

The Annual Quality Assurance Report (AQAR) of the IQAC

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|-------------------------------------|---|---------------------------------|
| Name of the Institution | : | VIDYASAGAR UNIVERSITY |
| Name of the Head of the Institution | : | Prof. Swapan Kumar Pramanick |
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| Name of the IQAC Co-ordinator | : | No IQAC Coordinator was there. |
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| Office | : | Cell looked after and monitored |
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Year of Report: 2003-2004

Part A:

The plan of action chalked out in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

1. Starting of new courses:

- a) M.Sc. in Aquaculture Management Technology
- b) M.Sc. in Remote Sensing & GIS
- c) PG Diploma in Family Welfare
- d) Microbiology, Biotechnology, Computer Science, Computer Application in UG Colleges

2. To organize Refresher Courses for development of the faculty.

3. Computer literacy / awareness programmes will be taken up to develop the skill of teachers, students as well as the non-teaching employees of the University.

4. To augment research activities.

5. To fill up the vacant teaching position.

Part – B

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

The University is situated in the rural and tribal belt of the state of West Bengal. The subjects taught here have the tint of that orientation – Economics with Rural Development, Political Science with Rural Administration, Commerce with Farm Management etc. in the Arts and Commerce Faculty. In the Science faculty the subjects like Remote Sensing & GIS, Aquaculture, Computer Science, Biotechnology have been added keeping in mind the frontier areas of scientific development and job opportunities created there.

The University is working towards the achievement of the mission and fulfillment of the objective of development of human resources by dissemination of knowledge and creation of knowledge based society.

2. New academic programmes initiated (UG & PG)

The following new academic programmes have been initiated during this year:

- (i) M.Sc. in Aquaculture Management Technology.
- (ii) M.Sc. in Remote Sensing and GIS.
- (iii) PG Diploma in Family Welfare
- (iv) In UG Colleges new subjects like Microbiology, Biotechnology, Computer Science, Computer Applications and Physical Education have been opened.

The University granted temporary affiliation for 2-year Diploma course in Ophthalmic and Clinical Assistance to Vivekananda Mission Ashram and Bachelor of Physiotherapy and Bachelor of Medical Laboratory to College of Paramedical Sciences, Haldia.

3. Innovations in curricular design and transaction:

The University has presented proposals under the programme of Innovative Courses Scheme to the UGC in the following Emerging Areas; B.Tech and M.Tech in the Department of Electronics; Production and Application of Biofertilizer and M.Sc. in Microbiology, Aquaculture Management & Technology, M.Sc. in Medical Laboratory Technology and also in the area of Remote Sensing and Geographic Information System. The presentations have been made and our faculty is hopeful about a positive outcome.

4. Inter-disciplinary programmes started:

The following interdisciplinary programmes were started.

- (i) M.Sc. in Aquaculture Management Technology.
- (ii) M.Sc. in Remote Sensing & GIS.
- (iii) PG Diploma in Family Welfare.

5. Examination Reforms Implemented:

It is proposed to implement decentralization of UG evaluation system.

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

| NET | SLET | GATE |
|-----|------|------|
| 28 | 04 | 30 |

7. Initiatives towards faculty development programme.

The Computer Centre conducted number of programmes for development of computer literacy amongst the faculty members.

| | |
|--------------------------|--------------------------------|
| No. of courses conducted | No. of faculty members covered |
| 02 | 28 |

Besides this Refresher Courses were also organized with the fund received from UGC for development of the faculty.

