



MODERN EDUCATION SOCIETY'S
The D. G. Ruparel College
OF ARTS, SCIENCE AND COMMERCE
senapati bapat marg, mahim, mumbai 400 016.

IQAC Report

2004-2005

The D.G. Ruparel College of Arts, Science and Commerce

Report of the IQAC for the year 2004-2005

Part A

THE PLAN OF ACTION CHALKED OUT BY THE IQAC AT THE BEGINNING OF THE YEAR TOWARDS QUALITY ENHANCEMENT AND THE OUTCOME ACHIEVED BY THE END OF THE YEAR

The Peer Team of the NAAC had visited the College between 21st and 23rd August, 2003. As per their suggestions the College constituted the IQAC to ensure the implementation of the suggestions made by them. Although they were appreciative of a number of achievements of the College, they felt that the College could bring about changes in the following areas, which were taken up by the IQAC as their plan of action

- Formation of the IQAC
- Introduction of more job-oriented courses
- Modernisation of library facilities
- Acquisition of more books for the Faculty of Science
- Increase in the use of modern teaching methods
- Acquisition of more computers with an Internet facility
- Regular maintenance and repair and upgradation of infrastructure
- Increase in minor/major research projects
- Constitution of Committee to gather data on funding agencies
- Organisation of seminars and workshops
- Visits to University Departments and Advanced Centres of Learning
- Taking up of consultancy services
- Expansion of the College to meet admission needs
- Conducting coaching classes for competitive examinations
- Better networking with the alumni
- Formalisation of the counselling cell
- Setting up of the placement cell
- Strengthening of the institution-industry linkage

The following changes were brought about in the course of the academic year

- The IQAC was constituted in July 2004, so as to begin work on the suggestions made by the Peer Team of NAAC
- The College had applied for Functional English under the Add on Vocational Courses Scheme of the UGC and began preparing as per UGC expectations for its introduction in the following year
- The library added 10 computers to their collection for enhancing Internet access, cataloguing and barcoding

- Some of the Departments introduced the use of PowerPoint presentations on a regular basis and brought about more innovations in the teaching-learning process
- The IQAC conducted a one day workshop on “Identifying and Preparing Research Projects” so as to motivate teachers to take up major/minor research projects
- A lease line was added to enhance the Internet facility and there was an increase in the provision of Internet in the library and in various departments
- Regular maintenance and repair and upgradation of infrastructure
- Some Departments added to the nature and number of workshops conducted under the aegis of Associations
- The college already runs one division of the F.Y.B.Com. on a no grant basis and is faced with constraints in expansion due to government policies
- The College conducted a seminar on job opportunities after the completion of various courses based on a survey made on the needs of the students. Various departments are also trying for campus recruitment for their students
- At the Departmental level we are establishing institution-industry linkages

Part B

1. ACTIVITIES REFLECTING THE GOALS AND OBJECTIVES OF THE INSTITUTION:

The mission statement of the D.G. Ruparel College is one that reflects both the activities and aspirations of the College. Accordingly, every year the performance by the students and the staff is a step towards betterment. The College considers itself to be its own best competitor and so strive consistently towards bettering its performance.

- A penchant for academics

The D.G. Ruparel College is recognised as a premiere institute of learning, which can be seen through the manner in which people flock to seek admission to the college after the Standard Ten results. The attempt of the College is to consolidate this strength and better it, a fact reflected through the ranks and performance at University and competitive examinations by students of the college each year. Moreover the teachers too work towards keeping abreast with the latest trends in their subjects by participating in seminars either as resource persons or observers.

See questions 6, 7, 8, 35, 40 and 41

- Maximum curricular, co-curricular and extra-curricular opportunities and
- A scope to tap latent potential

The College makes it a point to see that the maximum number of courses and subject options are made available to the students. Also remedial courses that help to address problems of the students like the Proficiency Course in English are also conducted by the College. Moreover recognising that the need of every child is different the College tries to make maximum opportunities available for participation in various competition and sports that fulfil the child's potential in co and extra-curricular areas.

See questions 2, 3, 4, 8, 17, 33, 35, 40 and 41

- Development of research abilities

In recognition of the fact that each individual needs to be taught to think independently within the given framework of the syllabus, the college encourages students to research their syllabus on their own with guidance from the teachers, as is reflected through the projects, paper and PowerPoint presentations that they undertake. The teachers also lead the way by undertaking research work through the pursuit of M.Phil., Ph.D. and major and minor research projects and publications

See questions 9, 10, 11, 12, 13, 14 and 41

- An awareness of the environment,
- Community orientation and
- An inspiring value system

Over and above providing the scope to staff and students to fulfil their ambitions, reach their goals and attain their maximum potential, the College also creates in them a social outlook and an awareness of their commitment towards the cause of the underprivileged and towards general public good. This is reflected through the contributions of individual teachers and the activities of the N.C.C and the N.S.S.

See questions 8, 18, 29, 32, 39 and 41

- An ambience that motivates and
- All-round personality development

The steady and continued achievements of the staff and students of the College and the policies of the College ensure a balanced and healthy attitude towards education. The students and teachers thus find fulfilment and emerge as citizens that would contribute constructively to the future of the nation.

2. NEW ACADEMIC PROGRAMMES INITIATED:

The college runs the Maharashtra State Certificate course in Information Technology (MSCIT) for the Maharashtra Knowledge Corporation Ltd. (MKCL)

3. INNOVATIONS IN CURRICULAR DESIGN AND TRANSACTION:

Members of the Teaching Staff hold numerous responsible positions on University Committees, which enable them to contribute to important decisions in the teaching-learning process

Our Principal, Dr. P. M Sule is the Chairperson of the Board of Studies in Economics, a Member of the Academic Council as well as a member of various committees of the University of Mumbai. Moreover he has served as a Member of the NAAC Peer Team, which visited colleges in Karnataka for accreditation.

Dr. Prakash Salvi from the Department of Economics is a Member of the Board of Studies in Business Economics and a Member of the Faculty of Commerce.

