





॥ विद्यया ऽमृतमश्नुते ॥

**North Maharashtra University, Jalgaon (Maharashtra)**  
**Annual Quality Assurance Report (AQAR) of the IQAC**  
**2008-09**

**SECTION- A**

**Plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement :**

1. To shift Eligibility and Admission Sections under the control of Examination Section to avoid communication gap and procedural delay between them.
2. To implement continuous assessment programme for most of the courses and semester system for S.Y.B.Sc. & T.Y.B.Sc. courses from the academic year 2008-09.
3. The University plans to install Wind Hybrid Solar System of 2.5 KW capacity at Guest House and Ladies Hostel on the campus. Also, the vapor lamps on street (25) will be replaced by energy saving LED/CFL lamps.
4. The University plans to establish an interactive Science Park on the campus to create interest in science among the secondary & higher secondary school students.
5. To recruit new faculty members in various disciplines during the year and to motivate and encourage them to write research proposals to various funding agencies for grants.
6. To strengthen research on the campus improvement in basic facilities in various science departments on campus.
7. To encourage schools/departments of the University to organize alumni and parents meet as required by NAAC.
8. To start/introduce some new PG/Diploma/Certificate programme in the Schools/Departments :-
9. To encourage organization of National as well as International Conferences/Workshops / Seminar by various Schools/Departments on the campus.
10. To conduct NET/SET coaching workshop and counseling programmes for reserved categories and minority students.

11. Total automation of Central Library of the University and providing Internet Surfing Laboratory to the students in the Central Library.
12. Organization of a national conference on “Vision Library 2020” for the Librarians of the affiliated colleges of the University.
13. To confer academic autonomy/flexibility to the Schools/Departments on the campus.
14. To implement Credit and Grade Point Assessment (CGPA) system to various P.G. Programmes offered on the campus.
15. Upgradation of laboratory infrastructure and learning resources in the School of Life Sciences from the grants received from UGC as SAP Department.

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## SECTION– B

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

The mission of the university is as follows :

*“To impart relevant quality higher education to the students, to groom them to be conscious researchers, technologists, professionals and citizens, bearing the torch for disseminating knowledge in masses for suitable socio-economic development of the society.”*

Some major activities broadly reflecting the mission objectives of the University are as below :

- a) For imparting relevant quality in higher education, syllabi were duly modified and designed in the light of the need of the hour. Curricula of as many as 12 P.G. and 5 U.G. courses were revised during this academic year.
- b) Seminars, symposia, conferences and workshops were organized for inculcating and appreciating research/scientific attitude among students.
- c) To develop skilled scientific manpower, the following activities were conducted :
  - i) In-plant training.
  - ii) Projects (to PG students) in tune with industrial demand.
  - iii) Study tours and Industrial visits.
- d) For the overall development of the students, programmes like “Open House, Management Week, Science Day, Hindi Day, Marathi Patrakar Din Celebrations, Guest Lectures on Popular Topics, Light and Classical Music Programme presentations, Liasoning with other Institutes/Universities, Guidance for competitive examinations etc. were organized as a part of co-curricular and extra-curricular activities.
- e) Workshops were organized for college Principals, Teachers and Management representatives to enhance quality education in colleges affiliated to this university.
- f) For creating good, tolerant and socially responsible citizens, the university has been making efforts through following Satellite Campuses of the University situated at different places :-
  - i) Mahatma Gandhi Philosophy Centre, Dhule.
  - ii) Pratap Regional Philosophy Centre, Amalner.
  - iii) Mahatma Gandhi Research Foundation in collaboration with Jain Charities, Jalgaon.

