

HISLOP COLLEGE, NAGPUR

**The Annual Quality Assurance Report
(AQAR) of the IQAC**

Academic year 2004-05

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Year of Report: 2004 - 05

Annual Quality Assurance Report (AQAR) of the IQAC Academic year 2004-05

PART A

The NAAC peer team visited our campus in the session gone by. The vision imparted to us by the team members regarding the goals for higher education, efficiency of processes fuelling and buttressing the progress of higher education, the most cherished healthy practices which are a must in any institution looking forward to develop itself into a viable entity keeping pace with modern trends and requirements of education, have guided our functioning throughout the current academic session. Taking this vision as goals, several developments were made, a summary of which is presented below.

PART B

Departmental activities reflecting the goals and objectives of the institution:

The Institution encourages all those who enter its portals by performing the activities that impart knowledge and learning, serve humanity and motivate the students to strive towards intellectual and cultural excellence.

Several activities were planned and executed during the session 2004-05. It would not serve, however, to enumerate each activity undertaken during the period since that would make the list very large and the reading of it cumbersome. As such, only those activities that are notable are being recounted here.

1. The department of Zoology began its carp fish cultivation programme this year. Since this fish is a primary consumable item of the masses, knowledge about its optimum cultivation will bring employment and self-sustenance to several students. The stocking pond of the college was used to implement this programme. **The department has planned to start a more encompassing programme of *aquatic biology* in the infrastructure available in the college. This programme will not only impart training to students in diverse aspects of aquatic food but also address fundamental research issues.**
2. Students of the zoology department were also provided with literature for fish cultivation as well as for sericulture, goatery, piggery etc. and they were also taken on a study tour to places where these commercial activities were performed so that they could get some practical training in these areas.
3. The Mathematics department organized lectures on “Vedic Mathematics.” This is a branch of mathematics that allows computations of problems by steps different from conventional mathematics. Apart from these lectures, the Mathematical Society also organized intra- and inter-collegiate mathematics quiz to increase the liking of mathematics by the students.
4. The Statistics Department annually conducts “**Statistica**”, **A Festival of Statistical Activity**” to popularize the subject and to develop fellowship amongst the students. The programmes conducted in the festival, also aim at increasing the

- Statistical skills of the students and make them aware of the practical utility of the subject. The Statistics department organized project presentation competition for the B. Sc. Final students, essay writing competition for B. Sc. II students, the inter-class statistical quiz “ Who is Stat’ly wise?” to increase the competitive spirit of the student as well as to spur them to learn more and even outside the syllabus.
5. The Statistics Department also arranged for a novel Inter-Collegiate problem solving competition “Stat-Talent” for the undergraduate students of statistics.
 6. The Statistics department also held lectures by Shri Achyut Godbole, IT Expert from Mumbai, Dr. Pulakesh Maitee, from Indian Statistical Institute, Kolkata and Dr. K. S. Bhanu, Institute of Science, Nagpur on different topics of Statistics.
 7. As every year, notice-board problem activity was conducted round the year by the department of Statistics.
 8. Department of Biochemistry took their students to a tour of the various laboratories of Ankur Seeds, the third largest seed company in India, and to an educational tour to Central Food Technological Research Institute, Mysore.
 9. Department of Botany conducted isolated lectures by Dr. Alka Chaturvedi, Dr. M. T. Sheikh and Mr. M. R. Tijare on various aspects that were fundamental and commercial in nature.
 10. Department of Biotechnology conducted its annual quiz, “The HEADCRUNCHER.” This has now become the biggest quiz in Nagpur and attracts well over a hundred teams drawn from all the institutions – arts, commerce, science, or technological in nature and also from research institutions and top schools.
 11. The department also started a science exhibition, “Concoction” from this year. The exhibition was only for dynamic models and not for static presentations.
 12. The department of English organized a literary Quiz, a love letter-writing contest and a symposium on noted American playwright Edward Albee. The department conducts the quiz annually and other programmes sporadically in order to infuse attitudes of language, literature and love for the language among the students.
 13. The departments of History and Political Science jointly conducted a quiz competition on History, an Elocution competition on “Partition of India”, an essay writing competition on “Commercialization of Education” and several guest lectures by eminent historians.
 14. The department of Psychology held an exhibition entitled “The World of Psychology,” highlighting the various aspects of Psychology. The aim of the exhibition was to popularize the subject among others and to get acquainted with the different areas of psychology and to make the students learn to work in a team. The exhibition was open to all in the city and about 700 visitors were visited.
 15. The department also organized a lecture on “Sex Education”.

16. The students were also taken out to commercial establishments and to educational institution to familiarize them with the psychology of people working in these areas.
17. The department of Commerce held lectures on career counseling, personality development and workshops for preparation for NET and CA examinations.
18. The Philosophy department organized a two lecture series: (i)“Traditional and symbolic logic” and (ii)“Truth functional.”
19. The department of Hindi organized a remembrance programme on Munshi Premchand, the doyen of Hindi literature, especially the short story genre. Mr. Rajjan Trivedi, noted litterateur gave a talk on the occasion. Several other programmes focusing on literary activities were also undertaken during the year.
20. The department of Sociology organized lectures on the topics of “Population Explosion and our concern”, “common diseases and recent advancement in eye surgery” and “water for sustainable power” in collaboration with N.S.S. Unit.
21. The Department of Sanskrit celebrates “Sanskrit Week” annually. This year ‘Sanskrit Slogan and Sanskrit writing Competition’ was organized.
22. The Department of Computer Science conducted workshops on “Tally” and “Theory of Computation”. Seminars on the following topics were conducted: Virtual Instrumentation System, Discrete Mathematics, Expert Systems and IT and Emerging Career Trends.

