

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

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## **Year of Report : 2003-2004**

### **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 were made to upgrade the Choice Based Credit System (CBCS).
2. Faculty members were 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 : 1  
Details : M.Tech. (GIS)

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

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

4. **Interdisciplinary programmes started :**

M.Tech. in GIS

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 : 18

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 :**

26

9. **Research projects :**

**(a) Newly implemented :**

No. of Projects : 8

Total outlay : Rs.623.66 lakhs

**(b) Completed :**

No. of Projects : 11

Total outlay : Rs.110.42 lakhs

10. **Patents Generated :**

2 Patents

**11. New collaborative research programmes :**

Research collaborations 

Yes	✓	No	
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National

If yes, how many?

7
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Overseas

Yes	✓	No	
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If yes, how many?

3
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**12. Research grants received from various agencies :**

No. of Projects : 8

Total outlay : Rs.623.66 lakh

**13. Details of Research Scholars :**

Nature of Registration	On Roll	Newly Registered	Degree Awarded
Full-time/ Part-time	226	30	17

**14. Citation 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 :**

- Senior Associate, International Centre for Theoretical Physics, Trieste, Italy – Prof. M. Lakshmanan and Prof.M. Daniel
- Visiting Fellowship at university of Surrey, UK – Dr.M. Senthilvelan
- Visiting Fellowship at Universidad de Salamanca, Spain – Dr.M. Senthilvelan
- AC Banerjee Memorial Lecture Award of National Academy of Sciences – Prof.M. Lakshmanan
- Fellow of Academy of Sciences – Prof.M. Palaniandavar

- JSPS Fellowship – Prof.M. Palaniandavar
- Indian Academy of Sciences Fellowship, University of Hyderabad
- Member, National Eligibility Test, CSIR Committee on Chemistry
- Life Member, CRSI (Chemical Research Society of India, Bangalore) Convener, Trichy-Madurai Local Chapter of CRSI
- Life member, Society for Advancement of Electrochemical Science and Technology (SAEST), Karaikudi
- DST-Japan Science Promotion Society, Invitation Fellowship, March – May 2003
- Member, Program Advisory Committee on Inorganic Chemistry, Department of Science and Technology, New Delhi, 2002 – 2007
- Journal of Chemical Sciences, Indian Academy of Sciences- Member, Editorial Board
- Open Inorganic Chemistry Journal- Member, Editorial Board
- Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry- Member, Editorial Board
- ICMR – INSERM visiting fellowship – Dr.S. Shanmugapriya
- Yellappagauda Subba Rao Award-Dr.T.Thirunalasundari
- Best Paper Presentation Award-Dr. T. Thirunalasundari
- Honorary member of the Research Board of Advisors.- Dr.N. Thajuddin
- DST young scientist Award (2004) – Dr.Joseph Selvin
- Best Poster Presentation Award – Dr.L. Uma and Dr.P. Malliga
- Second Best Book Award for the Book “Tamil Natil Desiyam and Swadesiyam” – Dr.N. Rajendran
- Member of Expert Committee – Ministry of Environment and Forest – Dr.P. Geraldine
- Indian National Science Academy Visiting Fellowship, NCBS, Bangalore – Dr.G. Archunan
- “NLM – UNESCO Award 2004” was received from His Excellency the President of India, for Outstanding Contributions in Literacy and Adult Education carried out by the DLL, Bharathidasan University. - Dr.K.Parthasarathy
- Chairman, Jan Shikshan Sansthan, - Dr.K. Parthasarathi
- Sathakkaththullah Appa Endowment Award 2004 – Dr.A. Alice
- Best Research paper award by the Association of Economists of Tamil Nadu - Dr.V.Sethuramalingam

**16. Internal resources generated :**

Rs.18,68,78,451/-

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

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

**18. Community Services :**

The faculty members of the Department of English actively participated in the community service and extension activities like coordinating NSS and NCC, being members of various committees including hostel, library, canteen, campus development, board of selection, board of studies, etc. Apart from these the students are trained in basic literary concepts.

The Department of History provided Civil Service training consultancy for rural youth in collaboration with District Employment office.

