



(University with Potential for Excellence)

University of Mumbai

Fort, Mumbai - 400 032

Annual Quality Assurance Report (IQAR) of the IQAC

Report for the year 2008 – 2009

Annual Quality Assurance Report (IQAR) of the IQAC

Name of the Institution: University of Mumbai,

Fort, Mumbai - 400 032

Year of Report: 2008 – 2009

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

The major activities planned for quality enhancement during the year 2008-09 were as follows. New P. G. Diploma courses in Logistics & Supply Chain Management and Retail Operations Management to be conducted in Garware Institute of Career Education and Development. A Diploma course in Urdu Computer application and Multilingual D.T.P.

Revision of syllabi and examination reforms in the subjects wherever they were due. Use of technology like 1) multimedia projectors for lecture and lab programmes, 2) internet access to students and teachers. Encourage departments and faculty members to submit research projects to various funding agencies like 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 in order to benefit the academic community.

Section B: Details in respect of the following for the year 2008 – 2009

1. Activities reflecting the goals and objectives of the institution

To start new post graduate diplomas in applied fields. introduce syllabus revision of the subjects and academic reforms wherever necessary.

University Department of Statistics, University Department of Urdu, University Department of Pali and Garware Institute of Career Education and Development in collaboration with Industries and other Institutes proposed to add new job oriented P.G. Dip. Programmes certificate courses. Some examination reforms were introduced by some of the University Departments while some University Departments planned new/revised syllabi for their new/old courses. Many interdisciplinary activities were also started. Department of Economics conducted nationwide competitive entrance examination for the admissions and several new courses were drafted.

Faculty of University Departments was requested to provide their guidance to the University students appearing for SLET/NET examinations.

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 necessary funds were provided by the University in addition to the funds obtained from other sources.

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

The faculty was advised to start new collaborative research programmes with National and International academic/research institutes and industries. The departments were advised to submit new research projects and procure research grants for their research work. The departments were also 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, internet access in the lecture and laboratory programmes.

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

Six new courses, as listed below, were started by four Departments of the University during this year.

Sr.No.	Department	Academic Programme
1	Department of Statistics	<ul style="list-style-type: none"> ➤ Postgraduate Diploma in Actuarial Science (PGDAS)\ ➤ Postgraduate Diploma in Applied Statistics with Software (PGDASS)
2	Department of Pali	<ul style="list-style-type: none"> ➤ One Year Certificate course in Pali
3	Garware Institute of Career Education and Development	<ul style="list-style-type: none"> ➤ Postgraduate Diploma in Logistics & supply Chain Management (PGDLSCM). ➤ Postgraduate Diplomas in Retail Operations Management (PGDOM).
4	Department of Urdu	<ul style="list-style-type: none"> ➤ Diploma in Urdu Computer application and Multilingual D.T.P. ➤ Ali Sardar Jafri Memorial Lecture.

3. Innovations in curricular design and transaction

Sr.No.	Department	Innovations in curricular design and transactions
1	Department of Urdu	<ul style="list-style-type: none"> ➤ Syllabus prepared for D.T.P. Course in Urdu..
2	Department of Gujarati	<ul style="list-style-type: none"> ➤ Revised syllabus for M.A. Part I.

3	Department of Civics and Politics	<ul style="list-style-type: none"> ➤ Post Graduate Diploma Course in Consumer Protection ➤ Revision of Post Graduate Diploma Course in Human Rights Curriculum
4	Department of French	<ul style="list-style-type: none"> ➤ Organized a study tour to Jim Corbett National Park
5	Department of Applied Psychology	<ul style="list-style-type: none"> ➤ MA part I students design experiments and also prepare research proposal. ➤ Placement Brochures are developed for Social, Counseling, and Industrial psychology. ➤ The field work is a part of MA-II curriculum. Students are placed in Hospitals, NGOs Schools, Corporate and industries for a mandatory field work that provides hands on training. They also carry out research project. ➤ Role play, structured exercises, case-presentation, research projects, research proposal, workshop, book –journal club, etc are used to enrich students exposure and understanding.

4. Inter-disciplinary programmes started

Department of French started a cine club in collaboration with Alliance Francaise and Palador and screened Italian, French and Spanish movies for academic student community. It also organized a drama in collaboration with Academy of Theatre Arts, Mumbai University. The interdisciplinary courses are listed below.

Sr.No.	Department	Collaborating institute/(s)	Programme
1	Department of Applied Psychology	Centre for Disaster Management	<ul style="list-style-type: none"> ➤ Certificate Course in ‘Disaster Counseling’ ➤ The faculty members are part of four interdisciplinary research program developed for UPE.
2	Department of French	Alliance Francaise and Palador	➤ Cine Club (film society) screened film in Italian, French and Spanish
		Academy of Theatre Arts, Mumbai University	➤ Organized A theatrical Performance
3	Centre for Central Eurasian Studies	Other University Departments	➤ Inter-disciplinary P.G courses

5. Examination reforms implemented

Sr.No.	Department	Examination reforms
1	Department of Statistics	➤ Pattern of question papers for M.A/M.Sc. part I changed to improve the standard.
2	Department of Biophysics	➤ Started Term Examinations
3	Department of Gujarati	➤ External Annual Exam
4	Centre for Central Eurasian Studies.	➤ Adopted evaluation system of the Mumbai University

6. Candidates qualified: NET/SLET/Gate etc.

A total no. of 83 students passed their NET and SLET examinations in various subjects as listed below.

