



**(University with Potential for Excellence)**

**University of Mumbai**

**Fort, Mumbai - 400 032**

**Annual Quality Assurance Report (IQAR) of the IQAC**

**Report for the year 2005 – 2006**

# **Annual Quality Assurance Report (IQAR) of the IQAC.**

**Name of the Institution: University of Mumbai,**

**Fort, Mumbai - 400 032**

**Year of Report: 2005 - 2006**

## **Section A: Plan of action chalked out by the IOAC in the beginning of the year towards quality enhancement.**

Some of the major activities planned during the year 2005-06 were as follows:-

Introduction of new U.G. and P.G. courses in Information Technology, five years integrated B.A. / M.A. courses in foreign languages, M.A., M. Phil, Ph. D. programmes in some of the University Departments. Also new P. G. Diploma course to be conducted in Garware Institute of Career Education and Development were planned.

Revision of syllabi in the subjects wherever it was due. Use of technology like 1) online admissions and issuing of Hall Tickets, 2) multimedia projectors for lecture and lab programmes, 3) internet access to students and teachers. Encourage departments and faculty members to submit research projects to UGC, DST, BRNS, ISRO etc for individual project grants and/or under DST-FIST, UGC-SAP programmes. Encourage the faculty and departments and institutes to start collaborative academic and research programmes in order to enhance the interaction between various organizations and which will benefit the academic community. .

## **Section B: Details in respect of the following for the year 2005 – 2006**

### **1. Activities reflecting the goals and objectives of the institution**

To start new B. Sc. Degree courses in Information Technology, Computer Science, Nautical Technology and M. Sc. in Information Technology, Computer Science, five years integrated B.A./M.A. courses in French and German, post graduate diplomas in applied fields, certificate courses in performing folk arts, in the University. Syllabus revision of the subjects and academic reforms wherever necessary are planned. Garware Institute of Career Education and Development has proposed to add new inter-disciplinary P.G. Dip. Programmes in collaboration with industries and other institutes.

In an effort to improve the standard of the teaching programmes, many university departments proposed to revise their existing syllabi and change the pattern of question papers for M.A/M.Sc. examinations, wherever necessary. Faculty of University Departments was requested to provide their guidance to the University students appearing for SLET/NET examinations. Department of Economics became autonomous.

The faculty members from various departments were encouraged to attend refresher/orientations courses organized by Academic Staff Colleges of Mumbai and other Universities. University Departments were asked to organize and conduct orientation and refresher programmes for teachers in collaboration with Academic Staff Colleges of Mumbai University. The departments were asked to organize seminars, workshops and symposia as part of the academic and research activities in order to enhance and upgrade the knowledge of the teaching community in various subjects, in the country. The young faculty members were asked to apply for UGC-FIP fellowships.

All the departments were asked to submit new projects to various funding agencies like UGC, DST, BRNS, and ISRO etc. Those departments having ongoing projects were requested to complete the same and utilize the entire research grants before the stipulated period of the project.

The faculty was advised to start new collaborative research programmes with other national and international academic/research institutes and industries. The departments were asked to submit new research projects and procure research grants for their research work. The departments were advised to generate internal resources which can be used by them for augmenting their facilities. The Heads of Departments were requested to obtain students' feedback/assessment of their teachers in order to improve the teaching programme. The departments were also asked to upgrade the existing facilities and introduce new technologies like use of multimedia projectors, OHPs and internet in the lecture and laboratory programmes.

## 2. New Academic programmes initiated (UG and PG):

**Thirty two new programmes**, as listed below, were started by fifteen Departments of the University during this year.

Sr. No.	Department	Academic Programmes
1	Institute of Distance and Open Learning	➤ B. Sc. (I.T.), M. Sc. (I.T.), B.Sc. (Compu. Sc.), M. Sc. (Compu. Sc.), B. Sc. (Nautical Technology), M.C.A.
2	Garware Institute of Career Education and Development	➤ P.G. Diploma in Agri. Business Management. ➤ P.G. Diploma in Insurance Administration ➤ U. G. Diploma in Retailing. ➤ Certificate Course in Medical Transcription.
3	Department of Statistics	➤ PGDAS & PGDASS Courses
4	Department of Law	➤ Post Graduate Diploma in IPR
5	Lok-Kala Academy	➤ Certificate courses in performing folk arts ➤ One year part time courses in a) folk singing, b) folk acting, c) folk instrument playing, d) folk dances, e) folk literature.
6	Department of Russian	➤ Five –Year Integrated Programme (B.A. & M.A.) in Russian
7	Department of French	➤ Five - Year Integrated Programme (B.A. & M.A.) in French Studies.

8	Department of German	<ul style="list-style-type: none"> <li>➤ Initiated Five Year Integrated BA/MA Degree Course in German with comprehensive credit based semester system. Introduced in 2006.</li> <li>➤ Initiated part time courses viz. i) Short term/Intensive Basic Certificate Course in German, ii) Conversational Course in German for Beginners. The courses were introduced in 2006.</li> </ul>
9	Department of Sanskrit	<ul style="list-style-type: none"> <li>➤ Certificate Course in Manuscriptology.</li> </ul>
10	Department of Pali	<ul style="list-style-type: none"> <li>➤ M. A. Pali (started in Sanskrit Department)</li> </ul>
11	Department of Gujarati	<ul style="list-style-type: none"> <li>➤ M. Phil</li> </ul>
12	Department of Physical Education	<ul style="list-style-type: none"> <li>➤ M. Physical Edu. PART-I</li> </ul>
13	Dr. Ambedkar Centre for Social Justice	<ul style="list-style-type: none"> <li>➤ Post Graduate Diploma in Dr. Babasaheb Ambedkar Thoughts</li> </ul>
14	Centre for Central Eurasian Studies.	<ul style="list-style-type: none"> <li>➤ M. A., Ph. D Programmes</li> </ul>
15	Department of Philosophy	<ul style="list-style-type: none"> <li>➤ Certificate Course in Vallabh Vedanta</li> <li>➤ Foundation Course in Yoga (6 months Certificate course)</li> <li>➤ Diploma Course in Yoga (6 months)</li> </ul>
16	Department of Applied Psychology	<ul style="list-style-type: none"> <li>➤ Planning for the review of MA syllabus in the light of recent developments in the field, is started.</li> </ul>

### 3. Innovations in curricular design and transaction

Eleven University Departments upgraded their existing syllabus and/or introduced more optional papers in some of their courses.