Dr. Tushar Desai from the Department of Physics is a Member of the Academic Council, the Maharashtra State Board of Secondary and Higher Secondary Education, Pune, a Member of the Adhoc Board of Studies in Information Technology of the University of Mumbai and a Member of the Syllabus Revision Committee for M.Sc. in Physics of the University of Mumbai

Mr G.Y. Raosaheb from the Department of Statistics is a member of the Board of Studies in Statistics and a Member of the Faculty of Arts, Commerce and Science

Ms S.G. Raosaheb and Ms V.V. Gokhale from the Department of Statistics have been the Section In-charge of the question bank of the syllabus for the practicals of TYBSc for the period of 2003-06

Dr. Meenakashi Sunderasan from the Department of Zoology is a Member of the Syllabus Revision Committee for M.Sc. Part-I in the subject of Zoology.

The members of the Teaching Staff use various innovative teaching methods to simplify the learning process and make it more interactive and interesting

The Department of English has computerized chart matter for F.Y.B.A, S.Y.B.A. and T.Y.B.A. students and has also upgraded the material of the Proficiency in English Course under the COHSSIP Scheme. Students of S.Y.B.A. created a number of PowerPoint presentations which are made available to students for viewing as reference material

The Department of Mathematics conducts quizzes based on the syllabus

4. INTER-DISCIPLINARY PROGRAMMES STARTED:

The College has applied to the University to be granted permission to introduce Biotechnology which will be taught jointly by the Departments of Zoology and Botany.

5. EXAMINATION REFORMS IMPLEMENTED:

Majority of the departments have increased the frequency of class tests especially at the Third Year so as to maintain constant evaluation and reduce the fear of examinations from the minds of the students.

6. CANDIDATES QUALIFIED: NET/SLET/GATE ETC.

Ms. Parul Bhardwaj cleared the NET examination in the subject of English

7. INITIATIVE TOWARDS FACULTY DEVELOPMENT PROGRAMME

The Teaching Staff regularly attends seminars and workshops either as resource persons or participants to share and update their knowledge

Teachers as resource persons

Dr. P. A. Salvi from the Department of Economics presented a paper entitled “Measuring Financial Development in India through the Index of Financial Infrastructure” at a two day National Seminar on New Growth Strategies for India, the Emerging Power held on 13th and 14th September, 2004 organised by the Nagindas Khandwala College, Mumbai.

Dr. P. A. Salvi from the Department of Economics was a Resource Person at a workshop on Advanced Economic Theory organized by the BOS in Economics at Alibagh College in January 2004.

Preeti Shirodkar from the Department of English presented a paper entitled Words That Were a Certain Good : Tolerance- The (Resi)Stance of the Colonised in a National Seminar on Discourse of Resistance in the Colonial Period with reference to English, Gujarati and Hindi Literature, Saurashtra University, Rajkot, 25th, 26th, 27th October 2004.

Preeti Shirodkar from the Department of English presented a paper entitled Ma(r)king Identity: Gender and Diaspora in the Postcolonial Context at a National level seminar on The Postnational and the Protean : Revisiting the Indian Diasporic Consciousness in Literature and Media, K.C. College, 14th and 15th December 2004.

Preeti Shirodkar from the Department of English presented a paper entitled A Hand that can be Clasp'd No More: Imaging Nissim Ezekiel: in ‘Nissim Ezekiel (1924-2004) - A tribute’, Department of English, University of Mumbai, 28th January 2005.

Dr. N. A. Joshi from the Department of Mathematics was a resource person for an inter collegiate workshop for junior college teachers held at Bhavans College

Dr. Madhavi Indap from the Department of Zoology was invited to give a plenary talk on “Trends in Marine Biotechnology” at a UGC-sponsored National Symposium on Recent Trends in Animal Reproduction: Special Emphasis on Biotechnology in Sawantwadi held on 4th and 5th February 2005.

Teachers as participants

Preeti Shirodkar and Ms. Gayatri Gadgil from the Department of English attended a seminar entitled “From the Indian Renaissance to the Republic: Two Centuries of Indian Writing in English, at the Asiatic Society, Mumbai, on 3rd September 2004

Preeti Shirodkar and Ms. Parul Bhardwaj from the Department of English attended a seminar entitled “The Theory and Practice of Translation: Then and Now at the Asiatic Society, Mumbai on 4th September 2004.

Ms. Gayatri Gadgil from the Department of English attended a seminar entitled: The Postnational and the Protean: Revisiting the Diasporic Consciousness in Literature and Media at the K.C. College (Mumbai), on December 14, 2004.

Ms. Gayatri Gadgil and Ms. Parul Bhardwaj from the Department of English attended a seminar entitled: Divergent Voices: Themes and Trends in American Literature (1900s to 1950s) at St. Andrew’s College and Bombay English Association, November 19, 2004.

Ms. Gayatri Gadgil from the Department of English attended a seminar entitled ‘Nissim Ezekiel (1924-2004) - A tribute’, Department of English, University of Mumbai, 28th January 2005.

Dr. Madhuri Panshikar and Ms. Vaishali Jawlekar from the Department of Marathi attended a two day workshop on 18th and 19th August, 2004 organised by Patkar College on Reframing the Syllabus of S. Y. B. A.

Dr. Madhuri Panshikar and Ms. Vaishali Jawlekar from the Department of Marathi attended a two day programme entitled Sahitya Vedh conducted by the University of Mumbai

Ms. Vaishali Jawlekar from the Department of Marathi attended a one day seminar on The Life and Literature of Durga Bhagwat, organized by the Acharya Marathe CCollege.

Ms. Vaishali Jawlekar from the Department of Marathi attended a National Seminar on Experimental Marathi Drama on 30th September, 2004 at Birla College.

Mr. A. R. Kolhe from the Department of Political Science attended a workshop on Democratic Values conducted by the Educational Resource Centre, Delhi at North Maharashtra University, Jalgoan

Dr. V. V. Golatkar from the Department of Botany attended a workshop on “Medical Mycology” organized by Ruia College under the aegis of the Board of Studies in Botany of the University of Mumbai and the Mycological Society of India on 6th February, 2005, during

which the Mumbai unit of the Mycological Society of India was inaugurated and Dr. V. V. Golatkar was unanimously elected as the Secretary of the Mumbai Unit.

Mr. Sagar Kotekar Patil and Mr. Anil Mohakar from the Department of Information Technology were deputed by the College for a one week training programme on Data Storage Management conducted by EMC at Bangalore.

