamics of Population and Rural Change Project Investigator - Sri. K. Mani Rs 0.60 Lakhs

## 12. Details of Research Scholars

Dept. of Physics	- 17
Chemistry	- 9
Botany	- 8
Zoology	- 9

Tamil	- 19
English	- 2
Philosophy	- 5
Hindi	- 14
Economics	- 16
Politics	- 13
History	- 4
Maths	- 3
Arabic	- 2

### **13 Citation indexes of faculty members and impact factor:**

Most of the faculty members of Science Departments publish their Research findings in International journals having impact factor 1 to 3.

### **14 Honours/Awards to the Faculty:**

Shri. Babu N.M., Sel. Grade Lecturer in English won the special Jury prize for a Tele documentary at the State Level Competition held at Guruvayur, Kerala.

Dr. A. Joseph Sornaraj, Head, Dept. of Tamil received the 'Tamil Chemmal'award from the Kumari Muthamil Mantram, Tamil Nadu.

Dr.K.P. Jaikiran, Lecturer in Geology and Co ordinator, IQAC was invited to chair a Technical Session at the 6<sup>th</sup> International Conference on Informatics, Educational Technology and New Media in Education held in the Faculty of Education, University of Novisad, Sombor, Serbia during March, 2009.

Dr. T. Vijayalakshmi, Lecturer in Tamil secured first rank in Certificate in Linguistic course conducted by the International School of Dravidian Linguistics.

Dr. Krishnakumar, Sel. Grade Lecturer in Physics got selected as Resource Person in the INSA Regional Workshop.

**15 Internal Resources generated:**

Financial resource generation from the institution is mostly from subscriptions to the Parent Teacher Association and revenue generated through Photo copying service. Consultancy services that are offered by the various Departments are on a voluntary basis and hence non-remunerative.

**16 Details of the departments getting SAP, COSIST/DST-FIST, etc.**

The Departments of Physics and Chemistry were selected for DST-FIST Assistance for Rs. 35.00 lakhs and Rs. 40.00 lakhs respectively.

**17. Community Services:**

The National Service Scheme units of the College organised Community development programmes including the annual Ten day Camp organised in the city suburbs and blood donation programmes.

**18. Teachers and officers newly recruited:**

During the academic year 2008-09, five new Lecturers joined the various departments.

**•19. Teaching-Non Teaching staff ratio: 3:1****•20. Improvements in the library services:**

The General Library of the college took a series of measure for improvement in the service delivery. This included launching of a Knowledge Portal, [www.unicollibrary.synthasite.com](http://www.unicollibrary.synthasite.com) which serves as a gateway for the dissemination of open source journals and e books. The process of initiation of

library automation was started with the acquiring of the 'Software for University Library' (SOUL).

**•21. New Books/Journals subscribed and their value:**

A total of 635 new books worth Rs 1.02 lakhs were purchased by the various departments of the College.

**•22. Courses in which student assessment of teachers is introduced and the action taken on student feedback**

Student assessment of teachers is already part of the various Programmes being offered in the institution. Department staff meetings Discuss important student feed back for taking corrective action.

**•23. Unit Cost of Education:**

Being a Government run institution that receives funds from various Government agencies and where concessions of different kind are provided to the students of the weaker sections, exact unit cost of education can't be worked out.

**•24. Computerization of administration and the process of Admissions and examination results, issue of certificates**

Administrative sanction was obtained for computerization of the Administration and it is expected that the works would start soon in the Next academic year. Admission system for B.A/B.Sc courses is fully Computerized and uses the College website also. Examination results are now available to the students through the internet due to the reforms of the University of Kerala.

**•25. Increase in the infrastructural facilities:**



The Department of Botany developed its botanical garden construction Two new Green houses. A new seminar hall was also built in the same Department during the year.

The Department of Geology was equipped with a state of the art Network lab and an Instrumentation lab with advanced Petrological microscopes, imported Rock thin section making unit and automatic Sieve shaker.

Computer laboratories of the Departments of Statistics and Mathematics were modernized.

The existing hand ball court was upgraded at a cost of Rs 30,000/- .

**•26. Technology upgradation:**

All departments were linked through a LAN and given Internet access from the server kept in the Online Education and Research Centre. New software was designed for managing student attendance through the LAN.

**•27. Computer and internet access training to teachers and students**

Computer and internet training are offered to the students by group tutors during the tutorial sessions and also with the help of the staff appointed for the purpose in the Online Education and Research Centre of the College.

**•28. Financial aid to students:**

The various departments have arrangements to support financially Weaker students.

**•29. Activities and support from the Alumni Association:**

The alumni association of the college and the departments offer whole hearted support for the development of the college. Many small developmental needs are being met by the funds from the alumni. UCASA; the senior citizens alumni contributed an amount of Rs.10, 000/- during the year for developmental activities.

