

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

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## **Year of Report : 2009-2010**

### **Part-A : The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year**

1. Preparations are made to upgrade the Choice Based Credit System (CBCS).
2. Faculty members are encouraged to apply for more research grants.

### **Part-B**

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

- Organisation of conferences, workshops and seminars by various departments.
- Updating syllabus of various courses.
- Improving infrastructure facilities.
- Starting research in frontier areas.

#### **2. New academic programmes initiated :**

Total number of programmes initiated : 3

- Details :
1. Short term training programmes for IELTS and TOEFL exams
  2. M.A. (Gender Studies)
  3. M.Phil. (Gender Studies)

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

- The curriculum of various study programmes in the departments are designed such that the student learn sufficient number of basic and advanced level courses.
- The syllabus of various courses are revised.

**4. Interdisciplinary programmes started :**

Nil

**5. Examination reforms implemented :**

- Question paper pattern for certain courses are revised so that more emphasis is given to test the basic understanding of the concepts and to improve the problem solving skills.
- Evaluation of answer papers is made more transparent.

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

NET/SLET/GATE : 22

**7. Initiative towards faculty development programme :**

- Orientation programmes and refresher courses on specific topics are organized regularly in the Academic Staff College of the University to improve the teaching and research qualities of young faculty members.
- Also faculty members are encouraged to attend orientation programmes and refresher courses organized outside the institution.
- Faculty members are encouraged to attend research conferences and workshops in India and abroad.

**8. Total number of Conferences /Seminars/Workshops conducted/organized :**

38

**9. Research projects :**

**(a) Newly implemented :**

No. of Projects : 28

Total outlay : Rs.985.56 lakhs

**(b) Completed :**

No. of Projects : 10

Total outlay : Rs.100.05 lakhs

**10. Patents Generated :**

1 Patent

**11. New collaborative research programmes :**

Research collaborations

Yes	✓	No	
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National

If yes, how many?

10
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Overseas

Yes	✓	No	
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If yes, how many?

7
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**12. Research grants received from various agencies :**

No. of Projects : 28

Total outlay : Rs.985.56 lakhs

**13. Details of Research Scholars :**

Nature of Registration	On Roll	Newly Registered	Degree Awarded
Full-time/ Part-time	282	48	22

**14. Citation Index of faculty members and Impact factor :**

- (i) Some of the research papers published by few faculty members have good number of citations.
- (ii) Science faculty members normally publish their research papers in reputed international journals with high impact factor.

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

- Guest Editorship, September 2008 volume of J Chem Sci as TCS 2006 Special Issue – School of Chemistry
- Visiting Professorship, University of Complutense, Spain– School of Chemistry
- Royal Society-INSA Visiting Fellowship, University of Manchester, UK– School of Chemistry.
- FRSC, Royal Society of Chemistry, 2009, United Kingdom – School of Chemistry

- TWAS-UNESCO Associate Scheme at Centres of Excellence in South Third World Academy of Sciences, C/O ICTP, Italy- Prof.S. Arumugam
- Fellow of Royal Society of Chemistry (FRSC), Royal Society of Chemistry London, 2009 Prof.M. Palaniandavar
- National Geomatic Award (2010) by Indian Society of Geomatics - Prof. SM. Ramasamy
- Rastriya Gauv Award for the outstanding contributions and achievements in the field of social Work in May 2010 by India International Friendships society, New Delhi. - Dr.V.Sethuramalingam
- Best Citizen of India Award 2010 - Dr.V.Sethuramalingam
- Editor, The Indian Geographical Journal, University of Madras, Chennai- Dr. K. Kumaraswamy.
- Joint Secretary, The Indian Geographical Journal, University of Madras, Chennai - Mr. R. Jegankumar.
- Life Member in National Academy of Biological Sciences (NABS)- Dr.D.Dhanasekaran
- Associate Editor in Current Research Journal of Biological Sciences, Maxwell Science Publication - Dr.D.Dhanasekaran
- Member Indian Council of Historical Research, Ministry of Human Resource Development, Govt. of India, New Delhi – Prof.N. Rajendran
- General Secretary Tamil Nadu History Congress – Prof.N. Rajendran.
- Heiwa Nakajima Foundation Visiting Fellowship, Japan - Dr. G. Archunan.
- TWAS- CAS Visiting Fellowship, China - Dr. G. Archunan.
- Visiting Professor , Department of Adult & Continuing Education, Sri Venkateswara University, Tirupathi – Prof.K. Parthasarathy.
- Best Social Worker Award, 2009 by the Socio-Economic Service Society, Tamil Nadu. Dr. S. Karuppaiyan

**16. Internal resources generated :**

Rs.19,73,10,439/-

**17. Details of Departments getting SAP,COSIST (ASSIST)/DST-FIST etc. assistance/recognitions :**

UGC – SAP : School of Chemistry(Contd.), School of Physics(Contd.), Animal Science(Contd.), Geography(Contd).