Dr. Ajit Naik and Mr S.M. Sapre from the Department of Physics attended a workshop on Implementation of The New T.Y.B.Sc. Syllabus at Bhavans College, September 2004.

Ms. M.V. Dabir, Dr. M Sundaresan and Ms. M. Chavan from the Department of Zoology attended a workshop to discuss the revised syllabus of T. Y. B. Sc. in August 2004

Dr. Mugdha Patki from the Department of Physics attended a seminar on Research Activities at the University of Mumbai in October 2004.

Dr. Meenakashi Sunderasan from the Department of Zoology participated in a workshop for M.Sc. Part-I Practicals in the subject of Zoology at Bhavan's College.

8. TOTAL NUMBER OF SEMINARS/WORKSHOPS CONDUCTED:

The College has a lot of Associations, which are usually related to the subjects offered by the College. These Associations conduct seminars, workshops and other activities on a regular basis to encourage students and expose them to organisational skills and build in them confidence and leadership qualities

Activities of the Associations

THE INTERNAL QUALITY ASSURANCE CELL

- The IQAC organised a one day workshop on "Identifying and Preparing Research Projects" on 26th February 2005. The panel of speakers included Prof. A.V. Karnik, Director, Department of Economics, University of Mumbai, Prof. Abhay Pethe Dean, Faculty of Arts and Dr. J. P. Dighe, Registrar, University of Mumbai.

ECONOMICA

- Three meetings were conducted to discuss the Revised Syllabus of T.Y.B.A. Economics at the intercollegiate level.
- Experts from the Bombay Stock Exchange delivered two lectures entitled "Derivatives" and "Stock Market in India".

RUPELA: THE RUPAREL ENGLISH LITERARY ASSOCIATION

- Poetry in performance: Still I Rise
- Screening of Maqbool for appreciation of Shakespearean plays as drama and theatre
- PowerPoint Presentations by ex students individual students and groups

- Vijay Tendulkar : His life and works by Vijaylakshmi
- Demystifying Jejuri by Ameya Naik
- Women writers in Indian Fiction
- Diasporic Writers
- Postmodern (Postcolonial) Fiction
- Realism to Naturalism in American Fiction
- Fiction of the Depression Era
- Jewish, Black and Women Writers
- American Poetry till 1940
- American Poetry post 1940
- Harlem Renaissance
- Gayatri Gadgil conducted a workshop on ESL Techniques for the Teachers of the Maharashtra Military School, Murbad in May 2005.

THE MARATHI VANGMAY MANDAL

- Under the aegis of the Late Prof. L. G. Joag Memorial Lecture Series Mr. Milind Malshe Professor, IIT Mumbai delivered the 22nd lecture of the series on Aesthetics and Criticism on 27th August 2004.
- Mr. Nilu Damle, well-known Marathi Journalist conducted a five day workshop on Journalism in August 2004.
- Dr. Milind Malshe Professor, IIT Mumbai and Dr. Bhatt conducted a three day workshop on Linguistics in September 2004.
- Mr. Sushant Develakar conducted lectures on Marathi Grammar on 8th and 15th January, 2005.
- Mr. Ashok Naigaonkar eminent Marathi Poet sang his poems in a programme entitled "Pavasachya Kavita" in July 2004.
- Mr. Avinash Kolhe delivered a lecture on Lokmanaya Tilak – The Man and His Work on 9th August, 2004
- Mr. Anand Gadgil held a discussion on the Marathi Translation of Meghdoot on 10th October, 2004
- Dr. Pradeep Karnik gave a talk on The Use of Reference Books in Marathi on 24th November, 2004
- Mr. Prashant Dalvi and Mr. Chandrakant Dalvi, well-known Writer and Director of Marathi Theatre held a discussion on "Char Chauaghi" on 8th January, 2005
- Mr. Shankar Vaidya, eminent Marathi Poet and Ex-Principal of Ismail Yusuf College College delivered a talk under Meet the Writer Programme

CHEMARC: CHEMISTRY ASSOCIATION

- Dr. Manjeet Singh, M.B.B.S. (Mum) AFIH (CLI), PGDHH (Symbiosis) delivered a lecture on 'First - Aid & Safety in the Chemistry Laboratory'.
- A discussion was organised by CHEMARC on the new syllabus of T.Y.B.Sc. in Organic Chemistry Practicals on 6th July, 2004 and also in the month of October 2004.
- Dr. Suhas Pednekar, Vice Principal of Ruia College, enlightened the students of Chemistry by talking on 'Green Chemistry' on 19th October 2004.

- Dr. S. C. Dhume, Retd. Vice Principal, Khalsa College, delivered a lecture on 'Spectroscopy'.

SCIENCE ASSOCIATION

- Dr. J. J. Rawal, Ex-director of the Nehru Planetarium and President of Planetary Society addressed the students on "Introduction to Cosmology" on July 7, 2004.
- On September 3, 2004 the association arranged a Science quiz named "Eureka". In this quiz about 15 teams participated in the elimination round and of them four teams were selected for the finals on September 19, 2004. The winners of this competition were Anupam Bam (S.Y.J.C.) and Narendra Maurya (F.Y.B.Sc.) -first. Prize and Vinay Patil and Varun Wartharkar (both from S.Y.B.Sc) – second prize.
- Prof. S. J. Gupta, Acting Head of the Department of Physics of the University of Mumbai delivered a lecture on "Scientific Aspect of Pyramid Power."

N.S.S.

- On 19th July from 1:00 pm to 3:30 pm a workshop, which aimed at ways to use the projector for better communication and how to make different slides and plates concerning a project, was conducted by Mr. Pednekar, Vice Principal of Kirti College.
- On 8th September, 2004 from 10:00 am to 2:00 pm a Personality Development lecture was conducted by our ex-student and ex- volunteer Arun Nalawade. It was followed by a lecture on Thalassaemia by Mr. Vinay Shetty of the Citizen Group and Members of the Lions' Club, Juhu.
- On 12th August, 2004 a workshop on Communal Harmony was held in 2 Science from 10:00 am to 4:30 pm. Mr. Jayant Diwan delivered a lecture on Communal Harmony, which was followed by a poster competition in which students from Poddar College also shared their views. It was followed by a discussion session with Mr. Tulsidas Radhaben Somaiya.
- On 13th August, 2004 a workshop on Gender Equity was held in our college from 10:00 am to 4:30 pm.

