

The Annual Quality Assurance Report (AQAR) of the IQAC

**Name of the Institution: Jankidevi Bajaj College of Science,
Wardha -442001 (M.S.)**

Year of Report: 2010-11

Part A:

Plan of action chalked out by the IQAC in the beginning of the year (2010-11) towards quality enhancement and the outcome achieved at the end of the year.

Following is the 19 point Plan of action chalked out by the IQAC in the beginning of the year (2010-11) towards quality enhancement and its outcome achieved at the end of the year.
(Note: Outcome typed in *italics*.)

1. To start new courses

(a) M.Sc.I Zoology (b) M.Sc.I Biotechnology

The college has started two PG courses M.Sc.I Zoology and M.Sc.I Biotechnology from session 2010-11.

2. To conduct two unit tests and annual test exam for all classes.

College conducted two unit tests and an annual test exam for all classes. After the exams, teachers discussed problems, methods, way of writing, improvements etc with the students.

3. To give assignments to students.

Subject assignments were given to students.

4. To organize student seminars.

Subject wise student seminars were conducted for all the classes.

(No. of seminars: UG =244 , PG= 133)

5. To arrange Popular lectures and guest lectures.

College arranged following popular and guest lectures in various departments.

Chemistry- Dr. Paliwal, Dr. Berad, Dr K B Kariya, Nagpur;

Dr Kamble, Nanded, Dr Dhondge, Kamptee, Dr Jamode, Amravati

Micobiology- Dr. Atul Kulkarni, Nagpur, Dr Pratibha Narang, Sewagram -

*Biotechnology- Dr C B Powar, Dr K Roychoudhari, (All Nagpur), Dr Pratibha Narang
Sewagram, Dr S D Patankar, Ballarpur Dr J B Chawla Bhandara.*

*Botany- Dr Gogulwar, Gadchiroli. Shri. Mulchandji Badjate (Herbs and yoga)
Dr. Soham Pandya, Dr. K.N. Sathanathan, Chennai.*

Zoology- Dr. Y A Gadhikar, Dr. M. M. Baig, Amravati

Mathematics- Dr Ramesh Tikekar, Pune.

Dr. D. B. Patil - National Science day

6. To arrange Educational Excursions for U.G. and P.G. students in Diwali vacations.

Following educational excursions were organised

*Chemistry- National Environmental Engg research Instt (NEERI) and Central Instt of
Cotton Research Nagpur were organized.*

*Botany- Centre of sciences for villages, Dattapur,
Dhaga forest and mahakali dam*

M/B and Biotech - NEERI and CICR NAGPUR , MGIMS Sewagram.

7. To provide internet facility to all departments and enhance its use

Internet facility is provided to every department.

8. To promote research work , paper publication, paper presentation.

Faculty published 23 research papers in National and International journals.

9. To undertake Scientific Innovations / Projects / activities.

Ongoing Minor research projects =3

Ongoing Major research projects = 2

New proposals for MRPs will be sent to UGC

10. To utilize the UGC XI th plan grants, CPE grants for development of infrastructure, laboratories, and general development.

The following grants have been received and used for development of infrastructure, laboratories, and general development.

CPE grant 50,00,000, (First instalment of sanctioned grant of Rs. 1 crore)

Laboratory safety grant 35,00,000,

Merged scheme 5,50,000

UGC XI plan development grant and Building grant = 8,00,000 + 8,00,000 = 16,00,000

(M/B laboratory construction grant first installment 4,00,000 out of building grant of Rs 8,00,000)

International year of Chemistry grant 1,00,000

11. Construction of woman's hostel

Grants received for girls hostel = 20,00,000. Contruction of woman's hostel is in progress.

12. To purchase new advanced instruments for laboratories.

Following instruments are purchased in different departments:

Zoology- Hot air oven, incubator, distillation plant, cooling centrifuge, deep freezer, soil and water analysis kit, trinocular research microscope.

Botany- Trinocular research microscope with photographic attachment. Binocular Research microscope, Plant growth chamber. Two Olympus resrarch microscope.

Chemistry- Flame photometer, digital electronic balance, fourier transform infrared spectrophotometer.

Physics- Oscilators, spectrometer, power supply.

13. To enroll for Inflibnet facility and purchase new books in Library.

The college has enrolled for annual membership of INFLIBNET N.LIST program. This program enables our faculty and students to access more than 2100 e-journals, more than 51,000 e-books.

College Library has added more than 600 books in its collection.

14. To organize a workshop on computer and internet access for teaching and non-teaching staff.

Computer department has organized a workshop on e-learning and computer awareness for teaching and non-teaching staff.

15. To enhance sports-activity and arrange Summer coaching in sports.

19 students were selected in Nagpur University/ Maharashtra state team.

Summer coaching in sports was arranged.

16. To maintain Academic Diary for teachers.

All the teachers maintained academic diaries.

17. To develop and maintain Botanical Garden and Biodiversity park of rare plants.

Botanical Garden Biodiversity park of rare plants was developed and maintained.