Sr.No.	Department	Innovations in curricular design and transactions
1	Department of Chemistry	<ul style="list-style-type: none"> <li>➤ Revision of M.Sc. syllabus.</li> <li>➤ Introduced Project work as a component</li> </ul>
2	Department of Physics	<ul style="list-style-type: none"> <li>➤ Revision of M. Sc. Part-I Syllabus</li> </ul>
3	Lok-Kala Academy	<ul style="list-style-type: none"> <li>➤ Demonstration, knowledge and training of traditional folk forms imparted to the students through lectures &amp; practicals by renowned folk artists.</li> </ul>
4	Department of Linguistics	<ul style="list-style-type: none"> <li>➤ Revision of the M. A. syllabus.</li> </ul>
5	Department of French	<ul style="list-style-type: none"> <li>➤ Offered one more foreign language besides French at the undergraduate level allowing different language departments to work together.</li> </ul>
6	Department of German	<ul style="list-style-type: none"> <li>➤ Revision of the syllabi for Certificate, Diploma and Advance Diploma courses in German language incorporating latest text books, study material and Audio Visual communicative methods.</li> </ul>
7	Department of Philosophy	<ul style="list-style-type: none"> <li>➤ Introduced 4 new optional papers with a practical component each in the courses on 1) Yoga, 2) Jainism and 3) Buddhism</li> </ul>
8	Department of Civics and Politics	<ul style="list-style-type: none"> <li>➤ Designed M. Phil. Curriculum</li> </ul>
9	Department of History	<ul style="list-style-type: none"> <li>➤ Revision of the M.A. I &amp; II syllabi</li> </ul>
10	Department of Applied Psychology	<ul style="list-style-type: none"> <li>➤ Revision of the M. A. Syllabus</li> <li>➤ Introduced field work as a part of MA-II curriculum. Students are placed in Hospitals, NGOs Schools, Corporate and industries for mandatory field work that provides hands on training. They also carry out research project.</li> <li>➤ For MA part I students, introduced designing of experiments and preparation of research proposal.</li> </ul>

11	Department of Sociology	➤ Weekly seminar/group discussion for students
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#### 4. Inter-disciplinary programmes started

Six of the University Departments conducted Inter-disciplinary programmes as listed below.

Sr.No.	Department	Course
1	Lok-Kala Academy	➤ Inter-disciplinary interaction with Academy of Theatre Arts and Music Department in organizing workshops on Rang Prampara and Lok Parampara.
2	Department of French	➤ Students of B.A. (French) could enroll for another foreign language courses offered by the Departments of Arabic, German, Russian, Italian and Spanish
3	Department of German	<p>➤ The B.A. in German Course includes the following inter-disciplinary components:</p> <ul style="list-style-type: none"> <li>➤ Communication skills in English</li> <li>➤ Foundation Course (Environment Education, Human rights, Social &amp; Political awareness)</li> <li>➤ Second compulsory language besides the core language</li> <li>➤ Travels &amp; Tourism component</li> <li>➤ Commercial Correspondence</li> <li>➤ The M.A. in German Course includes the following inter-disciplinary components: <ul style="list-style-type: none"> <li>1) Philosophy, 2) Linguistics, 3) Didactics, 4) Indian literary theories and 5) Art History.</li> </ul> </li> </ul>
4	Department of Sanskrit	➤ National Seminar on “Significance of Hinduism in co-existence and world peace” Organized jointly with Hindu Research Foundation, Mumbai
5	Department of Urdu	➤ The Certain topics in Ph. D. and M. Phil. degree courses are of inter-disciplinary nature.

6	Centre for Central Eurasian Studies.	➤ The P.G. course in the Centre are inter-disciplinary in nature
7	Department of Economics	➤ Teachers of the department are collaborating with teachers from other departments on interdisciplinary research projects funded by the UGC under the UPE programme. Also, there are several research collaborations with national and international organisations.
8	Department of Applied Psychology	➤ Inter-disciplinary programmes started

### 5. Examination reforms implemented

Over all six departments introduced examination reforms for the benefit of the student community.

Sr. No.	Department	Examination reforms
1	Department of Biophysics	➤ Term Exam
2	Lok-Kala Academy	➤ The panel for practical examination in Folk Performance was formed by appointing well known folk artists for meaningful and realistic assessment of the students. While appointing these artists as examiners, more emphasis was given to their artistic quality and experience rather than their educational qualifications.
3	Department of German	➤ Introduced the credit based semester system which includes continuous evaluation, internal assessment (done by paper presentations, tests after each session, project work, seminar participation, home assignments) and semester examinations.
4	Department of Urdu	➤ Examination reforms as per norms laid down by the University.
5	Department of Chemistry	➤ Questions in the examination on each unit were made compulsory with internal options.



6	Department of Philosophy	➤ Practicals and internal assessment component introduced at the degree level for Yoga, Jainism and Buddhism
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#### 6. Candidates qualified: NET/SLET/Gate etc.

A total no. of 76 students passed their NET and SLET examinations in various subjects as listed below.

Sr.No.	Department	Subjects	NET	SLET
1	Institute of Chemical Technology (Formerly UDCT)	M. Chem. Engg.	28	
		M. Pharm.	23	
		M. E. (Plastic Engg.)	04	
		M. Tech. (Textile)	05	
		M. Tech. (Foods)	03	
		M. Tech. (Polymer)	03	
		M. Tech. (Surface Coating)	02	
		M. Tech. (Oils)	02	
2	Department of Linguistics		01	--
3	Department of Hindi		02	01

#### 7. Initiative towards faculty development programmes

The details are listed below.

Sr.No.	Department	Development Programme
1.	Department of Chemistry	➤ Organized One UGC refresher course in Chemistry

2.	Lok-Kala Academy	<ul style="list-style-type: none"> <li>➤ The faculty members are encouraged to visit the places where the traditional folk forms are being performed so that they faculty are well aware and well informed with that specific traditional folk form. This year the faculty members attended the Tamasha Festivals organized by Govt. of Maharashtra at Narayangaon and Vashi, Navi Mumbai wherein the traditional Tamasha artists presented their performances.</li> </ul>
3.	Centre for Central Eurasian Studies.	<ul style="list-style-type: none"> <li>➤ Monthly faculty seminars</li> <li>➤ Newsletter of the Centre</li> <li>➤ Joint academic activities with University departments, other Universities, Consulate of Russia, Nehru Centre, MEA and ICSSR.</li> </ul>
4.	Department of Sociology	<ul style="list-style-type: none"> <li>➤ Weekly seminar by faculty members</li> </ul>
5.	Department of Philosophy	<ul style="list-style-type: none"> <li>➤ Two teachers were awarded fellowships under Faculty Improvement Programme (FIP) of the UGC for their Ph. D. work.</li> </ul>
6	Department of Applied Psychology	<ul style="list-style-type: none"> <li>➤ Three faculty members are recognized as a HIV/AIDS Counseling Trainers by National AIDS Control Association.</li> <li>➤ Two faculty members completed orientation course.</li> </ul>

### 8. Total number of seminars/workshops conducted

A total number of 47 workshops/seminars/lectures were organized by 16 departments of the University. The details are as follows.