The above are only the more notable activities carried out in the current academic session. Several activities have not been mentioned just because the report will then become too repetitive. It is safe to assume that the activities mentioned are just about one third of all the activities carried out during the academic year.

New Academic Programmes Initiated

No new academic programmes were initiated this year. However, the college made preparations for initiating new programmes from the coming academic session, i.e., 2005-06. A description of these is given below:

1. The college made a concerted effort to get three of its laboratories recognized for doctoral research by the Nagpur University. These laboratories belong to the Dept. of Botany, Dept. of Chemistry and Hislop school of Biotechnology. The College submitted an application to this effect to the University in the beginning of the current session. The requisite team from the university made to verify the claims has already visited the college and these departments specifically and has submitted a very positive report for granting a status of “**Institution of Higher Learning and Research.**” The committee wanted certain modifications to be done in some laboratories. These also have since been done and the committee has taken cognizance of these and has recommended to the University that the status of “Institution of Higher Learning and Research” be granted. The matter is

now pending till the next Academic Council meeting where the permission in all probability will be granted. If so, this college will be the first in the region to get such a status.

2. Additionally, the college has made an application for starting PG courses in Psychology, Marathi, Botany, and Biochemistry and also to start a Postgraduate Diploma in Applied Statistics from the next academic session. The University short listed and approved the college application. The application has since been forwarded to the State Government. We should be receiving permission to start these courses beginning the coming academic session.

Innovative Curricular design and Transactions

We are not an autonomous institution and as such curriculum design is a University subject and the college departments have to implement the syllabi as they are. However, the college lecturers and readers have always used their imagination and innovated within the syllabi. The following examples are developments that have taken place this year and will serve to highlight the above point.

1. Mr. Rishi Agrawal, Head, Department of Mathematics, has developed a teaching method which he calls "Ganit Darshan." This technique allows the students to visualize some proofs and abstract mathematical concepts behind their closed eyes. The students have claimed that mathematics becomes fun with this technique and not the nightmare that it is normally made out to be.
2. Dr. L. J. Paliwal and Dr. V. S. Deshmukh chaired the organic and inorganic sections of a workshop at LAD College, Nagpur. The workshop was organized to innovate and bring relevant changes to the undergraduate syllabi of chemistry and suggest the same to the University.
3. Hislop School of Biotechnology has made it a practice to assign long duration projects to B. Sc. II students so that they can carry out a meaningful project in the two years time they have on their hands. The University requires that the B. Sc. Final year students carry out a project. The innovation here not only fulfills the University stipulations but also goes much beyond and gives the students a project that they can complete and be proud of when they go elsewhere for interviews. It allows the students to learn and master techniques, which would otherwise have been impossible.
4. Hislop School of Biotechnology also carries out a competition (ongoing throughout the academic year; no cut-off dates etc.) for students to design new protocols for practical experiments prescribed in their syllabi. The new and innovative protocols have to be demonstrated by the concerned student to all other students and teachers. This develops innovative and independent thinking ability of the students and also motivates them to strive into uncharted areas.

5. The Department of English is on the verge of finalizing a module for the introduction of Spoken English and Personality Development Course for Graduates and Undergraduates as well as other willing to avail of the facility.
6. The department of Psychology has made it mandatory for the students of BA I to prepare collages on fields of psychology and to present case study reports; similarly BA II students are made to present papers on various topics of their visits to institutions; the BA Final students prepare and present detailed reviews of different studies. It must be mentioned that these activities are not mandatory by the university standards. These are innovations implemented by the department.
7. Mr. S. M. Somani and Mr. J. M. Ranade actively participated in changing the University syllabi for B. Com. I, II, and III in the subjects Financial Accounting, Auditing and Taxation.
8. Department of Economics has tried to put some innovative design while translating on curricular designs offered to us by University. Innovative methods were like showing students practical on stock exchanges and water harvesting through audiovisual instruments.
9. The Department of Statistics assigns live projects on data collection and analysis to UG students to make the students aware of practical applications of the subject and increase their Statistical skills. The department also conducts Statistical Quiz to popularize the subject.

The above are representative examples of innovation at a time when the college has to strictly follow the syllabi prescribed by the University. Other small ways of making the students fare better in examinations and learn outside the curricula such as class competitions, making students deliver seminars on topics connected to the curricula but not included within their ambit, impromptu elocution and essay writing competitions, etc. are routine every year and as such have not been mentioned above.

Interdisciplinary Programs

There is little scope for formal interdisciplinary programs owing to the fact that the college is not autonomous and every program that has to be implemented has to be approved by the University and the State Government before it can be started. Thus, a student cannot offer the subject-combination that is not approved by the University.

In the current year the college took steps to develop one formal interdisciplinary program and we hope to begin it with the coming session. The details of this program are as follows.