- g) Rallies, Conferences, lecture series and exhibitions were organized for creating interest amongst the students of respective branches.
- h) To create interest regarding research and cultural development in the students and faculty, events like AVISHKAR and INDRADHANUSHYA were organized at NMU level.
- i) For the overall development of tribal students, the university has been conducting various activities through its Eklavya Training Centre at Nandurbar.
- j) The University has established a Centre of Rajiv Gandhi Science and Technology Commission, Govt. of Maharashtra, Mumbai to stimulate socially relevant scientific activities in its jurisdiction.
- k) The university has taken steps to establish a science park on the campus for popularizing science among masses.
- l) The university has started action plans according to “VISION 2020” document.
- m) The university has started using software provided by Maharashtra Knowledge Corporation Limited (MKCL), Pune for its’ entire examination system.
- n) Six month full time Industrial Training for Computer Science Post-graduate students is arranged for doing projects in tune with industrial demand.
- o) Publishing “**UMAVI WARTA**” periodical regularly, which reflects important activities conducted on the campus and important relevant information for staff and students on the campus.
- p) Study of indigenous culture through folk literature, folk and oral traditions and the study of dialects and develop language proficiency is done through the Department of Comparative Languages and Literature.
- q) Promotion of personality development and soft skills through the organization of workshops.
- r) The School of Life Sciences volunteered delivery of popular science lectures in the city schools with an aim to create scientific awareness and science popularization among the school going children.
- s) The School of Life Sciences provides agro-inputs and consultancy and analytical services to the farmers and industries in and around the city of Jalgaon.

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

Sensing needs of the society, industries and recommendations of the NAAC Peer Team, the university has started following new academic programmes on campus :-

Name of the Course	Duration
M.P. Ed. (Master of Education)	2 years
M. Ed. (Master of Education)	2 years
M. Phil. in Education	2 years
M. Tech. (Environmental Sciences & Technology)	2 years
M. Phil. (English)	2 years
Certificate course in foreign languages (Japanese, Russian as well as Spoken English.	-

Following new Certificate courses are also started :

- 1) Certificate Course on ‘Sophisticated Instrumental Analysis’.
- 2) Certificate course in “CAM-CAD” and “Piping Design”
- 3) Certificate course on “MATLAB”.
- 4) Certificate course in Hazard Analysis and Critical Control Point (**HACCP**).

## 3. Innovations in curricular design and transaction :

As a general practice, syllabi are revised after every 5 years. However, in some disciplines like Computer Science and Engineering the syllabi are being revised as and when required by the Board of Studies. During revision of syllabi, the focus is kept on changing needs, advancement in knowledge in the relevant subjects. The Board of Studies comprises of two co-opted members which are essentially from industrial sector and two eminent academicians to reflect the changes occurring in the fields or practiced in industry. The following innovations in curriculum design and transactions are made by the university during this year

- a) The School of Life Sciences has revised the M. Sc. II syllabus of Microbiology, Biotechnology and Biochemistry in this year with focus on Agro-biotechnology.
- b) The syllabus of M.Sc. II Physical Chemistry is revised by introducing important topics on Kinetics, Electro-Chemistry and Quantum Chemistry.
- c) The Department of Education and Department of Physical Education have introduced internship programme and new optional papers from this year.
- d) The School of Environmental & Earth Sciences has revised syllabus of various courses during this period and accepted the system of CGPA to be introduced from the next academic year. While revising syllabus emphasis is given on the topic of exploration of mineral & petrochemical industry.

- e) The Department of Computer Science has introduced a new theory paper on 'Current Computing Trends' to the students of M. Sc. (Computer Science), M.C.A. and M.Sc. (Information Technology).
- f) The syllabi of B. Tech. (Plastics, Paints, Chemical Engineering, Oil and Feed Technology) were revised according to new Credit System. Number of electives has been added to provide opportunity for learning different trends in Engineering and Technology.
- g) The syllabi of new M. Tech. courses viz. M. Tech. (Pharmaceuticals), M. Tech. (Oleo-chemicals & Surfactants), M. Tech. (Nanoscience & Technology) are prepared according to new guidelines of Credit system. These courses are to be introduced from the next academic year i.e. 2009-10.

