

THE ANNUAL QUALITY ASSURANCE REPORT (AUAR) OF THE IQAC

NAME OF THE INSTITUTION: MAFATLAL GAGALBHAI SCIENCE INSTITUTE
(M. G. SCIENCE INSTITUTE)

YEAR OF REPORT: 2007-2008

PART B:

1. Activities reflecting the goals and objectives of the institutions?

M. G. Science Institute has carved a niche in the field of higher education in Gujarat by promoting quality higher education in the field of science. The Institute follows the path of progress by arduously pursuing its goals and objectives. Science education in its purest form is the avowed goal of the institute. Along with education the Institute also puts stress on various curricular and extra curricular activities. The all round development of the students is the main focus area. Along with academic activities, several other social and cultural activities are arranged to promote the all round development of the students.

- 2 New academic programme initiated (UG and PG):

We have post-graduate degree courses in chemistry and geology and we are trying to begin such post graduate courses in Microbiology, Statistics and Bio-chemistry.

3. Innovations in curricular design and transaction;

Although curriculum is designed by Gujarat University, the faculty members carry out subtle innovations to cater to the needs of the students in the classroom situations.

The departments undertake study tours to give first hand experience of applied processes. There are also industrial visits undertaken to give exposure to the practical aspects of study. Such innovative practices give an edge to the students while studying their regular curriculum.

4. We have initiated career oriented programmes in Geology, Chemistry and Biology, Geo-informatics, Chem-informatics and Bio-informatics with the help from UGC
5. Inter disciplinary programme started: our career oriented programmes are classic examples of inter disciplinary approach.
6. Examination reforms implemented:
 - a. The institute is a centre for all different university exams and exams are conducted with utmost sanctity and discipline.
 - b. The college professors work as invigilators and take active part in the smooth conduct of the exam.
7. Candidates qualified NET/SLET/GATE etc.: NIL
8. Initiative towards faculty development programme. :
The faculty members are encouraged to participate in various workshops and seminars and the management offers liberal financial help to those faculty members who go abroad for paper presentations in international conferences.
9. Total No of seminars/workshops conducted:

<u>Title</u>	<u>Date of the organization</u>	<u>Name of the Department</u>
A Seminar on Health food	2007-08	Microbiology
A Health Awareness Camp	2007-08	VISA Club of MG

10. RESEARCH PROJECTS:

DETAILS OF RESEARCH PROJECTS			
NAME	DEPARTMENT	AMOUNT	FUNDING AGENCY
MS. V.R. NADAGAUDA	BIO - TECH	55000.00	U.G.C.
DR. A. M. SHUKLA	BOTANY	275000.00	SAC - ISRO
DR. P. K. PATEL	CHEMISTRY	57500.00	U.G.C.
DR. B.B.BALDANIYA	CHEMISTRY	67500.00	U.G.C.
DR. J.H.PARIKH	CHEMISTRY	42500.00	U.G.C.
DR.RINA D. SHAH	CHEMISTRY	60000.00	U.G.C.
DR.J.J.VORA	CHEMISTRY	52500.00	U.G.C.
I.M.F. – I/c. MR. U. V. SHAH	ELECTRONICS	2135000.00	U.G.C.
DR. R. D. SHAH (G.M.D.C.PROJECT)	GEOLOGY	340000.00	SAC - ISRO
DR. R. D. SHAH (GANGA RIVER PROJECT)	GEOLOGY	1830000.00	SAC - ISRO
DR. R. D. SHAH (SNOW & GLACIERS PROJECT)	GEOLOGY	270000.00	SAC - ISRO
DR. N. Y. BHATT (D.S.T.KACHCHH PROJECT)	GEOLOGY	700000.00	SAC - ISRO
DR. M. D. SHUKLA (MASHROOM PROJECT)	MICROBIOLOGY	281000.00	GUJ - COST
DR. V. N. UPASANI	MICROBIOLOGY	74000.00	U.G.C.
DR. C.V. PANDYA	PHYSICS	60000.00	U.G.C.
U.G.C. 11TH PLAN GRANT (20%)		145656.00	U.G.C.
U.G.C. 10TH PLAN GRANT		624240.00	U.G.C.

11. PATENTS GENERATED, IF ANY: NIL

12. NEW COLLOBORATIVE PROGRAMME:

- a. The college is successfully running the biotechnology course under the banner of biochemistry department and this course is run in collaboration of Microbiology and Statistics department.