DST – FIST : School of Physics(Contd.), Department of Animal Science(Contd.), School of Chemistry(Contd.).

**18. Community Services :**

- Awareness programme on Current Capital Market Scenario to the Investors by the Department of Commerce.
- Regional Consultation on identifying issues of Adolescent girls and women working in Textile sector with NGOs by the Department of Women Studies.
- Workshop on communication skills for rural students

- Organized Entrepreneurship Programme of Oyster Mushroom Cultivation Technology for SC/ST Population in and around Tiruchirappalli District in Department of Microbiology.
- Civil Service training consultancy for rural youth in collaboration with District Employment office by the Department of History.

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

64

**20. Teaching Non-teaching staff ratio :**

1:3

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

New books at the text book level and also advanced books based on the requirement and current trend are added.

**22. New books/ journals subscribed and their cost :**

(a) Central Library

Number of books added : 2450

Journals subscribed : 204

(b) Department Libraries

Number of books added : 2,936/-

Cost of the books : Rs.26,71,374/-

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

Feedback about all the courses and the course teachers are obtained from the students and the comments made by the students are discussed with the concerned faculty members for improvement.

**24. Unit cost of education :**

Approx. : Rs.5000/-

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

The examination system has been fully computerised with the in-house developed software, specially suiting to the requirements of the affiliated colleges programmes. The processing of results, DTP printing of Certificates/Degrees etc. are all done without delay.

In the University Departments the admission process including entrance examination, preparation of rank, selection, waiting list is fully computerized which makes the admission very

efficient. Also, the conduct of examination and publication of results apart from routine administration are computerized.

## 26. Increase in the infrastructural facilities :

- Bio-Isoelectric focusing and 2D Gel Electrophoresis Teaching Kit with 2D PAGE, Mini Tank Blot Transfer System, Vertical Autoclave were added to the Department of Biomedical Science.
- Air conditioners were installed in the seminar hall of the Department of Commerce.
- Forty four different thematic visual interpretation display boards have been mounted on the walls across the Geography Department corridors, class rooms and labs.
- The Department of Geography has installed large sized water filtration units (2 No.).
- Department of Geography has been assisted with UPS power backup.
- Steel map filling cabinets, Working tables, and chairs were purchased for Research laboratories in the Department of Geography.
- Five Air-conditioners were installed in the Department of Mathematics.
- PCR & Cooling Centrifuge, BOD incubator, Deep Freezer(-80°C) Deep freezer, Spectrophotometer, UV-Spectrophotometer were purchased by the Department of Biotechnology.
- Internet and Intranet provision was given to the staff of the Department of English. Microbiology
- Partitioning of Laboratories were done in some of the Departments to accommodate newly recruit of faculty members. History
- Copier machines were purchased for the new Departments. Lifelong Learning
- Internet Facility with provision for multimedia accessories were provided to the students of the Department of Lifelong Learning.
- New Building with seminar Hall and Library for the Department of Women's Studies.
- Air-Conditioners for M.Sc. Class rooms in the Department of Microbiology were fixed.
- Infra structure for asymmetric synthesis in organic synthesis such as HPLC Polarimeter was created in the School of Chemistry.

## 27. Technology upgradation :

- An EPR spectrometer and XRD machine were installed at the School of Chemistry
- Campus-wide network with optical fibre backbone was strengthened.
- Computer systems were provided to the needy departments.
- High Speed Document Scanner, Projectors (4 Nos), Desktops (50 Nos) were added in the Department of Computer Science.
- GIS Lab in the Department of Geography has been upgraded with ESRI's ArcGIS 9.3, and ArcPad.
- Trimble DGPS (2 No.) were procured for Geodetic survey.
- Research laboratories of the Department of Geography have been equipped with Digital Resistivity Meters (3 No.) and Double beam UV- VIR Spectrophotometer.
- Ten Personal Computers, Six Printers and one Copier machine were procured by the Department of Mathematics.
- Wifi Connection was provided to the History Department Building.
- Language Lab was installed in the Department of English.

