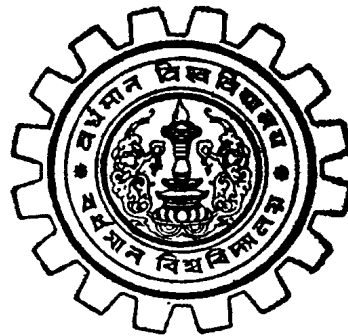


**ANNUAL QUALITY  
ASSURANCE REPORT (AQAR)  
OF THE IQAC – 2009**



**THE UNIVERSITY OF BURDWAN  
RAJBATI, BURDWAN – 713 104**

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

**NAME OF THE INSTITUTION : THE UNIVERSITY OF BURDWAN**

YEAR OF REPORT : 2009

### **Section – A : Plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement.**

This is the first report of the IQAC after its establishment in the year 2010

### **Section – B : Details in respect of the following :-**

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

In the present global scenario of acute competition and diversification, a university should have diverse activities by which new challenges could be faced as well as quality in the academic field might be improved. Accordingly, our University has set up different wings/centres whose brief descriptions are as follows :

At Benoy Krishna Choudury Rural Technology Centre of the University different production-cum-training programmes are conducted. Some of them are Vermiculture, Mushroom Production and Training, Pisciculture, Sericulture, Soil & Water Testing, Computer Based Office Management, Short-term-training on maintenance and repair of Electric and Electronics Apparatus, Cultivation and processing of Aromatic and Medicinal Plants, Non-conventional Energy & Application of Solar Energy, Artificial Breeding & Animal Husbandry etc. Under Indo-Japan Cultural Exchange Programme Meghnad Saha Planetarium & Space Science Research Centre has been set up, which provides useful service to the students and the surrounding communities. Crop Research and Seed Multiplication Farm (CRSMF) is working intensively for developing new High Yielding Variety (HYV) seeds of various crops, which could be of immense help not only to the research scholars but also to the farmers of the country.

Another centre i.e. Centre for Interdisciplinary Studies (CIS) has been established under the Faculty of Arts, Commerce, Law etc. for pursuing studies and research in the fields of women, governance, human rights, human development etc. An Interdisciplinary M.Phil. Programme of Studies on Women and alternative programmes for In-service Police Personnel have already been started under the aegis of CIS.

#### **2. New academic Programmes initiated (UG & PG) :**

New academic Programme in P.G. course of studies in Santali has been initiated from the academic session 2009 – 2011. University extended its affiliation to different subjects in 46 colleges in Honours and General courses.

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

Department of Biotechnology is in the process of modifying the syllabus with respect to recent advancement in Biotechnology in industry as well as research throughout the world.

### **4. Interdisciplinary programmes started :**

Development of Technologies like Vermicomposting, Mushroom production through Binoy Krishna Chaudhury Rural Technology Centre, Burdwan University and Sankalpo, an NGO in Burdwan has been started.

### **5. Examination reforms implemented:**

- (i) Semester system has been introduced in all P.G. examinations.
- (ii) All P. G. students are allowed to inspect their scripts, if asked for. The extension of such benefit to the UG students is under active consideration.
- (iii) System of continuous assessment has been introduced in P.G. Examinations.
- (iv) Central assessment system that was in vogue in case of B.A., B.Sc., B.Com final examination has been extended to different postgraduate examination. As a result the publication of different papers/examination has been expedited.

### **6. Candidates Qualified NET/SLET/GATE etc.:**

NET = 34; GATE = 13; GRE/TOEFL – 6; SET – 3

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

The Faculty members are continuously encouraged to share their innovative thoughts and research work by attending National and International Seminar/Symposium in India and Foreign countries, to attend departmental Seminar/Conference/Training programme, to participate in Orientation/Refresher courses, collaborative research programmes and to enjoy Fellowship for Research abroad. The University also extends its full support to the faculty members for obtaining grants through personal research projects.

### **8. Total number of seminar, workshops conducted :**

National Seminar –15, International Seminar–04, Workshop–01, National Conference – 03, International Conference – 05, Symposia – 01, Total– 29

### **9. Research Projects :**

a) Ongoing – 40, b) Completed – 10

## **10. Patents generated, in any :**

Two patents by Prof. Pronab Roy are as follows : (a) “An improved method of optimizing the process of formation in Black Tea Manufacture”; date of grant 27.4.2007 and (b) “A novel bacterium capable of degrading polychlorinated hydrocarbon”, application No. 1269/KOL/2006; date of application 23.11.2006.

One patent has been given to Dr. Udit Chatterjee by the Govt. of India and recorded in the Register of patents on 04.7.2008 for an invention entitled “An optical feedback unit for enhancement of nonlinear frequency conversion efficiency”.