18. To organize National seminar.

A National seminar "Innervate 2010" on "Life science technologies: An emerging frontier" was organized on 26th Dec. 2010.

19. To get the laboratories approved by university for research work.

The College has sent Proposal to RTM Nagpur university for approval of chemistry laboratory as research centre.

Part B:

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

The college holds seminars ,workshops, guest lectures and extension activities such as NCC, NSS, CWSS, PEC , Teachers-parents meet ,

NCC activities: Tree plantation, Haritam rally, Liquor prohibition rally.

NSS activities: Health camp for villagers for detection of sickle cells anaemia, Blood group detection, Congress grass eradication and cleanliness drives, Rural camp

PEC and CWSS activities: International Literacy day programme, World population day programme , Aids awareness programme.

2. New academic programmes initiated (UG & PG):

Following new PG courses started in 2010-11

(a) M.Sc.I Zoology

(b) M.Sc.I Biotechnology

3. Innovation in curricular design and transaction:

Faculties who are members of Board of Studies of RTMNU, participate actively in designing / modifying the curriculum.

4. Inter-disciplinary programmes started:

Nil.

5. Examination reforms implemented:

Nil. Since the college is affiliated to RTM Nagpur University, its Exam pattern needs to be followed).

6. Number of Candidates qualified NET/SET :

One student (Sumit Kumar Singh) qualified NET in Chemistry

7. Initiative towards faculty development:

Two teachers (Prof. S.H. Bagade, physics and Mrs. N.P. Mohabansi) completed refresher courses.

8. Total number of Seminars / Workshops Conducted:

- (i) National seminar INNERVATE 2010 (Life Science Technologies: An Emerging Frontier
- (ii) Two day Work shop on herbal product preparation was organized by Botany dept.
- (iii) Work shop on e-learning and computer awareness.
- (iv) 'Sewankur' – A work shop on moral value education by Dr. Avinash Saoji, Amravati

9. Research projects:

- a) Newly implemented: b) Completed :

a) Newly implemented: Nil .

b) Completed : 05 MRPs

c) Ongoing : 02 MRP and 02 Major Research Projects.

10. Patents generated , if any :

Nil

11. New collaborative research programmes:

Nil.

12. Total research grants received from various agencies.

Grant received from UGC for MRPs	=	Rs. 6,50,500
Grant received from UGC for Major R.P.s	=	Rs. 8,67,800
Total	=	Rs. 15,183,00

13. Details of research scholars:

05 teachers are working for Ph.D.

14. Citation index of faculty members and Impact factor:

Nil.

15. Honors/Awards to the faculty:

Nil

16. Internal resources generated:

From No-grant courses:

Course	Receipts	Expenditure	Balance (Rs)
M.Sc.(Botany)	230592	174605	55987
M.Sc.(Chem.)	813779	629511	184268
B.Sc.(C/S)	1259900	962959	296941
B.Sc. (B/T)	971932	671750	300182
M.Sc. (M/B)	697407	536897	160510
M.Sc. (Zoo)	76860	21723	55137
Total			1053025

17. Details of departments getting SAP, COSIST(ASSIST) /DST, FIST, etc assistance/recognition:

Nil.

18. Community services:

Community services: NSS, NCC, PEC, Teachers-parents meet and CWSS

NCC activities: Tree plantation, Haritam rally, Liquor prohibition rally.

NSS activities: Health camp for villagers for detection of sickle cells anaemia, Blood group detection, Congress grass eradication and cleanliness drives, Rural camp

PEC and CWSS activities: International Literacy day programme, World population day programme, Aids awareness programme.

19. Number of teachers and Officers Newly recruited :

Two teachers have been newly recruited .

20. Teaching – Non-teaching staff ratio:

29 : 50

21. Improvements in the library services.

INFLIBNET N-LIST Program

Open access to PG students.

Bar-coding of Library books.

Computers with internet.

22. No. of new books / journals subscribed and their value:

No. of new books added = 839 . Value Rs. 2,11,393

Journals continued = 27 Value Rs. 71469

23. No. of courses for which students assessment of teachers is introduced and the action taken on student feedback:

Students feedback of all teachers for all the courses was taken from students. Strong and weak points of the teacher were brought to his/her notice by the Principal/ Management for improvement.

24. Unit cost of Education:

Unit cost of Education including salary is Rs. 60353 and

Unit cost of Education excluding salary is Rs. 1605

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

CMS software for Admission , Issue of certificates, TC, bonafied certificate.

Administration, Exam results, salary, GPF, scholarships, IT forms and accounting are computerized.

26. Increases in the infrastructure facilities:

07 new classrooms constructed.

Bio-tech laboratory is under construction with grants from Shiksha-Mandal.

M/B laboratory construction to be started with grants from UGC(sanctioned 8,00,000 received 4,00,000).

27. Technology upgradation:

New Computers, Legal software, Printers, Scanner, purchased.

Following advanced instruments are purchased in different departments:

Zoology- Hot air oven, incubator, distillation plant, cooling centrifuge, deep freezer, soil and water analysis kit, trinocular research microscope.