Sr.No.	Department	Subject	NET	SLET
1	University department of Chemical Technology (UDCT)	M. Chem. Engg	38	
		M. Pharm.	20	
		M.E (Plastic Engg.)	01	
		M.Tech.. (Textile)	03	
		M.Tech. (Foods)	08	
		M.Tech. (Polymer)	03	
		M. Tech. (Surface Coating)	01	
		M.Tech. (Pharma)	01	
2	Department of French	M. A. French	01	---
3	Department of Hindi	M. A. Hindi	02	02
4	Department of Gujarati	M. A. Gujarati	01	---
5	Department of Geography	M. A. Geography	02	---
6	Department of Physics	M. Sc. Physics	01	02

7. Initiative towards faculty development programmes

Prof. Mandar Bhanushe of IDOL attended an orientations courses organized by Academic Staff College of NEHU, Shillong. Some departments organized and conducted orientation and refresher programmes in collaboration with Academic Staff Colleges of Mumbai University. Centre for Central Eurasian Studies started a Newsletter of the centre and collaborative activities at National and International levels. The details are listed below.

Department	Name of the Teacher	Development Programme
Institute of Distance and Open Learning (IDOL)	<ul style="list-style-type: none"> Prof. Mandar Bhanushe 	<ul style="list-style-type: none"> Completed Orientation Course organized by NEHU, Shillong, Meghalaya
Department of Statistics	<ul style="list-style-type: none"> Conducted inter-disciplinary Refresher Course jointly with Department of Computer Science 	

Department of Sindhi	<ul style="list-style-type: none"> ➤ Dr. Manoharlal B. Matlani presented a paper on ‘Development of Sindhi Language in India’ at Dallas, Texas, USA at XXIV Annual Convention of Sindhi Association of North America,
Department of Pali	<ul style="list-style-type: none"> ➤ Attended and presentations paper by the faculty in the International Conferences ➤ Publication of Books- by Visiting Faculty.
Centre for Central Eurasian Studies	<ul style="list-style-type: none"> ➤ Held monthly faculty seminars ➤ Brought out Newsletter of the Centre ➤ Organized joint academic activities with University departments, other Universities, Consulate of Russia, Nehru Centre, MEA, ICSSR etc., ➤ Started collaboration with other academic institution in Russia and CIS.

8. Total number of seminars/workshops conducted

Four International conferences, 6 National Conferences and a significant number of seminars, workshops, lecture series were conducted by various departments. The details are as follows.

Department	Seminar/Workshop details
Department of Pali	<ul style="list-style-type: none"> ➤ 2 days workshop in Brahmi Script and Pali Language
Department of Civics and Politics	<ul style="list-style-type: none"> ➤ National Seminar on “Working Class Movement in India: Past, Present and Future”.
Institute of Distance and Open Learning (IDOL)	<ul style="list-style-type: none"> ➤ National Conference on “Quality Assurance: Mission and Challenges in Dual Mode Universities”
Department of Statistics	<ul style="list-style-type: none"> ➤ Diamond Jubilee Seminar Chakrabarty Memorial lectures
Academy of Theatre Arts	<ul style="list-style-type: none"> ➤ One Seminar & three Workshop
Department of Urdu	<ul style="list-style-type: none"> ➤ Two day National Seminar on Contemporary Urdu Journalism held on 19th- 20th November 2008. ➤ An evening named ‘Sham – Afsana’ with story writers

	<ul style="list-style-type: none"> ➤ Two days Seminar on ‘Urdu Short Story in Maharashtra: Progress and Prospects’ on 12th- 13th February 2009. ➤ Seminar on Non – Fictional Urdu Literature on 28th March 2009. ➤ Seminar on “Science and Urdu” by Prof. Khalil Ahmad from Delhi on 7th January 2009. ➤ Seminar on “Allama Iqbal’s Life and Poetry” by Prof. Qbaid-ur-Rehman Hashmi, New Delhi on 17th- 18th March 2009 ➤ Seminar on “Urdu Qasida: History and Art” by Prof. Tariq Saeed on 21st – 23rd March 2009. ➤ Symposium on “Dr. Y. A. Agaskar” with special issue of “TAKMEEK” on 15th March 2009. ➤ Ali Sardar Jafri Memorial Lecture on “Iqbal’s Poetic Vision and Poetry” on 28th March 2009.
Department of Pali	➤ Workshops – 01, Seminar – 01
Department of Marathi	➤ 3 Lecture Series and 4 Seminars by eminent persons.
Department of Sindhi	➤ International Seminar on ‘Sindhayat, Essence of Secularism’ on 22 nd & 23 rd January, 2009
Department of Gujarati	➤ Three days National Seminar on “Indian Drama and Theatre”.
Dr Ambedkar Centre for Social Justice	➤ Organized panel discussion
Department of History	<ul style="list-style-type: none"> ➤ International Conferences – 03, National Conferences – 03, ➤ Workshops- 03
Department of Applied Psychology	<ul style="list-style-type: none"> ➤ Series of lectures by alumni of UDAP ➤ Three seminars and two workshops conducted for faculty and students.
Department of Economics	<ul style="list-style-type: none"> ➤ National Conference on ‘<i>Gender and Caste: Interface and Issues</i>’, Women Development Cell and Department of Economics, University of Mumbai, Mumbai. ➤ Conference on Public Policy in a Federal Set up

