

RANI LAXMIBAI MAHAVIDYALAYA
PAROLA, DIST - JALGAON, MHS, 425111



THE ANNUAL QUALITY ASSURANCE REPORT
(AQAR) OF THE IQAC FOR THE PERIOD 2007-08

Submitted to
National Assessment and Accreditation
Council, Bangalore

**RANI LAXMIBAI MAHAVIDYALAYA PAROLA,
DIST – JALGAON**

**THE ANNUAL QUALITY ASSURANCE REPORT (AQAR)
OF THE IQAC FOR THE PERIOD 2007 - 2008**

PART A

ACTION PLAN FOR THE ACADEMIC YEAR 2007 – 2008

The plan of action chalked out by the IQAC at the beginning of the Academic year 2007-2008 towards Quality Enhancement:

1. Special attention was focused to prepare and submit the proposal of 2 (f) of UGC Act 1956.
2. The attention on the modification of effective Teaching – learning – evaluation resources is being enhanced and continued.
3. Purchasing of new computers for the Department of Computer Science is at high priority for the development of Computer laboratory.
4. The college turns the attention towards tree plantations in the campus.
5. Collection of various species of plants in Botanical garden.
6. The attention on regular maintenance, repair and upgradation of infrastructure is being continued.
7. Organization of study tours of all departments is at high priority.
8. Career guidance cell continued to work efficiently.
9. Better networking with alumni.
10. Popular talks at the special occasions.

11. Faculties are encouraged for participation in the research activities and to establish the research laboratory, in Physics department.
12. Principal's motivation to students to participate in Sports and Games continued.
13. Proper management of the college by faculties from Teaching and Non Teaching staff, by Principal.
14. Periodic purchasing of books, chemicals, scientific equipments and infrastructural tools.
15. Extra facilities to students via student's consumer corner.
16. Medical facilities to boys and girls students separately.
17. Periodic meetings by IQAC to maintain and present the quality of the institution.
18. Participation of Faculties in the activities arranged by the University.

OUTCOME ACHIEVED AT THE END OF ACADEMIC YEAR 2007 – 2008

1. The college authority is doing efforts in preparing the institution for the recognition under section 2 (f) of UGC Act 1956 to UGC. Various infrastructural and academic developments were desired to achieve, in the direction of recognition.
2. A conscious attempt is being made about the use of alternative teaching methods like the use of advanced teaching aids, group discussions, seminars, web based education, role playing, etc. in addition to power point presentations and articles presentations on PCs, Laptops, OHPs, etc. This method is adopted by all departments in Arts and Science faculty.
3. The college purchased fifteen computers for the department of Computer Science. Department now has the entire infrastructure i. e. proper electrification, new version computers, internet facility, and a large space for laboratory.
4. Trees are planted in the campus for helping in minimizing the pollution. To make awareness in controlling pollution, college planted trees by students. Awareness about pollution has been created among the students by such programs.
5. Few plant species, those are difficult to purchase, were collected during the study tour by the Botany department and developed those species in the garden. Such collection saves the money and time of the institution to get the plant species for dissection and analyses.
6. Attention was also given on the regular maintenance, repairing and increase of infrastructural facilities in the campus. College requests to Hon'ble governing council for such work, as the college is not receiving the development grants from UGC or any other statutory body.
7. Study tours were organized by most of the departments from Arts and Science faculties to widen the horizons of student's knowledge.
8. The efforts are continued for student's motivation to prepare for competitive examinations and to tune their careers in proper directions. Few students are

appointed in military departments on various posts and few are recruited as police constables. Few students enrolled for research work and many enrolled for PG degrees.