#### **4. Interdisciplinary programmes started :**

Besides pure and applied subjects, the university offers many programmes which are of interdisciplinary nature on its campus. The programmes include M.Sc. in Biotechnology, Biochemistry, Industrial Chemistry, Computational Mathematics, Energy Studies, Material Sciences, Polymer Chemistry and Environmental Science. The University promotes and encourages research in interdisciplinary areas. Several projects funded by Central Government funding agencies are being implemented in University departments.

The University has started following new interdisciplinary programme during the academic year 2008-09.

- ❖ M. Tech. (Environmental Sciences & Technology).

#### **5. Examination reforms implemented :**

The Examination Section is the most sensitive and important section of the university administration. To enhance credibility and transparency of the system and for preventing malpractices in the examination following reforms have been made :

- a) As per the programme BAR CODE system to all examinations has been introduced.
- b) For the class improvement in B.A., B. Com., M.A., M. Com., L.L.M., M.Sc./M.A. (Mathematics), M.A. (Geography) courses, the University has granted an additional attempt to the students for their benefit.
- (c) The University provided mark sheet with scanned photograph of all the students of final year degree courses.
- (d) A teller made software – EDPS has been installed for atomization the various operations of the examination sections.

## 6. Candidates qualified NET/SET/ GATE :

The number of students qualified in the various national level competitive tests are given below :

Sr. No.	Name of Schools/Department	No. of candidates qualified			
		NET	SET	GATE	Total
1.	School of Life Sciences	01	-	03	04
2.	School of Environmental & Earth Sciences	01	01	-	02
3.	Department of Organic Chemistry	01	-	02	03
4.	Department Mathematics	03	02	-	05
5.	Department of Education	04	06	-	10
6.	University Department of Chemical Technology	-	-	05	05
7.	Department of Library & Information Science	-	01	-	-
<b>Total</b>		<b>10</b>	<b>10</b>	<b>10</b>	<b>30</b>

- ❖ One student from Department of Computer Science has qualified NCST G-Level (C-DAC) examination in this year.
- ❖ Total 03 students from University Department of Chemical Technology were qualified in GRE, USA.

## 7. Initiative towards faculty development programme :

Several steps are taken for qualitative development of faculty members by the university.

The University has organized refresher courses, orientation programmes and lecture series as a part of faculty development programmes. The details are given below:-

- a) The School of Environmental & Earth Sciences has organized a Refresher Course during March 5-25, 2009.
- b) Two faculty members of the Department of Computer Science have successfully completed Refresher Course and four faculty members have attended one day workshop on Patent Awareness organized by North Maharashtra University, Jalgaon sponsored by TIFAC, DST, New Delhi.
- c) Five faculty members attended HRD Training programme – Facilitating Excellence in Effective Leadership (FEEL) Teacher Training Programme at AIMS Insight, Mangalore.

- d) The University provides financial assistance and special leave to the faculty members for attending conferences, symposia, seminars and workshops both at National and International level during the period. As many as, 06 faculty members were provided financial assistance for attending International Conferences overseas as per the following table :

<b>Sr. No.</b>	<b>Name of the faculty members</b>	<b>School/Departments</b>
1.	Prof. P.P. Patil	School of Physical Sciences
2.	Dr. B.L. Chaudhari	School of Life Sciences
3.	Dr. Satish Kolhe	Department of Computer Science
4.	Prof. (Smt.) S.P. Shinde	Department of Comparative Languages and Literature.
5.	Dr. G.A. Usmani	Department of Chemical Technology
6.	Dr. R.D. Kulkarni	-do-
7.	Mr. Ujwal D. Patil	-do-

- e) The faculty members were motivated and permitted to deliver lectures in refresher & orientation courses organized by North Maharashtra University, Jalgaon, Dr. BAMU University, Aurangabad, RSTM University, Nagpur and Shivaji University, Kolhapur etc.
- f) The University encourages its faculty members to avail the overseas training and research assignments by providing Sabbatical Leave.
- g) The faculty member of Department of Comparative Languages and Literature have attended faculty developmental programmes like “Facilitators’ Certification Course in Spoken and Written English at Aim Insights, Mangalore, “Sanchetan Prashikshan Karyakaram”, Self Development Programme conducted at Bangalore by ERC, New Delhi, Life Skills workshop and FEEL Teacher Programme conducted, North Maharashtra University, Jalgaon.
- h) A couple of faculty members of UDCT attended QIP Programme organized by UICT, Mumbai.