9. Research projects a) Ongoing; b) Completed

Department	Project details	Status
Department of Urdu	➤ Origin, Development and Critical Study of Urdu Short.Story in Maharashtra up 20 th Century (UGC)	Ongoing
Department of Pali	➤ Research Project by Visiting Faculty	Ongoing
Institute of Distance and Open Learning	➤ The development of Intelligent Tutoring Systems (ITS) in the developing Countries (DFID)	Ongoing
	➤ Collaborative Research on “Curriculum studies in India- China	Ongoing
	➤ Attitude towards and Barrier for use of ICT in teaching by teachers (DEC).	Ongoing
Department of Marathi	➤ Collection and Critical Study of the performing Folk Art Forms of South Konkan Region i.e. Ratnagiri and Sindhudurg Districts (UGC).	Ongoing
Department of Sindhi	➤ ‘Jethmal Parsram Gulrajani Jo Sindhi Adab Mein Yogdan’	Ongoing
	➤ One project	Completed
Department of Gujarati	➤ Research & Translation of Post Freedom- Marathi Poems in Gujarati language (with detailed introductory note, Critical analysis, interviews of the poets with anthology	Completed
	➤ “Female Image in Medieval Gujarati Literature”	Ongoing

	<ul style="list-style-type: none"> ➤ “The Politics of Aadi granth Manusmriti & the relevance of its Values in Cotemporary Indian Society.” ➤ “A Critical study of ‘The Fiction work by the Bombay Based Gujarati Writers: in the special context of Social, Political & Cultural impact in their work’. <p>“A Comparative Study medieval Gujarati Poet Akho & Kabir : In the special context of Medieval Indian society & Bhakti Culture.</p>	Ongoing
	<ul style="list-style-type: none"> ➤ Post Freedom- Marathi Poems : With detailed introductory note, Critical analysis, interviews of the poets with anthology; Translated in to Gujarati (research & Translation) 	Completed
Centre for Central Eurasian Studies	<ul style="list-style-type: none"> ➤ India’s Energy Security: Eurasia and Africa. 	Ongoing
Department of Physics	<ul style="list-style-type: none"> ➤ Fen and N diffusion mechanism in FeN using neutron reflectivity (UGC-DAE-CSR Mumbai) ➤ Effects of relativity and correlation on the radiative decay of hollow atoms (DST) 	Ongoing
	<ul style="list-style-type: none"> ➤ Theoretical Investigation in light front field theory (DST) ➤ Study of the effect of III-V (GaP) & (InP) compounds by Ag¹⁰⁷ ions (IUAC) 	Ongoing

	<ul style="list-style-type: none"> ➤ Studies of dilute magnetic semiconductors (DMS) formed by ion implantation and pulsed laser melting (DST) ➤ Study of metal- nanotube interactions for H-storage using DFT (DAE-BRNS) ➤ DST-FIST IInd level (Rs. 100 Lakhs) ➤ UGC-SAP DRS Level II 	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>
Department of Economics	<p>Projects of Prof. Abhay Pethe:</p> <ul style="list-style-type: none"> ➤ Augmentation of the Consolidated Fund of the States for Transfer to the Local Bodies by the Thirteenth Finance Commission (2009) Special DRG Study, Reserve Bank of India. (C.I.: B. M. Mishra and P. B. Rakhe). ➤ Mid-Term Appraisal of 11th Plan performance of Maharashtra, Study I & II, commissioned by Planning Commission GoI, New Delhi. ➤ Commissioned study titled, ‘Financial Decentralization of PRIs in Maharashtra: Almost There But Not Quite!’ for a research project by TISS (Prof. B. Majula). ➤ Special DRG study for the Reserve Bank of India on, ‘Augmentation of the Consolidated Fund of the States for Transfer to Local Bodies by the 13th Finance Commission 2009. 	<p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p>

	<p>Projects of Prof. R. Correa</p> <ul style="list-style-type: none"> ➤ Capital Charges for Operational Risk in the Indian Banking Sector: Alternative Measures (with Swati Raju) for the Indian Institute of Banking and Finance <p>Projects of Prof. Mala Lalvani</p> <ul style="list-style-type: none"> ➤ Introducing Expenditure Quality in Intergovernmental Transfers: A Triple-E Framework, DRG Special Study no. 30, RBI, 2009 ➤ The State of Maharashtra: A Political, Social and Economic Overview, Study Commissioned by the Institute of South Asian Studies, Singapore, 2008 ➤ Financial Powers and Fiscal Devolution to Panchayati Raj Institutions, Ministry of Panchayati Raj (jointly with Abhay Pethe), 2008. <p>Projects of Prof. Manisha Karne</p> <ul style="list-style-type: none"> ➤ Report on Competition Issues in the Road Goods Transport Industry in India with special reference to The Mumbai Metropolitan Region. (jointly with Prof. S. Sriraman, Department of Economics, University of Mumbai. The Study was commissioned by Competition Commission of India, 2008). 	<p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p>
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	<p>➤ Emerging Role of Intermediate Public Transport in Mumbai. A study funded by SNDT Women’s University, Mumbai. (Submitted Report in 2009)</p> <p>Projects of Dr. Swati Raju</p> <p>“Operational Risk Measurement for the Indian Banking Sector: Alternative Measures” for the Indian Institute of Banking and Finance (C.I.: Prof. Romar Correa)</p>	<p>Completed</p> <p>Completed</p>
Department of Applied Psychology	<p>➤ The Centre for Behavioural Research (CBR) – under the scheme of UPE-UGC is sectioned. Funding of rupees 68 lakhs is available for six different projects.</p> <p>➤ Faculty members are also involved in the centre for disaster management, computational social sciences, and educational research.</p>	<p>Ongoing</p> <p>Ongoing</p>