9. Alumni are kept in better networking, by telephone, e-mails or by presence. Few alumni declared and provided the financial support to poor, needy and deserving students, to departments, etc. One of our alumni, Mr. Mangesh Patil, G. C. E. R. T., Gujarat, delivered the talk on various aspects of education to students from science faculty. Mr. Mukesh Duggle, an alumni, delivered the talk on business. He delivered very informative lecture on how business can be initiated by graduate students. Currently, he is working at Rajmal Lakhichand Jewellers, at Jalgaon, Mumbai and Pune branches.
10. National blood donation day, 1st October, was celebrated by organizing the popular lecture of Dr. S. P. Mule, Blood bank, Civil hospital, Jalgaon. At this occasion, Dr. Mule delivered the lecture on the importance of blood donation in front of the students from Arts and Science faculty, on Sept. 28, 2007. National science day was celebrated by the science faculty. At this occasion, Dr. D. R. Patil, Dr. P. M. Yeole, Dr. K. D. Ahirrao, Mr. A. M. Patil, Mr. S. N. Salunkhe, Mr. J. B. Patil, etc., delivered the lectures in front of the students from B. Sc. The program was organized by Science association.
11. Faculties are encouraged and have freedom to involve in research activities, viz. to attend the International, National, State level seminars / conferences / symposia / workshops, etc. and to present the research articles in the events. This type of activity, leads the great in involving and gear up the research in the institute. Dr. D. R. Patil, Physics, established the research laboratory entitled “BULK AND NANO MATERIALS RESEARCH LABORATORY” in the department of Physics on 1st October 2007 and the work is continued.
12. Students are being encouraged by Principal to participate in sports activities. College conducts inter collegiate sports events, which are fully funded by the college.
13. College runs the activities smoothly by appointing the faculties from Teaching and Non Teaching Staff on various internal bodies.

14. Periodic purchasing of chemicals, tools, instruments, etc. as a part of infrastructural development are being made as and when required. The demands are put forth by the heads of the respective departments. The purchasing committee decides and finally, Principal delivers orders for the demands.
15. Additional facilities to students such as educational tools (viz. note book, pen, pencils, chalks, ink, files and folders, pages, chocolates, tutorial books, practical hand books, etc), photocopies of documents and public telephone services, etc. are being provided under one roof, which has been situated near the office.
16. Dr. Sambhajiraje R. Patil (M. D.) and Dr. Mrs. Kranti S. Patil re-appointed to provide the medical facilities to boys and girl students separately. Dr. Hemant Marathe also re-appointed and providing the pathological facilities to students viz. Investigation of Hemoglobin, blood group detection, detection of Typhoid, Malarial Parasites, widal tests, etc at a very low cost.
17. IQAC meetings are held periodically for detection and presentation of quality enhancement by the institution.
18. Many of our faculties are engaged in participating and designing the new and advanced curriculum in their respective field.
19. Students: Teacher ratio for this academic year is 15.43: 01.
20. Male: female students ratio is 1.038: 1.

Dr. D. R. Patil
Co-ordinator, IQAC

Prin. B. V. Patil
Chairperson, IQAC

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC FOR THE PERIOD 2007 - 2008

PART B

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

All the activities of the college are conducted with its vision, with the prime motive of imparting man-making and character-building education and combining the principles of secular, technological and spiritual knowledge. The college was established with motive of educating youths of economically and socially backward classes of rural area of Parola and nearby villages and to make available them the higher and technical education in the region at low cost.

2. New Academic programs initiated: NIL

3. Innovation in Curricular design and transaction

As the college is affiliated with “NORTH MAHARASHTRA UNIVERSITY, JALGAON” (hereafter it will defined as the parent University), the college implements the syllabi framed by the board of studies of parent university for all subjects. However, our faculty members are engaged and actively participated in the workshops for syllabi framing in the University. They put their innovative ideas in front of the board of studies for inclusion of innovative and applied syllabi in curriculum design.

4. Inter Disciplinary programmes started: NIL

5. Examination Reforms implemented:

The College strictly follows the rules made by parent University in conducting examinations. Faculties are being released to work in University examinations such as junior supervisor, senior supervisor, flying squad members, internal squad members, examiners, paper setters, for theory as well as practical examinations, etc.

The College conducts tests, tutorials, seminars, group discussions, extra guidance on question bank and question paper solution, periodically to prepare the students for the main examination conducted by University. This enables the students to prepare well in examinations. The results of final examinations are published on the notice board.

6. Candidates qualified in NET/SLET/GATE etc: NOT APPLICABLE

As the college conducts only UG level courses, and the essential qualification in appearing the students in NET / SLET / GATE is PG, So, this item is not applicable to the college.

7. Initiative towards faculty development program:

The faculties have the freedom to apply for FDP programs, for their up gradation of knowledge in the field of research and development of the subject.