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

Various seminars/workshops conducted during this year are given below :

Sr. No.	Seminar/Symposia/Conference/Workshop	Duration
1.	Seminar on 'Education System in India'	July 22, 2008
2.	Orientation Programme for MBA-I	August 4, 2008
3.	Workshop on Financial Management	September 8-12, 2008
4.	Workshop on 'Research Proposal and Research Report Writing'	September 09, 2008
5.	Seminar on 'National Watershed Development and Management'.	Sept. 19, 2008
6.	Seminar on "Career Opportunities through Talent Transformation Platform"	22 <sup>nd</sup> Sept. 2008
7.	AICTE Sponsored National Seminar on "Sustainable rural development : A strategic roadmap for economic excellence".	September 25-26, 2008
8.	Workshop on "Micro & Macro level planning in India".	October 7, 2008
9.	University level Research Festival "Avishkar-2008"	17-18 December, 2008
10.	M.P. Ed. reconstruction curriculum content analysis workshop	December 26, 2008.
11.	Seminar on "Importance of Soft Skills" by for the PG students of Computer Science, Mathematics & Physics.	10 <sup>th</sup> Jan. 2009
12.	State level workshop on "NET-SET first paper preparation" at N.M.U., Jalgaon	January 13-14, 2009.
13.	National Seminar on Genetically Modified Crops : Status, Issues and Awareness.	January 20-21, 2009
14.	National Conference on Recent Advances in Polymer Technology.	January 30, 2009.
15.	Seminar on 'Bhasha, Sahitya aani Sanskruticha Anubandh'	March 3, 2009
16.	National Workshop on "Corporate Social Responsibility & Business Ethics".	March 9, 2009
17.	Seminar on "Development and Analysis of Drugs (DAAD – 2008).	March 15, 2009
18.	National Workshop on "Advances in Computing"	16 <sup>th</sup> -17 <sup>th</sup> March, 2009
19.	One month NET/SET coaching classes for Education, Physical Education, Hindi, Marathi and English subjects.	May, 2009
20.	Workshops on "Water Quality Management" for professionals/leaders from Gram Panchayat & Zillha Parishad under the Rajiv Gandhi Drinking Water Mission, Govt. of India	22 workshops throughout the year

## 9. Research projects :

### a) Ongoing:

The following table gives information about the newly sanctioned research projects during this year to the members of faculty on campus -

Name of the Teacher	Title of the Project	Funding Agency	Amount (Rs. in Lakhs)
Prof. Dr. B. V. Pawar (PI) & Mr. A. S. Patil (Co-PI)	Development of Novel Techniques for Information Retrieval from WWW	UGC	9.12
Dr. (Mrs. ) R.S. Bendre	Eco-friendly Pest Management : Development of Carvacrol Derivatives as Insect Growth Regulators.	UGC	6.20
Dr. D.H. More	Design & synthesis of piperazines and benzimidazoles at potent anti-filarial agents.	CSIR	16.70
Prof. J. B. Naik	Investigation of scale formation and its mitigation by using different polyelectrolyte in heat exchange equipment	CSIR	15.90
Prof. S. Mishra	Synthesis and Characterization of Nano Polymer Particles by Micro emulsion Method and their Applications in Polymer Processing	UGC	11.96
Dr. Navin Shimpi	Development of synthesis of nanoparticles using ultrasonication and its application in polymer nanocomposites	FASTR ACK Young Scientist	8.40
Mr. K.S. Vishwakaram (P.I.) & Prof. V.L. Maheshwari (Co-I).	Digitized inventory of medicinal plants of Maharashtra.	RGSTC, Govt. of Mah.	23.00
Dr. B.L. Chaudhari	Utilization of Bio-Diesel Waste by Pseudomonas sp. for production of phenazine anti-biotics.	DBT	40.40
Dr. S.V. Patil	Preparation of soil conditioners using <i>Psyllium</i> husk and bacterial biopolymers.	UGC	05.66
Dr. S.V. Patil	An eco-friendly approach to the elimination of mosquito larvae by extract of commonly occurring weeds in Jalgaon District.	UGC	01.30