10. Patents generated if any

11. New collaborative research programmes

New collaborative projects with International and National Institutes were undertaken as mentioned below. Most of these collaborations have yielded significant publications in refereed journals and presentations at National and International Conferences. There have been development of in-house experimental facilities and procurement of systems by way of donation from the collaborating institutions.

➤ **Department of Applied Psychology**

Five faculty members are involved in Centre for Behavioural research. Two faculty members are involved in Centre for Disaster Management. One of the faculty members is involved in centre for computational social science.

➤ **Institute of Distance and Open Learning**

Collaborative Research Project with Distance Education Council- Rs. 30 lakh

➤ **Department of Urdu**

Collaborative Research Project with UGC New Delhi

➤ **Centre for Central Eurasian Studies.**

Collaborative Research Project with UGC, MEA, ICSSR.

Department of Physics:

International Collaborations

- Prof A.D.Yadav with Prof D.A.Zatsepin 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 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 Ni₄Mo 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 TiO₂ 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

Department	Funding Agency	Total Grants in Rs.
Institute of Distance and Open Learning	Distance Education Council	30.00 lakh
Department of Mathematics	National Board for Higher Mathematics for a research project	06.00 lakhs
Department of Urdu	University Grants Commission, New Delhi	---
Centre for Central Eurasian Studies	UGC, MEA, ICSSR & University of Mumbai	---
Department of Physics	UGC, DST, DAE-BRNS, UGC-DAE-CSR, IUAC	159.00 lakhs
Department of Applied Psychology	UPE-UGC	68.00 lakhs

13. Details of research scholars

During this year, a total of 259 students of M. Phil. and Ph. D. were enrolled out of which 27 students were awarded their Ph. D./ M. Phil. degrees.

Department	No. of research scholars	No. of research scholars who have obtained research degrees
Institute of Distance and Open Learning	---	02
Rajiv Gandhi Centre for the Contemporary Studies	04	----
Department of Statistics	03	01
Department of Physics	94	08
Department of Biophysics	02	----
Department of Commerce	09	02
Department of Hindi	M. Phil.-28, Ph. D.-11	----
Department of Urdu	04	02
Department of Pali	M. Phil.- 07	----
Department of Marathi	M. Phil.-11, Ph. D.-11	Ph. D.-02
Department of Sindhi	M. Phil.-02, Ph. D.-02	Ph. D.-01
Centre for Central Eurasian Studies	M. Phil- 05, Ph. D. - 01	M. Phil- 03
Department of Civics and Politics	24	Ph. D.-01
Department of History	M. Phil.-15, Ph. D.-26	M. Phil.-03, Ph. D.-02
Department of Economics	----	11
Department of Applied Psychology	08	---

14. Citation index of faculty members and impact factor

Department of Biophysics

Citations: 0.45

Department of History

All faculty members' work 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 in 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

Faculty Name	Honours/Awards
Dr. Pushpalata-Rajapure Tapas	➤ Sakhi Puraskar by Snehavardhan Publications
Dr. Ruby Maloni	➤ Convener of International Symposium on 'Golden Age?' in collaboration with Mumbai Festival.
Dr. Marriam Dossal	➤ Awarded a one year Sabbatical Fellowship by the University of Mumbai to research on her book <i>An Ingenious People: Craft, Entrepreneurship and Culture of Kutch. c. 1548-1948.</i>
Rajiv Gandhi Centre for the Contemporary Studies	➤ National Award

16. Internal resources generated

The total resources generated this year were more than Rs. 8.00 crores as detailed below.

Department	Resources generated in Rs.
Garware Institute of Career Education and Development	➤ 142.00 Lakhs
Rajiv Gandhi Centre for the Contemporary Studies	➤ Rs. 3.25 Corers (special grant by Hon. Ministry Shri Arjun Singh, ➤ Union Minister towards the infrastructure facilities) ➤ Rs. 2.5 Corers (from HPCL & ONGC for setting up Rajiv Gandhi Endowment Chairs)

Department of Statistics	➤ Resources generated from two self supportive courses PGDAS & PGDASS
Department of Biotechnology	➤ 0.75 Lakh
Department of Urdu	➤ 0.50 Lakh (from the Maharashtra Urdu Academy and NSPUL, New Delhi)
Dr. Ambedkar Centre for Social Justice	➤ Through Sale of brochures, handbooks, admission forms, etc
Department of Applied Psychology	➤ 0.10 Lakh (through Counseling Centre)
Department of Civics and Politics	➤ Through sales of admission forms, syllabus copies and sale of departmental publications

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

Department	Programmes
Rajiv Gandhi Centre for the Contemporary Studies	➤ UGC
Department of Physics	➤ DST – FIST Level II ➤ UGC-SAP DRS II
Dr. Ambedkar Centre for Social Justice	➤ UGC
Centre for Central Eurasian Studies	➤ UGC
Department of Civics and Politics	➤ ASIHSS
Department of Applied Psychology	➤ UPE-UGC

18. Community services

➤ **Department of Academy of Theatre Arts**

- Held National Festival & conducted Six Workshops for academic and theatre community.