Sr.No.	Department	Seminar/Workshop details
1	Jamnalal Bajaj Institute of Management Studies	Conducted 7 Management Development Programs for: <ul style="list-style-type: none"> <li>➤ IPS officers (2-7 January 2006).</li> <li>➤ College of Naval Welfare (May 2005- Sept. 2005).</li> <li>➤ Certificate Programme on Capital Markets (B.S.E.)</li> <li>➤ MDP-Finance for non-Finance executives (28<sup>th</sup> November 2005- 2<sup>nd</sup> December 2005).</li> <li>➤ MDP for Senior Managers Mahafransco (23-25 September, 2006).</li> <li>➤ Two days International conference on New frontiers in Indian Industry.</li> <li>➤ Planning commission-GOI</li> <li>➤ Conducted 4 Projects on a) Handloom &amp; Handicraft, b) Good Governance, c) Industrial Growth and d) Tourism.</li> </ul>
2	Department of Statistics	<ul style="list-style-type: none"> <li>➤ Seminar – 1</li> </ul>
3	Department of Computer Science	<ul style="list-style-type: none"> <li>➤ Organized following seminars/workshops:</li> <li>➤ ‘Career in Computer Science’ for students by Prof. Ashif Tejani, Senior Academic, Department of Artificial Intelligence and Interactive Multimedia, Harrow School of Computer Science, University of Westminster on 6<sup>th</sup> April, 2005.</li> </ul>
		<ul style="list-style-type: none"> <li>➤ ‘Laboratory practical on Embedded System’ for University affiliated College teachers of Computer Science on 21<sup>st</sup> October, 2005.</li> <li>➤ Workshop on ‘Laboratory Practicals of M. Sc. Part II (Computer Science)’ for affiliated college teachers of Computer Science on 17<sup>th</sup> January, 2006.</li> </ul>

4	Lok-Kala Academy	<ul style="list-style-type: none"> <li>➤ Workshops – 04</li> <li>➤ Seminar - 01</li> </ul>
5	Department of Music	<ul style="list-style-type: none"> <li>➤ Seminar on ‘Raag Ek Vichar Anek’ conducted on 21<sup>st</sup> &amp; 22<sup>nd</sup> January, 2010.</li> </ul>
6	Academy of Theatre Arts	<ul style="list-style-type: none"> <li>➤ Seminar – 01</li> <li>➤ Workshops - 02</li> <li>➤ National Programme: Vasant Natyotsav (Theatre Festival)</li> </ul>
7	Department of Russian	<ul style="list-style-type: none"> <li>➤ Invited Lectures: 05</li> <li>➤ Demonstration Class: 01, Workshop: 01</li> </ul>
8	Department of French	<ul style="list-style-type: none"> <li>➤ Workshop for teachers on ‘Phonetics’ (1<sup>st</sup> to 3<sup>rd</sup> December 2005) in collaboration with Indian Association of French Teachers.</li> </ul>
9	Department of Sanskrit	<ul style="list-style-type: none"> <li>➤ Seminar – 01</li> <li>➤ Workshop – 01</li> </ul>
10	Department of Urdu	<ul style="list-style-type: none"> <li>➤ National Seminar on ‘Linguistic and Literary Relationship between Urdu &amp; Sanskrit’ (30<sup>th</sup> November, 2005).</li> <li>➤ One day Workshop on ‘Problems of Teaching Urdu in D.Ed./B.Ed. Colleges of Mumbai (1<sup>st</sup> December, 2005).</li> <li>➤ National Seminar on ‘Art &amp; Contemporary Relevance of Munshi Prem Chand’ (6<sup>th</sup> - 7<sup>th</sup> December 2005).</li> <li>➤ ‘An evening with famous story writer Hameed Saharwadi’ (30 March, 2006).</li> <li>➤ Student Seminar on ‘Contemporary Urdu Research’, (7<sup>th</sup> October, 2006).</li> <li>➤ ‘Inshaaeeya : Fan Aur Riwayat’ by Prof. Dr. Mohammad Zaman Azurda, Renowned Scholar, Recipient of Sahitya Akadamy Award for Kashmiri and Retired Professor &amp; Head, Department of Urdu Kashmir University, (31<sup>st</sup> Aug, 2005).</li> </ul>

		➤ Special lectures on “Nasurati, ki Qasida Nigari” by Dr. S. Masood Siraj, Head, Department of Urdu, Mysore University. (16 - 18 January, 2006).
11	Department of Marathi	➤ Lecture Series – 01, Visiting Lectures– 03
12	Department of Sindhi	➤ International Seminar ‘Media & Sindhi Language’ organized by Department, (1 <sup>st</sup> March, 2006).
13	Department of Gujarati	➤ Two days National Seminar on “Gujarati Literature in 19 <sup>th</sup> Century” ➤ Special lecture by Mr. Sitanshu Mehta.
14	Department of Geography	➤ Organized XIII <sup>th</sup> Annual National Conference on ‘Cities and Regions in India: Emerging Challenges’, (December 16-17, 2005) in collaboration with Bombay Geographical Association, Mumbai. The conference was sponsored by the University of Mumbai and I.C.S.S.R, Western Regional Centre.
15	Department of History	➤ Workshops – 03
16	Department of Civics and Politics	➤ Seminar on ‘The Political Economy of Maharashtra’ (27-29 March, 2006)
17	Department of Economics	➤ National Conference on ‘ <i>Engendering Macroeconomics and Macroeconomic Policies</i> ’, NCPA, Mumbai, 29-30 September 2005. Sponsored by Department of Women and Child Development, Government of India, and HDRC-UNDP. ➤ Two day mentoring workshop for Ph.D students on Development Economics
18	Department of Applied Psychology	➤ Three seminars ➤ /four workshops

9. Research projects a) Ongoing; b) Completed

Sr. No.	Department	Project details	Status
1	Institute of Distance and Open Learning	➤ Major Research Project on ‘Teacher Education Programme through Distance Education Mode’, funded by DEC & IGNOU (P.I. – Prof. D. D. Harichandan, Director)	<b>Completed</b>
2	Department of Marathi	➤ UGC Major research project on ‘Collection and Critical Study of the performing Folk Art Forms of South Konkan Region i.e. Ratnagiri and Sindhudurg Districts’ (P.I. Dr. Pushpalata Rajapure-Tapas.	<b>Ongoing</b>
3	Department of Sindhi	<ul style="list-style-type: none"> <li>➤ ‘Bharat Mein Sindhi Boli – A Mein Tabdeel’</li> <li>➤ Philosophical thought in poetry of Latif and Sami</li> <li>➤ Ram Panjwani – Abib Ain Funkar</li> </ul>	<b>Ongoing</b>  <b>Ongoing</b>  <b>Ongoing</b>
4	Department of Gujarati	<ul style="list-style-type: none"> <li>➤ ‘Female Image in Medieval Gujarati Literature’.</li> <li>➤ ‘The Politics of Aadi granth Manusmriti &amp; the relevance of it’s Values in Cotemporary Indian Society’,</li> <li>➤ ‘A Critical study of The Fiction work by the Bombay Based Gujarati Writers: in the special context of Social, Political &amp; Cultural impact in their work’.</li> <li>➤ ‘A Comparative Study on medieval Gujarati Poets Akho &amp; Kabir : In the special context of Medieval Indian Society &amp; Bhakti Culture’.</li> </ul>	<b>Ongoing</b>  <b>Ongoing</b>  <b>Ongoing</b>  <b>Ongoing</b>