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

Computer and Internet access have been provided to both teachers and students. No training is given. Faculty members are provided with individual desktop with internet facility. The Informatics Centre of the University has a bandwidth of 64 kbps for internet connectivity.

## 29. Financial aid to students :

The Post Graduate Students belonging to Backward, Most Backward and Schedule Caste and Tribes are getting scholarships from the State Government of Tamil Nadu. Research Scholars receive fellowships from different agencies such as UGC, CSIR, DST, DBT, ICMR, DAE, Bharathidasan University etc.

Total amount of Scholarship : Rs.70,04,319/-

Total amount of Fellowship : Rs.72,43,025/-

## 30. Support from Alumni association and its activities :

Several Alumni from various departments have regular contact with the faculty members, scholars and students and take part in the welfare of the departments.

**31. Support from Parent-Teacher Association and its activities :**

There is no formal Parent-Teacher Association in the University. However, all the departments conduct Parent-Teacher Meet on the first day of the programme in the academic year and various issues related to the teaching programmes and students are discussed.

**32. Health Services :**

The University's Health Centre was established in the year 1993. The Health Centre is located in a building with 300 sq.ft. area, which is very close to the Administrative Building, Hostels and to the Staff Quarters. The Health Centre has physical facilities such as bathroom, toilet, wash basins, fans, lights, drinking water, etc. The health centre has First-aid medicine, IRR Lamp, Electrocardiogram and other basic equipments. The working hours of the Health Centre is from 9.00 a.m. to 5.00 p.m. The Centre has link with all the major hospitals in the city. The health centre has the following medical personnel.

The Health Centre is managed by a qualified part-time Doctor and a qualified full-time nurse.

**33. Performance in sports activities :**

- Nikhil Chittrasu.C. Bronze medal in High jump in the All India Competition
- Jackuline Mary.I.Silver medal in Javelin in the All India Competition
- Suriya.L. Silver medal in 5000 Mts. in the All India Competition
- Men Hockey team secured Fourth position in South Zone tournament.  
Women Netball team secured Fourth position in All India tournament.

**34. Incentives to outstanding sports persons :**

Special prizes are given to Men Volleyball team. AIU, New Delhi has also provided prize money of Rs.30,000/- for attaining runners-up position in the All India Tournament.

Special prizes are given to Ball Badminton (Men) for bagging first place in the All India tournament.

Special prizes are given to both athletes Shanti and Gopi for winning medals in the All India Inter-University Competition.

**35. Student achievements and awards :**

- R. Vijay Solomon, School of Chemistry was awarded Maulana Azad National Fellowship for the year 2009-2014
- S. Selvi and K. S. Anuratha from the School of Chemistry were awarded the Summer Research Fellowship at IIT Kanpur and University of Madras respectively.
- R. Senthil Kumar, School of Chemistry was awarded Swiss Government Scholarship



- M. Sankaralingam, School of Chemistry presented a paper at the 5th Asian Biological Inorganic Chemistry conference (AsBIC V), Kaohsiung, Taiwan, held during November 01-05, 2010.
- Dr.D.V. Senthilkumar, Centre for Nonlinear Dynamics, School of Physics was awarded Alexander von Humboldt Post-doctoral Fellowship.
- Dr. V. K. Chandrasekar , Centre for Nonlinear Dynamics, School of Physics was awarded INSA-Young Scientist Award.
- Ms. S. Sujatha, Ms. Sruthi V. Chari, Mr. R. Nandakumar and Mr. J.S.Jhon (Msc. Geosciences students) were offered to board on Shagar Kanya Cruise for Indian Ocean exploration by NIO, Goa.
- Some students of the Department of Mathematics participated in state level quiz programme and won prizes.
- One of our student from the Department of Mathematics and one student from School of Physics got admission in TIFR Bombay.
- Ms. Jilly Philippa, Research Scholar, Qualified NET in Women's Studies
- Ms. K.T. Kalai Selvi, Research Scholar, Department of Women Studies received Award "Savithri Bai Phule" for promoting leadership among Dalit Women, 2010.
- Ms.S.Kothai, S.Vishnu Priya, D.Avinash Gandhi, P.Sumitha, Department of Biotechnology -MABMS Title -31st Annual Conference on IABMS.
- V .Murali of the Department of History received Ph.D. Research Studentship Awards.
- Dr. S. Velayuthaprabhu, Department of Animal Science received Post Doctoral Fellowship, Taiwan Medical University, Taiwan.
- Dr. S. Shanju, Department of Animal Science received Post Doctoral Fellowship, Ben-Gurion University of Negev, Israel.
- Dr. T. Jayakumar, Department of Animal Science received Post Doctoral Fellowship from Taipei Medical University, Taiwan.
- Dr. R. Elanchezhian, Department of Animal Science received Post Doctoral Research Associateship, University of Nebraska Medical Centre, Omaha, U.S.A.
- Dr. E. Ramesh, Department of Animal Science received Research Fellowship, King Saud University, Riyadh, K.S.A.
- Dr. V.S. Periasamy, Department of Animal Science received Research Fellowship, King Saud University, Riyadh, K.S.A.
- Miss. Preethy Paul, Department of Animal Science received UGC Indo-Finnish Government Scholarship Pool, University of Turku, Biocity, Turku, Finland.