➤ **Department of Pali**

- Distributed T-Shirts with messages in Pali along with information of why learn Pali pamphlets.
- Published Marathi articles in popular Newspaper about Pali and Brahmi Script

➤ **Department of Applied Psychology**

- Every faculty member has been contributing every year to community mental health and welfare programmes
- 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. The faculty members also extend their psychological services to the community.

➤ **Centre for Central Eurasian Studies**

- Faculty delivers public lectures at various forums

19. Teachers and officers newly recruited

- **Department of French :** Dr.Vidya Vencatesan, Dipty Shah
- **Dr Ambedkar Centre for Social Justice:** Visiting Faculty
- **Centre for Central Eurasian Studies:** 1 Reader

20. Teaching – Non-teaching staff ratio

Department	Ratio
Institute of Distance and Open Learning	1:8
Aklesh Dinesh Mody Institute for Financial and management Studies	5:11
Department of Statistics	1:2
Department of Physics	0.84
Department of Biotechnology	3:2
Department of Commerce	1:1
Department of Academy of Theatre Arts	3:2
Department of French	2:1
Department of Hindi	1:1
Department of Urdu	1:2
Department of Pali	4:3
Gurudev Tagore Chair of Comparative Literature	1.02

Department of Sindhi	1:1
Department of Marathi	2:3
Department of Gujarati	1:1
Dr Ambedkar Centre for Social Justice	0.3
Centre for Central Eurasian Studies	9:7
Department of Civics and Politics	9:10
Department of History	7:5
Department of Applied Psychology	6:10

21. Improvements in the library services

22. New books/journals subscribed and their value

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

The teachers were made aware of the feedback received from the students and were urged to take appropriate steps to incorporate the suggestions of the students if any.

- **Rajiv Gandhi Centre for the Contemporary Studies:** Ph. D.
- **Department of Physics:** M.Sc. Part I, M.Sc. Part II
- **Department of Academy of Theatre Arts:** MTA
- **Department of Urdu:** P.G. classes.
- **Department of Sindhi:** M.A. in Sindhi
- **Department of History:** Student feedback is taken regularly.
- **Centre for Central Eurasian Studies**

24. Feedback from stakeholders

25. Unit cost of education

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

27. Increase in infrastructural facilities

Department	Infrastructure
Institute of Distance and Open Learning	➤ Set up Computer Lab with 54 computers having internet facility.
Rajiv Gandhi Centre for the Contemporary Studies	➤ Yes.
Department of Statistics	➤ Two Computer labs have been set up with the Computers with Networking & Software SAS, SPSS & MINITAB
Department of Biophysics	➤ Fluorescence Spectrophotometer, NanoPhotometer, G M Counter
Department of Biotechnology	➤ Brunswick fermentor & thermocycler along with work station
Department of Commerce	➤ 5 Computer Trollies, 4 Computer Chairs and 1 Cupboard
Department of French	➤ Renovated class rooms.
Department of Urdu	➤ Well furnished Computer Laboratory was established for Students & Teachers
Department of Pali	➤ Developed Library, acquired Computer & printer
Department of Marathi	➤ Augmented furniture and Computational facilities
Department of Sindhi	➤ Acquired 1 Xerox Machine, 10 Book Cases
Centre for Central Eurasian Studies	➤ Computer lab, Documentation Unit, Seminar room, Library
Department of Civics and Politics	➤ 1 Photocopier, 1 Laptop, 1 Multimedia 2 Printers/fax/copier, 5 Computers with accessories and infrastructure Scanners
Department of Applied Psychology	➤ The laboratory is air-conditioned.

28. Technology upgradation

Department	Facilities upgraded
Department of Statistics	➤ Subscribed latest journals and added new books which are made available to all students & teachers. Installed LCD projectors in the laboratories for delivering lectures using power point presentations.
Department of Physics	➤ The Faculty members delivered lectures presentation by using over head projectors, slide projectors. Installed LCD projectors for Power Point presentations.
Department of Biophysics	➤ Following components for teaching have been introduced. 1) Journal Club, 2) Seminar by Students, 3) Extempore talk, 4) Scientific quiz.
Department of Biotechnology	➤ Availability of LCD & Overhead projectors, online tutorials for students.
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 of the Academy under the exceptional teaching guidance.
Department of French	➤ Portable audio equipment used in language teaching
Department of Hindi	➤ Acquired Computers, T.V., DVD Player as technological support to teaching.
Department of Urdu	➤ Acquired Over Head projector, computer and internet.
Department of Pali	➤ LCD projectors for Power Point presentations.
Department of Marathi	➤ Acquired Computers, T.V., DVD Player as technological support to teaching.
Department of Sindhi	➤ Use of audio- visual methods

Dr Ambedkar Centre for Justice	➤ Laptop, Power Point presentation and LCD Projectors
Centre for Central Eurasian Studies	➤ Extensive use of projectors, power point presentation, computers in teaching and research
Department of Civics and Politics	➤ LCD Projector Power point presentation for delivering lectures.
Alkesh Dinesh Mody Institute for Financial and management Studies	➤ Procured LCD projectors.
Department of Applied Psychology	➤ LCD, computers, and wi-fi network is available

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 13 departments listed below.