Botany- Trinocular research microscope with photographic attachment. Binocular Research microscope, Plant growth chamber. Two Olympus research microscope.

Chemistry- Flame photometer, digital electronic balance, fourier transform infrared spectrophotometer.

Physics- Oscilators, spectrometer, power supply.

28. Computer & Internet access & training to teachers & students:

Computer & Internet access and training to teachers & students is available at Computer science Dept. Internet access to teachers & students is available in library also.

29 Financial Aid to students:

Scholarships sanctioned from GOI for all B/C Students and girl students worth Rs. 16,22,190 has been disbursed to 328 students.

30. Activity and Support from Alumni association :

A guest lecture on “Water quality and treatment” by Dr. Prakash Patni, Scientist, NEERI, Nagpur was organized on 11 Apr 2011 by Alumni association.

31. Activity and Support from Teachers Parent association :

Teachers Parent Meet was held , in which healthy discussion on teaching learning aspects were held. Feedback from parents was taken.

32 Health services:

Health Insurance facility is made available for all students.

First-aid kits are given to every department.

33. Performance in Sports activities:

No. of students represented RTM Nagpur Uni. and Maharashtra state in Handball =
 $04 + 04 = 08$

No of students represented RTM Nagpur Uni. and Maharashtra state in softball =
 $04 + 01 = 05$

No of students represented RTM Nagpur Uni. and Maharashtra state in ball badminton
 $= 03 + 01 = 04$

No of students represented RTM Nagpur Uni. In Hockey = 01

No of students represented RTM Nagpur Uni. In Football = 01

Handball team is winner of Nagpur Uni. gold medal.

Ku Lakshmi Ghale secured gold medal in all India inter uni. Handball tournament.

34. Incentives to outstanding sportspersons:

Tracksuits and travel bags are given to outstanding sportspersons.

35. Students Achievements & Awards:

Two students of physics department won prize in university level seminar

Second prize to A. Sonawane in inter collegiate seminar at ASC Arvi.

36. Activities of Guidance and counseling unit:

Display of Advertisements. About 100 students were counseled for career and competitive examinations. A lecture on career guidance by shri. Pasha was arranged.

37. Placement services provided to students:

Seven students selected in Vijay Nirmal Construction company Nagpur.

38. Development programme for Non-teaching staff:

A workshop on computer awareness for non-teaching staff was organized.

39. Healthy Practices of the Institution:

- Use of A/V aids for teaching.

- Student and staff Participation in social, cultural, curricular and extra-curricular activities.
- Various Committees for college activities.
- Maintenance of academic diaries by teachers (include teaching plan).
- Review of Academic diaries by HOD and Principal.
- Educational tours.
- Teachers' feedback by students. Reviewed by Principal and management.
- Unit tests, and annual test exam for all classes
- Student Aid-fund.
- Extension activities such as NCC, NSS, CWSS, PEC etc.
- Work culture is inculcated by conducting cleanliness drives, tree plantation etc.
- Dress code for students.
- Remedial teaching in English
- Students seminars.

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

41. Any other relevant information the institution wishes to add:

- The college is conferred with "The College with Potential for Excellence (CPE)" status by the UGC in 2010. The college is sanctioned a grant of Rs. 1 crore. for enhancement in academic facilities. Out of this, the college has received a grant of 50 lakh in 2010. The grant is being utilized for the said purpose.
- G.K. test by Shiksha Mandal for all students of the college is conducted every year.
- Earn while learn program.
- Ten approved Ph. D. supervisors.
- Proposal has been sent to RTM Nagpur Uni. For college labs to be approved for research (Ph.D.) work.
- Collaboration with NGOs (Dharamitra, Magan Sangrahalaya, MGIRI) for development of research and knowledge sharing.
- Play ground development from district sport authority.

Part C :

Plans of the institution for the next year (2011-12)

1. Proper Utilization of the grants received under CPE status for enhancement in academic facilities.
2. Proper utilization of 'Merged scheme grants' (12.5 lakh sanctioned, 5.5 lakh received).
3. Proper utilization of 'Laboratory safety grants' (35 lakh sanctioned, 35 lakh received).
4. Construction of girl's hostel (40 lakh sanctioned, 20 lakh received)
5. Construction of M/B lab (8 lakh sanctioned, 4 lakh received)
6. To start teaching from the very first day of opening of College for B.Sc. I, II , III and immediately after admission for M.Sc. Classes.
7. Test and Terminal examination for all Students as per previous year.
8. To start M.Sc II in Zoology and Biotechnology.
9. To arrange some popular lectures guest lectures in various subjects.
10. To send new proposals for Major and Minor R.P. to UGC.
11. To form students-teacher clusters for giving more personal attention to students.
12. Plan to purchase legal software, advanced computers, printers.
13. Plan to purchase advanced equipments in laboratories.
14. Beautification of campus
15. Remedial coaching for weak students.
16. To organize a national seminar.
17. To send proposals to UGC for career oriented add-on courses

**Name & Signature of the
Coordinator, IQAC**

**Name & Signature of the
Chairperson, IQAC**