1. Department of Statistics had applied for a PG Diploma in Applied Statistics. Statistics is a subject that has relevance to diverse fields and statistical analysis is a must now in virtually all fields including bio-sciences, engineering, and Medicine. As such, we have been getting feelers from the practitioners of these disciplines to have a formal program under which they could learn statistical analysis and its application in their respective fields. The Diploma is therefore a

truly interdisciplinary program and with its start next session we will have added another interdisciplinary program to our institution.

Informally, we carry out the following program.

2. The department of Zoology and Botany together conduct the vermin-composting and apiculture programs. These are good short-term courses for the students who want to be self-sufficient. These require very little initial investment on the part of the entrepreneur and as such can be implemented even by the poor students.
3. The department of Commerce along with the Economics Department organized a Regional Level Seminar on “Centennial Celebration of Co-operation” (1904-2004)

Examination Reforms Implemented

The institution is affiliated to Nagpur University and the University conducts the examinations. Therefore, the only answer we can give to this question is about the reforms in the Internal examinations that we hold regularly.

The concerned teachers conduct the unit tests regularly in the classes. The preliminary examinations are conducted in the respective departments at the end of the session. As a follow up, the students are helped in improving their shortcomings.

Candidates Qualified NET/SET/GATE

Most of the departments of the college are involved in undergraduate teaching. The students move away to diverse postgraduate courses at diverse places after completing their education here. As such, when they pass NET/SET/GATE examinations, the information often does not reach the departments concerned. The data from postgraduate departments is, however, available. Some data of students in undergraduate departments is also available. A summary is given below.

1. Mr. Hariom Puniyani, an erstwhile student and now a lecturer in the Department of Commerce (from March end, 2005 onwards) passed the NET examination in the current academic year. He has been absorbed as faculty in the department now.
2. Two candidates of Hislop School of Biotechnology cleared NET. One candidate cleared the written test and interviews for Indian Institute of Science, Bangalore, Ph. D. Programme. One student cleared the interviews for the Ph.D. program in National Centre for Cell Sciences, Pune. One student of B. Sc. III was selected for the JNCASR National Summer Fellowship programme.
3. One erstwhile student of the department of Biochemistry cleared GATE. He is currently a faculty with the department.
4. Ms. Sonal Paliwal of Department of Psychology cleared SET in 2004.
5. Dr. Mrs. L. Agarwal of the Department of Zoology cleared NET.

6. Mr. Anand Khandwekar of the department of Biochemistry cleared NET, 2004.

Initiative Towards Faculty Development Programs

The college strived hard for faculty development. There are several different angles to our endeavor as far as faculty development is concerned. We encourage and send teachers to attend seminars in their specializations. We motivate and send teachers for further training in advanced techniques. We make facilities available to them for computer training if they lack computer skills or want to augment existing skills. We allow them leave, if they so desire and if it is admissible under UGC rules, for completion of their doctoral dissertations. We make suitable adjustments in the timetable for faculty members involved in doctoral research. Some of the more notable points to these effects are given below.

1. Dr. P. S. Muktibodh of Department of Mathematics attended a seminar on General Theory of Relativity at Jaipur between 7th and 10th December 2004.
2. Mr. Rishi Agrawal, Head, Dept. of Mathematics has been selected for a Refresher Course to be held at Mysore.
3. Dr.(Mrs.) V. Joglekar, Head Dept. of Statistics, attended an International Conference on Recent Developments in statistics and their Applications at Tirupati in January 2005
4. Mrs. J. Shiwalkar, Lecturer, Dept. of Statistics, attended and presented a paper in the 11th International Conference on Interdisciplinary mathematical and Statistical Techniques at Lucknow in December, 2004.
5. Mr. P. Michael, Dept. of Chemistry has been allowed to proceed to Paris, France, on a Project Fellowship.
6. Ms. Veena Joseph, Dept. of English, participated in a Refresher Course conducted by the Academic Staff College, Nagpur.
7. Mr. D. G. Jog, Head, Dept. of English, and Mr. P. Banerjee of the same Dept. visited the Central Institute of English and Foreign languages, Hyderabad and held discussions with the faculty about the possibility of collaboration on some research projects.
8. Mr. S. Bhattacharya of the same department is undergoing training in an MBA program and has also registered for Ph. D.
9. Ms. L. Menachery is undergoing professional training in the Teaching of English (PGCTE), from CIEFL, Hyderabad.
10. Dr. D. R. Christian, Head, Dept. of Psychology, attended National Conference on "Post Accreditation Initiative" organized by K. J. Somaiya College of Science and Commerce, at Mumbai (24th and 25th September, 2004).
11. All the faculty members of the Psychology Department participated in a workshop on Research methodology and statistics in Psychology, organized by VNIASS, Nagpur (16th and 17th October, 2004).