		➤ Post Freedom- Marathi Poems : With detailed introductory note, Critical analysis, interviews of the poets with anthology. Translated in to Gujarati	<b>Completed</b>
5	Department of Philosophy	➤ Project on Studies and Civilization	<b>Ongoing</b>
6	Department of Geography	➤ ‘Status of Urban Water Supply in India’ funded by the Association of Commonwealth Universities, U.K. (P.I.- Dr. S. Banerjee – Guha) ➤ ‘Changing Patterns of Agricultural Commodity Flows in the Hinterland of a Metropolis: A Study of the Raigad District of Maharashtra’ (P. I. Dr. Smita Gandhi)	<b>Ongoing</b>  <b>Ongoing</b>
7	Lok-Kala Academy	➤ ‘Traditional Jargran of Khandoba: Literary elements of oral script & Performing elements of Jagran (P.I. Prof. Prakash Khandge) ➤ ‘Traditional Tamasha: Literary elements of tamasha performance and the science of performing folk art tamasha (P.I. Ganesh Chandanshive)	<b>Ongoing</b>  <b>Ongoing</b>
8	Department of Economics	➤ Mumbai: Fact File and Budgetary Analysis with Marie-Helen Zerah for Center de Sociale Humaines (CSH), New Delhi. 2005. P.I. Abhay Pethe. ➤ Economic and Financial Feasibility of Salem – Coimbatore Stretch of NH 17. ➤ Economic and Financial Feasibility of Nagpur – Hyderabad Section of NH 7. (P. I.: Prof. S. Sriraman, C. I.: Prof.	<b>Ongoing</b>  <b>Completed</b>  <b>Completed</b>

		Manisha Karne). ➤ Inter-dependence Between Government Revenues and Expenditures: Evidence for India, P.I.: <b>Dr. Swati Raju</b>	<b>Completed</b>
9	Department of Applied Psychology	➤ Three minor research projects	<b>Ongoing</b>

## 10. Patents generated if any

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## 11. New collaborative research programmes

New collaborative projects with International and National Institutes were undertaken as mentioned below.

❖ *Lok-Kala Academy and Ministry of Higher Education, Govt. of Maharashtra & Western Zone Cultural Centre, Mumbai*

- For setting up a chair 'Shahir Amarshaikh Adhyasan' for the research and documentation of diminishing folk art forms of Maharashtra.
- Conducted Research Workshop on the occasion Parampara Mahostav.

❖ *Department of Philosophy and K. J. Somaiya Centre for Buddhist Studies*

- Organized an International Seminar on 'Dharma and Abhidharma'.

❖ *Department of Physics*

✓ **International Collaborations**

- Prof A.D.Yadav with Prof D.A.Zatsepein et al, Institute of Metal Physics, Ural Division, Russian Academy of Sciences, Russia in the project "Specific features of steady-state implantation of crystalline silicon with molecular oxygen"
- Prof A.M.Narsale with Prof L. Guzman and Prof A. Miotello, Department of Physics, University of Trento, Italy in the project "TiN thin films and polymer films"



- Prof A.M. Narsale (and Dr S. Radha) with Dr A. Chainani, Spring8 Synchrotron facility, Riken, Japan during 2005-06 in the project “Photoelectron spectroscopic investigation of some Ga semiconducting compounds and rare earth intermetallic systems” An all expense paid trip to the synchrotron facility at Riken was extended to AMN and SR
- Prof D.C. Kothari with Prof A. Miotello, Department of Physics, University of Trento, Italy in the project “Tribological studies of thin films for decorative and protective coatings”
- Dr Anuradha Misra with Prof Laenen, Group Leader, Theory Group, NIKHRF, Amsterdam, Netherlands on “QCD Resummation”
- Dr Radha S with Prof S. H. Lim, University of Seoul, S Korea “Magnetic and transport measurements of rare earth magnetostrictive compounds”

✓ **National Collaborations**

❖ ***Inter-University Accelerator Centre (IUAC), New Delhi***

- Prof. A. D. Yadav with Dr. D. K. Awasthi “ERDA studies of silicon oxide/ nitride / oxynitride layers synthesized by ion implantation”; With Dr. D. Kanjilal “Swift heavy ion implantation of III-V compound semiconductors”
- Prof D. C. Kothari with Dr. D.Kanjilal\_“Surface modification of metals using MeV ion beams”
- Prof. A. M. Narsale with Dr. D. Kanjilal\_“Structural and electrical properties of high energy Si and Sn implants in GaAs”
- Prof Varsha Bhattacharyya with Dr. D.Kanjilal “Controlled growth of transition metal oxide nanocrystals in transparent insulating matrix using ion beams”
- Dr. S. K.Dubey with Dr. D. Kanjilal\_“Swift heavy ion implantation of III-V compound semiconductors”

❖ ***Tata Institute of Fundamental Research (TIFR), Mumbai***

- Prof Varsha Bhattacharyya with Prof E.V. Sampathkumaran “Magnetic properties of some rare earth intermetallics”
- Dr. M. R. Press with Dr S. N. Mishra “Magnetic properties and hyperfine interaction parameters of isolated impurities in elemental or alloy hosts”

- Prof. A. D. Yadav with Prof B. M. Arora\_“ Low temperature I-V measurements”
- Dr. S. K. Dubey with Prof B.M. Arora\_“Ion implantation structure of GaSb”
- Dr. Radha Srinivasan with Prof A. K. Nigam “Magnetic and transport properties of rare earth intermetallic compounds at moderate magnetic fields and low temperatures”

❖ ***Bhabha Atomic Research Centre (BARC), Mumbai***

- Prof. A. D. Yadav with Dr. D. Bhattacharyya, Spectroscopy Division on “Ellipsometric studies of semiconducting compounds”
- Prof. D. C. Kothari with Dr. S. Bannerjee, “TEM investigations of Ni<sub>4</sub>Mo LRO and SRO after MeV ion irradiation
- Dr. B. J. Nagare with Dr. Swapan Ghosh, Chemistry Division, “Modeling and simulation of metal nanostructures by DFT calculations”

❖ ***UGC-DAE CSR Centres:***

- Prof. A. D. Yadav with Dr. Mukul Gupta, Mumbai “Fe and N diffusion mechanism in FeN using neutron reflectivity”
- Prof. Varsha Bhattacharyya with Dr. Shripati, Indore “Valence studies of rare earths adsorbed on metals”
- Dr. S. K. Dubey with Dr. S. K. Deshpande, Indore “Iron based nanoclusters in silicon”

❖ ***Indian Institute of Technology, Mumbai***

- Prof. A. D. Yadav with Dr. T. K. Gundu Rao, RSIC, “FTIR studies on some semiconducting materials”
- Prof. Varsha Bhattacharyya with Dr. T. K. Gundu Rao “Raman spectroscopic and ESR studies of TiO<sub>2</sub> nanophase”
- Dr. S. K. Dubey with Dr. T. K. Gundu Rao “ESR and Raman studies of ion implanted III-V compound semiconductors”
- Dr. Radha S. with Dr. K. G. Suresh, Physics Dept, “Magnetic studies of some rare earth intermetallic compounds”