1. Rajiv Gandhi Centre for the Contemporary Studies
2. Department of Statistics
3. Department of Biophysics
4. Department of Biotechnology
5. Academy of Theatre Arts
6. Department of Hindi
7. Department of Urdu
8. Department of Marathi
9. Department of Sindhi
10. Dr Ambedkar Centre for Social Justice
11. Centre for Central Eurasian Studies.
12. Department of Civics and Politics
13. Department of History
14. Department of Applied Psychology

30. Financial aid to students

Rs. 11,63,572/-

31. Activities and support from the Alumini Association

32. Activities and support from the Parent-Teacher Association

33. Health services

34. Performance in sports activities

Inter – Collegiate Sports & Tournaments were conducted on Five Zone & One Zone basis in following disciplines :

✓ **Five Zone Basis :**

1. Kabaddi (M)
2. Kho-Kho (M)
3. Cricket (M)
4. Volleyball (M),
5. Chess

✓ **One Zone Basis :**

- | | |
|--------------------------|--------------------------------------|
| 1) Carrom (M&W) | 1) Football (M&W) |
| 2) Basketball (M&W) | 2) Boxing (M) |
| 3) Cross Country (M&W) | 3) Cycling (M&W) |
| 4) Handball (M&W) | 4) Hockey (M&W) |
| 5) Judo (M&W) | 5) Tennis (M&W) |
| 6) Gymnastic (M&W) | 6) Malkhamb (M&W) |
| 7) Power Lifting (M&W) | 7) WeightLifting & Best Physique (M) |
| 8) Table Tennis (M&W) | 8) Aquatics (M&W), Water Polo (M) |
| 9) Volleyball (M&W) | 9) Wrestling (M&W) |
| 10) Shooting (M&W) | 10) Softball (M&W) |
| 11) Ball Badminton (M&W) | 11) Badminton (M&W) |
| 12) Half Marathon (M&W) | 12) Yoga (M&W) |

- 13) Kho-Kho (W)
 14) Karate (M&W)
 15) Squash (M&W)

- 13) Athletics (M&W)
 14) Taekwondo (M&W)
 15) Kabaddi (W)

This year following colleges were entrusted the entire responsibility of conducting various sports & tournaments 2008-2009. All the Inter-Collegiate Tournaments were conducted smoothly and successfully by the respective colleges.

➤ **Five Zonal basis tournaments :**

Zone	Kabaddi	Kho-Kho	Chess	Volleyball	Cricket
ONE	D.A.V. College	Dr. Ambedkar College	V. G. Vaze College	Sathaye College	Department of Sports
TWO	D.A.V. College	Dr. Ambedkar College	V. G. Vaze College	Sathaye College	Department of Sports
THREE	Birla College	C. K. T. Panvel	V. G. Vaze College	Tasgaonkar Engg.	Department of Sports
FOUR	V. Naik Murud	C. K. T. Panvel	A. Pradhan Nagothane	Tasgaonkar Engg.	Department of Sports
FIVE	D.B.J. College, Chiplun	Gogate Jogalekar, Ratnagiri	A. Pradhan Nagothane	Vengurla College	Gogate Jogalekar, Ratnagiri

➤ **Inter Zonal Tournament :**

Zone	Kabaddi	Kho-Kho	Chess	Volleyball	Cricket
	D.A.V.	C.K.T., Panvel	R.J.C., Ghatkopar	Tasgaonkar Engg.	Department of Sports

One Zone Basis Sports & Tournament :

- | | |
|---------------------------|--|
| 1) Half Marathon (M & W) | K.G.A.S.C. College, Karjat |
| 2) Cross Country (M & W) | Dapoli Urban Bank Senior Science College |
| 3) Ball Badminton (M & W) | J.S.S. P.'s College, Goveli |
| 4) Softball (M & W) | Department of Sports |

5) Weight Lifting (M)	DTSS College, Malad
6) Best Physique (M)	DTSS College, Malad
7) Power Lifting (M & W)	DTSS College, Malad
8) Wrestling	B.N.N. College, Bhiwandi
9) Aquatics (M & W)	H. R. College
10) Water Polo (M)	H. R. College
11) Handball	G.N. Khalsa College
12) Basketball (M & W)	Department of Sports
13) Tennis (M & W)	Department of Sports
14) Hockey (M & W)	G. N. Khalsa College
15) Shooting (M & W)	Tolani College
16) Carrom (M & W)	M.P.V.Valia College, Borivali
17) Taikwondo (M & W)	M.P.V.Valia College, Borivali
18) Badminton (M & W)	Department of Sports
19) Judo (M & W)	Mithibai College
20) Yoga (M & W)	Royal College
21) Boxing	C.H.M. College
22) Table Tennis (M & W)	Department of Sports
23) Athletics (M & W)	Department of Sports
24) Squash (M & W)	H. R. College of Commerce
25) Tug of War (M & W)	Vikas College
26) Football (M & W)	Department of Phy. Edun. & Sports
27) Karate (M & W)	C. H. M. College
28) Football (M & W)	Department of Sports
29) Karate (M & W)	J.S.M.College,Alibag
30) Cricket (W)	N.M. College