12. Dr. Christian and Mrs. M. A. Singh of the same department attended a two day workshop on 16 PF training programme (28th and 29th January, 2005).
13. Mr. P. M. Navghare, Mr. Hariom Puniyani participated in “Athena 2005” organized by ICFAI National College at Nagpur. They presented papers on “Economic Liberalization and its Impact on socio-economic cultural environment” and “Emerging Service Sector in India, challenges for 2005” respectively.
14. Mrs. V. C. Ghushe, Head, Philosophy Dept., attended a workshop on “Rationalism” in December 2004. She also attended a National Conference organized by Darshan Parishad at Ahmedabad. She also attended several seminars organized by local colleges and presented papers on some of these seminars.
15. Mrs. V. K. Kulkarni of Philosophy department attended workshops and seminars organized by local colleges.
16. Dr. Annie Joseph, Head, Dept. of Hindi, has registered for Ph. D.
17. Dr. U. Indurkar from the Department of Zoology attended one-day seminar on Entomology at Shivaji Science College Nagpur.
18. Mr. S.M. Somani, Head of Commerce department attended a National level faculty development programme organized by ICFAI University at Hyderabad 2004.
19. Dr. L.J. Paliwal and Dr. H.M. Pande of Chemistry department attended one-week national workshop on “Advanced Techniques for Characterization of Material.” at BARC, Mumbai.
20. Ms. Ragi Radhakrishnan of Biotechnology department received advanced training in Animal Tissue culture technique at NCCS Pune.
21. Dr. Jayashree Rudra and Mrs. P.M. Mashita of Biotechnology department were provided training in Plant Tissue culture at Ankur Seed Pvt. Ltd.
22. The members of the Bio-Chemistry Department attended seminars on “Recent advances on Cancer research” in Nagpur.
23. Dr. B.N. Mahalley Head of Physics department participated in All-India Refresher Course in Experimental Physics at Bhavnagar sponsored by Indian Academy of Sciences, Bangalore 2004.
24. Mr. Thomas Phillip of Physics department attended a two-day workshop on “Mathematica” at Rai Soni College of Engineering, August 2004.
25. Mr. Thomas Phillip and Mr. M.G. Raut of Physics department attended National Seminar on Physics for advance Engineering Technology at VNIT, Nagpur. They also attended a refresher course at academic staff college, Nagpur

Total Number of Seminars and Workshops Conducted

The following seminars/symposia/workshops were conducted during the academic year.

1. Department of Mathematics jointly with NUMTA, Nagpur organized “Late Prof. Mangalgiri Lecture Series” on 26th Sept. 2004.

2. Department of Mathematic organized a workshop on, “Group theory” for the students of Mathematics studying in B.Sc. I & II classes.
3. The English Dept. conducted a one-day symposium on American Playwright Edward Albee on 12th Feb 2005.
4. Dept. of Psychology organized a three-day workshop for Nagpur University Psychology teachers on “Research methodology: Application of Statistics in Social Science Research” between 11th and 13th December 2004.
5. Dept. of Commerce conducted a one-day Seminar on “Cooperation” on 30th September 2004.
6. The Dept. of Commerce organized a Seminar on “BPO Industry and Employment Opportunity” on 14th January 2005.
7. Hislop School of Biotechnology Conducted a Two-Day National Symposium on “Cancer.”

Research Projects

Projects newly implemented

1. Dr. P. L. Paul, Head, Dept. of Zoology has received sanction for a minor research project worth Rs. 38,000/- on “Development of Pituitary, Thyroid, and Gonads in major Carp – Labeo Rohita” .
2. Dr. K. J. Cherian, Head, Dept. of Botany, received sanction for a minor research project worth Rs. 65,000/- on “cultivation of herbs”.
3. Mr. D. G. Jog, Head, Dept. of English received sanction for a minor research project on “compilation of a textbook”.
4. Ms. L. Menachery, Dept. of English, received sanction for a minor research project on “Developing and Strengthening of Aural-Oral Skills of English in non-English Medium Students of Undergraduate Arts Using a Blend of Audio-Lingual Communicative Approaches”.
5. Mrs. Anjali Andrew, Head, Dept. of History, received sanction for a minor research project.
6. The Dept. of Economics received sanction for a minor research project worth Rs. 70000/- on “Dry Port is a Facilitator for Foreign trade”.
7. Mr. S.R. Bhushan and Mrs. S. Lanjewar from the department of Sociology received a sanction for two minor research projects. Details are awaited.

Projects Completed:

1. Dr. Subhash Patil, Head, Dept. of Marathi, completed a minor research project sponsored by the UGC in 2002.

Patents generated if any:

Hislop school of Biotechnology has filed for two international patents. The results are awaited.

New Collaborative Research Programs:

1. Dept. of Chemistry is collaborating with PGTD of Chemistry, Nagpur University with respect to “synthesis and characterization of new macro cyclic compounds.”
2. Dept. of Economics is currently in the process of signing collaboration agreements with Matru Sewa Sangh Maternity Homes to jointly work on “Economics of Health.”
3. Hislop School of Biotechnology and Central India Institute of Medical Sciences have begun collaborating on “Identifying anomalous protein factors in the serum of patients of neurological disorders.”
4. Dr. B.N. Mahalley of Department of Physics is involved in “Study of Organic Materials for Opto-electronic devices” in collaboration with the PGTD Department of Physics, Nagpur University.