❖ ***Indian Institute of Mathematical Sciences (IIMS), Chennai***

- Dr. Anuradha Misra with Prof. Rahul Basu, Theory Group on “QCD Resummation”

❖ *University of Pune, Pune*

- Dr. B. J. Nagare with Prof D. G. Kanhere, Physics Department, “Modeling and simulation of metal nanostructures by DFT calculations”

**12. Research grants received from various agencies**

Sr. No.	Department	Funding Agency	Total Grants in ₹
1	Department of Chemistry	DST BRNS	20 lakhs 28 lakhs
2	Department of German	UGC, German Academic Exchange Service (DAAD)	----
3	Department of Philosophy	I.C.P.R, U.G.C and Bhagirati Trust	----
4	Department of Geography	U. G. C. Mumbai University	Rs. 5 lakhs Rs. 20,000
5	Centre for Central Eurasian Studies.	UGC, MEA, ICSSR & University of Mumbai	----

**13. Details of research scholars**

During this year, 324 students were enrolled for M. Phil. and Ph. D. degrees. The number of students who completed their Ph. D./ M. Phil. degrees was 45.

Sr. No.	Department	No. of research scholars	No. of research scholars who have obtained research degrees
1	Institute of Distance and Open Learning	---	02
2	Jamnalal Bajaj Insitute of Management Studies	13	02
3	Department of Statistics	02	---
4	Department of Physics	58	02
5	Department of Chemistry	M. Sc. (res.) - 32 Ph.D. – 73	M.Sc. (res.) - 07 , Ph. D. – 09.

6	Department of Computer Science	01	----
7	Department of Commerce	10	03
8	Department of Linguistics	Ph.D. – 03	Ph. D. – 01
9	Department of Russian	01	---
10	Department of German	04	01
11	Department of Persian	03	---
12	Department of Sanskrit	Ph. D. – 14	---
13	Department of Hindi	M. Phil. - 17, Ph. D. - 04	M. Phil. – 02, Ph. D. – 02
14	Department of Urdu	05	01
15	Department of Marathi	Ph. D. - 01	Ph. D. – 01
16	Department of Sindhi	M. Phil. - 06, Ph. D. - 03	---
17	Centre for Central Eurasian Studies	Ph. D. - 07	---
18	Department of Sociology	Ph. D. - 42	---
19	Department of Philosophy	M. Phil. – 07, Ph. D. - 05	M. Phil. – 01, Ph. D. – 01
20	Department of Civics and Politics	18	---
21	Department of Geography	08	---
22	Department of History	M. Phil - 09, Ph. D - 20	---
23	Department of Economics	----	<b>04</b>
24	Department of Applied Psychology	07	---

#### 14. Citation index of faculty members and impact factor

➤ **Department of Chemistry**

Citations: 164

Impact Factor: 53.747

➤ **Department of Philosophy**

Faculty research is cited by major universities in India for teaching courses

➤ **Department of History**

All faculty members' works has been cited frequently. Impact factor is high.

➤ **Department of Applied Psychology**

Faculty members regularly contribute papers to various journals and write books/book chapters, etc at national and international level. The citation index and impact factor is not available for social sciences journal in general and most Indian journals in particular.

**15. Honours/Awards to faculty: National and International**

Sr.No.	Department	Faculty Name	Honours/Awards
1	Department of Chemistry	Dr. S. S. Garje	BOYSCAST Fellowship
		Prof. A. K. Srivastava	Visiting Professor at Michigan Tech. University, USA
2	Department of Marathi	Dr. Vasant Patankar	Sahitya Sameekshak Puraskar by Mumbai Marathi Sahitya Sangh.
		Dr. Pushpalata Rajapure-Tapas	Drama Critique Award in memory of Dr. V.D. Kulkarni.
3	Department of Sindhi	Dr. Baldev B. Matlani	Best Teacher Award from University of Mumbai.
4	Department of History	Dr. Ruby Maloni	Elected Executive Committee Member, Indian History Congress
		Dr. Mariam Dossal	Executive Council Member of the Indian Council of Historical Research
		Dr. Kishor Gaikwad	Associateship awarded by Advanced Institute of Social Sciences, Shimla

		Dr. Manjiri Kamat	Prof. B. B. Chaudhari Prize and a Certificate for the best paper on the Economic and Social History of India presented at the 66 <sup>th</sup> Annual Session of the Indian History Congress held at Visva- Bharati, Santiniketan in January 2006.
5	Department of Philosophy	➤ Faculty members have been invited as experts on academic committees and boards of other Universities in the country	
6	Department of German	➤ UGC Professor courses in German and Japanese Language offered at beginners, intermediate and advanced level ???	

## 16. Internal resources generated

Garware Institute of Career Education and Development generated a significant amount of Rs. 21 Lakhs through its various courses

Sr.No	Department	Resources generated
1	Garware Institute of Career Education and Development	Rs. 21 Lakhs
2	Dr Ambedkar Centre for Social Justice	YES (through Sale of Brochures, Handbooks, Admission Forms, etc)
3	Applied Psychology & Counseling Centre	Through Counseling Centre of UDAP. Approx.7, 500/- to 10,000/- every year.
4	Department of Philosophy	Fees from the students enrolled for self-sustaining courses Registration fees for conducting Conference and workshops Indian council of Philosophical Research funding for International Philosophy Day

5	Department of Civics and Politics	Sales of admission forms of various courses, syllabus copies of various courses, sale of departmental publications
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**17. Details of departments getting assistance/recognition under SAP, COSIST(ASSIST)/DST FIST and other programmes**

Sr.No.	Department	Programme
1	Department of Physics	DST – FIST Level II UGC-SAP DRS II
2	Dr. Ambedkar Centre for Social Justice	UGC
3	Centre for Central Eurasian Studies.	UGC
4	Department of Sociology	UGC-SAP Programme (1 <sup>st</sup> Phase)
5	Department of Civics and Politics	SAP and ASIHSS
6	Department of Economics	UGC - CAS and ASIHSS

**18. Community services**

❖ **Lok-Kala Academy**

- Lok-Kala Academy has taken initiative to organize Maharashtra Festival at Thane, Maharashtra,
- Helped the flood affected people and donated `51,000/-

❖ **Department of Music**

- Assistance to Sur Singer Samsad

❖ **Academy of Theatre Arts**

- Organized National Festival & two Workshops which were attended by general public.

❖ **Department of Sanskrit**

- The faculty members of the department gave public lectures on different topics related to Sanskrit in order to create awareness amongst people regarding our ancient heritage.

❖ **Department of Applied Psychology & Counseling Centre**

- The department has a counseling centre. It is active and serves the community. The psychological assessment, guidance and counseling services are provided to the people with reasonable charges that are approved by the department.