8. Total no. of seminars / workshop conducted

| <i>Sl.No.</i> | <i>Date & Duration</i> | <i>Department</i> | <i>Topic</i> |
|---------------|----------------------------|---|--|
| 1 | 30 April 2003 | History | Workshop on "India and the Contemporary World: 1947-1964" |
| 2 | 5 September 2003 | Chemistry & Chemical Technology | National Seminar on "Laser Spectroscopy and Photodynamic Techniques and Application" |
| 3 | 18-19 November 2003 | Library & Information Science | National Seminar on "Information Support for Rural Development" |
| 4 | 13 February 2004 | Vidyasagar University Officers' Association | National Seminar on "Total Quality Assurance in Governance of Higher Education in India" |
| 5 | 9-13 February 2004 | Geography and Environment Management | Workshop on "Remote Sensing and GIS: Fundamental and Applications" |

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|---|------------------|--|---|
| 6 | 14 February 2004 | Commerce with Farm Management | National Seminar on “Business Environment – a changing scenario.” |
| 7 | 10-11 March 2004 | Bengali | National Seminar on “Post Modernism – O – Banga Sahitya” |
| 8 | 18-19 March 2004 | Applied Mathematics with Oceanology & Computer Programming | National Seminar on “Recent Advances in Applied Mathematics” |
| 9 | 30-31 March 2004 | Economics with Rural Development | National Seminar on “Development of Social Sectors in India” |

9. Research Projects : Newly implemented

| <i>Name of the Dept.</i> | <i>Title of the Project</i> | <i>Sponsoring Agency</i> | <i>Amount</i> |
|--------------------------------------|---|--------------------------------|-----------------|
| Applied Mathematics | Some parallel algorithms on intersection graphs | DST GOI | Rs. 1.92 lakhs |
| Zoology | Artificial propagation of mud crab, <i>Scylla serrata</i> in the fibre glass aquaria. | Dept of Forest, West Bengal | Rs. 5.90 lakhs |
| Biomedical Lab. Science & Management | Antidiabetic efficacy of seed extract of <i>Musa paradisiaca</i> leaf and leaf extract of <i>Agar</i> in streptozotocin treated albino rats. | UGC | Rs. 8.60 lakhs |
| Physics | MODROBS (modernization of labs) | AICTE | Rs. 14.50 lakhs |
| Zoology | Municipal Waste recycling through vermitechnology in Digha Tourist Complex | Digha Development Authority | Rs. 1.51 lakhs |
| Zoology | Studies on the effect of vermicompost developed from indigenous vermitechnology for promoting sericulture through empowerment of rural women of South West Bengal | DBT GOI | Rs. 5.0 lakhs |

Research Projects : Completed

| <i>Name of the Dept.</i> | <i>Title of the Project</i> | <i>Sponsoring Agency</i> | <i>Amount</i> |
|--------------------------|---|--------------------------|-----------------|
| Applied Mathematics | Development of Genetic Algorithm and its application to Crism Stochastic Fuzzy and Fuzzy-Stochastic Inventory and Production Problems | DST GOI | Rs. 7.31 lakhs |
| Applied Mathematics | Development of an Expert System for Inventory control Management using Fuzzy Logic | AICTE | Rs. 4.6 lakhs |
| Zoology | Intestinal absorption and incorporation of Protein in Indian Major Carp (<i>L. rohita</i> , Ham.) and air breathing fish (<i>Clarias batrachus</i> , Linn.) | ICAR | Rs. 17.21 lakhs |
| Zoology | Participatory Development of Aquaculture with SC/ST people in Pits or Khadan of China Clay mines of Birbhum District, WB | DST & NES, WB | Rs. 1.42 lakhs |

| | | | |
|--------------------------------------|---|---------|-----------------|
| Biomedical Lab. Science & Management | Contraceptive efficacy of leaf extract of <i>Stephania hernandifolia</i> in male rat | ICMR | Rs. 4.80 lakhs |
| Biomedical Lab. Science & Management | Protective effects of seed extract of <i>Tamarindus indica</i> on diabetes mellitus in male albino rat | DST GOI | Rs. 13.97 lakhs |
| Biomedical Lab. Science & Management | Effect of Cyclophosphamide on female reproductive system in rat | UGC | 0.45 lakhs |
| Microbiology | Production of Bacterial Tannase | UGC | Rs. 6.0 lakhs |
| Physics | Investigation on the toroidal discharge development in axial magnetic field | DST GOI | Rs. 12.40 lakhs |
| Physics | Development of some new methods for preparing learning materials of Physics Experiments for distance students | IGNOU | Rs. 1.55 lakhs |

10. Patents Generated (if any):

NIL

11. New collaborative Research Programmes:

Existing collaborative research programmes are continuing.