8. Total number of seminars/workshops conducted: NIL

9. Research Projects:

On going research projects:

i. **Dr. D. R. Patil**, Principal Investigator, Department of Physics, UGC (WRO, Pune), disbursed the first installment of Rs. 62000/- on Dec. 09, 2005 and Rs. 18500/- as a second / last installment, as a part of minor research scheme. Ph. D. degree is awarded to Dr. D. R. Patil. The total funds were utilized for setting up static gas sensing setup, screen printing setup, muffle furnace, books and journals, travels, etc. Fabrication of thick films by screen printing has been carried out in the laboratory. The total funds were utilized as per the Heads assigned by UGC and the plan of researcher.

ii. **Mr. S. N. Salunkhe**, Principal Investigator, Department of Mathematics, UGC (WRO, Pune), disbursed the first installment of Rs. 45000/- as a part of minor research scheme. The project initiated with the financial assistance of UGC. The total funds were utilized as per the Heads assigned by UGC and the plan of researcher.

10. Patents generated: Nil

11. New collaborative research programs:

Dr. D. R. Patil, Dept. of Physics, has made collaboration with Dr. K. M. Garadkar, Pune University, Pune and Shivaji University, Kolhapur for the work on Nano technology. Two joint articles have been communicated to Journal of Sensor Letters.

12. Research grants received from various agencies:

Sr. No.	Name of Faculty	Subject	Funding Agency	Funds received in Rs.
1	Dr. D. R. Patil	Physics	UGC	18500/-
2	Mr. S. N. Salunkhe	Maths	UGC	45000/-

13. Details of research scholars:

The researchers freely took parts in seminars / conferences / symposia / workshops, etc., to improve and to contribute their knowledge among the researchers of various academic institutions of National and International reputes. Following list shows the faculty participating in various academic and research activities...

Name of Faculty	Subject	Course admitted	Publications in Journals		Seminars / Conferences / Symposia / Workshops		
			Inter-national	National	Inter-national	National	Others
Dr. D. R. Patil	Physics	Ph. D. awarded	02	01	01	01	01
Mr. D. N. Suryawanshi	Physics	M. Phil.	Nil	Nil	01	01	Nil
Dr. P. M. Yeole	Chemistry	Ph. D. awarded	Nil	Nil	Nil	01	01
Mr. G. P. Borse	Chemistry	M. Phil. awarded	Nil	Nil	Nil	Nil	01
Mr. J. B. Patil	Botany	Ph. D.	Nil	Nil	Nil	02	04

Mr. C. R. Patil	Botany	Ph. D.	Nil	Nil	Nil	Nil	01
Dr. K. D. Ahirrao	Zoology	-----	Nil	Nil	Nil	Nil	01
Mr. S. M. Patil	Geography	M. Phil.	Nil	Nil	Nil	Nil	03
Mr. A. S. Mahale	Geography	M. Phil.	Nil	Nil	Nil	Nil	03
Mr. S. N. Salunkhe	Maths	Ph. D.	Nil	Nil	Nil	01	Nil
Mr. V. S. Ghuge	Hindi	Ph. D.	Nil	Nil	Nil	Nil	01
Mr. S. B. Bhavsar	Physical Education	M. Phil. awarded	Nil	Nil	Nil	Nil	01

14. Citation index of faculty members and impact factor:

(i) **Dr. D. R. Patil, Lecturer**, Department of Physics,

Citation Index: 4.621 / Title

Impact factor as an author is: 0.858, e – impact factor: 205.767

15. Honors / Awards to the faculty:

Prof. B. V. Patil, Principal:

Appointed as a LIC member by North Maharashtra University, Jalgaon.

Dr. D. R. Patil, (Lecturer in Physics):

- Thomson Scientifics', Essential Science Indicator (Philadelphia, U. S. A.) has declared one of our research articles entitled “**Modified Zinc Oxide Thick Film Resistors as NH₃ Gas Sensor**” published in the journal Sensors and Actuators B: Chemical [115 (2006) 128-133], as a FAST BREAKING PAPER, which means it is a most cited article among 11000+ journals all over the world, in the field of Engineering, from Oct 2005.