9. RESEARCH PROJECTS

a) Newly implemented:

- The Department of Chemistry is working on a U.G.C. sponsored minor research project file No. 47-371 / 2004 of the amount of Rs. 49,000/- under the guidance of Dr. (Mrs.) N.R. Pai.
- The Department of Zoology has undertaken a research project entitled Isolation, Purification and stabilization of Tubulin. Status: Ongoing, Duration: 2004 – 2007, Total cost: Rs. 15, 77,723/-, Funding Agency: The Department of Science and Technology. This project is in collaboration with MUICT, Mumbai University. The share of Ruparel college is Rs. 10, 28,123

b) Completed:

- The Department of Zoology has completed a research project entitled Effect of Petroleum Film on Ecology of Phytoplankton along West of Mumbai. Status- completed. Duration: 1999-2003. Extended up to 2004- 2005. Cost Rs. 3, 27,800. Funding agency: The Department of Ocean Development

10. PATENTS GENERATED, IF ANY:

A.M. Lali, A. Annamma, Madhavi Indap, R. A. Pandit have applied for a patent for One Step Flow-through Absorptive Purification of Tubulin from Tissue Homogenate, filed in India, dated 03.05.2004, ref. no. 222/DEL/2000

11. NEW COLLABORATIVE RESEARCH PROGRAMMES:

- The Department of Zoology is working on a research project entitled Cost effective extraction of tubulin and its stabilization for marketing in collaboration with Dr. Arvind Lali, Dept.of Chemical Engineering University Institute of Chemical Technology Mumbai.
- The Department of Zoology is working on The Bioactive Potential of Bacteria associated with Marine Sponge in collaboration with Dr. W. E. G. Muller Head, Department of Molecular Biology, Mainz University, Germany.
- A MOU has been signed by the Department of Chemistry with effect from 13th March, 2004 for a Ph.D. Programme in the R and D Centre of B.A.S.F. India Ltd. Two of our students Mr. Parag Kulkarni and Mr. Kailas Borate have been awarded scholarships for Ph.D under the guidance of Dr.(Ms.)N. R. Pai for a period of 4 years.

12. RESEARCH GRANTS RECEIVED FROM VARIOUS AGENCIES:

- Dr. Mugdha Patki and Mr. Dilip Maske from the Department of Physics received a grant of Rs. 40,000 for a minor research project
- Dr. S.A. Sawant from the Department of Botany received a grant of Rs. 30,000 for a minor research project

13. DETAILS OF RESEARCH SCHOLARS:**Teachers as Research Scholars**

- Dr. D. A. Shanbag was awarded a Ph. D. in Chemistry in January 2004 under the guidance of Dr. V.C. Mashelkar, Principal of Patkar College. The title of the thesis is "HPTLC Standardisation of Homoeopathic Mother Tinctures and Comparison with Products in the Market".

Teachers as Guides

- Errol Mathias was awarded a Ph.D in Chemistry under the guidance of Dr. (Ms.) U. P. Halkar.
- Padmakar Wagh was awarded a Ph.D in Chemistry under the guidance of Dr. (Ms.) N. R. Pai.
- Anar Rupji was awarded a Ph.D in Physics under the guidance of Dr. Tushar Desai

14. CITATION INDEX OF FACULTY MEMBERS AND IMPACT FACTOR

Citation index of Dr. Madhavi Indap from the Department of Zoology

- The paper Matrix mediated canal formation in primmorphs from the sponge *Suberites domuncula* involves the expression of a CD36 receptor-ligand system has been published in the Journal of Cell Science. The impact factor of the journal is 7.3. The citation number of the paper is 3.
- The paper Influence of Antiangiogenic factor from *Diogenus avarus* on fertility and implantation in mice has been published in The Indian Journal of Experimental Biology in June 2004. The impact factor of the journal is 1 The citation number of the paper is 1
- The paper Biopotentials of Secondary Metabolites Isolated from Marine Sponge by Joseph Selvin and A. P. Lipton in Hydrobiologia, volume 513, pages 231 – 238, February 2004 has cited Dr. Indap's paper published by the Indian journal of Marine Sciences in 1998
- The three papers mentioned below are found in the NCBI, Entrez, PubMed Database.
 - 1: One step flow through adsorptive purification of tubulin from tissue homogenate
 - 2: Fatty acid derived from marine crustacean *Diogenus avarus*.
 - 3: Influence of antiangiogenic factor from *Diogenus avarus* on fertility and implantation in mice.

15. HONOURS/AWARDS TO THE FACULTY:

Dr. Tushar Desai from the Department of Physics has received the Chapter Patron Award 2004, which is an award in recognition of his significant contribution for many years to the Computer Society of India, Mumbai Chapter activities. He has also been elected as the General Secretary of the Indian Vacuum Society for the period between 2004 and 2007

16. INTERNAL RESOURCES GENERATED:

The Department of English has collected Rs. 21,300 for the Proficiency in English Course under the COHSSIP Scheme of the UGC

17. DETAILS OF DEPARTMENTS GETTING SAP, COSIST (ASSIST) / DST. FIST, ETC. ASSISTANCE / RECOGNITION

The Department of English is conducting a Proficiency Course in English under the COHSSIP Scheme

18. COMMUNITY SERVICES:

Over and above the monetary, physical and intellectual contribution of individual teachers to social service, the Library, the N.C.C. and N.S.S. regularly undertake activities that reveal a social outlook

Activities of the Library

Services given to the Retired Staff Members of this college

Name	No. of Books taken
Dr. B.R. Shinde	96
Mr. M.B. Wani	23
Mr. R.G. Kapse	12
Mrs. S.P. Shukla	6
Mrs. Seema Toraskar	4
Mr. G.R. Shinde	3
Mr. V. M. Lele	3
Mr. V. B. Patankar	3
Dr. V.S. Pradhan	3
Mr. A. R Pradhan	2
Dr. D. A. Desai	1

Services given to the community	(Special Readers)
Name	No. of Books taken
Meenatai Deshpande	17
Kamlakar Nadkarni	6
Purnima Patne	5
Suhas Valimbe	4
Mr. Magre	1
Manoj Acharya	1

N.C.C. activities

- 18 of our cadets were deployed on Ganeshotsav Duty to assist the state police on the 5th and 10th day of Visarjan.
- 10 of our cadets were deployed to assist the college authorities during the blood donation camp held in our college in September.