12. Research Grants received from various agencies.

| <i>Name of the Dept.</i> | <i>Funding Agency</i> | <i>Grants received</i> |
|--------------------------------------|-----------------------|------------------------|
| Applied Mathematics | DST, GOI | Rs. 1.92 lakhs |
| Biomedical Lab. Science & Management | UGC | Rs. 8.60 lakhs |
| Physics | AICTE | Rs. 14.50 lakhs |
| Zoology | Dept. of Forest, W.B. | Rs. 5.90 lakhs |
| Zoology | Digha Dev. Authority | Rs. 1.51 lakhs |
| Zoology | DBT, GOI | Rs. 5.0 lakhs |

13. Details of Research Scholars:

| <i>No. of Research Scholars Registered for Ph.D.</i> | <i>No. of Research Scholars Awarded Ph.D.</i> |
|--|---|
| 56 | 42 |

14. Citation Index of Faculty Members and Impact Factor:

The faculty members have published research papers in refereed journals of high Citation Index and the highest Impact Factor recorded during the year was 3.902.

15. Honours and Awards to the Faculty:

Dr. Debidas Ghosh of the Department of Human Physiology has been selected as Consultant in the field of Biomedical Sciences of the Gerson Lehrman Group, New York. He has also been selected for UGC, Research Award for 3-years.

Dr. Chandradipa Ghosh of the Department of Human Physiology was awarded Post-doctoral Fellowship at Department of Microbiology and Immunology, University of Texas, Health Science Centre at San Antonio.

16. Internal Resources Generated:

Measures are being initiated to generate internal resources by way of introducing affiliation charges and introduction of self financing courses.

17. Details departments getting SAP, COSIST/ DST / FIST etc. assistance / recognition:

The following departments have received financial assistance and DST (FIST) Programme.

| <i>Sl.No.</i> | <i>Name of the Dept.</i> | <i>Amount of Assistance</i> |
|---------------|--|-----------------------------|
| 1 | Chemistry & Chemical Technolgy | Rs. 30.00 lakhs |
| 2 | Human Physiology with Community Health | Rs. 30.00 lakhs |
| 3 | Zoology | Rs. 36.00 lakhs |
| 4 | Remote Sensing & GIS. | Rs. 30.00 lakhs |

18. Community Services:

The NSS unit of the University takes up different social service oriented programmes throughout the year like AIDS awareness, Pulse Polio awareness, sanitation, etc.

19. Teachers and officers newly recruited :

| <i>Teachers/Officers</i> | <i>Department</i> | <i>Number</i> |
|--------------------------|-------------------|---------------|
| Lecturer | Anthropology | One |
| Lecturer | Geography | One |
| Dy. Registrar | Registrar Dept. | One |

20. Teaching and non-teaching ratio:

| <i>Teachers</i> | <i>Non-teaching</i> | <i>Ratio</i> |
|-----------------|---------------------|--------------|
| 84 | 137 | 1:1.6 |

21. Improvement in Library services :

The University Library has created a database of books through CCF format. It is now fully computerized. The library has procured SOUL, (Software for Univ. Libraries) a package developed by INFLIBNET. Online research service through OPAC is also available to the users of the library. Central Library has renewed the Institutional Membership of the IIT Library, Kharagpur and British Council Library, Calcutta.

22. New Books / Journals subscribed and their cost :

The books and journals purchased during the year is as follows:

| <i>Books</i> | <i>Journals</i> |
|----------------|-----------------|
| Rs. 1283730.00 | Rs. 71568.00 |

Although there has been a substantial increase in the amount spent for books as compared to that in previous year (Rs. 836060.00) there has been some decline in the same for books.

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

The student assessment of teachers has not been introduced. However it is under consideration.