- The article entitled “**Effect of Cr₂O₃ surfactant on LPG gas sensing performance of ZnO thick film resistor**” has felicitated by Dr. N. G. Patel award for best poster presentation in 13th National Seminar on Physics and Technology of sensors NSPTS 13, Pune University, Pune, on March 3-5, 2008.
- Appointment continued as a member of Loknyayalaya running under the Hon’ble Magistrate, judiciary court Parola.
- Appointment continued as a member of Literacy Mission of Parola Tehsil, running under B. D. O., Panchayat Samittee, Parola.
- Appointment continued as a member of Elephantiasis elimination program for Parola Tehsil region, running under Civil Hospital Jalgaon.

Mr. R. B. Nerkar, (Lecturer in History):

- Appointed as Vice-Principal of R. L. College, Parola.

Mr. A. M. Patil, (Lecturer in Botany):

- Appointed as a LIC member by North Maharashtra University, Jalgaon.

16. Internal resources generated:

Sr. Nos.	Particulars	Amount in Rs.
1	Fees from Students of B. Sc. Computer	57260.00
2	Students consumer corner	No Loss no Profit
3	PCO collection	No Loss no Profit
4	Photocopy centre	No Loss no Profit
5	Laboratory deposits	NIL
6	Library deposits	NIL
7	Money saved from Repairing of instruments by the faculty	837.00
8	Others	Nil
Total		58097.00

The college runs B. Sc. Computer Science as an unaided course, fully, for which the college has permission to take the additional fees from the students enrolled for the course. Central instrumentation workshop is situated in the department of Physics, at which few electrical and electronic devices can be repaired by the faculty at the primary level. Thus, little money can be saved by this plan.

17. Details of departments getting SAP, COSIST/DST/FIST etc: NIL

18. Community services

Our college had provided various services to the society at our best level. The services provided are enlisted as follows:

a. NATIONAL LEPROSY ELIMINATION PROGRAM (N. L. E. P.):

Dr. D. R. Patil, (Lecturer in Physics), organized the campaign to detect the leprosy affected patients in Parola. Nine cases were detected as leprosy affected persons. After the multi drugs therapy, total nine cases were cured, by MDT therapy provided by the students and Dr. D. R. Patil in collaboration with Dr. Sambhajiraje R. Patil and Dr. Pawar, Medical Officer, Cottage hospital, Parola.

b. LOKNYAYALAYA:

Dr. D. R. Patil, (Lecturer in Physics) appointed as a member of Loknyayalaya under the supervision of Hon'ble Magistrate, judiciary court Parola. He worked to reduce the disputes which were pending in the court and cleared them. Thus the time of the court was saved to utilize it for the important work.

c. LITERACY MISSION:

Dr. D. R. Patil, (Lecturer in Physics) appointed as a member of literacy mission of Parola Tehsil region and efforts were made to appoint the Co-ordinator and co-coordinator on stipend basis. The grant was achieved from the Maharashtra Government and the stipend was given to co-ordinator and co-coordinator. Regular meetings were held with B. D. O., Parola.

d. ELEPHANTIASIS ELIMINATION PROGRAM AND OTHERS:

Dr. D. R. Patil, (Lecturer in Physics) appointed as a member of Elephantiasis elimination program for Parola Tehsil region, running under Civil Hospital Jalgaon. He worked to eliminate the disease named as elephantiasis in the Parola city and found many affected patients. The work was performed in collaboration of Cottage hospital Parola. Dr. D. R. Patil participated in pulse polio campaign with students in collaboration with the medical officer, cottage hospital Parola. He organized blood donation camps and made available 40 bags of blood to civil hospital, Jalgaon.

NATIONAL SERVICE SCHEME (N. S. S.):

N. S. S. performs the following activities with aimed to serve the society.

1. Tree Plantation,
2. Clean Campus Campaign,
3. Aids, Population awareness,
4. Felicitation of festivals like Raksha Bandhan, ID, etc.,
5. Collection and proper disposal flowers and garbage on the holly occasions like Ganesh Utsav, Durga Devi Utsav, etc.,
6. Organized ten days workshop.

YUVATI SABHA:

Yuvati Sabha is established with the objective that, it organizes the programs and helps in solving the difficulties of ladies students, upgrades their moral values and encourages them by organizing the lectures of eminent ladies personalities. Prof. B. V. Patil, Principal, delivered a lecture on status of women in Khandesh.