N.S.S. activities

- A Medical Camp was held on 1st August, 2004, during which volunteers assisted the concerned doctors by distributing the said medicines among the students. The volunteers also checked the height and weight of all students from STD I to VIII and undertook a teaching session for STD IV students.
- On 4th August, 2004, the N.S.S Unit organized a workshop on Solid Waste Management along with the students of Nirmala Niketan and the B.M.C. The points covered were the importance of solid waste management, segregation of dry waste and wet waste, methods for different types of composting and the importance of vermin compost and its uses.
- On 6th August, 2004 volunteers participated in the Hiroshima Peace rally, which was organized by Mumbai Sarvodaya Mandal along with the University of Mumbai. The rally started at 3:30 pm from Azad Maidan and went up to Hutatma Chowk. The volunteers took a pledge to strive for peace and humanity.
- A project entitled Janani was undertaken by the volunteers in association with the Aditi Puri Charitable Trust. Every day at least three volunteers assisted the doctors in the

Maternity Ward, in counselling pregnant women, taking care of their nutrition needs and helping in various other ways.

- Between 18th and 25th August, 2004 Rakhis worth Rs. 1 000/- were sold by N.S.S Volunteers.
- On 22nd August, 2004 the volunteers organised a camp at the Karav Adivasi Ashram Shala from 9:30 p.m. to 5:00 p.m.. They undertook a teaching session for students from STD I to IV. The volunteers also taught the students a few games and gave them tips on health and hygiene.
- On 10th September, 2004, volunteers organized a blood donation camp in association with the St. George Blood Bank. 148 blood units were collected with 5 units donated outside as replacements.
- On 22nd & 27th September, 2004, volunteers assisted the Shivaji Park police officials for patrolling and maintaining order during the 5th & 10th Ganpati immersion day. The volunteers worked from 4:00 pm to 9:30 pm.
- On 21st October, 2004, volunteers undertook a survey on AIDS awareness in the slums near our college.
- On 22nd October, 2004 volunteers visited the Cooper Hospital and celebrated Dassera with the patients.
- On 23rd October, 2004 a special AIDS awareness camp was held at Karav Adivasi Shala. Students were given information about AIDS and health hygiene; volunteers also performed street play on AIDS and undertook a teaching session for students from Std. I to Std. III They also distributed sweets at Karav.
- On 19th & 20th November 2004, the N.S.S. unit of the college held a shelter camp at Don Bosco. Our volunteers assisted the Don Bosco workers in the smooth functioning of the Mela. Our volunteers taught the orphan children painting and pot decorating. They also helped in serving food and snacks.
- On 1st December, 2004, volunteers participated in the AIDS rally organized by the NSS Cell, Mumbai. Volunteers distributed pamphlets and made posters.
- On 2nd December, 2004, volunteers performed a street play on AIDS Awareness. Posters were exhibited and pamphlets were distributed at Cooper Hospital.
- On 11th December, 2004, volunteers participated in a street play competition on AIDS Awareness organized by the S.I.W.S. college and also raised funds for tsunami relief.

19. TEACHERS AND OFFICERS NEWLY RECRUITED

Sr. No	Name of the Teacher	Subject	Category	Nature of Appointment	Date of Appointment	Remarks
1.	Mrs. Yende Anupama Bhushan	Philosophy	Open	Full-time	16.11.2004	SET
2.	Shri Chandratre Suresh	Commerce	Open	Full-time (Unaided div.)	16.11.2004	NET
3.	Miss Bhide Deepali Narayan	Geography	Open	Full-time	16.11.2004	SET
4.	Shri Gaikwad Deepak Sudam	Physics	S.C.	Full-time (Contract)	16.11.2004	

5.	Shri Sonawane Bipin Popat	Physics	S.C.	Full-time (Contract)	16.11.2004	
6.	Miss Lokhande Jyoti Chandrakant	Physics	O.B.C.	Full-time (Contract)	16.11.2004	
7.	Shri Madkaikar Ganesh Sadanand	Physics	Open	Full-time	16.11.2004	NET
8.	Shri Chavan Kshitij Jairam	Chemistry	S.C.	Full-time (contract)	16.11.2004	
9.	Shri Chavan Vijaykumar Laxman	Chemistry	V.J.-A	Full-time (Contract)	16.11.2004	
10.	Dr.(Mrs.) Patil Jyoti Vinod	Chemistry	O.B.C.	Full-time	16.11.2004	Ph.D.
11.	Dr.(Mrs.) Shelke Vandana Prabhakar	Zoology	S.C.	Full-time	16.11.2004	Ph.D. (Denied to join)

20. TEACHING – NON-TEACHING STAFF RATIO:

Teaching staff: 82

Non-teaching: 101

Ratio: 1: 1.23

21. IMPROVEMENTS IN THE LIBRARY SERVICES:

For the benefit of the students the library extends its working hours, when the examination approaches. While the regular timings are 7.30 a.m. to 5.30 p.m. from June 2005 to January 2006, from February 2006 to April 2006, the library is open from 7.30 am to 8.00 pm

22. NEW BOOKS/JOURNALS SUBSCRIBED AND THEIR VALUE:

Books worth Rs. 1,97,032/- were purchased during the academic year 2004-2005

Number of books added to the library

Category	2003-04	2004-05	Total Books
GEN.	63202	1313	64915
U.G.C.	10164	609	10773
H.S.	8963	103	9066
B.B.	11227	232	11459
DONATION	8703	554	9257
I.T.	526	135	661
Total	1,03,185	2944	1,06,131

Number of periodicals added to the library

Category	2003-04	2004-05	Total Periodicals
ARTS	30	03	33
SCIENCE	21	—	21
COMMERCE	08	01	09
GEN.	11	01	12
Total	70	05	75