**•30. Activities and support from the Parent Teacher Association:**

Parent Teacher Association (PTA) of the College plays a key role in the functioning of the college. Annual departmental assistance by the PTA helps the individual departments in organising programmes for student welfare, for maintenance of computer systems and for small infrastructural maintenance work. Besides, the class PTA meetings are organised with the active support, both financial and administrative, from the College level PTA.

**•31. Health Services:**

The Department of Physical Education took lead role in offering health services to the students and staff of the institution. Calculation of Body Mass Index and provision of First Aid Services were introduced in the Department for the benefit of all. The Staff Club took initiative in offering Yoga training for the Faculty members which evoked a great response. The services of a professional Yoga trainer were utilised for the purpose.

Voluntary blood donation by students of the college is an important Community health service offered by the institution. The institution has bagged an award instituted by the State Government in this regard. The NSS units of the college undertake the task of Health education especially through awareness programmes organised during the World AIDS Day and Blood Donation day.

**•32. Performance in sports activities:**

The College Handball team won the South India Inter Collegiate Handball Tournament organized by St. Cyril's College, Adoor and the South India Inter Collegiate Handball Tournament organized by the University College, Thiruvananthapuram.

Many students got individual achievements during the year which are shown below:

**Kiran. G** won the 1<sup>st</sup> place in the Kerala University Weight Lifting competitions in the 56 kg wt. category and was adjudged the best Lifter of the University for the year 2008-09.

**Aneesh. O** won the 2<sup>nd</sup> place in the Kerala University Body Building competitions in the 75 kg category.

**Anoop T.J** won the 3<sup>rd</sup> place in the Kerala University Body Building competitions in the 60 kg category.

**Vineeth. S** won the 3<sup>rd</sup> place in the Kerala University Body Building competitions in the 65 kg category.

**Rajesh Kumar A.N** won two medals in the All India Inter University Fencing Championship held at Kannur in February, 2009.

**•33. Incentives to outstanding sports persons:**

The institution within its limited resources gives sufficient incentives to meritorious sports students. The PTA gave cash awards to the members of the Hand ball team which won several distinctions. Besides, the faculty members give financial assistance to weaker students participating in sports events.

**•34. Student achievements and awards:**

Mrs. Shilpa Sathish (Botany), Young Scientist Award in the Swadeshi Science Congress, 2009. Mrs Sajitha Rajan (Botany) got the best Woman Swadeshi Scientist Award 2009.

Students performed well in academic and co curricular activities. They won several awards including the Best Performer 'Kalathilakom' title (**Miss. Neethu Prakash**) in the Kerala University Youth Festival, Gold medals in competitions, First prizes in quiz competitions (**Mr. Renjith** II B.Sc Chemistry and **Mr. Sajan** of I B.A. Politics won several Quiz competitions held at the State level), Medals in sports events (**Mr. Rajesh** of I B.Sc Geology won Silver medal at a fencing competition held at national level) and prizes in college level events.

**•35. Activities of the Guidance and Counselling unit:**

The Career Guidance and Placement Cell of the College organised a total of 5 placement interviews by various firms.

**•36. Placement services provided to students:**

A total of 23 students got placement in different organisations during the year. The important placement interviews held during the year include those by TIME, EVERON, IISER and TATA AIG.

**•37. Development programmes for non-teaching staff:**

Members of the non-teaching staff avail the training facilities of the Institute of Management in Government (IMG) in office automation.

**•38. Healthy practices of the institution:**

The Department of Arabic started a website of its own, to show cases the achievements of the faculty and staff and also to aid Teaching-learning and research (<http://arabicuniversitycollege.yolasite.com> ). The General library of the

college also started a website to provide many library Services online ([www.unicollibrary.synthasite.com](http://www.unicollibrary.synthasite.com))

**•39. Linkages developed with National/International, academic/ Research bodies.**

The Science Departments have research linkages with various national Research bodies of Trivandrum including the ISRO, CESS, SCTIMS and the Rajiv Gandhi Biotechnology Centre .

**•40. Any other relevant information the institution wishes to add:**

PS TRICKS interactive website of Dr. Krishnan, Dept of Maths was used by 3,00,000 visitors for downloads.

## **PART C**

### **Plans of the institution for the next year**

The review meeting of the QAC held on discussed in detail the plan of action for the year 2009-10. It was decided to stream line the research activities of the institution through wider dissemination of knowledge gained using the college website and to promote inter departmental research activities. Decision was also taken to form a Health Club for the benefit of the staff and students with the assistance of the National Service Scheme units of the College. Quality maps would be prepared to document expertise available in different areas. Infrastructural facilities for Physical Education have to be increased and a new Volley ball court would be developed as part of this.