**36. Activities of the Guidance and Counselling Cell :**

Each department has appointed mentors among faculty members to different classes to provide academic, career and personal guidance and counseling to the needy students whenever required.

**37. Placement services provided to students :**

The University does not arrange common placement programme for the students. However, each department, through their contacts with other institutions and companies in India and abroad, helps the students to get good employment. Also, the students get placements through their own contact if they do their project work outside the University. Similarly, research scholars get placement through their contact during the post-doctoral programmes outside the University. Further alumni help their juniors. Several students get teaching positions in colleges.

**38. Development programmes for non-teaching staff :**

Common development programmes for non-teaching staff are organized rarely. However, non-teaching staff who are interested in pursuing higher qualifications through distance education mode are encouraged by the institution. Also, inhouse training is provided to non-teaching staff of the University at regular intervals.

**39. Best practices of the institution :**

- The members of the Department of Geography cleaned their surroundings/planting saplings along with the students every week.
- Establishment of Incubator Training Centre( Sanitary Napkin Production Unit) by the Department of Women Studies.
- Journal club to create research interest in Biochemistry.
- Exposure to various literary activities such as literary club and academic counseling  
Preparing the students for placement in colleges, print and electronic media and coaching them to get through NET/SET exams by the Department of English.
- Tree plantation and Village Adoption by the Department of Environmental Management.
- Practical Examinations are conducted for each theory paper separately (six hours for every practical) from the academic year 2010-11 in the Department of Microbiology.
- Lectures through Power Point presentation and keep them informed of latest development through published research articles by the Department of Animal Science.

#### 40. Linkages developed with national / international , academic / research bodies :

##### **School of Physics:**

- FCT- UNL, Caparica, Portugal
- Postdam Inst. For Climate Impact Research , Germany
- Institute of Theoretical Physics, State Univ. Sao Paulo, Brazil.
- Los Alamos National Laboratory, USA.

##### **School of Chemistry :**

- Prof.Peter Comba, Im Neuenheimer Feld 503, 69120 Heidelberg, Germany
- Dr J.-M. Latour Laboratoire de Chimie et Biologie des Métaux, iRTSDV / LCBM / PMB, UMR 5249 CEA-CNRS-UJFCEA-Grenoble FRANCE
- J. M. Latour, Grenoble Cedex 9, France.

##### **Environmental Biotechnology :**

- United Nations University, Tokyo, Japan and SHIMADZU Corporation, Japan

##### **Biomedical Science**

- National Institute of Cholera and Enteric Diseases, Kolkata.

##### **Women Studies**

SSA, Chennai, ICSSR, New Delhi

##### **English**

Prof.V.Ayothi Conducted courses in Communication skills at Pondicherry University for university and college teachers

##### **Environmental Management**

Co investigator MoD(Avalanche Risk Assment using fuzzy logic and basin network and intelligent technology) and DRDO

##### **Microbiology**

Dr.B.R. Ambedkar centre for biomedical research, University of Delhi in the “Biomarkers for ovarian Carcinoma, prevalence of HPV among cervical carcinoma cases”.

##### **History**

ICHR, UGC, TANSCH, University of Malaysia

##### **Animal Science**

- Dr. Jeon Rong Sheu, Taipei Medical University, Taipei, Tailand.
- Dr. Hemant K. Singh, CDRI, Lucknow.

- Dr. Shuyi Zhang, East China, Normal University, China.

**41. Any other relevant information :**

Nil

**Part – C : Detail the plans of the institution for the next year**

In the next year,

- The infrastructure in the departments will be improved.
- Research in new frontier areas will be initiated.
- New teaching programmes will be started.

Name and Signature of the  
Coordinator/Director, IQAC

Name and Signature of the  
Chairperson, IQAC