



GOVERNMENT OF MAHARASHTRA
INSTITUTE OF SCIENCE

(Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad)

Nipat Niranjana Nagar, Caves Road,
Aurangabad- 431 004, Maharashtra

ANNUAL QUALITY ASSURANCE REPORT

2008-2009

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
(An autonomous institution of University Grants Commission)

P. O. Box No. 1075, Opp. NLSIU, Nagarbhavi, Bangalore – 5600 072,
Karnataka



Annual Quality Assurance Report (AQAR) of the IQAC

Academic Year
2008-2009

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. Approaching towards goals and objectives of the Institute with implementable solutions.
2. Encouraging the faculty members to contribute to syllabi designing and revision.
3. Motivation of the teaching staff in participation in faculty development programmes.
4. Organization of and participation at seminars/workshops/conferences at the state and national level.
5. Focus on mobilization research activities carried out by staff and students.
6. Providing consultancy services to industries and institutions.
7. Motivating faculty members and students to participate in extension activities and community services.
8. Submitting proposals to the Public Works Department for maintenance/repairs/construction of facilities in the Institute premises.
9. Inviting experts from various fields and alumni for guest lectures, seminars, workshops, conferences, competitive exam guidance, arrangements for summer trainings, industry visits, etc.
10. Creating health awareness amongst the students.
11. To encourage students to participate in co-curricular and extracurricular activities.
12. To undertake efforts to submit research proposals to various funding agencies.

PART-B

PART B – 1 Activities reflecting goals and objectives of the Institution

1. Some faculty members have contributed to syllabi designing and revision as a member of various University Committees.
2. One faculty member successfully completed orientation course with “A” Grade.
3. The Faculty members have published research papers in peer reviewed journals and new candidates registered for Ph.D. degree under the guidance of the faculty members.

4. The Consultancy services were provided to industries and institutions through which Department of Geology and Biophysics have generated revenue for the Institute.
5. In addition to regular community services rendered by the NSS unit, faculty members implemented Action Projects on solid waste management in public places.
6. The Extension of Hostel Building and renovation of Department Buildings was carried out by the Public Works Department.
7. Six students have qualified CSIR-UGC NATIONAL ELIGIBILITY TEST and 8 students have qualified GRADUATE APTITUDE TEST EXAMINATION.
8. Alumni had active interaction with the students for competitive exam guidance, arrangements for summer trainings, industry visits, etc. Twenty three students received summer training in industries.
9. The Blood donation camp was organized by the NSS unit.
10. The Students participated in various co-curricular activities and extra-curricular activities. Some students received awards for their good performance.
11. Six research projects were successfully completed.
12. The Field visits were organized to scientific and technical institutes, industries, mines etc.

PART B – 2. New Academic programmes initiated (UG and PG)

- Nil

PART B – 3. Innovations in curricular design and transaction

Members of the Teaching Staff hold responsible positions in University committees, take important decisions thereby contribute to value addition in the teaching-learning process. A list of staff members serving on University committees is given below:

Dr. S.G. Gupta, chairman, Ad-Hoc Board, Microbiology
 Dr. Mrs. S.M. Dharmadhikari, Member Ad-Hoc Board, Microbiology
 Mr. S.G. Kulkarni, Chairman, Ad-Hoc Board, Biophysics
 Dr. S.M. Deshpande, Chairman, Ad-Hoc Board, Geology

All the above mentioned staff members were members of committees constituted for the purpose of framing syllabi of the respective PG programs.

PART B – 4. Interdisciplinary programmes started

- The subjects in which PG and research training is implemented are interdisciplinary in nature. The subject content and the papers of M.Sc. courses include the interdisciplinary and application-based approach. Students register for Ph.D. in Biotechnology under the interdisciplinary Ph.D. programme.

PART B – 5. Examination reforms implemented

- The examination reforms are under the purview of the University constituted Ad- hoc Boards of the concerned subjects. Therefore, the procedures adopted

comply with the decisions taken by the academic Council of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

- The Revised syllabi of various subjects were implemented as per the guidelines of the University. The examinations were conducted according to the pattern prescribed by the University.

PART B – 6. Candidates qualified : CSIR-UGC National Eligibility Test / State Eligibility Test / Graduate Aptitude Test Examination etc.

Name of examination	Number of qualified candidates
CSIR-UGC National Eligibility Test	05
Graduate Aptitude Test Examination	08

PART B – 7: Initiative towards faculty development programme

Participation of faculty members in various training courses / refresher courses.