❖ **Centre for Central Eurasian Studies.**

- Faculty delivers public lectures at various forums

❖ **Department of Philosophy**

- The following Certificate Diploma Course are being conducted over weekends for the self- development of general public:
  - (i) Certificate Course in Foundations in Yoga (6 months)
  - (ii) Diploma Course in Yoga- 1 year
  - (iii) Advanced Diploma in Yoga
  - (iv) Certificate Course in Jainism
  - (v) Diploma in Jainism
  - (vi) P.G. Diploma in Indian Aesthetics
  - (vii) Diploma in Buddhist Studies & Vipassana
  - (viii) Cert. Course in Vallabh Vedanta

❖ **Department of Geography**

➤ **Dr. S. Banerjee- Guha:**

1. Invited as an expert to Participate at the ‘Annual Consultation Meet of Equations’, in Bangalore, on 26<sup>th</sup> and Chaired the final plenary session on 27<sup>th</sup> April, 2005.
2. Delivered an invited talk on ‘New Social Movements’ at the Twentieth Year Consultation organized by The State of Indian Tourism: Developing Models of Stewardship,’ EQUATIONS on 5-7 July, 2005.

➤ **Dr. Smita Gandhi**

1. Participated as a resource person in a training workshop of **Jeevanshala Teachers** organized by the **Narmada Bachao Andolan**, at Shahada, Dhule on May, 8-9, 2005.



2. Invited by the **Yusuf Meherally Centre (YMC), Mumbai**, to participate in a pilot assessment survey carried out for assessing the feasibility of extending Tourism Development Component at Bhadreswar, Kutch, a village rehabilitated by the YMC after the earthquake in Kutch (15-16 Jan., 2006)

❖ **Department of History**

➤ Yes

**19. Teachers and officers newly recruited**

Sr. No.	Department	No. of teachers
1	Jamnalal Bajaj Insitute of Management Studies	Readers – 03, Lecturers - 04
2	Department of Computer Science	Lecturers – 02
3	Department of Information Technology	Lecturers -10(Temporary)
4	Lok-Kala Academy	Readers – 01, Lecturer - 01
5	Department of Music	Honorary Music Instructors - 03
6	Department of Urdu	Lecturer – 01(adhoc position)
7	Dr. Ambedkar Centre for Social Justice	Visiting Faculty
8	Department of Philosophy	Endowment – 01

**20. Teaching – Non-teaching staff ratio**

Sr. No.	Department	Ratio
1	Institute of Distance and Open Learning	1:8
2	Jamnalal Bajaj Insitute of Management Studies	8:52
3	Department of Statistics	5:6
4	Department of Physics	1:0.61
5	Department of Chemistry	1:2.2
6	Department of Biotechnology	2:0
7	Department of Computer Science	3:4
8	Department of Information Technology	10:5
9	Department of Commerce	3:4
10	Lok-Kala Academy	2:1

11	Department of Music	2:3
12	Academy of Theatre Arts	3:1
13	Department of Linguistics	1:2
14	Department of Russian	2:1
15	Department of French	3:2
16	Department of German	3:2
17	Department of Persian	1:0
18	Department of Sanskrit	2:1
19	Department of Hindi	4:4
20	Department of Urdu	1:2
21	Gurudev Tagore Chair of Comparative Literature	1:2
22	Department of Marathi	5:6
23	Department of Sindhi	2:2
24	Department of Gujarati	1:1
25	Department of Physical Education	2:0
26	Dr Ambedkar Centre for Social Justice	1:3
27	Centre for Central Eurasian Studies.	9:7
28	Department of Sociology	9:10
29	Department of Philosophy	6:--
30	Department of Civics and Politics	8:10
31	Department of Geography	10:9
32	Department of History	7:4
33	Department of Applied Psychology	8:11

## 21. Improvements in the library services

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## 22. New books/journals subscribed and their value

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### **23. Courses in which students' assessment of teachers is introduced and the action taken on student feedback**

The assessment of teachers by the students was carried out by individual departments as mentioned below. The teachers were made aware of the feedback received from the students and were urged to take appropriate steps to incorporate these suggestions, if any, while teaching the respective courses.

- **Department of Statistics:** M.A., M.Sc.
- **Department of Physics:** M.Sc. Part I, M.Sc. Part II
- **Department of Chemistry:** M. Sc. I & II
- **Lok-Kala Academy:** P. G. courses
- **Department of Music:** All Diploma, Degree and P.G. courses
- **Department of Academy of Theatre Arts:** Master of Theatre Arts (MTA)
- **Department of Linguistics:** All Course in the M.A. Programme
- **Department of Urdu:** All P. G. Courses.
- **Department of Sindhi:** M.A.
- **Centre for Central Eurasian Studies:** P.G. Courses
- **Department of Sociology:** M. A.
- **Department of Philosophy:** M A. Courses
- **Department of History:** M. A.

### **24. Feedback from stakeholders**

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### **25. Unit cost of education**

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### **26. Computerization of administration and the process of admissions and examination results, issue of certificates**

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## 27. Increase in infrastructural facilities

Sr. No.	Department	Infrastructure
1	Jamnallal Bajaj Institute of Management Studies	➤ Installed LCDs, AC in few classrooms Installed wi-fi system in the institute.
2	Department of Chemistry	➤ Added many instruments in different laboratories.
3	Department of Computer Science	<ul style="list-style-type: none"> <li>➤ Purchased 50 nos. of Desk-cum-Chairs for Auditorium.</li> <li>➤ Purchased 5 nos. of Window Air-Conditioners for Computer Laboratory</li> <li>➤ Purchased 25 nos. of Personal Computers for Computer Laboratory.</li> <li>➤ Renovation of Study Room and Computer Laboratory-I</li> </ul>
4	Department of Commerce	➤ Purchased 3 Computers, 3 Printers, 1 Laptop, 1 Television with Trolley, 1 Xerox Machine, 1 LCD Projector, 1 DVD Player 1 Cordless Mike, 1 Cordless Neck Mike and 2 Speakers
5	Lok-Kala Academy	➤ Infrastructural facilities like audio- video equipment, cameras, sound recording system, various musical instruments, costumes and other folk theatre property was acquired and provided to students. Some of the existing facilities were upgraded by way of getting more instruments to the students.
6	Department of Russian	➤ Purchased One Laptop & One Computer
7	Department of German	<ul style="list-style-type: none"> <li>➤ Computers and internet access to p. g. students, research scholars and teachers were provided.</li> <li>➤ New books procured for the Department Library.</li> <li>➤ Started preparations for the construction of an audio-visual lecture room.</li> </ul>

8	Department of Persian	➤ Provided books from Departmental Library, Computers and Internet access to students, research scholars and teachers
9	Department of Hindi	➤ Augmented furniture & computational facilities
10	Department of Marathi	➤ Augmented furniture & computational facilities
11	Department of Physical Education	➤ Acquired classroom furniture
12	Centre for Central Eurasian Studies.	➤ Computer lab, Documentation Unit (Library) Seminar room were made available to academic staff and students
13.	Department of Sociology	➤ Acquired air conditioner for seminar room
14.	Department of Philosophy	➤ Upgraded two rooms for the fscult Upgraded Yoga practice room
15.	Department of Civics and Politics	➤ Acquired a Laptop with original software, 2 Laser Jet Printers, 2 Tables for Printer, 3 UPS, 1 Projector, 5 Computers and 2 Scanners
16	Department of Applied Psychology	➤ The new floor (first floor) is constructed and major structural change is made in the building of the department. This resulted in the addition of one 100 seater auditorium, a seminar room and a laboratory.
17.	Department of Geography	➤ Set up 25 computer systems. Installed GIS and Image processing softwares such as Arc GIS, Map info, Idrisi, Surfer, and ERDAS. ➤ Procured a scanner for scanning large scale topographical and other maps. Set up seminar room with audio system. ➤ Dynascan variety of tracing tables were added. ➤ Acquired appropriate laboratory furniture.
18.	Department of History	➤ Set up a new Seminar Hall & an adjunct faculty room.