13. RESEARCH GRANT RECEIVED FROM VARIOUS AGENCIES:

<u>FUNDING AGENCY</u>	<u>AMOUNT</u>	<u>COLLABRATION</u>	<u>DEPARTMENT</u>
Space application centre	11.9 Lacs	Geology + SAC	Geology
Gujarat mineral development corporation	6.8 lacs	Geology + GMDC	Geology
Department of science & technology, GOI, Delhi	7 lacs	Geology + MSU Vadodara	Geology
Gujarat council for science & technology	4,75000/-	Microbiology + LM Pharmacy college Ahmedabad	Microbiology
Gujarat council for science & technology	8000/-	GUJCOST	Biochemistry
Indian space research organization	4,72000/	Botany + ISRO	Botany

14. DETAILS OF RESEARCH SCHOLARS:

<u>NAME OF THE RESEARCHER</u>	<u>RESEARCH AREA</u>
DR. B. K. JAIN PRINCIPAL & PH. D. GUIDE	ADVANCED PLANT EMBRYOLOGY AND BIO-DIVERSITY
DR. R. D. SHAH HEAD, GEOLOGY DEPT & PH. D. GUIDE	CLIMATE CHANGE IN TERRESTRIAL ENVIRONMENT
DR. M. D. SHUKLA PROF, MICROBIOLOGY DEPT.	MUSHROOM RESEARCH

DR. H. V. PANDYA HEAD, BIOCHEMISTRY DEPT.	BIOPROSPECTING OF WATER HYACINTH
MS. V. R. NADAGAUDA PROFESSOR, BIOCHEMISTRY DEPT	DYE DEGRADATION
DR. J. H. PARIKH PROFESSOR, CHEMISTRY DEPT	DYE DEGRADATION
DR. P. K. PATEL PROFESSOR, CHEMISTRY DEPT PH. D. GUIDE	ORGANIC SYNTHESIS AND ITS ANALYSIS
DR. ALPANA SHUKLA	COTTON CROP MODELLING USING REMOTE SENSING

15. CITATION INDEX OF FACULTY MEMBERS AND IMPACT FACTOR:

16. HONORS AND AWARDS TO THE FACULTY: nil

17. INTERNAL RESOURCES GENERATED:

NAME OF THE COURSE	INCOME GENERATED
CAREER ORIENTED PROGRAMMES	` 4,73,700/- (Gross)
EMBEDED SYSTEM	` 40,000/- (Gross)
INSTRUMENTATION	NIL

18. Details of departments getting assistance/recognition under SAP, COSIST (ASSIST)/DST, FIST, and other programmes

19. COMMUNITY SERVICES:

- a. Every year Institute arranges collaborative BLOOD DONATION CAMP with Jain Social Group and Green Cross
- b. Medical checkup camp at slum area.

20. TEACHERS AND OFFICERS NEWLY RECRUITED: NIL

21. TEACHING – NON-TEACHING STAFF RATIO 2:1

22. IMPROVEMENTS IN THE LIBRARY SERVICES:

The library of the Institute is computerized and regular books are added as per the requirements of the faculty and the students.

23. NEW BOOKS/JOURNALS SUBSCRIBED AND THEIR VALUE :

24. COURSES IN WHICH STUDENT ASSESSMENT OF TEACHERS IS INTRODUCED AND THE ACTION TAKEN ON STUDENT FEEDBACK:

25. FEEDBACK FROM STAKEHOLDERS:

26. UNIT COST OF EDUCATION :

$$\text{` } 3,73,26728.99 / 2225 = \text{` } 16,776/-.$$

27. COMPUTERIZATION OF ADMINISTRATION AND THE PROCESS OF ADMISSIONS AND EXAMINATION RESULTS, ISSUE OF CERTIFICATES

- a. Our admission process is computerized since 1991, following the guide lines of Gujarat University.
- b. There are two internal examinations conducted each year by the institute. While Final Examination is conducted by the Gujarat University.

28. INCREASE IN THE INFRASTRUCTURAL FACILITIES

- o Rest Room for female students
- o Gymnasium

29. TECHNOLOGY UPGRADATION

- a. Computerization of Library

- b. Its research section has a collection of about 4000 titles.