Sr. No.	Name of faculty	Faculty development programme	Department
1.	Mr. A. G. Jadhav.	Orientation course, at Academic Staff college, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. Grade 'A'	Microbiology

PART B – 8. Total number of seminars / workshops conducted: Nil

PART B – 9. Research Projects a) Newly Implemented-0 b) Completed-6

Sr. No.	Name	Funding Agency	Completed/Ongoing
1	Dr. S. K. Markandeya	UGC, Pune	Completed
2.	Dr. Sahera Nasreen	UGC Minor	Completed
3.	Dr. Sahera Nasreen	Board of College and University Development, Dr. BabasahebAmbedkarMarathwada University, Aurnagabad, Minor	Completed
4.	Dr. R.A. Satpute	UGC Minor	Completed
5.	Dr. S.G. Gupta	Board of College and University Development, Dr. BabasahebAmbedkarMarathwada University, Aurnagabad, Minor	Completed
6.	Dr. S. M. Deshpande	UGC Minor	Completed

PART B – 10. Patents Generated, if any: Nil**PART B – 11. New Collaborative Research Programme**

- Dr. A. N. Dongre : Academic collaboration with open university UK & Dept. of Geology, Banarus Hindu University to work on Kimberlites of Eastern DharwadCraton, South India.

PART B – 12. Research grants received from various agencies

Sr.No.	Name	Funding Agency	Amount (Rs.)
1	Dr. S. K. Markandeya	UNIVERSITY GRANTS COMMISSION	40,000
2	Dr. Mrs. Nasreen	UNIVERSITY GRANTS COMMISSION	65,000
3	Dr. Mrs. Nasreen	BCUD, Dr. Babasaheb Ambedkar Marathwada Univesity, Aurangabad	20,000
4	Dr. S.G. Gupta	UNIVERSITY GRANTS COMMISSION	20,000
5	Dr. R.A. Satpute	UNIVERSITY GRANTS COMMISSION	42,500
6	Dr. S.M. Deshpande	UNIVERSITY GRANTS COMMISSION	1,00,000

PART B – 13: Details of Research Scholars

S. N.	Name of Research Scholar	Subject	Name of the Guide	Year of Registration	Year of Award
1	Ms.Agane V. H.	Microbiology	Dr. S.M. Dharmadhikari	2008	----
2	Ms. Padalkar R.R.	Microbiology	Dr. S.A. Peshwe	2008	----
3	Mr. Gursahani Y.H.	Biotechnology	Dr. S. G.Gupta	2008	----
4	Mrs. Shete Arusha	Biotechnology	Dr.S.G.Gupta	2008	---
5	Mr. Madanne V.V.	Biotechnology	Dr. S. M. Dharmadhikari.	2008	---
6	Ms. Dange V.U.	Biotechnology	Dr. S.A. Peshwe	2008	----
7	Bhatpude A. A.	Geology	Dr. S. M. Deshpande	2008	----
8	Subukade V. D.	Geology	Dr. S. M. Deshpande	2008	---
9	Mr. Shinde K. S.	Botany	Dr. R. A. Satpute	2008	----

10	Mr. Fultambekar R. V.	Botany	Dr. R. A. Satpute	2008	----
11	Mr. Suradkar S. W.	Botany	Dr. R. A. Satpute	2008	----
12	Mrs. Surve S. P.	Botany	Dr. R. A. Satpute	2008	----
13	Mr. Gaikwad Sharad	Geology	Dr. M. A. Sonar	2008	---
14.	Mr. Narendran Nair	Botany	Dr. K.G. Joshi		2009
15.	Mr.V.R. Tembhurne	Botany	Dr. S. P. Nanir	2008	

PART B – 14. Citation Index of Faculty members and impact factor

Citation index of faculty members and impact factor of journals to be obtained from librarian

Sr. No.	Name of the faculty	Department	Impact factor	Citations
1	Dr. Mrs. S. M. Dharmadhikari	Microbiology	0.035	-
2	Dr. Mrs. S. A. Peshwe	Microbiology	0.035	-
3	Dr. A. N. Dongre	Geology	3.457	-

PART B – 15. Honours / Awards to the faculty:

- Dr.R.R. Deshpande was appointed as Joint Director, Higher Education, Maharashtra State by Director of Higher Education, Govt. of Maharashtra.
- Dr.R.R. Deshpande was nominated as member Board of management of Gokhale Institute of Politics and economics (Deemed University) by Director of Higher education, Govt. of Maharashtra for 2006-2013.
- Dr. R. R. Deshpande worked as aHonourable secretary of BhartiyaVidyaBhavan's Aurangabad Kendra since 2005. He initiated to establish unique solid waste disposal units in 10 prisons of Aurangabad region under the CLEAN India program in association with BhartiyaVidyaBhavan Kendra Aurangabad.
- Dr. R.R. Deshpande was nominated as Honorable advisor on CLEAN (Community Led Environment Action CSIR-UGC National Eligibility Test work) India program of developmental alternatives, New Delhi to implement community related activities of environment protection for cleaner and greener neighborhood by adapting the dictum "Think Globally Act Locally".
- Dr.R. R. Deshpande was invited as Resource Person at Indo-Belgium workshop on "Biodeterioration and Conservation of Monuments" organized by Janssen Pharmaceuticals, Belgium and Archeological Survey of India, Government of India at Chennai.
- Dr.R.R.Deshpande was invited as a Resource person at 6th National Conference of Indian Association of applied Microbiologists on Microbial Ecology, Biodiversity, Molecular Techniques and its Prospects at Velur, Nammakkal, Tamilnadu.

- Dr.R.R.Deshpande was invited as a Resource person to deliver Plenary lecture at National Conference on Microbiology, 'From Education to Industry' held at NSB Arts, commerce and Science college, Nanded

PART B – 16. Internal Resources generated

Sr. No.	Name of Department	Resource generated (Rs.)
1.	Biophysics	8900
2.	Geology	4000

PART B – 17. Details of Departments getting SAP, COSIST / DST / FIST etc. assistance / recognition: Nil

PART B – 18. Community services

- Dr. R. R. Deshpande was involved in the following environment action programs implemented under novel and imaginative project initiated by Giants Group of Aurangabad PRIDE in industrial and residential areas; for example, Atra Pharmaceuticals (Aurangabad), Padmakshi Industries (Aurangabad). Giants Group of Aurangabad PRIDE received Certificate of Merit from Giants International at the XXXIV International Convention 2008 held at Bangalore for Best Service Project of the Year 2008 and Giants International Federation 2-B, Federation Award 2008 for Best Services Project of the Year 2008.
- Dr. R. R. Deshpande was invited as expert to suggest Environment Protection Action Programs under Environment Management System initiated by Orchid Chemicals and Pharmaceuticals Ltd., Aurangabad.
- Regular activities include celebration of National Days, eradication of pathenium grass and cleanliness campaign by NSS unit.

PART B – 19: Teachers and Officers newly recruited: Nil

PART B – 20: Teaching, Non-Teaching ratio

Teaching : non-teaching
Ratio 1.13:1

PART B – 21. Improvement in the Library Services

- The New books (Reference and text) and periodicals were purchased during 2008-09.

PART B – 22: New books / Journals subscribed and their values

Purchase of journal/books	Total number of journals/books	Cost in Rs.
Indian journals	13	18,879

Foreign journals	10	2,72180
Books	231	1,57818
Total	254	4,48877

PART B – 23. Courses in which student assessment of teachers is introduced and action taken on students' feedback

Student feedback is obtained for all the courses conducted in the Institute. The feedback is analyzed and forwarded for appropriate action to appropriate authorities in the Institute, affiliating University or Department of Higher Education (Govt. of Maharashtra) as the case may be.

The teachers are assessed regularly through the performance appraisal and confidential reports and on the basis of the teaching record, attendance record, annual report and result record.

PART B – 24. Unit cost of education

Year	Student Intake	Unit cost with salary component (Rs.)	Unit cost with non-salary component (Rs.)
2008-09	184	66626.80	29178.54

PART B – 25. Computerization of administration and the process of admissions and examination results and issue of certificates

1. The administration section is partially computerized and therefore computerized mechanism is used for administration and process of admission.
2. Admission process is executed through computerization since 1992.
3. Examination process is under the purview of the affiliating University and it is computerized.
4. College has its own website, which is updated for the convenience of the users.
5. College has its own e-mail ID for timely and convenient communication with students, parents and other stakeholders.

PART B – 26. Increase in the infrastructural facilities

Sr. No.	Description of work	Expenditure (Rs.)
1.	(a) Construction of first floor of Boys' Hostel (30 rooms). (b) Renovation and repair of laboratory building number one. (c) Electrification and renovation of laboratory building number one and administrative building	129 lakhs.

PART B – 27. Technology Up-gradation

- The lectures and seminars in all the departments were engaged by faculty members using LCD Projectors and other ICT resources.

- InterCSIR-UGC National Eligibility Test facilities were used by students and faculty members for downloading educational resources and literature for research work.

PART B – 28. Computer and interCSIR-UGC National Eligibility Test access and training to teachers and students

- Computer training is mandatory to the teaching and non-teaching staff.
- Common InterCSIR-UGC National Eligibility Test facility was made available in library.
- Students were trained in basics of computer education.