## 28. Technology up-gradation

Sr. No.	Department	Facilities upgraded
1	Department of Physics	➤ The Faculty members delivered lecture/presentation by OHPs, slide projectors and LCD projectors for Power Point presentations.
2	Department of Chemistry	➤ Power Point presentations and simulation of laboratory experiments on computers
3	Academy of Theatre Arts	➤ Hi-Fi Camera Techniques & New teaching methods for the students along with new CD, VCD, DVD library. Personal Direction, acting opportunities to the students under the guidance of eminent theatre personalities.
4	Department of Linguistics	➤ Use of Audio-Visual methods and Computers in Teaching
5	Department of Russian	➤ Use of Laptops and LCD Projector.
6	Department of French	➤ Use of Laptops and LCD Projector in class room presentations
7	Department of German	➤ Use of Laptops and LCD Projector, OHP and CD Players
8	Department of Hindi	➤ Use of Computers in teaching
9	Department of Marathi	➤ Use of Computers, DVD Players in teaching
10	Department of Sindhi	➤ Use of audio-visual methods
11	Dr Ambedkar Centre for Social Justice	➤ Use of Laptop, Power Point presentation and LCD Projectors
12	Centre for Central Eurasian Studies.	➤ Extensive use of projector, power point presentation, computers in teaching and research
13	Department of Philosophy	➤ Teaching with the help of OHP, laptop and LCD projectors Film clips used while teaching
14	Department of Civics and Politics	➤ Use of Laptop for Lectures and programmes

15	Department of Geography	➤ A one week training programme for the faculty and technical staff was organized in the first week of June, 2006 to train the participants in the ARC-GIS software applications
16	Department of Applied Psychology	➤ Added OHP, computers etc.

## **29. Computer and internet access and training to teachers, non-teaching staff and students**

Computer facilities and internet access have been provided to teachers, students and non-teaching staff of following 17 departments listed below.

1. Jammalal Bajaj Institute of Management Studies
2. Department of Statistics
3. Department of Chemistry
4. Academy of Theatre Arts
5. Department of Linguistics
6. Department of German
7. Department of Persian
8. Department of Hindi
9. Department of Marathi
10. Department of Sindhi
11. Dr Ambedkar Centre for Social Justice
12. Centre for Central Eurasian Studies.
13. Department of Sociology
14. Department of Philosophy
15. Department of Civics and Politics
16. Department of Geography
17. Department of History
18. Department of Applied Psychology

## **30. Financial aid to students**

Rs. 9,47,600/-

### 31. Activities and support from the Alumini Association

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### 32. Activities and support from the Parent-Teacher Association

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### 33. Health services

Health center was started.

### 34. Performance in sports activities

- ✓ **Five Zone Basis:** 1] Kabaddi (M), 2] Kho- Kho (M), 3] Volleyball (M), 4] Cricket (M)
- ✓ **One Zone Basis:** 1] Basketball(M&W), 2] Boxing, 3] Carrom(M&W), 4] Chess (M&W)  
5] Cross Country(M&W), 6] Cycling, 7] Football (M&W), 8] Handball (M&W), 9] Hockey(M&W), 10] Judo(M&W), 11] Gymnastic (M&W), & Mallkhamb(M), 12] Power Lifting (M&W), 13] Weight Lifting & Best Physique(M), 14] Table Tennis(M&W), 15] Tennis (M&W), 16]Swimming(M&W), & Water Polo(M), 17]Volleyball(W), 18] Wrestling (M), 19] Shooting (M&W), 20] Softball (M&W), 21] Ball Badminton (M&W), 22] Squash (M&W), 23] Badminton (M&W), 24] Half Marathon (M&W), 25] Yoga (M&W), 26] Kabaddi (W), 27] Kho-Kho (W), 28] Athletics (M&W)

#### ➤ **Participation in Inter University Tournaments:**

One the recommendations of the Selection Committees in the respective games, the University deputed its teams for participation in the following Inter-University Sports & Tournaments held in the year 2005-2006.

- |                        |                          |
|------------------------|--------------------------|
| 1. Atilletic (M&W)     | 2. Basketball (M)        |
| 3. Boxing (M)          | 4. Ball Badminton (M&W). |
| 5. Chess (M&W)         | 6. Cricket (M&W)         |
| 7. Cross Country (M&W) | 8. Football (M).         |
| 9. Malkhamb (M&W)      | 10. Handbali (M)         |
| 11. Hockey (M&W)       | 12. Judo (M&W).          |



- |                                |  |
|--------------------------------|--|
| 13. Kabaddi (M&W)              | 14. Kho-Kho (M&W)                      |
| 15. Power Lifting (M&W)        | 16. Weight Lifting & Best Physique (M) |
| 17. Swimming (M&W)& Water Polo | 18. Volleyball (M)                     |
| 19. Wrestling (M)              | 20. Table Tennis (M)                   |
| 21. Tennis (M&W),              | 22. Softball (M&W)                     |
| 23. Tennis (M&W)               | 24. Softball (M&W)                     |

The Position Obtained by our teams/individual at the said tournaments are as under:

➤ **Individual Positions:**

- |                     |   |
|---------------------|---|
| Diving :            | Shri Tushar Gitaye – Sathaye<br>Gold & Silver Medal   |
| Power Lifting :     | Kum. Sushma Patil- CHM First Place<br>Kum. Geeta Yadav- B.Ed. College Second Place.<br>Kum. Sampada Dhapatkar- B.P.C.A. College Third Place<br>Kum. Saraswati Gunjal – Ruai First Place |
| Malkhamb :          | Shri Rajesh Rao – Ruparel College Second Place<br>Shri Kalpesh Jadhav – Chinai College Third Place  |
| Athletic :<br>jump: | Shri Sushant Bengera – Khandwala College 1st Place Tripple<br>Shri Dhanraj Jogi – Mulund College Third Place – 110 Hurdles  |