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

01

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

1:4

**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 : 173

(b) Department Libraries

Number of books added : 1299

Cost of the Books : Rs.15,67,462/-

**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 are 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 :**

- An additional floor was constructed in the Chemistry building.
- Infrastructure is improved in many of the Science departments to accommodate the newly purchased sophisticated equipments.
- GIS Lab is equipped with Air Conditioners, Computer tables & Chairs and Map filing Cabinet are added.
- A UV-transilluminator and Nitrogen Analyser are added.
- Some of the class rooms in the Department of Geography are equipped with Internet and LCD facility.
- Thermal cycler IPCS 6991000.010 master cycler gradient, and Iceflacking machine are included in the Department of Marine Biotechnology.
- An aquarium is constructed in the Department of Animal Science.
- 5 Revolving chairs and 2 Notice Boards are added in the Department of Tamil.

**27. Technology upgradation :**

- A new seminar hall with AC and Modern presentation facilities (LCD projection) was constructed in the Department of Chemistry.
- Sophisticated equipments are purchased in different science departments using research grants received from agencies.
- Campus-wide network with optical fibre backbone is established.
- The official website <http://www.bdu.ac.in> is launched.
- In various Departments, technology upgradation is implemented.
- The GIS Lab in the Department of Geography is upgraded with ArcGIS 9.1 Software.
- Visual Interpretation lab in the Department of Geography has been upgraded with Procom-2 instrument.
- Two personal computers and one UPS are added to the computer laboratory .
- Internet facility has been provided to Faculties, Research Scholars and Students.

- A central computing facility is developed in the Department of Animal Science under the DST-FIST Programme.
- A Xerox machine with Scanner facilities, and Dot-matrix and Inject printer and laser printer are added in the Department of Life-long Learning.
- New computers are purchased in the Department of Sociology.

**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.77,03,588/-

Total amount of Fellowship : Rs.28,55,652/-

**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 :**

- Men Ball Badminton bagged the first position in All India tournament.
- Men Kabaddi team secured fourth position in South Zone tournament.
- Men Volleyball team secured second position in South Zone tournament.
- Shanti Gold medal in 800mts & 1500 mts
- Gopi Silver medal in 5000mts

**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 :**

- C. Gunanathan, Department of Chemistry received the Best Poster Presentation Award in the first international Symposium in Recent advances in pharmaceutical sciences, Zydus Cadila, Ahmedabad, Jan. 23-24, 2003.
- M. Gopinath from the School of Life Sciences received the INSA Summer Research Fellowship.
- Jeyachitra, K from the Department of Microbiology – won the best poster award at the National Symposium on Microalgal Biotechnology held at Bharathidasan University, Tiruchirappalli, during March, 11-13, 2004

**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 :**

- (i) The courses of various programmes are updated regularly by the respective Boards of Studies.
- (ii) Students- centred teaching
- (iii) ICT based learning
- (iv) Group discussion, students seminars, quiz in the post-graduate programme.
- (v) Science clubs to share recent research findings among research students.
- (vi) Students are encouraged to do summer research projects.

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

School of Physics:

- University of Cergy-Pontoise, France.
- University of Southern California, Los Angeles, USA.
- University of Colorado, Colorado, USA
- FCT- UNL, Caparica, Portugal
- IUAC, New Delhi
- Postdam Inst. For Climate Impact Research , Germany
- Saha Institute of Nuclear Physics, Kolkata
- Sant Longowal Institute of Engineering and Technology, Sangrur, India
- Department of Mathematics, University of British Columbia, Vancouver, Canada
- Instituto de Física Teórica, Universidad Estadual Paulista, Brazil
- Department of Mathematics, University of British Columbia, Vancouver, Canada
- Isaac Newton Institute for Mathematical Sciences, Clarkson Road, Cambridge, CB3 0EH, United Kingdom.

School of Chemistry :

- Third World Academy of Sciences Visiting Fellowship for 2003 – 2006
- Visiting fellowship at the University of Fribourg, Switzerland and University of Complutense, Madrid
- Visiting fellowship at the Stoeckli-Evans H Institut de Chimie, Université de Neuchâtel, CH-2007 Neuchâtel, Switzerland

- Visiting fellowship at the Chikira M, Faculty of Science and Engineering, Chuo University, Tokyo 112, Japan

Department of Microbiology:

- WHO Centre for Leptospirosis, Indian Council of Medical research, Port Blair in the area of “Diagnosis and development of rapid diagnostic kits for Leptospirosis”.

**41. Any other relevant information :**

Nil

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

In the next year,

- Infrastructure in various 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