

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

Name of the Institution : Bharathidasan University, Tiruchirapalli 620 024, Tamil Nadu

Name of the Head of the Institution : Dr.(Mrs.) K. Meena

Phone No.: Office : 0431-2407555 Residence : 0431- 2407044

E-mail : vc@bdu.ac.in

Name of the IQAC Coordinator/ Director : Dr.M. Daniel

Phone No.: Office : 0431-2407057 Residence : 0431- 2458358

Mobile : 98944 37647 E-mail : iqacbdu@gmail.com

Year of Report : 2004-2005

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

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

Part-B

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

- Organisation of conferences, workshops and seminars by various departments.
- Initiating new teaching programmes.
- Improving infrastructure facilities.
- Starting research in frontier areas.
- More research project will be initiated through support from scientific agencies.

2. New academic programmes initiated :

Total number of programmes initiated : 4

Details : Certificate courses in French, German & Arabic

UGC innovative programme in Environmental Management.

3. Innovations in curricular design and transaction :

- New elective courses on the recently developed advanced topics are introduced.
- More choices in the elective courses are introduced.
- Curriculum design is improved.

4. Interdisciplinary programmes started :

Nil

5. Examination reforms implemented :

- Continuous Internal Assessment process is strengthened by including more parameters.
- Question paper pattern is designed to test the understanding of basics.
- Evaluation of answer papers is made more transparent.

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

NET/SLET/GATE : 24

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.
- Faculty members are encouraged to organize scientific meetings.

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

34

9. Research projects :

(a) Newly implemented :

No. of Projects : 24

Total outlay : Rs.548.68 lakhs

Completed :

No. of Projects : 9

Total outlay : Rs.35.50 lakhs

10. Patents Generated :

3 Patents

11. New collaborative research programmes :

Research collaborations

Yes	✓	No	
-----	---	----	--

National

If yes, how many?

6

Overseas

Yes	✓	No	
-----	---	----	--

If yes, how many?

2

12. Research grants received from various agencies :

No. of Projects : 24

Total outlay : Rs.548.68 lakh

13. Details of Research Scholars :

Nature of Registration	On Roll	Newly Registered	Degree Awarded
Full-time/ Part-time	243	32	15

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 :

- C Tech MVS Software Award, California, USA – Dr.A. Ganesh
- Independence Day Recognition of Services to SHG women by Women Development Corporation, Tamil Nadu
- Awarded with BLOT(Broad Outlook Learner Teacher Award)-Dr.S.Sekar
- Fulbright Award by Indo American Environment Leadership Program (IAELP)

- Appreciation letter received from Bharathidasan University, for the conduct of “Vacation training programme on bioresources” for school children” from 02-29 May, 2004. - Dr. M. Sundararaman
- Indian Academy of Sciences, Bangalore, selected as teacher trainee and underwent training in the field of proteomics at Indian Institute of Science, Bangalore for two months during July & Aug. 2004 - Dr. M. Sundararaman
- Best Poster presentation award National Symposium and Biodiversity of fresh water algae, Chennai – Dr.L. Uma.
- The best poster presentation certificate from National seminar on Recent Trends in plant biotechnology, Department of Plant science, Bharathidasan University, Tiruchirappalli – 24 on March 22-23, 2004 - Dr. P. Malliga.
- Jeevan bharathi award 2005 for the eminence in the field of literature given by LIC of India - Dr. Radhachellappan.
- Visiting Scientist at the Abdus Salam ICTP, Trieste, Italy – Prof.M. Daniel
- INSA Exchange Fellowship – Dr.S. Arumugam
- Visitor University de Catania, Catania, Italy – Dr.M. Senthilvelan
- Visitor University of Surrey, Guilford, U.K. – Dr.M. Senthilvelan
- Best Paper Presentation Award – Dr. R. Ramesh Babu
- Visiting Professor, Academia Sinica, Taipei, Taiwan, 2005 – Prof.M. Palaniandavar
- Prestigious Alexander von Humboldt Fellowship, Revisit program, Germany, 2004 – Prof.S. Muthusamy
- Visited as Guest Scientist of Ruhr University (Prof. W. Sander), AvH Humboldt Foundation, Germany, Aug. 2004-Oct. 2004 - Prof.S. Muthusamy
- AIST Researcher Fellowship: NIAIST, Tsukuba West, Japan – Dr. R. Babu Rajendran
- Awarded the “Best Youth Red Cross Programme Officer for Long and Meritorious Service from the Indian Red Cross Society – Tamil Nadu Branch” - Dr.P.Ilango.
- INSA – Royal Society Exchange Fellowship to U. K (Imperial College & Oxford University)-School of Chemistry
- Third World academy of Sciences, (Italy) Visiting fellowship 2003-2006-School of Chemistry
- INSA-DFG,Germany Visiting fellowship-School of Chemistry
- INSA-KOSEF Visiting Fellowship Award – S. Korea-School of Chemistry
- Prof. D. K. Banejee Memorial lecture award, IISc, Bangalore -School of Chemistry
- Fellow of Academy of Sciences (FASc), 2004 -School of Chemistry

16. Internal resources generated :

Rs.21,48,43,708/-

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 :

Programmes organized by the Department of Women Studies:

- Awareness Programme on Career Opportunities for Women in Defence – 26.11.04
- Awareness Programme on Prevention of HIV/AIDS- 1.12.05
- Reproductive Health Camp for the University Staff and Students -7.3.05
- Gender Sensitization Programme for SHG members-March 8th 2005
- One Week summer camp for the children of the University Staff 16th & to 20th March 2005

Other Programmes :

- Dr.K.Kumaraswamy represented Bharathidasan University and interacted with the public through Doordharshan Pothigai, Chennai Live Programme (Do You Know?) on 16.08.2004 between 12.30 and 1.30 p.m. on Curriculum in Higher Education, Doordharshan Kendra, Chennai.
- Special training in communication skills for students by the Department of English.
- Service to the students and farmers in Patharakottai regarding Mushroom cultivation by the Department of Microbiology on October 2nd, 2004.
- Civil Service training consultancy for rural youth in collaboration with District Employment office by the Department of History.
- A number of Workshops/Seminars and Conferences on Societal Needs have been organized by the Department of Lifelong Learning.
- A number of Entrepreneurship oriented programmes and skill based training were conducted by the Institute of Entrepreneurship and Career Development.

19. Teachers and officers newly recruited :

One

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	: 3240
Journals subscribed	: 172

(b) Department Libraries	
Number of books added	: 3,397
Cost of the Books	: Rs.21,58,920/-

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 :

Department of Geography :

- Automatic Weather Station has been installed.
- Steel Library Book Cases (3 No.) were procured.

Department of Mathematics :

- Two Air Conditioners

Department of Marine Biotechnology

- Establishment of a marine cyanobacterial germplasm to serve as a gene bank for the present and posterity.
- Infrastructure for students and scientists on short-term projects.

Department of Lifelong Learning

- Separate Vehicular Parking

Department of Tamil

- Book case & Storewell glass door -2
- HP Laser jet-1
- Modi xerox digital copier – 1

27. Technology upgradation :

UGC Infonet Programme is launched with 512 Kbps bandwidth internet connectivity using SCPC DAMA VSAT.

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.64,47,852/-
Total amount of Fellowship	: Rs.17,46,129/-

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 runners' position in All India tournament.
- Men Hockey team secured fourth position in South Zone tournament.
- Men Volleyball team secured fourth position in South Zone tournament.
- Men Volleyball team secured third position in All India tournament.

34. Incentives to outstanding sports persons :

Special prizes are given to Ball Badminton (Men) team for finishing second in the All India tournaments.

Special prizes are given to Volleyball (Men) team for finishing third in the All India tournaments.

35. Student achievements and awards :

- **S.Rajan and S.Balakumar, Department of Biotechnology - MABMS Title-25th Annual Conference on IABMS**
- **S. Thiyagarajan, Department of Microbiology won the best paper award at the National symposium on Marine Plants.**
- **Syed Jahangir, H, Department of Microbiology won the best paper award at the National Symposium on Recent trends in Microbial Biotechnology.**
- **Dr. S. Rajanarayanan received a Post Doctoral Fellowship at the University of Lille, France.**

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 :

- Conducted case study, group discussion, management games, students seminars, workshop, training and quiz to P.G students.
- Students are given opportunity to visit and avail internship to literacy with industries and laboratories to get exposure in recent advancements.
- Interactive mode of teaching.
- Convert the research finding into action.
- Encourage research scholars to publish their results before submitting the thesis.
- Vertical mobility of students.
- Students are encouraged to do summer research projects.
- Regular Science Clubs give the students adequate room to share among them the recent research findings and plan the meetings.
- Research Scholars are encouraged to participate in National and International Level Seminars.
- Field visits, audio – video presentations, group discussions, debates are part of the teaching initiatives.
- Mass Cultivation Tank for Marine Cyanobacteria.
- Chit Chat club for M.Sc., & Ph.d. students.
- Counseling to individual students.

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
- Central Research Laboratory, BEL. Jalahalli, Bangalore-560 013, India
- MRC, IISc., India
- 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 :

- Prof. Dr. Hiroshi Yamataka, Rikkyo University, Japan.
- Prof. Su Moon Park, POSTECH, S. Korea
- Dr. G. Vagnieres, EPFL, Lausanne, Switzerland
- Prof. Helen Stoeckli-Evans, Université de Neuchâtel, Switzerland
- Stoeckli-Evans H, Institut de Chimie, Université de Neuchâtel, CH-2007 Neuchâtel, Switzerland
- Chikira M, Faculty of Science and Engineering, Chuo University, Tokyo 112, Japan.
- Halcrow M A School of Chemistry, University of Leeds, Woodhouse Lane, Leeds LS2 9JT, UK

Department of Women Studies :

UNICEF, Chennai

Department of Microbiology :

Department of Biology, Fisk University, Nashville, TN, USA in the area of Cyanobacteria and Actinomycetes.

Animal Science :

National Centre for Biological Science, Bangalore.

Lifelong Learning:

BSNL, Trichy SSA

41. Any other relevant information :

- Planned to start a new center on Risk Management in the Department of Commerce.
- The Department of Commerce has planned to offer innovative programmes in the area of Capital Market and Financial Inclusion in future.
- The Department of Commerce will initiate industrial visits by the students.

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

In the next year,

- Research facilities will be improved by adding new equipments.
- Choice Based Credit System in teaching programmes will be implemented with full vigor.
- Scientific meetings in emerging areas will be organized.

Name and Signature of the
Coordinator/Director, IQAC

Name and Signature of the
Chairperson, IQAC