PART B – 29. Financial aids to students

The State Government provides financial assistance for the students from weaker sections in the society such as the SC/ST/OBC and economically backward class. Approximately 50% of the students from M.Sc. course receive the scholarships and free ships. The institute facilitates disbursement of the financial aid from the government in the form of:

- Government of India Scholarship
- Government of India freeship
- Scholarship for economically backward (EBC) students
- Minority scholarship
- Scholarship for wards of Primary teachers (PTC)
- Scholarship for wards of secondary teachers (PTC)
- Merit scholarship

PART B – 30. Activities in support from alumni association

- Alumni employed at national and International institutions visit the Institute and mentor the students.
- The Alumni are invited to interact with students and faculty members, share their expertise, deliver lectures and suggest revisions in the syllabi.
- Alumni support students of Institute in recruitments and summer trainings.

PART B – 31. Activities in support from Parent – Teacher Association

- Parent-teacher association is yet to be established in the Institute. However, parents are invited for feedback on the curriculum. Parents and teachers meet regularly and parents are kept apprised of the Departmental and Institutional activities.
- The faculty members interact regularly with the parents to appraise them about the progress of the students.
- The parents are invited for discussion or counseling in order to find solutions for problems faced by individual students.

PART B – 32. Health Services

- The health facility is available at all the Government hospitals. In addition, the students can visit DKMM Homeopathic Hospital which is adjacent to the Institute.
- Blood donation camp was organized by the students.
- First aid boxes are kept at different locations and are replenished regularly.

PART B – 33: Performances in sport activities

- Students participated in annual sports event which is conducted by the institute every year.

PART B – 34: Incentives to outstanding sports person

- During annual social gathering various sports events like Cricket, Volley ball, Chess, Table tennis and Badminton were organized. Students were felicitated for their outstanding performances.

PART B – 35. Students achievements and Awards

- All the students of MSc. Part I and II participated in residential camp of NSS.
- Ms. Agraja Dharmarao and Ms. Amruta Joshi of Microbiology Department won the first prize in the Debate Competition organised by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- One day training was given to civil engineering students in Department of Geology.
- Mr. Gajanan Dandale, Ms. Snehal Kamlaskar of Biotechnology Department participated in Poster Presentation at National Conference at Milind College, Aurangabad.
- Mr. Anand Patil of Biotechnology Department participated in Inter University tournament (Ball Badminton) at Chennai.
- Ms. Snehal Kamlaskar of Biotechnology Department participated in oral presentation of research paper at National Conference at Milind College, Aurangabad.

PART B – 36. Activities of the guidance and counseling unit

- The students are given information regarding admissions and counseling is done at the start of every academic year. Counseling is done throughout the year to explain the scope, applicability and opportunity in the concerned subjects.
- The students are guided for participation and performance in competitive examinations at national level.
- The Woman's redressal cell addresses girl students' problems and provides essential counseling.

PART B – 37. Placement services provided to students

- The students were provided with guidance for getting good placements in different industries as well as various government organizations.
- The Guidance and recommendations were given to students for joining different organizations for summer trainings and placements.
- The employment advertisements were displayed throughout the year for providing assistance in placements.

PART B – 38. Development programmes for non-teaching staff

The non-teaching staff members were encouraged to undertake the computer courses.

PART B – 39. Healthy practices in Institution

- The institute motivated the students to organize programmes such as Annual Gathering, Science Day, National science Day and Guest Lectures and seminars.
- The Microbiology and Botany departments provide microbial cultures free of cost to various colleges.
- The Botany department offers services to the Government Forensic Laboratory.
- The students were recommended for research trainings in Industries/Institutions during summer vacations.
- Blood donation camp was organized as NSS activity.
- The Annual Social Gathering was organized in the institute to foster harmony.
- Students are guided and motivated to prepare concise but in-depth descriptive cards of terms/concepts pertaining to the syllabus, now popular as the “R R Pattern”.

PART B – 40. Linkages developed with national / International, Academic / Research bodies

- Students are encouraged to undertake Summer project / training in various National Institutes and Research Industries.