Name of the Teacher	Title of the Project	Funding Agency	Amount (Rs. in Lakhs)
Dr. Mukta Mahajan	Globalizing Indian Spiritualism : A study of Indian Saint Poet.	UGC	06.66
Dr. M.S. Pagare	Co-related study of social, cultural and linguistic study in the sphere of folk, rural and dalit literature.	UGC	06.22
Dr. Kailash Sarvekar	A comparative study of gramin literature in Marathi and Hindi	UGC	04.20

**b) Completed :**

Name of the Teacher	Title of the Project	Funding Agency	Amount (Rs. in Lakhs)
School of Chemical Sciences	Funds for Infrastructural Development in Science & Technology (FIST)	DST	16.00
	Synthesis and Development of Polymers.	UGC-SAP	45.00
School of Life Sciences	Bio-control Agents	UGC-SAP	40.00
School of Physical Sciences	Material Science	UGC-SAP	40.00
Prof. S. Mishra	Synthesis of Nanoinorganic Filler and Their Effect on Mechanical, Thermal and Weather Resistance Properties of Elastomer Nanocomposites	CSIR	8.00
Dr. G. A. Usmani	Lipase Catalysed Interesterification for the Production of Oleo chemicals from Non-traditional Oils	AICTE	7.00
Prof. V.L. Maheshwari (P.I.) & Mr. K.S. Vishwakarms (Co-I)	Plants cyclotides : An alternative and sustainable approach to storage pest management in grain legumes.	DBT	26.00
Dr. B.L. Chaudhari	Development of efficient probiotic to combat Vitamin B12, folic acid and Iron deficiency.	DBT	29.75

**10. Patents Generated, if any :**

The University is also encouraging patenting of research findings of the faculty on campus. During the period of report, one patent as per detail tabulated below was filled.

Sr. No.	Name of the School/ Department	Title of the patent	Patent Registration No./Applied
1.	School of Chemical Sciences	Polyurethane Coatings containing copolymers of acrylic monomers (4 types) and isocyanurate of isophorone diisocyanate and their production thereof.	E11/80/2008-MUM Dtd. 23.05.2008

**11. New collaborative research programmes :**

The University through its schools/departments has initiated following new collaborative research programmes.

Sr. No.	Name of the collaborative research programme	Name of the Institute/ University to which collaborative research programmes undertaken
1.	Drinking Water Mission	Maharashtra Pollution Control Board (MPCB) & Rajiv Gandhi Drinking Water Mission, Ministry of Rural Development.
2.	Development of High Energy Materials	High Energy Materials Research Laboratory (HEMRL), Pune
3.	Research in Polymer Technology	National Pussan Laboratory, South Korea

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

The following table gives the total amount of grants sanctioned from various Central Government funding agencies during the year.