➤ **Team Position :**

- |                   |   |
|-------------------|---|
| Cricket (M)       | :All India Inter University - Winner      |
| Malkhamb (M)      | :All India Inter University - Winner      |
| Rope Malkhamb (M) | :All India Inter University - Winner      |
| Power Lifting (W) | :All India Inter University - Winner      |
| Tennis (W)        | :All India Inter University - Runners-up  |
| Kabaddi (W)       | :All India Inter University - Runners-up  |
| Kho-Kho (M)       | :All India Inter University - Runners-up  |
| Kabaddi (M)       | :All India Inter University - Third Place |
| Kabaddi (M)       | :West Zone - Winner                       |
| Football (M)      | :West Zone - Winner                       |

Hockey (M)	:West Zone -Winner
Cricket (M)	:West Zone -Winner
Table-Tennis (M)	:West Zone - Winner
Kabaddi (W)	:South West Zone- Winner
Kho-Kho (M)	: South West Zone- Runner-up

➤ **Organization of Inter-University Tournaments :**

The All India Inter University Cross country race (Men & Women) 2005-2006 was hosted by the University 10th December, 2006. At P. D. Karkhanis College, Ambarnath. 60 in Men & 40 in Women University teams from all over India took part in this Tournaments.

Inter University Inter Zonal Cricket (Men) Tournament for Vizzy Trophy 2005-2006.

Vizzy Trophy Cricket Tournament was organized by Mumbai University with technical support of Mumbai Cricket Association from 3rd to 10th February, 2006 at Wankhede Stadium, Bombay Gyn khana and D.Y Patil Sport Academy ground. South Zone won the Vizzy Trophy & East Zone were Runners-up.

**35. Incentives to outstanding sportpersons**

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**36. Student achievements and awards**

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**37. Activities of the guidance and Counseling unit**

The guidance and counseling centre of Department of Applied Psychology provides guidance and counseling to the students and other individuals.

**38. Placement services provided to students**

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**39. Development programmes for Non-teaching staff**

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#### **40. Good practices of the institution**

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#### **41. Linkages developed with National/International, academic/research bodies**

##### **❖ Centre for Central Eurasian Studies and**

- ✓ Other academic institution in Russia and CIS

##### **❖ Department of Physics and**

- ✓ Institute of Metal Physics, Ural Division, Russian Academy of Sciences, Russia
- ✓ Department of Physics, University of Trento, Italy
- ✓ Spring8 Synchrotron facility, Riken, Japan
- ✓ Theory Group, NIKHRF, Amsterdam, Netherlands
- ✓ University of Seoul, South Korea

##### **❖ Department of Applied Psychology**

Faculty members are involved in a collaborative work with various scholars across the globe.  
These linkages are at the level of individual faculty members.

#### **42. Action taken report on the AQAR of the previous year (i.e. (2004-05)**

Not Applicable

#### **43. Any other relevant information the institution wishes to add**

Students and teachers of Lok-Kala Academy had performed in the state level performances at Lokotsav, Verul Mahostav, Tamasha Festival, Lavni Festival, Parampara Festival, Rang Parampara Festival.

## **Section C: Outcomes achieved by the end of the year**

As planned, **Thirty three new courses** were started by sixteen Departments of the University during this year. Amongst these, the important U. G. courses were B. Sc. in Information Technology, Computer Science and Nautical Technology. The new P. G. courses in faculty of science were M. Sc. in Information Technology and Computer Science. In Social Sciences, five years integrated B.A./M.A. courses in French and German were introduced. In addition, post graduate diplomas in applied fields and certificate courses in performing folk arts were started in the University.

Syllabus revision of the subjects and academic reforms wherever necessary were carried out as planned by the respective departments. Garware Institute of Career Education and Development added new inter-disciplinary P.G. Dip. programmes in collaboration with industries and other institutes.

In an effort to improve the standard of the teaching programmes, eleven of the University Departments upgraded their existing syllabus and/or introduced more optional papers in their M.A., M. Sc., Diploma and certificate courses. Six departments introduced examination reforms by modifying the pattern of question papers for M.A/M.Sc. and other examinations for the benefit of the student community. Faculty of University Departments provided their guidance to the University students appearing for SLET/NET examinations as a result of which 76 students from 4 departments passed their NET and SLET examinations in the respective subjects.

A total number of 47 workshops/seminars/lectures were organized by 16 departments of the University as part of the academic and research activities in order to enhance and upgrade the knowledge of the teaching community in the respective subjects. Two young faculty members from Department of Philosophy were awarded UGC-FIP fellowships to pursue their Ph. D. work.

Five departments submitted new projects to various funding agencies like UGC, DST, BRNS, DAAD, ICSSR etc. Out of 15 ongoing projects two projects were completed by IDOL and Department of Gujarati and the required project completion reports were submitted to the concerned funding agencies. During this year, 324 students were enrolled in 22 departments for M. Phil. and Ph. D. degrees. The number of students who completed their Ph. D./ M. Phil. degrees was 45.

Departments of Physics, Sociology and Civics and Politics received special research grants under UGC-SAP and DST-Fist programmes.

Nine teachers from 5 departments received awards and honours from national institutions, State Governments and Mumbai University. Amongst these the prominent award winners were Dr. S. S. Garje and Prof. A. K. Srivastava of Department of Chemistry, Prof. Vasant Patankar and Dr. Pushpalata Rajapure-Tapas of Marathi Department, Dr. Baldev Matlani of Sindhi Department and Dr. Manjiri Kamat of Department of History. In the current year, out of 29 teachers, the total number 12 teachers were appointed on permanent positions.

During the current year, 17 departments upgraded their existing facilities or acquired new infrastructure facilities by way of augmenting their laboratories and lecture rooms with new instruments, desk-top PCs, Laptops etc. Fifteen of the University departments started using new technology tools which improved the teaching of their course work eventually benefitting the student community.

Centre for Central Eurasian Studies and Department of Physics established linkages to Universities and institutes in Russia, CIS, Italy, Japan, Netherlands and South Korea. The university students excelled in sports and cultural activities and won many awards/prizes. The University was able to implement almost all the activities which were planned for the year 2005-06.

## Section D: Plans of the HEI for the next year (i.e. 2006-07)

Some of the major activities to be carried out during the year 2006-07 will be as follows:

Introduction of new P.G. courses as well as M. Phil, Ph. D. programmes at UDCT, Centre for Central Eurasian studies, Department of Bio-technology and new P. G. Diploma course in Garware Institute of Career Education and Development. Revision of syllabi in the subjects wherever it is due.

New technologies like 1) online admissions and issuing of Hall Tickets, 2) multimedia projectors for lecture and lab programmes, 3) internet access to students and teachers will be made available to various departments.

Encourage departments and faculty members to submit research projects to UGC, DST, BRNS, ISRO etc for individual project grants and/or under DST-FIST, UGC-SAP programmes. The faculty, departments and institutes will be asked to start collaborative academic and research programmes in order to enhance the interaction between various organizations and which will benefit the academic community.

Signature:	Signature :
Name: Dr. R. S. Hande Director/Coordinator, IQAC	Name: Dr. Rajan Velukar Chairperson, IQAC