## **11. New collaborative research programmes :**

Professor S. Laskar of Chemistry Department is working with following collaborators : Prof. Thiery Prange, Laboratoire de Cristallographie & RMN Biologiques, UMR 8015 CNRS – Faculte de pharmacie, Observatoire, Paris, France; Prof. Susanta Lahiri, Chemical Sciences Division, Saha Institute of Nuclear Physics, Kolkata; Dr. Rathindranath Baral, Department of Immunoregulation and Immunodiagnostics, Chittaranjan National Cancer Institute, Kolkata; Prof. Sukanta Sen, Department of Botany, Visva-Bharati, Santiniketan; Prof. Amal Kanti Paul, Department of Microbiology, Calcutta University, Kolkata.

Dr. B. Roy of Chemistry Department is working with following collaborators : Prof. Manfred Marschall, Institute for Clinical and Molecular Virology, University of Erlangen – Nuremberg, Germany; Prof. Paul Schnitzler, Department of Infectious Diseases, Virology, University of Heidelberg, Im Neuenheimer Feld, Heidelberg, Germany; Prof. Maria Matulova, Institut of Chemistry, Centre for Glycomics, Slovak Academy of Sciences, Analytical Dept., Bratislava, Slovakia; Prof. Elsa Damonte, Laboratorio de Virologia, Departamento de Quimica Biologica, Facultad de Ciencias Exactas y Naturales UBA, Ciudad Universitaria-Pabellon, Buenos Aires, Argentina.

Dr. S. Bhattacharya of Chemistry Department is working with following collaborators : Dr. Subrata Chattopadhyay, Bio-organic Division, BARC, Trombay, Mumbai; Prof. Anunay Samanta, School of Chemistry, University of Hyderabad; Prof. Hidemitsu Uno, Department of Chemistry and Biology, Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan; Dr. Ajay K. Bauri, Bio-organic Division BARC, Trombay, Mumbai.

Dr. A Basu, Department of Zoology is carrying out collaborative research with Burdwan Medical College and Hospital, Burdwan and Natural Centre for Cell Science, Pune Maharashtra.

Two collaborative research programmes are being run by Dr. S. K. Mukherjee and Dr. P. Saha, Department of Microbiology with Department of Chemistry, B.U.; Department of Botany, B.U. and Goodrick Tea Company.

Department of Environmental Science has collaboration with West Bengal Pollution control board, Department of Fisheries, Govt. of West Bengal; MOEF; Multinational organization like de-Nocil pvt. Ltd.; Ground water board, Govt. of India

## 12. Research grants received from various agencies :

a) From UGC		Rs.	7003183.00
b) From Govt. of India			
ICAR	Rs.	38790.00	
ICCR	Rs.	38353.00	
CSIR	Rs.	1931105.00	
ICSSR	Rs.	123735.00	
MISC	Rs.	576904.00	Rs. 2760637.00
c) From State Government		Rs.	6519339.00
d) From other sources		Rs.	2425716.00
	<b>T O T A L</b>	<b>Rs.</b>	<b>18708875.00</b>

## 13. Details of Research Scholars :

a) Full time –64 (Registered); b) Part time – 52 (Registered)

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

Data not available

## 15. Honors/Awards to the faculty National/International :

- a) Dr. A. Basu, Department of Zoology got DST sponsored Visiting Fellowship.
- b) Library Science  
One International Award (Nomination of IFLA as new generation LIS professional)

## 16. Internal resources generated :

Internal resources that are generated are as follows :

1.(a) Tution fees from students	Rs.	16620740.00
(b) Other fees from students	Rs.	18425533.00
2. Examination fees	Rs.	31858406.00
3. Seat rent from Halls & Hostels	Rs.	1214530.00
4. Electric charges & rent from Residential Buildings	Rs.	2775397.00
5. Sale proceed & other misc. receipts	Rs.	21613437.00
	<b>T O T A L</b>	<b>Rs. 92508043.00</b>

**17. Details of departments getting assistance/recognition under SAP/COSIST/ ASSIST/ DST,FIST and other programmes :**

DRS – History, Sanskrit, Economics & Mathematics; DSA – Physics & Chemistry;

CAS – Bengali (Level – II), and Botany (CAS – I); DST FIST – Physics, Chemistry, Mathematics, Geography and Statistics.

**18. Community services :**

Faculties of various departments are engaged in the Community services such as conducting Regional Mathematical Olympiad 2009, supervising NET/SLET appearing/aspiring candidates, associated with the activities of Paschim Banga Bigyan Mancha, Rural Technology like vermicomposting, Mashroom production, engaged in coaching the SC/ST/OBC students.

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

Teachers – 08

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

1 : 4.82

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

Library upgradation and library automation process is going on for improvements in the library services. The Burdwan University library is taking appropriate steps to computerize house-keeping operation and the work related to Metro-conversion of the library collection.