Sr. No.	Name of funding Agency	Research grants sanctioned (Rs. in lakhs)
1.	University Grants Commission, (UGC), New Delhi	301.44
2.	Department of Science & Technology (DST), New Delhi	145.50
3.	Council of Scientific and Industrial Research (CSIR), New Delhi.	33.45
4.	Rajiv Gandhi Science & Technology Commission, Mumbai	06.71
5.	Maharashtra Pollution Control Board, Mumbai	07.25
6.	Sir Ratan Tata Trust, Mumbai	09.00
7.	Jalgaon Municipal Corporation, Jalgaon	03.96
8.	Indian Council of Medical Research, New Delhi	00.25
9.	Department of Atomic Energy, Mumbai	13.89
10.	R.F.S.M.S.	02.52
11.	Agarkar Research Institute, Pune	09.34
<b>Total Rs.</b>		<b>533.31</b>

### 13. Details of research scholars :

The number of scholars decorated with Ph.D./M. Phil. and the number of research scholars registered for Ph.D. on campus schools/department are given below :

Sr. No.	Schools/Departments	No. of scholars awarded Ph.D./M. Phil.*	No. of scholars working (Ph.D./M. Phil.*)
1.	School of Chemical Sciences	03 + 08*	21
2.	School of Life Sciences	06 + 06*	21
3.	School of Physical Sciences	03 + 05*	11
4.	School of Environmental & Earth Sci.	03	16
5.	School of Mathematical Sciences	02 + 07*	13 + 07*
6.	Department of Computer Sciences	01	11
7.	Department of Management Studies	01	05
8.	Department of Chemical Technology	02	15
9.	Deptt. of Comparative Lang. & Lit.	-	20
10.	Department of Library and Information Science	-	02
11.	Deptt. of Mass Communication & Journalism	-	05

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

The average citation index of the faculty members from various schools/departments on the campus is 8.

#### Impact Factor :

Faculty members have been publishing their research papers in following journals. Impact factor of the journals with their names is given below.

Sr. No.	Name of Journal	Impact factor *
1.	Journal of Applied Polymer Science	1.306
2.	Macromolecular Materials and Engineering	1.498
3.	Polymer International	1.475
4.	Polymer Plastics Technology and Engineering	0.333
5.	Surface Coatings Technology	1.008
6.	Crop Protection	0.564
7.	Material Letters	0.892
8.	Synthetic Communications	0.800
9.	Organic Preparation and Procedure International	0.673
10.	Journal of Material Science	0.999
11.	European Polymer Journal	2.113
12.	Design Monomer and Polymer	0.890
13.	Acta Crystallography	1.700
14.	Journal of Scientific and Industrial Research	0.201

Sr. No.	Name of Journal	Impact factor *
15.	Indian Journal of Chemistry (B)	0.346
16.	Material Sciences & Engineering (A)	0.943
17.	Material Sciences & Engineering (B)	0.690
18.	Material Science and Technology	0.981
19.	Synthetic Metal	1.187
20.	Electro Chemica Acta	2.078
21.	Journal of Physics D : Applied Physics	1.188
22.	Journal of Environment Management	0.489
23.	Journal of Chemical Research	0.444
24.	Bio-resource Technology	2.800
25.	Applied Biochemistry and Biotechnology	1.400
26.	Pest Management Science	1.300
27.	Physiology and Molecular Biology of Plants	0.300

### 15. Honors/Awards to the faculty : National and International

The following members of the faculty have received awards during the period under review :

Sr. No.	Name of the Faculty Members	Name of the Award	Name of the Institution who is awarding award
1.	Dr. M. R. Joshi	Post Doctoral Fellowship (PDF)	University of New Brunswick, Fredericton, New Brunswick, Canada
2.	Mr. Somnath Vadnere	AVISHKAR Research Award	State Level Competition in December, 2008.
3.	Dr. (Smt.) Shobha Shinde	Member, Academic Senate	AIM INSIGHTS and College for Leadership & HRD, Mangalore (2008-09).
4.	Dr. Navin Shimpi	FASTRACK Young Scientist	DST, New Delhi
5.	Prof. V.L. Maheshwari	Norman E. Borlaug Fellow	US Department of Agriculture, USA
6.	Dr. A.G. Ingale	Fellow of Society of Sciences	Society for Sciences, Dunksa, Zharkhand
7.	Mr. K.S. Vishwakarma	Fellow of Society for Science & Environment	Society for Science & Environment, Jalgaon.