Research grant received from various agencies:

Department	Agencies	Amount received
Botany	UGC	Rs. 65,000=00
English	UGC	Rs. 55,000=00
Economics	UGC	Rs. 70,000=00
History & Political .Science	UGC	Rs. 17,000=00
Zoology	UGC	Rs. 38,000=00
Sociology 2 projects sanctioned (Grant received for one project)	UGC	Rs. 32,000=00
Total	--	Rs. 2,77,000=00

Details of research scholars:

Department	No. of Staff members involved in research for Ph. D. degree
Bio-technology	03
English	01
Hindi	04
Psychology	03
Philosophy	02
Statistics	01
History	01
Zoology	04

Department	Staff members who are working as Supervisors for Ph. D. degree	No. of research scholars
Chemistry	Dr. L.J.Paliwal	03 students
Bio-technology	Dr. A. Upadhyay	03 Staff members
English	Dr. A. Z. Mathew Dr. L. C. Coutinho	02 students 01 student
Economics	Dr. Mrs. S.V Deshpande	10 students (applied)
Hindi	Dr.O.P. Mishra	10 Students
Psychology	Dr. Ms. D.R. Christian	01 staff
Zoology	Dr. R. J. Andrew	04 Students

Citation index of faculty members and impact factor:

Although number of research papers have been published in various National and International Journals, we are not able to calculate the citation index and their impact factor.

Honors and awards to faculty:

1. Dr. O. P. Mishra, HOD of Hindi was felicitated by Vidarbha Sahitya Sammelan for "Hindi Seva".
2. Mr. S. M. Somani, HOD of Commerce is awarded "Best Teacher" award by Vidya Shikshak Prasarak Mandal, Nagpur.
3. Dr. P. L. Paul, HOD of Zoology is appointed as Grant Recognition Committee member by Nagpur University, Nagpur.
4. Dr. (Mrs.) S.V. Deshpande, Department of Economics is Chairperson, Vidarbha Economics Association and appointed as member of Committee "Sexual Harassment of women at work place" of CGHS.
5. Dr.Ms. Dipti Christian, HOD of Psychology was invited to teach as a guest faculty in National Fire Service College, Nagpur.
6. Dr. (Mrs.) V. A. Joglekar , HOD of Statistics is nominated as Chairperson, Board of Studies in Statistics and a member of Academic Council, Nagpur University, Nagpur.
7. Dr. (Mrs.) V. A. Joglekar , HOD of Statistics was invited as a contributory lecturer in the Nagpur University Department of Business Administration and for M. B. A. course of YCMOU.
8. Dr. (Mrs.) V. A. Joglekar , HOD of Statistics is elected as Secretary, Nagpur Statistical Association.
9. Dr. (Mrs.) V. A. Joglekar , HOD of Statistics is elected as an Executive Member of Sickle Cell Association, Nagpur.
10. Dr. (Mrs.) V. K. Kulkarni, Department of Philosophy elected as President, Nagpur University Philosophy Teachers' Association.

11. Dr. K.J. Cherian from the Department of Botany and Dr. P.L. Paul from Department of Zoology have been recognized as PhD supervisors.
12. Mr. U. Indurkar from Department of Zoology awarded PhD.
13. Mrs. C. Chandekar from the Department of Marathi was awarded PhD.
14. Dr. L.J. Paliwal and H.M. Pande were appointed judges for Maharashtra State Level Science Exhibition sponsored by Maharashtra State Government in Feb 2005.
15. Dr. P.S. Muktibodh was appointed judge for district and state level exhibition organized by the education Department, Government of Maharashtra.
16. Mrs. J.P. Shiwalkar lecturer in Department of Statistics presented a research paper in eleventh International conference in Inter disciplinary mathematical and statistical technique where her paper was appreciated and she has been invited to present the paper at the forums next conference to be held at Auburn University, Atlanta, USA.
17. Mr. R. Agarwal, HOD of Mathematics presented a paper titled “On – Bonacci Numbers” in the National seminar on recent trends of Mathematic and its application held in Dhamtari, Chhattisgarh in October 2004.
18. Mr. R. Agarwal, HOD of Mathematics sent a paper on “Triangular Functions” in the second world conference at Lahore and it is accepted for presentation.
19. Mr. R. Agarwal, HOD of Mathematics sent a paper on “Geographies for Mathematics Teacher” in the Tenth International Conference in the department of Science and Mathematic Education in the University of Brunei, Darussalam to be held in May 2005.
20. Dr. P.S. Muktibodh sent a research paper for publication “ Gravitational Collapse with exponential Mass Function” in the Journal of Indian Mathematical Society.

Internal Resources generated:

S.No.	Programme	Amount
1.	Vocational Bifocal Electronics	Rs. 4,17,500=00
2.	Vocational Information Tech.	Rs. 2,38,000=00
3.	Vocational Bifocal Computer Science	Rs. 4,81,000=00
4.	B.C.A.	Rs. 28,94,740=00
5.	B. Com. (No Grant Course)	Rs. 11,09,940=00
6.	B.Sc. Industrial Chemistry	Rs. 1,40,500=00
7.	B.Sc. (Biotechnology)	Rs. 23,37,130=00
8.	B.A. (Functional English)	Rs. 81,500=00
9.	Additional Psychology	Rs. 30,300=00
10.	Vocational Guidance & Career Counseling Centre	Rs. 6,500=00
11.	M. Sc. (Chemistry)	Rs. 6,20,000=00
12.	M. Sc. (Biotechnology)	Rs. 23,48,000=00
13.	M.A. English	Rs. 1,85,000=00

14.	M.A. Hindi	Rs 78,500=00
15.	M.A. Economics	Rs. 34,000=00
16.	M. Com.	Rs. 2,13,600=00
17.	MCM	Rs. 5,34,000=00
18.	Miscellaneous Income	Rs. 16,08,355=00
19.	B. Sc. (Computer Science)	Rs. 7,64,000=00
20.	Jr. College French	Rs. 61,000=00
21.	Flower Show	Rs. 1,28,000=00
	Total	Rs. 1,43,11,565=00

Details of department getting SAP,COSIST,(ASSIST)/DST,FIST etc.