➤ **PARTICIPATION IN INTER UNIVERSITY TOURNAMENT 2008-2009**

1) Athletics (M&W)	13) Football (M)
2) Shooting (M&W)	14) Hockey (M&W)
3) Chess	15) Kabaddi (M & W)
4) Cross Country (M & W)	16) Power Lifting (M & W)
5) Gymnastic & Malkhamb (M& W)	17) Aquatics (M &W)

- | | |
|----------------------------------|------------------------|
| 6) Kho Kho (M & W) | 18) Wrestling (M & W) |
| 7) Wt. Lifting & Best Phy. (M) | 19) Boxing (M) |
| 8) Softball (M) | 20)Squash (M) |
| 9) Table Tennis (M) | 21)Cycling (M) |
| 10)Basketball (M&W) | 22)Handball (M & W) |
| 11)Ball Badminton (M&W) | 23)Tennis (M&W) |
| 12)Cricket (M&W) | |

Inter-Collegiate Cricket (M) Tournament, 2008-09 played upto Semi-final round unavailability of grounds, further, tournament could not be completed during the academic year, 2008-09.

Achivement of the University of Mumbai Teams & Individual players in the Inter-University Tournaments, 2008-2009

➤ **All India Inter-University Tournaments:**

A) Team Events

- | | |
|-----------------|-------------------------------|
| 1) Winner | 1. Cricket (Men) |
| | 2. Cricket (Women) |
| | 3. Handball (Women) |
| | 4. Squash (Men) |
| | 5. Shooting-Air Rifle (Women) |
| | 6. Malkhamb (Women) |
| 2) Runner-Up | 7. Kho Kho (Women) |
| | 8. Kho Kho (Men) |
| | 9. Water Polo (Men) |
| 3) Third Place | 10. Kabaddi (Women) |
| | 11. Tennis (Women) |
| | 12. Malkhamb (Women) |
| | 13. Table Tennis (Men) |
| 4) Fourth Place | 14. Soft Ball (Men) |
| | 15. Table Tennis (Women) |

B) Individual Events

➤ **Medals**

Gold : 4
Silver : 10
Bronze : 7

Total : 21 Medals

- 1) Squash : One Gold, One Silver
- 2) Athletics : One Gold, Three Silver
- 3) Swimming : Three Bronze
- 4) Diving : Two Gold
- 5) Power Lifting : One Silver, Two Bronze
- 6) Best Physique : One Silver
- 7) Gymnastic : Two Silver, One Bronze
- 8) Malkhamb : One Bronze
- 9) Boxing : One Silver, One Bronze

➤ **Achievement at Zonal Level of Inter-University Tournaments, 2008-2009**

1) First Place

1. Handball (Women)
2. Kabaddi (Women)
3. Table Tennis (Women)
4. Table Tennis (Men)
5. Cricket (Men)

2) Second Place

6. Kho-Kho (Men)
7. Kho-Kho (Women)]

3) Third Place

8. Kallbaddi (Men)
9. Football (Men)
10. Tennis (Men)

4) Fourth Place

11. Tennis (Men)
12. Hockey (Men)
13. Softball (Men)

➤ **ASHWAMEDH 2008 :**

The 11th Maharashtra State Inter-University meet “Ashwamedh 2008” was organized by Mahatma Phule Agricultural University, Rahuri from 27th November, 2008 to 1st December, 2008, The University of Mumbai participated in all games and secured following positions in respective games:

	Game	Men	Women
1.	Kho-Kho	Winner	Winner
2.	Kabaddi	Runner-Up	Runner-Up
3.	Athletics	Second Place	First Place
4.	Basketball	Runner-Up	-----
5.	Volleyball	-----	-----
6.	Overall Championship	S E C O N D	

➤ **ORGANIZATION OF INTER-UNIVERSITY TOURNAMENTS :**

Association of Indian University entrusted the responsibility of organization of all India Inter-University Swimming, Diving (M & W) and Water Polo Tournament (M) and West Zone & Inter Zonal Cricket (M) Tournament, 2008-09 to University of Mumbai. Both the Competitions were organized in professional manner with cooperation & financial support of H.R.College of Commerce & Economics for Swimming, Diving (M & W) & Water Polo (M) Tournament, 08-09 which was organized in the month of October, 2008.

Rizvi Education Trust for Cricket which was held in January,09. The Cooperation and sincere efforts and dedication of both the college students, staff & management University Sports Department could conduct both the competition smoothly.

➤ **GURU NANAK DEV GENERAL CHAMPIONSHIP 2007-2008 : -**

Guru Nanak Dev General Championship trophy donated by the local managing committee of G.N. Khalsa College, Matunga will be awarded to Ramnarain Ruia College in the function to be held soon for having scored the highest number of points at Inter- Collegiate Tournaments 2007-2008 conducted by University of Mumbai.