30. COMPUTER AND INTERNET ACCESS AND TRAINING TO TEACHERS,
NON-TEACHING STAFF AND STUDENTS:

- a. Many departments of the Institute have computers and they access the internet for the academic advancement.
- b. Office and Library were connected with the Internet.

31. FINANCIAL AID TO STUDENTS:

- Institute holds Poor Boy's Fund to aid economically backward students. This year 4 students got financial aid from the institute.
- Gold medal winners and highest mark getters in particular branches win cash awards as per the financial aid schemes of the Institute.

32. ACTIVITIES AND SUPPORT FROM THE ALUMNI ASSOCIATION:

The institute has a thriving alumni association which represents the former students of the college and they hold annual meetings and support the various academic and non-academic needs of the institute

33. ACTIVITIES AND SUPPORT FROM THE PARENT-TEACHER ASSOCIATION

34. HEALTH SERVICES:

- a. The institute organizes annual health check up camp of the first year students of the college which is made mandatory by Gujarat University. .
- b. Blood Donation camp and awareness for donating blood among the youth is the annual feature of the Institute.

35. PERFORMANCE IN SPORTS ACTIVITIES

The institute has a huge playground with facilities like cricket pitch, basket ball court, volley ball centre and even implements for the gymnastics. Students of the Institute

are regular features in various state and national level inter university competitions.

36. INCENTIVES TO OUTSTANDING SPORTSPERSONS

The sports participants get prizes and honour at the annual function of the college. They also get extra marks in the internal exams of the college. This is the way to encourage them to participate in sports activities on the campus.

37. STUDENT ACHIEVEMENTS AND AWARDS

Students of the Institute bring a lot of honour to the Institute by winning gold medals in various university exams. They also are stand out performers in various cultural and sports competitions.

38. ACTIVITIES OF THE GUIDANCE AND COUNSELLING UNIT

The guidance and counseling unit is active especially during the annual admission and introductory sessions. The unit provides useful advice to the students regarding the selections of the graduate course and they also counsel about the future prospects in a particular discipline.

39. PLACEMENT SERVICES PROVIDED TO STUDENTS :

The placement cell makes provision for campus selection for the final year students and make them aware about the various companies seeking trainees form the campus recruitment. They also look after the companies which arrive on the campus for the recruitment.

40. DEVELOPMENT PROGRAMMES FOR NON-TEACHING STAFF

Non-teaching staff are encouraged to take training in accounting and computer skills through the sister institutes in the neighborhood. They are regularly sent for the training in computer and accounting skills on the campus of the sister institute H.L. Institute.

41. GOOD PRACTICES OF THE INSTITUTION:

- a. Blood donation camp organized by the Microbiology Department has been a talk of the town for many years. The blood donation drive fetches more than fifty bottles of blood for the Red Cross. It also help generate a lot of awareness about the importance of this noble activity.
- b. The microbiology Department has also launched awareness program for the mushroom cultivation in the tribal region of the South Gujarat.

42. LINKAGES DEVELOPED WITH NATIONAL/ INTERNATIONAL,
ACADEMIC/RESEARCH BODIES

The various Departments of the Institute have initiated collaborative research programmes with institutions of repute like ISRO, PRL and SAC.

- Research linkages with
- CEPT university
- ATIRA
- Gujarat State Biotechnology mission
- Gujarat Council of Science & Technology
- Consumer Education & Research Institute
- BISAG / SAC / GSPCL / GMDC /
- MSUniversity

43. ACTION TAKEN REPORT ON THE AQAR OF THE PREVIOUS YEAR

44. ANY OTHER RELEVANT INFORMATION THE INSTITUTION WISHES TO
ADD.

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

The Institute has always achieved its goals and objectives with considerable success. The admission process is streamlined and students are given opportunities to select the courses depending on the merit.

The academic activities remained the major focus area suggesting the improvement in result. The process is undertaken to recruit vacant positions of the faculty in the various departments.

Section D: Plans of the HEI for the next year

The Institute has drawn out a plan to further strengthen the academic and non-academic activities on the campus. On an average the Institute gets 92% of overall results, but it is expected to further augment it to 95%.

A few students of the Institute have made to the top university merit list- rankers in various disciplines of the university. The academic body of the Institute feels that there should be more rankers at the university levels.

Many students of the college actively participate in Gujarat University Youth Festival and bring medals for the college, but there is further scope for promoting more students, especially in the category of fine arts.

Name & Signature of the Principal

Coordinator, IQAC Chairperson, IQAC