1. A proposal for 40 Lacs has been sent to FIST (DST) from the department of chemistry – grant is awaited.
2. A proposal from the Department of Physics for “study of organic material for opto electronic devices” has been sent to DST for approval.

Community services:

Women’s Development Center, Student Christian Movement, Human Rights Centre conducted most of the programs undertaken for community services, in collaboration with all the departments. The common programs for community were:

1. Blood Donation camp
2. Shramdaan
3. Fund Collection for Tsunami Victims
4. Shanti yatra (Peace March)
5. Visit to charity homes.
6. HIV/AIDS awareness program.
7. Tree plantation programme

Programs under taken by individual departments were:

1. Eye donation camp
2. Environment cell conducted a workshop on environment awareness.
3. Lecture was organized on, ‘traffic rules and road safety’ by the department of Psychology.
4. Aptitude testing programs were conducted at a school for X class students. A regular testing programme continued throughout the year in the department of Psychology.
5. Workshop on, “Pranaayam” was conducted by the department of Philosophy.
6. **HISAR (Hislop Institute for Social Action and Research) :**

HISAR, in collaboration with, Department of Sociology and NSS has adopted three slum areas namely, Pandharabodi, Sudam nagar and Jai nagar. It undertakes the following activities:

- Blood Donation

- Anti-smoking Drive
- Cleanliness Drive
- Medical Checkup
- HIV-AIDS Awareness Program
- Adult Education Campaign
- Vocational Guidance for Girls and Women
- 'Balwadi', Kindergarten schools at Pandharabodi, Sudam nagar and Jai nagar slum areas.

Teachers and officers newly recruited.

Total of nine faculty members have been added in the current session 2004-05.

Department	Teachers appointed on Clear Vacancy	Teachers Appointed on fixed salary
Botany	02	
Zoology	01	
Chemistry	01	02
Commerce	02	
Mathematic	01	
Physics	02	
B.C.A.		03
B.Sc.		04
B.Sc.Bio Technology		02
Bifocal Electronics		02
M.Sc. Bio Technology		03
Total	09	16

Teaching non-teaching staff ratio: **1:1** (approximately). This includes only the teachers appointed on permanent basis.

Teacher – Student Ratio: 1:34

Non-teaching Student Ratio: 1:39

Improvement in the library services.

Most departments already have Departmental Libraries. The process for those, which did not have Departmental Libraries, is in progress. By the end of the next academic session every department will have a library. Bar coding of library books has started. The library was semi computerized till now and will be completely computerized in the next session. The library also provides Internet facility to the staff and students.

New books/journals subscribed and their value

Books and journals worth Rs. 3,96,556/- have been purchased in the current academic year 2004-05. The number of journals has increased significantly. Four International journals have been subscribed to. We are also planning to join Library Services offering e-journals. The Department of Chemistry adds books worth Rs.25,000/- every year to its departmental library. The Department of Biotechnology bought books worth Rs. 2,00,000/- and journals worth 24,000/- during the session.

Courses in which students' assessment of teachers is introduced and the action taken on students' feedback:

Teacher-evaluation sheets are distributed to the students at the end of session. The students' feedback on the various dimensions of teaching is analyzed. If needed, appropriate action is taken in consultation with the staff at the departmental level.

Unit cost of education:

(Total annual revenue budget (actual)/ Total no. of students) = Rs.10,668/-

(The annual revenue budget includes the salary of the teachers)

Computerization of administration and the process of admissions and examination result, of certificates:

The admission process is 95% computerized. The examination process i.e. the result preparation and the issue of certificates is currently under development for computerization.

Increase in the infra structural facilities:

Six classrooms have been added in the academic year 2003-04. The following infra structural facilities have been made available in the current academic year:

- Compound wall has been constructed around the college campus.
- Spacious parking is made available for the staff as well as students.
- A counter for student necessities like stationary, Xerox machines, public call office, tea-coffee-soft-drink counter, etc has been started in the premises.

Steps are being taken to improve the infra structural facilities by constructing new classrooms and laboratories for the next academic year. This construction work is in progress.

Technological up gradation

The Department of Chemistry, Biotechnology and Botany have applied to the university for recognition and approval for research laboratory in their respective departments. The inspection committee has already submitted its report and the letter of approval are awaited.

Computers have been provided to all the departments and the college office. The library processing is computerized. New journals have been subscribed for all the departments.

Computer and Internet access and training to teachers and students.