35. Incentives to outstanding sportpersons

36. Student achievements and awards

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

39. Development programmes for Non-teaching staff

Department of Applied Psychology

Non-teaching staff is trained for the use of computers and internet for the office purposes particularly MS-Excel

40. Good practices of the institution

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

Department of Physics

International Institutes

- Institute of Metal Physics, Ural Division, Russian Academy of Sciences, Russia
- Department of Physics, University of Trento, Italy
- Theory Group, NIKHRF, Amsterdam, Netherlands
- University of Seoul, S Korea

National Institutes/Bodies

- Inter-University Accelerator Centre (IUAC), New Delhi
- Tata Institute of Fundamental Research (TIFR), Mumbai
- Bhabha Atomic Research Centre (BARC), Mumbai
- UGC-DAE- CSR Centres
- Indian Institute of Technology, Mumbai
- Indian Institute of Mathematical Sciences (IIMS), Chennai
- University of Pune, Pune
- Distance Education Council
- UGC, MEA, ICSSR, DST

Department of Applied Psychology

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

42. Action taken report on the AQAR of the previous year i.e. 2007-2008

As planned the University was able to implement almost all the activities which were planned for the year 2007-08. The activities which could not be completed fully or partly, the concerned departments and faculty were advised to complete the relevant work. The departments were asked to take necessary steps to increase national and international collaborative programmes and more research projects.

43. Any other relevant information the institution wishes to add

➤ **Department of French**

Dr. Vidya Vencatesan participated at the international conference Malta for the editors of Synergies- Inde. Teacher's training

Workshop in collaboration with IATF on Latest Teaching Techniques in French language.

Section C: Outcomes achieved by the end of the year

As planned six new courses viz. 1) Postgraduate Diploma in Actuarial Science (PGDAS) and 2) Postgraduate Diploma in Applied Statistics with Software (PGDASS), 3) Certificate course in Pali, 4) Postgraduate Diploma in Logistics & supply Chain Management (PGDLSCM), 5) Postgraduate Diplomas in Retail Operations Management (PGDOM), 6) Diploma in Urdu Computer application and Multilingual D.T.P. were started by the concerned departments.

Garware Institute of Career Education and Development in collaboration with Industries and Institutes started new inter-disciplinary P.G. Dip. Programmes. Department of French and other departments of the University jointly organized interdisciplinary lectures for students' community. Department of French also started a cine club in collaboration with Alliance Francaise and Palador and screened Italian, French and Spanish movies for academic student community. It also organized a drama in collaboration with Academy of Theatre Arts, Mumbai University.

Department of Statistics changed the pattern of question papers for M.A/M.Sc. (Stat.) examinations which improved their teaching programmes. Departments of Bio-Physics and Gujarati and Centre for Central Eurasian Studies introduced examination reforms as planned.

Faculty of University Departments provided adequate guidance to the University students appearing for SLET/NET examinations as a result of which 86 students passed these two examinations.

Prof. Mandar Bhanushe of IDOL attended an orientations course organized by Academic Staff College of NEHU, Shillong. Department of Statistics organized and conducted a refresher course in collaboration with department of Computer Science of Mumbai University. Centre for Central Eurasian Studies started a Newsletter of the centre and collaborative activities at National and International levels. Faculty members of Departments of Sindhi and Pali presented papers in National and International conferences. More than 30 seminars, workshops, symposia and lecture series were organized by 13 departments as part of the academic and research activities in order to enhance and upgrade the knowledge of the teaching community in their subjects. Out of 23 research projects undertaken by 8 departments, 3 projects were completed and reports submitted to the respective funding agencies. During this year, the total no. of 259 research scholars were enrolled for M. Phil.

and Ph. D. degrees. The number of students who were awarded the Ph. D./ M. Phil. degrees was 27. Five of the University Departments received research funding for UGC, DST etc. to the tune of Rs. 195/- lakhs. Department of Physics received a significant amount of research grants under DST FIST level II and UGC-SAP level II programmes.

Dr. Pushpalata-Rajapure Tapas (Department of Marathi) was awarded Sakhi Puraskar by Snehavardhan Publications and Dr. Marriam Dossal was awarded one year sabbatical fellowship by the University of Mumbai, were the two teachers who received awards/honours during this year.

Four University Departments viz. Physics, Urdu, IDOL and Centre for Central Eurasian Studies started new collaborative research programmes with other academic/research institutes and industries. This year, the total resources generated by 8 University Departments were more than Rs. 8.00 crores through the various courses and grants from UGC and Govt. of India. Fifteen of the University Departments either introduced or upgraded their existing teaching aids such as laboratory equipment, LCD projectors, OHPs and internet to improve their lecture and lab programmes which benefitted the students as well as the teachers.

The university students excelled in sports and cultural activities and won many awards/prizes at various intercollegiate and interuniversity competitions.

Section D: Plans of the HEI for the next year (i.e. 2009-2010)

Some of the major activities to be carried out during the year 2009-10 are 1) introduction of new M. Tech., M.A., M. Sc., M. Phil, Ph. D. programmes in UDCT, Centre for Central Eurasian studies, Department of Bio-technology, 2) new P. G. Diploma course to be conducted in Garware Institute of Career Education and Development, 3) Revision of syllabi in the subjects wherever it is due, 4) use of technology like i) online admissions and issuing of Hall Tickets, ii) multimedia projectors for lecture and lab programmes, iii) 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.

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