## 16. Internal resources generated :

The details of internal resources generated by various schools/departments of the university is tabulated below :

Sr. No.	Name of the School/Department	Amount Generated (Rs. in lacs)
1.	School of Environmental & Earth Sciences	05.50
2.	School of Chemical Sciences	00.22
3.	Department of Chemical Technology	01.25
4.	School of Life Sciences	00.35
<b>Total Rs.</b>		<b>07.32</b>

The Department of Computer Science students have developed application software for the use in various administrative departments like BCUD, Examination Section, Health Centre etc. Also department students have developed University Official Website.

The Department of Library and Information Sciences has created electronic database for books, thesis, students and faculty members.

## 17. Details of departments getting assistance/recognition under SAP, COSIST (ASIST)/DST/FIST :

Three Schools were identified by UGC for Special Assistance Programme (SAP) and Infrastructural Development in Science and Technology (FIST) by DST in 2004. These programmes are being conducted for five years (till 2009) by respective schools. The details of three schools running these programmes are given below :

Sr. No.	Name of the School/ Department	Grants received during this year (Rs. in lakhs)	
		UGC-SAP-DRS	FIST
1.	School of Life Sciences	3.00 + 3.78* + 20.00**	-
2.	School of Chemical Sciences	02.90	-
3.	School of Physical Sciences	3.00 + 20.00**	-
4.	School of Environmental & Earth Sciences	57.00	-
5.	Department of Computer Science	20.00*	-
6.	University Department of Chemical Technology	10.00** + 2.00*	-

- Includes two Ph.D. fellowships for two years.
- \*\* Infrastructural grants.

## 18. Community Services :

The university has conscious about the community services and provided these services through number of ways by conducting/organizing workshops, street plays, popular lectures, speeches, blood donations and Vidnyan Jattha for farmers.

Sr. No.	Name of the School/ Department	Community Services rendered
1.	Department of Physical Education	Campus cleaning programme.
2.	Department of Computer Science	- University level Research Festival "Avishkar-2008" - Seminar on "Career Opportunities through Talent Transformation Platform" - Seminar on " <b>Importance of Soft Skills</b> " by for the PG students of Computer Science, Mathematics & Physics.
3.	University Department of Chemical Technology	- Blood Donation Camp on September 15, 2008.
4.	Department of Mass Communication & Journalism	Dr. Sudhir Bhatkar participated in following community services :- • All India Radio Progamme "Margadarshan". • "Ape Riksha Driver Janiv Jagruti Shibir" Organize by Kendriya Shramik Shiksha board New Delhi – Jalgaon Division.
5.	School of Environmental & Earth Sciences	- Environmental status report of Jalgaon Municipal Corporation. b) Mass Awareness Programme and Evaluation of proposal for Nirmal Gram Puraskar of villages in Jalgaon, Dhule and Nandurbar Districts. c) Training courses for water quality in rural areas of Jalgaon, Dhule and Nandurbar Districts.
6.	School of Life Sciences	- Soil analysis to the local farmers. - Popular Science lectures in the City Schools. -Consultancy & Analytical services to industries. - Quality agro-inputs on no loss no profit basis to the farmers. - Guidance to the farmers on soil fertility issues.

Sr. No.	Name of the School/ Department	Community Services rendered
7.	Department of Comparative Languages & Literature	Dr. (Smt.) Shobha Shinde is working as a Secretary of Trustee of K.S. Wani Memorial Trust and Member, Board of Directors, K.S. Wani Institute of Advanced Study in Marathi.
		Conducted study and life skills workshops for students of Schools, Ashram Schools and Colleges.
		Dr. Mukta Mahajan is working as a Member, Mahila Dakshata Samittee, S.P. Office, Jalgaon.
		Dr. Mukta Mahajan is conducting/writing interviews, script writing, translation for AIR, Jalgaon.
		Dr. Kailas Sarvekar working as a Director, K.S. WANI Institute of Marathi and Editor, University Magazine 'Giranangan'.
		Dr. M.S. Pagare regularly writing column for Sunday Supplement of Daily Lokmat and Samrat.
		Dr. M.S. Pagare is working as a Advisory of Monthly 'Bahujan Kala'.
		Dr. Sunil Kulkarni is working as a Vice-President, Bindusara Bahu-Uddeshiya Shikshan Sanstha, Beed and Co-ordinator, NSS, North Maharashtra University, Jalgaon.
		Mr. Ashutosh Patil is working as a Co-Editor of literary magazine 'Kavita Rati', Member of Editorial Board, Giranangan and Yuva Spandan.