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

Total books purchased	: 8364 nos.
Value of the books	: Rs. 62,40,039.00
Journals – Foreign – 114 nos.	
Indian – 300 nos.	
Value of the journals	: Rs. 25.00 lakh

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

Student assessment of teachers in all courses have been introduced and it is maintaining in regular basis.

**24. Feedback from stakeholder :**

Not yet started

**25. Unit cost of education :**

Rs. 95,000.00 (Approx.)

**26. Computerization of administration and the process of admissions and Examinations results and issue of certificates :**

University has computerized more or less all the sections of the administration. University has already started issuing computerized admit cards, mark sheets and certificates in respect of all the postgraduate and undergraduate examinations. Moreover, the finance department has already started issuing computerized pay slips, papers related to income taxes to the employees of the University and presentation of data from the grant register of various grants received from various financial agencies, computerized registration and migration certificates are issued to postgraduate, undergraduate students. Details of the University status are also lodged in the University Website and integrated software has already been developed at the Computer Centre including academic information system, college information system etc. The University has implemented a fiber optic computer network in academic campus at Golapbag which connects the Departments of Mathematics, Chemistry, Computer Science, Statistics, Business Administration and Humanities to the Computer Centre. University has also implemented a fiber optic computer network at the administrative campus at Rajbati.

**27. Increase in the infrastructure facility :**

To cope with the rapid increase of students admitted in the PG courses, the University proposes augment the class room space by suitable extension of existing building with the large classroom during the XI Plan period. University decided to construct the multistoried classroom and administrative buildings and offices for different faculties to avoid the scarcity of suitable land.

**28. Technology upgradation :**

To keep pace with the ICT age the University has already started building up the infrastructure for IT. As a first step towards this direction the University has implemented the fiber optic computer network in the academic campus at Golapbag and administrative campus at Rajbati. Moreover, teaching aids like LCD copy viewer, reprographic facilities are provided to various departments.

**29. Computer and internet access and training to teachers/ non-teaching staff and students :**

The University has already lodged its own website ([www.buruniv.ac.in](http://www.buruniv.ac.in)). Computer training are offered to the teachers, non-teaching staff and students on regular interval.

### **30. Financial aid to students :**

10% to 20% full-free and half-free studentship are given to the students belonging to low income group. Moreover, financial assistance is also extended to the students from students aid fund.

### **31. Activities and support from the alumni association :**

The present strength of alumni membership is 6282. The main activity and support from the alumni association to the University are : (a) to extend the financial assistance towards infrastructural improvement, to provide financial assistance to the poor but meritorious students and medical exigencies scheme, donation to Chief Minister's relief fund, (b) to publish annual news and monthly report to acquaint the alumni about the activities of the Burdwan University Alumini Association (BUAA). Besides this, future activities include campus beautification gardening and so on.

### **32. Activities and support from the parent-teacher association :**

University teachers' association (BUTA) takes up the need of the departments from time to time.

### **33. Health services :**

The University Health Centre from its very inception is offering outdoor services to the students, research scholars, university employees and teachers including the family members. Now the Health Centre has the facility of the treatment for Cardiology, Gynecology, Homeopathy, Eye and Dental unit along with supply of medicine. Pathological, X-ray, E.C.G., Physiotherapy and U.S.G. investigation units are also available. One Pulmonary Function Test unit is also available. Family Welfare and immunization programme supported by the Burdwan Medical College have been started from 12.11.1992 which serves not only the University Employees but also the people of the locality. Near about 15,000 patients have been served during last one year. Pulse Polio immunisation programme has also been conducted with the co-operation of Burdwan Medical College.

### **34. Performance in sports activities :**

The performance in sports activities of the University of Burdwan during the year 2008 – 2009 is as follows : Men team got 1<sup>st</sup> position and Women team got 2<sup>nd</sup> position in the East Zone Inter-University Table Tennis Tournament. Men team got 1<sup>st</sup> position in the All India Inter- University table tennis tournament. Men team got 2<sup>nd</sup> position and Women team got 3<sup>rd</sup> position in the East Zone Inter-University Table Tennis Tournament in the year 2009 – 2010.

Men team got 1<sup>st</sup> position in the West Bengal Inter-University Football tournament (Vidyasagar Trophy). Men team got 3<sup>rd</sup> position in the East Zone Inter-University Football tournament both in the years 2008 – 2009 & 2009 – 2010.

The University cricket team got 2<sup>nd</sup> position in the West Bengal Inter-University Cricket Tournament in the year 2008 – 2009 & got 1<sup>st</sup> position in the East Zone Inter-University Cricket Tournament 2009 – 2010. The University Basketball Men team got 3<sup>rd</sup> position in the East Zone Inter-University Basketball Tournament in the year 2009 – 2010.