19. Teachers and Officers newly recruited: NIL

20. Teaching: Non-Teaching staff ratio: 28: 26

Full time: Part time Teachers ratio 26: 00

Mr. M. R. Karanje, worked as a part time Teacher in History appointed as a full time Teacher.

Full time: CHB Teachers ratio 26: 02

21. Improvements in the library services:

Special arrangement has been made to make available more books in the reading section of the library for Students and Teachers. Joint access of computer and internet to teachers and students is continued to be provided in the reading section of library.

22. New books / Journals subscribed and their value:

290 books and journals are purchased during this academic year which costs Rs. 31663.00

23. Courses in which Student assessment of Teachers is introduced and the action taken on Student feedback:

- Suggestion box is provided near the student's consumer corner. The suggestions about faculty members of Teaching and non teaching staff can be analyzed by the committee constituting the senior faculty members with Principal. The concerned faculties are informed and expected to do self analyses and they are encouraged to enhance the methods of guidance and their innovative.
- A set of questionnaire is circulated in the class room for the assessment of newly appointed Teachers by the students. Students are informed to fill the questionnaire freely. The analysis and data obtained from the questionnaire are informed to concerned Teacher. The analysis was made by the committee constituting the Senior Faculty members and Principal. Faculties are expected to do self analyses and they are encouraged to improve the methods of Teaching and innovate.

24. Unit cost of education:

Rs. 22315 / head (Including salary) and Rs. 1681 / head (Excluding salary)

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

Office automation was established, by which the process of admission, issuance of certificates to students and staff, and all related official work can be performed with the help of computers. The students can get the service quickly and easily.

26. Increase in the infrastructural facilities:

- Additional hall is built for the library and reading room.
- A small room is built specially for the laboratory assistant.
- Purchased 15 new generation and new version computers for the department of Computer Science.

27. Technology upgradation:

Periodic meetings of faculties with their Heads and Principal would lead to enhance the technology upgradation in the respective departments.

28. Computer and internet access and training to Teachers and Students:

Joint access of computer and internet to teachers and students is provided in the reading section of library. Access is free to all. Teachers and students got trained for internet access by the department of computer science.

29. Financial aid to students:**A. SAHAJEEVAN VIDYARTHI ARTHA SAHAYYA YOJANA**

The college established the scheme entitled “SAHAJEEVAN VIDYARTHI ARTHA SAHAYYA YOJANA”. The needy, poor and deserving students can get the financial assistance (though less) from the college for their education. Funds for this scheme are raised by the faculties of Teaching and Non-Teaching staff with Principal. Eleven students got benefits from this scheme.

B. EARN WHILE YOU LEARN SCHEME:

The college runs the scheme entitled “EARN WHILE YOU LEARN”, for the needy, poor and deserving students on the guide lines issued by North Maharashtra University, Jalgaon to provide the financial assistance (though less) by their contribution of work. The scheme enables the students to work at the time of education. Ten students got benefits of this scheme during this year.

30. Activities and support from the Alumni Association:

Better network has been established with the alumni by various departments.

31. Health services:

Regular medical checkups (such as Hemoglobin detection, Blood group detection, other investigations like Malaria, Typhoid, etc.) of students are offered by Dr. Sambhajiraje R. Patil (M. D.) and Mrs. Dr. Kranti Patil to boys and girl students separately. Dr. Hemant Marathe (Pathologist) provided the blood investigation at a very low cost basis. The medical officers are appointed for this purpose.

32. Performance in Sport activities:

College participated in inter collegiate competition. Few students are selected in University group champions in Volley ball, foot ball, weight lifting, cross country, Kho-Kho, etc.

33. Incentives to outstanding Sportsmen:

Medals, mementos, shields, certificates, track suits, prizes, etc. are being offered to outstanding sportsmen, in the form of incentives.

34. Students achievements and awards:

The topper students topped in examinations, N. S. S. awardees and Sportsmen, have been felicitated by offering the attractive gifts, prizes, certificates, trophies, mementoes, etc.

35. Activities of the guidance and counseling unit:

Career guidance cell arranged the meetings of the students in final class and provided guidance to all students. The cell organized the guest lectures of eminent personalities for the opportunities in various industrial and official fields.