Teachers as well as the office staff have been provided training in usage of computers. More than fifteen teachers and ten non-teaching staff members have completed MSCIT course conducted by Maharashtra Knowledge Corporation Limited. Since all the departments have computers, the staff can use them. Internet facilities are available to through the library. Some of the departments, namely, Biotechnology, Chemistry, Computer Science and Commerce, have Internet facility in their respective departments.

Financial aids to students.

Scholarship facilities are given to students belonging to SC, ST, NT categories. Financial aids are also given to poor students on the recommendation of teachers who are in touch with them.

Activities and support from the Alumni Association

Steps are being taken to organized an Alumni meet in the near future.

Activities and support from the Parent-teachers Association

The activities of the Parent teacher Association have been taking place department wise. Teachers are in touch with the parents from time to time during the academic session to discussion the performance of their wards and to encourage the students to do better.

Health services

Regular medical checkup according to University norm are conducted during each academic session. The college also has a small dispensary for first aid and for other minor ailment. The college has a MOU with Mure Memorial Hospital for emergency needs of the staff and the students. Cardiac awareness and health checkup camp for staff was organized during the session.

Performance in sports activities

Players of the college participated in various games and brought laurels to the college:

S. No.	Game	Conducted by	Position
1	Football Jr. College (Boys)	Zilla Parishad Nagpur District	Winner
2	Football Jr. College (Girls)	Zilla Parishad Nagpur District	Winner
3	Football Jr. College (Girls)	Maharashtra State	Runners up
4	Badminton Sr.	Nagpur University	Winner
5	Korfball (Mix)	Nagpur University	Semi Finalist
6	Table Tennis (Girls)	Nagpur University	Zonal Runners up
7	Ball Badminton (Girls)	Nagpur University	Semi Finalist
8	Basket Ball (Girls)	Nagpur University	Runners up

9	Football (Girls)	Nagpur University	Runners up
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Incentives to outstanding sports persons:

1. All the sports equipments as well as tracksuits are provided to the outstanding students.
2. Concessions of tuition fees to the outstanding sportsperson are given. Especially, to those who cannot afford their college fees.
3. Special diet is given during special coaching camps that are conducted in autumn and summer.
4. Deserving sportspersons are given the privilege at the time of admission to the college.

Students' achievement and awards:

1. Department of Mathematic bagged the second prize in Inter-Collegiate Mathematic Seminar, organized in collaboration with Nagpur University Mathematics Teachers' Association. Ms. Snehal Thawali, Ms. Shafiunnisa Sheriff and Ms. Latifunnisa Sheriff represented the college team and Ms. Snehal Thawali, Ms. Shafiunnisa Sheriff received individual prize.
2. Department of Statistics won the Inter-Collegiate Statistical Quiz, "Stat-Storm, 2005" organized by Nagpur Statistical Association. Ms. Anupama Chourasia, and Mr. Prithviraj Saoji of B.Sc. Final and second year respectively represented the college team.
3. Two students of Statistics Mr. Prithviraj Saoji, B. Sc. Part-II and Ms. Arpita Sarada of B.Sc.Part-I stood First and Second respectively, in the "Stat-Talent", an Inter-Collegiate Problem Solving Competition conducted by Nagpur Statistical Association.
4. Department of Chemistry: Ms. Arati Devinini, a student of Chemistry stood first in order of merit in M.Sc. (Chemistry) Examination of Nagpur University, Summer 2004.
5. Rotaract Club of the college delegated thirteen student members to represent the District at South Asia Conference of Rotaract "Rotasia" held at Daman, in the month of December 2004. Ms. Pallavi Karishma Chandana was adjudged Miss Rotasia Princess. It is worth noting that, the district bagged seven awards in various competitions held during the conference.
6. Human Rights Centre: The members of Human Rights Centre participated in Poster Competition organized by L. A. D. College, Nagpur. Ms. Swati Kumari of B. A.-II and Amren CNS. Dang of B. Com.-III bagged second prize.
7. National Youth Festival: Students of the College represented the Nagpur University in the National Youth Festival held at Banaras Hindu

University in January 2005. In the Western Music Category (Vocal), the team bagged First Prize in Group singing and Second Prize in Solo singing.

8. National Youth Festival organized by International School for Business and Media, Pune in the month of January 2005: Students of the College participated in the Festival and Mr. Sujesh Sunderraj of B.A.-III received First Prize and Mr. Clifford Delgado of B. Com.-III got Second Prize in Western Music (Vocal) category.
9. Two candidates of Hislop School of Biotechnology cleared NET. One candidate cleared the written test and interviews for Indian Institute of Science, Bangalore, Ph. D. Programme. One student cleared the interviews for the Ph.D. program in National Centre for Cell Sciences, Pune. One student of B. Sc. III was selected for the JNCASR National Summer Fellowship programme.
10. One erstwhile student of the department of Biochemistry cleared GATE. He is currently a faculty with the department.
11. Ms. Sonal Paliwal, and Mr. Brajesh Kumar of Department of Psychology cleared SET and NET respectively in 2004.
12. Four students of M. Sc. part-II (Chemistry) participated in National Workshop on “Advance Techniques for material characterization” in December 2004.