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

Especially when a new teacher is recruited in the department the Head of Department or a Senior Teacher, who teaches the class gets a feedback from the students, which is then discussed with the new incumbent, so that s/he can make the required changes in his/her teaching

24. UNIT COST OF EDUCATION:

Rs. 21,774 per student

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

We have developed in-house software for the admission process and other student administration activities. In-house software has also been developed for the activities of the Examination Department, viz. results and mark sheet printing

26. INCREASE IN THE INFRASTRUCTURAL FACILITIES:

The following infrastructure was purchased by the College for various departments

- The Department of English purchased a cupboard for storing material related to the Proficiency Course in English under the COHSSIP scheme

- A new IT lab was created housing 21 computers with INTEL Pentium 3 GHz, CD writers and Multimedia facilities and laser and dot-matrix printers
- A digital electronics and communication laboratory for IT students
- 40 licenses for the operating system Microsoft XP
- To enhance the internet facility, we acquired a 2nd lease line of 128 Kbps from VSNL
- The Mathematics Department acquired a computer under the U.G.C. Scheme

We also regularly replace outdated apparatus by purchasing better versions of the same.

27. TECHNOLOGY UP GRADATION:

Same as above (since the college has adequate infrastructure built over fifty years our focus has been on keeping ourselves up-to-date with technological developments/requirements)

28. COMPUTER AND INTERNET ACCESS AND TRAINING TO TEACHERS AND STUDENTS:

We have three lease lines for the Internet facility. Using these, access is provided to all Departments in the College which house a computer. Over and above accessing the Internet in the various departments, students and teachers also avail of the facility provided in the library. Most teachers and students accessing the Internet are familiar with it but teachers, other students or the library staff provides guidance wherever needed, especially about which sites to access. Additionally a number of staff members and students access the Internet from their homes

Number of Computers added to the Library.

Total No. of Computers in 2003-2004	2004-2005	Total 2004-2005
09	10	19

Computerisation of the Library:

Data Entries in 2003-04	Added in 2004-05	Total
3247	14,143	17,390

Internet service given to the readers

Year	Students	Staff
2004-05	1428	827

29. FINANCIAL AID TO STUDENTS:

- The College has borne the fees of financially weak students from the Mutual Aid Fund amounting to Rs. 8882/- for three students
- The College offers fee waiver to children of staff members
- The College has spent Rs. 20489/- for Book Bank purchases, under which scheme the College gives needy students books related to the syllabus for their use

- Activities and support from the Alumni Association:
- The illustrious alumni of the college often give guest lectures to students as a part of the association activities, thereby providing guidance to their juniors

30. ACTIVITIES AND SUPPORT FROM THE ALUMNI ASSOCIATION:

The alumni regularly visit the College to seek guidance from their teachers and provide guidance to their juniors. They are invited by their teachers for programmes at the departmental level to ensure interaction and continuity in the teaching-learning process.

31. ACTIVITIES AND SUPPORT FROM THE PARENT-TEACHER ASSOCIATION:

On a departmental level, meetings are conducted with parents of Third Year students so as to motivate them and provide guidance

32. HEALTH SERVICES:

A member of the non-teaching staff was given Rs. 250/- for medical treatment for acute pain

33. PERFORMANCE IN SPORTS ACTIVITIES:

The College has always excelled in sports activities, a fact that is acknowledged and adequately witnessed through the celebration of the Gymkhana Prize Distribution Day

CHESS

- Our Sr. College chess men's team won the IInd place in the team championship opening our account in the general championship by 60 points. Siddharth Alvaris was selected to represent the University of Mumbai at the All India Inter University Chess tournaments held at Madurai.

CRICKET

- Our Sr. college cricket team fared better this year as compared to their last year's performance. Last year they lost at the quarters, whereas this year they reached the semi-finals.
- Harshad Rawale was the Vice Captain of the University Cricket team while Abhishek Nair, Kshemal Waingankar and Sahil Kukreja were team members of the University cricket team.

SOFT BALL

- Our men's soft ball team won the University championship for the 2nd year in succession and added 100 points to our account for the University's General Championship. Five players of our team had the honour of representing Mumbai University at the Inter-University soft-ball championship. They are Shrikant Masurkar, Chinmay Karandikar, Nihar Mehata, Swapnil Bhende and Omkar Bhosle.
- Our women's soft ball team participated in the inter-collegiate tournament for the first time and won the quarter final round but lost in the semi-finals against Pendharkar College, who were the ultimate winners.

YOGA

- Our women's Yoga team completed a hat trick by winning the University Yoga Championship. Kirti Dalvi, Archana Pujari, Poonam Deshmukh were picked up for the University team.
- Our men's Yoga team won the championship after the gap of a year. Rajesh Rao, Trambak Sinkar and Kunal Mane were in the University team. Our yoga men and women teams added 215 points, totalling 375 points

KHO-KHO

- Our Kho-Kho women's team won the championship for the 25th year in succession. Poonam Rane, Rushali Kotekar, Vrushali Takle, Ashwini Narande, Shubhada Dhuri, Rachana Lad performed to the best of their ability and achieved the glory of winning the championship for the 25th time.
- Naturally the above mentioned girls represented the Mumbai University at various tournaments. The women's Kho-Kho team brought our tally to 475 by adding 100 points.

SHOOTING

- After two years of struggle and efforts by our shooters, they could secure the second place in the General Champion for Shooting. Last year our shooters could get only 20 points. Following are the details of the performance of various shooting teams.
 - Air Rifle Peep Sight (women): 2nd place (highest score: Chetana Patil 382/400)
 - Open Sight Air Rifle (Men): 2nd place (highest score: Venit Ghawat 290/400)
 - Open Digit Air Rifle : 3rd place (highest score: Komal Inkar 260/400)

Our shooting group lifted our general total to 615 points.

KABADDI

- Kavita Kadam from the degree college was selected for the All India inter-University Kabaddi tournament

This year's overall sports performance has been excellent as compared to the performance of the last few years. We made progress from the 10th place in the General Championship to the 5th place the year before the last and to the 4th place last year. This year due to our varied and constant success we reached the 3rd place in the University's Sports Merit List.