36. Placement services provided to students:

Study tours are arranged for the students to acquire the applied knowledge of the subject. Other most important purpose of study tours is that, the students can acquire the

knowledge to apply the innovative ideas in the industrial plant. Secondly, career guidance cell provides information to students for placement along with the individual faculty.

37. Development programs for Non – Teaching Staff:

Development programs in computer knowledge for non teaching staff were arranged by the college in collaboration with computer center.

38. Healthy practices of the institution:

The faculty members took part in few programs of society and few programs are arranged by the faculty members during the academic year as follows:

- a. NATIONAL LEPROSY ELIMINATION PROGRAM (N. L. E. P.)
- b. LOKNYAYALAYA
- c. R. L. LITERACY MISSION AND LITERACY MISSION CONDUCTED BY PANCHAYAT SAMITI, PAROLA
- d. ELEPHANTIASIS ELIMINATION PROGRAM
- e. PULSE POLIO CAMPAIGN
- f. BLOOD DONATION CAMPS
- g. YOGA CAMPS ARE ARRANGED IN THE CITY
- h. CAREER GUIDANCE TO STUDENTS
- i. HELP TO POOR AND DESERVING STUDENTS

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

- National Chemical laboratory, Pune
- Shivaji University, Kolhapur
- Amravati University, Amravati

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

The college was established with the motto to educate the students from rural society, as the college is situated in rural region. Now, the college is stepping up its foot to achieve the goals, under the kind guidance of Hon'ble Adv. Vasant More, the president of the institution, Prof. B. V. Patil, Principal, and with the continuum efforts of the faculties

from Teaching and Non Teaching staff. Most of the students who achieved their degrees from this college, are now working at most reputed organizations and laboratories of central government and abroad, viz. Nagoya Institute of Technology, Showaku, Japan, IIT and B. A. R. C, Mumbai, Maharashtra, Kaiga Power Plant, Karnataka, G. C. E. R. T. Gujarat, and many industries and institutions. Many of our students doing research at various institutions and universities. Thus, the college proves its potential of excellence to develop the scientific community among the rural students. The students enrolled in the college are from very poor families, and our faculty members are engaged in developing their scientific attitude. The college has a pride of this thing. Second pride is that, all the faculty members have faith on each other. This may helpful in fetching the dream in truth.

The college authority, has the pride that, few faculty members of our college are published their research in international and national journals having high impact factors. They are listed as follows:

Name of Faculty	Subject	Articles published	Journal	Status	Impact factor
Dr. D. R. Patil	Physics	01	J. Bulletin of Materials science	National	0.858
		02	Sensors and Transducers	International	e - I. F. 205.767

We have the trust that, the college would definitely build the career of students, who would impart to build the society at each level. Prof. B. V. Patil, Principal, motivates and encourages the faculties and students in achieving the research, academic and sports developments.

Definitely, the college would success to build and develop the Nation.

Dr. D. R. Patil
Co-ordinator, IQAC

Prin. B. V. Patil
Chairperson, IQAC

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

PART C

DETAILS OF ACTION PLAN FOR THE NEXT ACADEMIC YEAR 2008 – 2009

The future plan of action chalked out by the IQAC for the next academic year 2008-2009 towards Quality Enhancement:

1. Special attention would be focused for the submission and achieving recognition of the college under section 2 (f) of the UGC Act 1956. Continuous efforts will be made to submit the proposal of 2 (f) to UGC and to enable the college to achieve the related facilities for quality enhancement.
2. Special attention to educationally weaker students would be paid.
3. Regular maintenance, repair and upgradation of infrastructure, would be continued during next academic year.
4. All departments of Arts and Science faculties would arrange the study tours as a part of informal education.
5. Career guidance cell would work more effectively, than previously.
6. College would arrange the popular talks and speeches by eminent personalities at the special occasions.
7. Faculties would be encouraged to gear up the involvement in research activities.
8. College authority would provide motivations to students to participate in Sports and Games.
9. Medical facilities would be continued to boys and girls students separately.

Dr. D. R. Patil
Co-ordinator, IQAC

Prin. B. V. Patil
Chairperson, IQAC