Activities of guidance and counseling unit:

Guidance and counseling unit tried to reach out to local schools to orient them about the need for Vocational Guidance and for proper choice of career. One school responded positively and the team could administer aptitude tests in the school. Parents were also addressed regarding the need for vocational guidance. The students from different school and faculty came for aptitude testing through out the year. As this project is undertaken by the department of Psychology, an exhibition was organized by the department where overseas options were also displayed and discussed.

Women studies organized a program on, ‘Women Empowerment’ dealing with the subject of how to face difficult situation and how women can actively participate in various fields of occupation.

Placement services provided to students:

- Training and Placement programme was organized for students in collaboration with computer academy call center training division in April 2004.
- Campus recruitment by Mahindra British Telecom, Pune was organized in May 2004.

- Job opportunity was provided for the students of B.Com and B.CA by arranging a presentation of Ascent Transcription Services (I) Pvt. Ltd in Oct 2004
- Ma-foi Management Consultancy was allowed to install a registration counter to offer the services like placement, HR Consulting and training for students in Oct 2004.
- Vacation course for Air Traffic Assistance in the airlines was made available for our students at 10% discount by Fly High Aviation Academy in Oct 2004.
- Fran Finn Institute of Air Hostess organized a workshop on career counseling for the students in January 2005.
- A seminar was organized in Jan 2005 for making the student aware of the BPO Industry and employment opportunity with the help of career systems. The following topics were discussed: Call Center, Information Technology, Enabled services and Data Conversions.

Healthy practices of the institution.

- Department of Mathematic conducts regular Remedial Classes for weak students of B.Sc.
- Inter-class tournaments and staff vs. students cricket matches are conducted in the months of Nov-Dec.
- Personality development and cultural programme for the students.
- Students' feedback on teaching and taking appropriate subsequent actions.
- Regular counseling of sportsmen and their parents throughout the year.

Development program for non-teaching staff:

The non-teaching staff members are encouraged to enhance their qualification. They are given necessary training in Computer use from time to time. Almost all the staff members in the College Office and some Laboratory attendants are computer literate.

The library staff is sent for workshops and seminars regularly. This year, the Librarian Mr. C. H. Patil has attended the following seminars/workshops on Library and Information Science:

1. National Seminar organized by Nagpur University in November 2004.
2. National Seminar organized by Amravati Study Circle in January 2005
3. National Seminar organized by Dharampeth Arts and Commerce.
4. National Seminar organized by Mahila Mahavidyalaya in January 2005.
5. 'Granthalaya Bharati' organized by Sarvajanic Granthalaya Sangh.

Linkage developed with National/ International, Academic/ Research bodies.

1. Department of English: Collaboration with Central Institute of English and Foreign Languages is in process.

2. Department of Zoology: Research collaboration has been established with Prof. D.P. Prasad Rao, George Town University, Washington, USA.
3. Department of Commerce: The department has collaboration with Yashwantrao Chouhan Maharashtra Open University for conducting contact programme for M.B.A.
4. Department of Chemistry: The department has tie-up with Intel Science Talent Discovery Fair for providing research guide laboratory facilities.
5. The Hislop School of Biotechnology has established linkage for research and teaching. They are: MOU for research with Central India Institute of Medical Sciences (CIIMS), MOU for development of clinical assay method with PK Deshpande memorial Cardiology Center and Ankur Seeds Pvt. Ltd.

Any other information:

The faculty of the Department of Psychology was invited to conduct Aptitude testing programme in for a youth group of Centenary Methodist Church, Hyderabad in the month of February 2005.

PART C

Recommendations of the NAAC Peer team and action and progress done by the Institution:

The NAAC peer team that visited Hislop College made several suggestions which are listed below. The same are listed below along with the action taken on those by the College.

1. PG courses be introduced in Psychology, Biochemistry and Statistics.
2. Efforts be made to establish a computer centre in the College.
3. Coaching facilities be provided to the students preparing for the competitive examinations.
4. Drop-out rate be checked which is quite high in some subjects.
5. More Diploma and Degree courses may be started. There is need to start a Diploma course in Ancient Indian History and Culture.
6. Geography, journalism and mass communication subjects may be introduced.
7. More space be provided for Statistical and Industrial Chemistry Labs.
8. Grievance Redressal Cell be activated.
9. Photocopy facility may be provided to the students at a reasonable rate.
10. Looking to the size of the college and number of students, an auditorium may be constructed.
11. The College should also have its own hostels both for boys and girls.

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

The institution set before itself the following goals to be pursued in the new academic session.

1. To start postgraduate courses in Psychology and Botany.
2. To continue pursuing our application with the University for recognition as a place of higher learning.

3. To encourage the Heads of the Depts. to organize seminars, workshops and conferences in the college.
4. To encourage the teachers to attend Conferences, Seminars and Workshops so that they are aware of recent developments in their subjects.
5. To develop collaboration with foreign Universities and reputed Indian Universities.
6. To provide special incentives to sportsmen.
7. To provide more space to the Department of Statistics as suggested by NAAC Peer Team as well as to provide more classrooms and laboratories for the ever growing need of the college, fresh construction work must begin on an immediate basis

(Dr. Dipti Christian)

Co-ordinator, IQAC

(Dr. Ashish Bhelwa)

Chairperson, IQAC