24. Unit cost of education :

| <i>Unit Cost of education (including salary component)</i> | <i>Unit cost of production (excluding salary component)</i> |
|--|---|
| Rs. 33713.00 | Rs. 16902.00 |

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

The admissions, examinations and results are fully computerized. However, Computerization of other administrative wings are in the offing.

26. Increase in Infrastructural Facilities:

Existing infrastructural facilities have further been consolidated.

27. Technology upgradation:

Main technology upgradation has taken place in the automation of library. Computer laboratory of Botany Department under FIST Programmes which has been started in 2002-2003 has been further consolidated.

28. Computer and Internet access and training programme to teacher and students:

This year 3 computer literacy programmes for students and 2 such programmes for teachers have been organized. 60 students and 28 teachers have benefited in the process.

29. Financial aids to student:

28 poor and meritorious students have been given financial assistance in the form of full freeship. Total assistance amounted to Rs. 26,3.60/-.

30. Support from the Alumni Association :

There are Alumni Association in some departments but no noteworthy support is available from them.

31. Support from Parent-Teachers Association:

There is no such association.

32. Medical / Health services:

University has a medical unit. An allopathic full time medical officer is in charge of that. A homeopathic medical officer attends the unit twice a week. It provides emergency medical attention to patient and provides medical advice to the University Community as and when needed.

33. Performance in Sports Activities of University:

The University football team participated in East Zone Inter-varsity football competition held in Calcutta and qualified for All India Inter-varsity competition.

University Swimming team participated in the All India Swimming tournament.

34. Incentives to outstanding sportspersons:

Apart from certain reservations in admission process there is no other incentive.

35. Students Achievements and Awards:

2 Ph.D. scholars of our University of the department of Zoology and Anthropology were honoured with Junior Scientist Award by National Environmental Science Academy and by National Science Congress respectively for the year 2003.

2 students have secured 2nd and 3rd rank respectively in clay modelling and in group song at the All India Inter-varsity Cultural Competition held at Jiyaji University, Gwalior.

36+37. Activities of Guidance and Counselling Cell and Placement Services provided to students.

There is no such cell, but the DSW regularly provides counselling to the students.

38. Development programmes for non-teaching staff:

In order to develop the computer skill of the non-teaching staff the computer courses of different modules were organized

| <i>No. of courses organized</i> | <i>No. of employees benefitted</i> |
|---------------------------------|------------------------------------|
| 03 | 42 |

39. Best Practices of the Institution:

The best practices of the University may be marked as the discipline, dedication and above all the love for education of the teachers, students and the non-teaching employees that got recognition by the UGC Team (Xth Plan) in the statement “The Committee is unanimously of the opinion that University’s performance is highly commendable despite the constraints of manpower, library, working space and financial resources.

40. Linkages developed with National / International, academic, research bodies:

(i) The department of Anthropology is continuing a collaborative research with Orissa based institutes on Social Exclusion of Tribes and Castes, a project funded by DFID.

(ii) Prof. P. K. Mahapatra of department of Physics has been carrying on a collaborative research programme with Howard University, USA in Solid State Physics.

41. Any other relevant information :

UGC Team for Xth Plan strongly recommended that the University be provided with more funds to augment its resources of faculty strength, laboratory equipment, library and building so that it may realize its full potentials.

UGC has made allocation of Rs. 300 lakhs as development assistance under the Xth Plan period. This includes the creation of 23 faculty positions in 18 different subjects.

Part C:

Details of the plan of the Institution for the next year.

The following plan has been chalked out towards quality enhancement for the next year (2004-2005)

1. Preparation of uniform academic calendar in all undergraduate affiliated colleges.
2. Initiation of more interdisciplinary courses.
3. Starting of Master degree in Medical Laboratory Technology.
4. Starting of PG Diploma in Psychological Counselling.
5. To encourage academic departments to submit proposals for FIST, SAP etc.
6. To strengthen the faculty resource by way of new recruitments.
7. To introducing academic auditing in the affiliated colleges.

Name & Signature of the Coordinator, IQAC

Name & Signature of the Chairperson, IQAC