Name of the student	Department	Name of the organization	Duration
Ms. Snehal Gagare.	Biotechnology	NCCS, Pune.	2 Months
Ms. Snehal Kamlaskar	Biotechnology	Gne City	1 Month
Ms. Neha Kalyani	Biotechnology	Pune University	1 Month
Ms. Sapana Jalnapurkar	Biotechnology	Wockhardt, Pvt.Ltd	3 Month
Ms. Prachi Thigle	Biotechnology	Wockhardt, Pvt. Ltd	3 Month
Mr. Bahaddur Thorat	Biotechnology	Ajit seeds, Pvt. Ltd	1 Month
Mr. Anand Choudhari	Biotechnology	Bioinformatics	1 Month
Mr. Yogesh Patil	Biotechnology	Bioinformatics	1 Month
Mr.Pradeep Bathe	Biotechnology	Bioinformatics	1 Month
Mr. ChandrakantJadhav	Biotechnology	Bioinformatics	1 Month
Mr. Anshuman Mitra	Biotechnology	Gene City	1 Month
Ms. Shweta Shukla	Biophysics	BARC, Mumbai	2 Months

Mr. Mohsin Shaikh	Microbiology	Frigorifica Allana Ltd., Gevrai, Aurangabad	2 Months
Ms. Deepti Dhere	Microbiology	Frigorifica Allana Ltd., Gevrai, Aurangabad	2 Months
Ms. Jyoti Darwante	Microbiology	Frigorifica Allana Ltd., Gevrai, Aurangabad	2 Months
Ms. Sonal Chopade	Microbiology	Frigorifica Allana Ltd., Gevrai, Aurangabad	2 Months
Mr. Ashok Muley	Microbiology	Frigorifica Allana Ltd., Gevrai, Aurangabad	2 Months
Mr. Kapil Mhaske	Microbiology	Frigorifica Allana Ltd., Gevrai, Aurangabad	2 Months
Ms. Maya Sonawane	Microbiology	Frigorifica Allana Ltd., Gevrai, Aurangabad	2 Months
Ms. Radhika Kurdukar	Microbiology	Frigorifica Allana Ltd., Gevrai, Aurangabad	2 Months
Ms. Deepika Dhande	Microbiology	Frigorifica Allana Ltd., Gevrai, Aurangabad	2 Months
Mr. Vinod Jogdand	Microbiology	Frigorifica Allana Ltd., Gevrai, Aurangabad	2 Months
Mr. Pritam Dudhal	Microbiology	Frigorifica Allana Ltd., Gevrai, Aurangabad	2 Months

PART B – 41. Any other relevant information the institutions wishes to add: Nil

- Dr. S.G. Gupta, Associate Professor from Microbiology Department was selected to the post of Principal/Director Government college/Institutes by Maharashtra Public Service Commission Mumbai.

Part –C Outcomes achieved by the end of the year

1. Some faculty members have contributed to syllabi designing and revision as a member of various University Committees.
2. One faculty member successfully completed orientation course with “A” Grade.
3. The Faculty members have published research papers in peer reviewed journals and new candidates registered for Ph.D. degree under the guidance of the faculty members.
4. The Consultancy services were provided to industries and institutions through which Department of Geology and Biophysics have generated revenue for the Institute.
5. In addition to regular community services rendered by the NSS unit, faculty members implemented Action Projects on solid waste management in public places.
6. The Extension of Hostel Building and renovation of Department Buildings was carried out by the Public Works Department.
7. Six students have qualified CSIR-UGC NATIONAL ELIGIBILITY TEST and 8 students have qualified GRADUATE APTITUDE TEST EXAMINATION.

8. Alumni had active interaction with the students for competitive exam guidance, arrangements for summer trainings, industry visits, etc. Twenty three students received summer training in industries.
9. The Blood donation camp was organized by the NSS unit.
10. The Students participated in various co-curricular activities and extra-curricular activities. Some students received awards for their good performance.
11. Six research projects were successfully completed.
12. The Field visits were organized to scientific and technical institutes, industries, mines etc.

Part- D Detail plans of institution for the next year

1. Approaching towards goals and objectives of the Institute with implementable solutions.
2. Encouraging the faculty members to contribute to syllabi designing and revision and to submit proposals for new academic programmes.
3. Providing guidance and facilities to the students for competitive examinations.
4. Motivation to the teaching staff to participate in faculty development programmes.
5. Organize and encourage participation of students and faculty at seminars/workshops/conferences at the state and national level.
6. Focus on mobilization of research activities to be carried out by staff and students and encouraging faculty members to submit research proposals for funding from the funding agencies.
7. Providing consultancy services to industries and institutions.
8. Motivating faculty members and students to participate in extension activities and community services.
9. Submitting proposals to the Public Works Department for maintenance/repairs/construction of facilities in the Institute premises.
10. Inviting experts from various fields and alumni for guest lectures, seminars, workshops, conferences, competitive exam guidance, arrangements for summer trainings, industry visits, etc.
11. Providing health facilities and creating health awareness amongst the students.
12. To encourage students to participate in co- and extra-curricular activities.
13. To undertake confidence building measures for students by conducting preliminary examination prior to semester-end examinations of the University.