### **35. Incentives to outstanding sportspersons :**

University level/State level players are given preference in admission to Master degree course. East Zone Inter-University Champion team and individuals were given track suits and cash prizes. All India Inter-University position holder team and individuals were given blazers and cash prizes.

### **36. Students achievements and awards :**

On an average 90 – 95% students after passing the final examination, 40 – 50% students are getting qualified for the fellowship or CSC through NET, SET, GATE and judicial or other services to the Govt., employment in B.A.R.C. and other research organizations. Rest of the students are getting jobs in schools through SSC and in private companies.

### **37. Activities of the guidance and counseling unit:**

A large number of PG students are given career guidance and counseling for going abroad and taking professional courses of their choices as well as opting for job opportunities for their respective subjects.

### **38. Placement services provided to students :**

Two types of placement services are provided. For example, off campus – students are sent to the various companies for interview and after passing the interview they are absorbed in services.

Various companies are invited to conduct the campus interviews for MBA, MBA (Tourism), MBA (HRA), Biotechnology, Microbiology etc. and the selected students are offered jobs by the respective concern.

### **39. Development programmes for non-teaching staff :**

The administrative officers, supervisory staff and other employees are getting computer training for improving the personal efficiency. Besides this the officers and the staff attend various seminars for improving their professional activities in the field of regular office work.

### **40. Good practices of the institution:**

Following free services are often given to the society by the University :

a) Free Homeopathy treatment with medicine through NSS;

- b) University Health Centre offers outdoor services such as Family Welfare and immunization programme, Pulse Polio immunization program;
- c) Notification on various information of the University, Forms for admission in different courses through University Web-site;
- d) Many teachers participate in various public awareness programmes through meeting, seminar etc.;
- e) University Authority always looks upon the requirements/queries of the students out comers/guardians, and try its best to solve the problem;
- f) Cultural team of the University through its cultural programmes not only creates excellent aenbience in the university but also generates awareness among socially weaker section of the society.

#### **41. Linkages developed with National/International, Academic/Research bodies:**

Faculty members of the various departments are working with researchers in our country and abroad under collaborative research programmes with institutions like Indian Institute of Science, Bio-informative Centre, National Centre for Cell science, Third World Academy of Sciences, National Centre of Antarctic and Ocean Research , BARC and so on. Some of the faculty members are working on consultancy projects. Under the memorandum of understanding (MOU) between two institutions like the University of Heidelberg through its South Asia Institute and the University of Burdwan established a formal understanding of co-operation and friendship for implementing the following endeavors and exchange of materials and personnel :

(i) Exchange of faculty members, (ii) Interdisciplinary and result – oriented joint research activities, (iii) Participation in seminars and academic meetings, (iv) Exchange of academic materials and other information, (v) Special short term Academic programme with a special emphasis on the promotion of younger academic scholars.

#### **42. Action taken report on the AQAR of the previous year:**

The previous report of the AQAR were placed before the then executive committee and after a threadbare discussions amongst the members present it was resolved that the suggestions given by the committee members of NAAC Peer Team should be circulated to the departments for information and necessary steps be taken to run the university for achieving its goal.

#### **43. Any other relevant information the institution wishes to add:**

TWAS an autonomous international organization, based in triesta, Italy that promotes scientific excellence for sustainable development in the South has nominated 2009 TWAS prize in chemistry to be shared by Dr. Swapan Kumar Ghosh, an ex-student of Chemistry Department of this University and now working at BARC.

**Section C : Outcomes achieved by the end of the year (attach separate sheet if required) :**

Apart from taking regular classes teachers are getting interested in preparing personal projects. Moreover, a good number of Departments have applied for obtaining financial assistance under DRS, FIST programmes. Number of students appearing in different competitive examinations is increasing day by day, and at the same time the success rate is also gradually increasing with the inspiration and motivation of the teachers. The academic administrators and employees have extended their co-operation in motivating the teachers and students towards different healthy practices. As a whole the entire academic and administrative activities are getting momentum in the Golden Jubilee year ( from June 2009 to June 2010) of the university.

**Section D : Plans of the HEI for the next year :**

Proposed plans of the HEI for the next year are as follows

- a) All the data whenever ready must be lodged into University Website;
- b) Internet connectivity should be implemented in between the university & affiliated colleges;
- c) Introduction of interdisciplinary courses of studies among the PG departments;
- d) Rejuvenation of Main Library & construction of Golden Jubilee Building.

*(Professor Arobinda Kumar Das)*  
*Director, IQAC*  
*Burdwan University*

*(Professor Subrata Pal)*  
*Chairperson, IQAC*  
*Burdwan University*