34. INCENTIVES TO OUTSTANDING SPORTSPERSONS:

The students who participate in various games and sports often miss classes as they are out playing in tournaments. The teachers thus provide them all the required guidance and help so as to enable them to catch up with their studies

35. STUDENT ACHIEVEMENTS AND AWARDS:

Academic Achievements

- Akshay Rane topped the Science Faculty of the University of Mumbai at T.Y.B.Sc. in April 2004-2005
- Mr. Shailesh Vajekar was First at M.Sc. (Chemistry).
- Three students of our college participated in the first fire of the I.I.T. Physics Olympiad - Siddharth Kasturirangan (T.Y.B.S.c) stood 3rd, Kanchan Ulman and Samved Kolekar (both from S.Y.B.Sc.) stood 4th and 5th respectively.

- Ms. Manjiri Bhawe stood First in the University in the subject of Botany at the M.Sc. Part-II Examination of the University of Mumbai in all the subjects including Mathematics and Statistics.
- Miss Vrushali Gupte secured the third rank at the T.Y.B.A examinations of the University of Mumbai
- In the University six students secured 100/100 in Logic of which four students were from D. G. Ruparel College.
- Mr. Tushar S Navale was 4th in the University Examination in T.Y.B.Sc. Chemistry

Achievements in Co and Extra-Curricular Activities

- Mr. Abhishekh Humbad secured a State First in the All India Chemistry Olympiad
- Chinmay Upadhye from F.Y.B.A. won a prize at the Yashwantrao Chavan Pratishthan intercollegiate elocution competition.
- Ms. Manasi Joshi secured the 6th rank at the Intercollegiate state level elocution competition organized by MIT Pune. She also secured the 4th rank at an elocution competition organized by an anti dowry organization.
- Ms Pooja Joshi secured the third rank in the P C Alexander Inter University Elocution Competition.
- Mr.Sawpanil Pange secured the third rank at an inter collegiate elocution competition organized by Patkar College.
- Ms Kasturi Phatak and Mr. Sunil Gangavane secured the first rank at an intercollegiate essay competition.
- Ms Pooja Joshi was selected for the state level debating competition organized by MIT Pune.
- Ms Shrutika Shitole from S. Y. B. A. won the second prize at an inter-collegiate poetry recitation competition organized by Ratnam College.
- Mr. Gaurav Wakankar and his group bagged the 1st prize in Dancing at ETV Marathi Full-Time Dhamal. He has also developed a computer project of 20,000 lines of codes.

Achievements at the Youth Festival:

LITERARY EVENTS

Manasi Joshi - First prize in Marathi elocution.

Pooja Joshi - Third prize in Hindi elocution.

INDIAN CLASSICAL (INSTRUMENTAL)

Sagar Sathe won the first prize for his performance on the Harmonium.

Amit Kavthekar won the second prize for his performance on the Tabla.

INDIAN CLASSICAL DANCE

Poulomi Fadanvis bagged the third prize

FINE ARTS

Tejas Bowlekar won the third prize for his collage

HINDI MONO ACTING:

Veena Jamkar won the third prize

Performance in Theatre Arts

Marathi one act play 'Kallokh' won the following accolades:

- 1st Prize at the Youth festival.
- Best Actress - Veena Jamkar.
- Best Actor - Ketan Karande.
- 1st Prize at the 'Mrugjal' One Act Play Competition.
- Best Actress - Veena Jamkar.
- Best Director - Adwait Dadarkar.

Hindi One Act Play - 'Pratibimb' won the following accolades:

- 3rd Prize at the Youth festival.
- Best Actress 1st Prize - Veena Jamkar.
- Best Actor 2nd Prize - Subodh Khanolkar.
- 2nd Prize at the IPTA Hindi One Act Play Competition.
- Outstanding performance - Veena Jamkar.

Marathi One Act Play - 'Tich Ti Diwali' won the following accolades:

- 1st Prize at the INT Marathi One Act Play Competition
- Best Actress 2nd Prize - Veena Jamkar.
- Best Lighting - Raghu Bangera.
- Best Director - Adwait Dadarkar.
- 2nd Prize at the 'Sawai' State level Marathi One Act Play Competition

Marathi one act play - 'Ek Aadhavi Regh' won the following accolades:

- 1st Prize at the 'Alpha Mahakarandak' Marathi One Act Play Competition
- Best Actress - Sangam Narvekar
- Best Actor - Sameet Chavan

At the 'Maharashtra Utsav' intercollegiate competition organized by Elphinstone College our students won the overall championship trophy.

At the Yeshwantrao Chavan Prathishsthan competition, Chinmaye Upadhye and Kasturi Phatak bagged the First Prize in the Elocution and Essay writing competitions respectively.

A large number of our students won a number of prizes in dance (solo and group), solo singing etc at various intercollegiate competitions.

36. ACTIVITIES OF THE GUIDANCE AND COUNSELLING UNIT:

Considering the hesitation that students feel in opening up to strangers, the teachers provide extensive guidance to the students on both career and personal dilemmas. This is possible due to the open door policy that the teaching and administrative staff of the College adopts. Moreover in case of a severe problem the College makes it point to discuss the issue with the family and/or refer the child to counsellors.

37. PLACEMENT SERVICES PROVIDED TO STUDENTS:

Four students of T.Y.B.Sc Physics were selected through Campus Interviews by MBT and other companies.

Ms Vidya Patil from the Department of Physics has helped some needy students for the placements in organizations like Sharp Communications, Nelito Systems, and Ameya Infovision.

38. DEVELOPMENT PROGRAMMES FOR THE NON-TEACHING STAFF:

Training in computers is provided to the non teaching staff of the Departments.

39. HEALTHY PRACTICES OF THE INSTITUTION

- Students of Mathematics are encouraged to attend various workshops at IIT
- Mr. S. K. Gokhale Retd. HOD, St. Xavier's College visited the department throughout the year to discuss various problems and topics with students of T.Y.B.Sc.
- Ms. Abhaya Chitre conducted a special session of problem solving of T.Y.B.Sc students of Kirti College.
- Eighty Students benefited from the Book Bank facility given to the students.
- Ex-SUO Prashant Vishwasrao joined the Officers' Training Academy, Chennai for training followed by the Short Service Commission to the Indian Army.
- Cdt. Nikhil Harmalkar joined the National Defence Academy, Pune for training followed by the Commission to the Indian Armed Forces.

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

- An MOU has been signed by the College with the Maharashtra Knowledge Corporation Limited to conduct their Certificate Courses in IT. This project will be implemented by the Department of Information Technology.
- The Department of Mathematics has a tie up with Patni and MBT
- Dr. Madhavi Indap was invited by Prof. Dr. W. E. G. Muller, Head, Department of Molecular Biology Institute of. Physiologische Chemie, Universitat Mainz, Germany. October November 2004 to work on tubulin.

41. ANY OTHER RELEVANT INFORMATION THE INSTITUTION WISHES TO ADD:

- Dr. J. P. Dighe from the Department of Zoology joined the University of Mumbai as Registrar in January 2005.
- Dr. N. A. Joshi from the Department of Mathematics is a visiting faculty at Mahindra British Telecom and Patni
- Ms. Vaishali Jawlekar has judged various inter-collegiate literary competitions.

Publications

DEPARTMENT OF POLITICAL SCIENCE

- Mr A. R. Kolhe translated the Biography of Dr. Manmohan Singh from English to Marathi.

DEPARTMENT OF CHEMISTRY

- Dr. (Ms.) N. R. Pai, Head of Department: Estimation of Nevirapine from Oral Suspension by Reverse Phase HPLC. *Ultra Science* Volume 16 (2),183-186(2004)
- Dr. (Ms.) U. P. Halkar: Separation and characterization of lignin compound from walnut (*Juglans regia*) shell using preparative TLC, GC-MS and H-NMR. *J. of Analytical and Applied Pyrolysis* 71(2004) 515-525.
- Dr. (Ms.) R. S. Manjrekar: Sai Baba temple at Shirdi: Revisiting restoration. *The Indian Concrete Journal*, Vol 79(2), 47-52.
- Dr. (Ms.) R. S. Manjrekar: Repair of Erosion of Concrete in Hydraulic Structures. Published in proceedings of International Workshop on Repair, Rehabilitation and Retrofitting of Concrete and Masonry Structures., 11-12 October 2004,103-111.

DEPARTMENT OF MATHEMATICS

- Dr. N. A. Joshi authored textbook for junior college students of Science and Commerce

DEPARTMENT OF ZOOLOGY

- Annamma Anil, Reena Pandit, Madhavi Indap, Arvind Lali, One step flow-through adsorptive purification of tubulin from tissue homogenate, *Journal of Chromatography B*, November 2004, available online
- N L Thakur, S P Mankar, R A Pandit, Madhavi Indap, Mosquito larvicidal potential of some extracts obtained from the marine organism prawn and sea cucumber, *Indian Journal of Marine Sciences*, 33(3): 2004.
- W.E.G. Mueller, N. L. Thakur, A. N. Thakur, A. Krasko, M. Korzhev, Madhavi Indap, G. L. Pennec, S. Perovic-Ottstadt, H. C. Schroeder, G. Lang and G. Bringmann, Matrix-mediated canal-formation in primmorphs from the sponge *Suberites domuncula* involves the expression of CD36 receptor-ligand system: modulation by a sponge-derived anti-angiogenic compound, *Journal of cell science*,117, 2579-2590, 2004
- Archana N. Thakur, Narsinh L. Thakur, Madhavi Indap, Reena A. Pandit, Vrushali V. Datar and Werner E. G. Mueller (2004) Antiangiogenic, antimicrobial and cytotoxic potential of sponge-associated bacteria. *Journal of Marine Biotechnology*, 2004

Activities of the Department of Physics

- The Science Association conducts frequent sky observation programmes. Mr. Londhe conducted a programme in the college on January 10, 2005 to observe the proximity of Saturn.
- On February 5, 2005 another overnight sky observation programme was arranged at Neral near Matheran about 30 students participated in the event and witnessed the beautiful vistas of the universe. This programme was arranged by Mr. Rahul Patil, Mr. Mahesh Shetty and Miss Tejaswini (F.Y.B.Sc).

Activities of the Library

- Book exhibitions were organised by the library from 11th to 14th January 2005 & 18th to 20th January. 2004.
- The Art to Art Exhibition was held in the library between 27th November and 4th December, 2004
- Granth Tulas - 23 titles for the year 2004-05

Services given to the students

Home Reading Service

Year	Direct Demand	By Demand Slip	Total
2004-05	27,703	2525	30,228

Open Access Service

Year	Total book issued
2004-05	24142

Service given to Ex-students

Year	Beneficiaries
2004-05	11

Part C

DETAIL THE PLANS OF THE INSTITUTION FOR THE NEXT YEAR

After taking stock of the changes brought about in the course of 2004-2005, the IQAC decided to consolidate the gains made and work on areas which could not be addressed in 2004-2005 in 2005-2006. These were as follows

- Introduction of more job-oriented courses
- Modernisation of library facilities
- Increase in the use of modern teaching methods
- Acquisition of more computers with an Internet facility
- Regular maintenance and repair and upgradation of infrastructure
- Organisation of seminars and workshops
- Visits to University Departments and Advanced Centres of Learning
- Conducting coaching classes for competitive examinations
- Better networking with the alumni
- Formalisation of the counselling cell
- Setting up of the placement cell

Dr. Tushar Desai
Coordinator, IQAC

Dr. P. M. Sule
Chairperson, IQAC

The D. G. Ruparel College

Internal Quality Assessment Cell (IQAC)

2004-2005

Principal Dr. P. M. Sule	Chairperson
Mr. G. Y. Raosaheb	Vice Principal
Dr. Pradeep Kulkarni	Vice Principal
Dr. Ajit Naik	Teacher Member
Dr. Nandini Pai	Teacher Member
Dr. Madhavi Indap	Teacher Member
Dr. Prakash Salvi	Teacher Member
Dr. Nandini Diwan	Teacher Member
Ms. Preeti Shirodkar	Teacher Member
Dr. Pradeep Karnik	Librarian
Ex-Prin. A. P. Pradhan	Member from Management
Mr. Subhash Dandekar	Nominee, Local Society
Dr. Tushar Desai	Coordinator (Teacher Member)

The D. G. Ruparel College
OF ARTS, SCIENCE AND COMMERCE
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