### 19. Teachers and officers newly recruited :

The information about teachers and officers newly recruited in the year is given below :

Teachers		Officers	
Regular	On contract	Regular	On contract
26	29	01	-

### 20. Teaching-Non-teaching staff ratio :

The Teaching-Non-teaching staff ratio is **1: 3.2**. The position of teaching-non-teaching staff is given below :

Existing Teachers	Teachers recruited		Existing Non-teaching Staff**	Non-teaching staff recruited**	
	Regular*	On contract		Regular*	On contract
127	98	29	407	01	00

\* Along with appointments made against lien post.

\*\* Along with officers.

The above ratio calculated includes non-teaching staff of the university office on the campus. However, teaching-non-teaching staff ratio exclusively for the schools/departments on the campus is **1 : 0.5**.

## 21. Improvements in the library services :

### A) Central Library :

The University Library of the University is housed in a spacious five storied building with a built up area of 95,000 sq. ft. at a central place on the campus. Like a conventional library, this library offers the following facilities :

- i) The stack room in conformation with the Internationally Accepted Accession Numbers.
- ii) A spacious and well furnished reading room.
- iii) Separate cubicles for teachers and researchers.
- iv) A full fledged periodical section offering recent National/International Journals, other periodicals and magazines.
- v) Stacks for old journals and periodicals in bound forms.
- vi) A reference section comprising of useful and important encyclopedia and reference books.
- vii) Corporate Membership Scheme for local industry units.

Over and above, in the recent times, the library has made operative the followings :

- i) All the data pertaining to books, reference books, journals, bound volumes etc. has been computerized.
- ii) The manual system of issuing and returning of books is now being replaced by computerized bar coding system. This Barcode system enables Library Cards & Online Public Access Catalogue facility.
- iii) With the help of INFLIBNET access to 4000 e-journals and periodicals is made available to readers by V-SAT link. This facility was made available to the students/research scholars & academicians; a separate laboratory was set up in the Department of Computer Science and extensively used by the academia. Everyday, on an average 40-50 students availed this facility.
- iv) On-line Public Access Catalogue (OPAC) facility is provided to readers.
- v) Digitized Identity Card facility is introduced to the students.
- v) Availability of books is shown in the following table :

Text Books		Journals	
Existing	New Additions (with cost Rs. in lakhs)	Existing	Subscription cost (Rs. In lakhs)
39492	30.00	158 Print & 4000 e-journals	3.0 approx.

## B) Department Libraries :

It may be noted that all the departments have their own departmental libraries. The details regarding departments and number of titles in the departmental library are given below :

Sr. No.	Name of the School/ Department	No. of Books/ Journals
1.	School of Chemical Sciences	215 + 18
2.	School of Life Sciences	200
3.	School of Mathematical Sciences	300
4.	School of Physical Sciences	315
5.	School of Environmental & Earth Sciences	710
6.	University Department of Chemical Technology	5000
7.	Department of Computer Science	175
8.	Department of Management Studies	225
9.	Department of Comparative Languages and Literatures.	600
10.	Department of Physical Education	16

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

- Department of Management Studies has purchased new books worth Rs. 60,000/- from study material fees received from the students.
- University Department of Chemical Technology has purchased books worth Rs. 2.00 lakhs for the Department Library under SC/ST grants received from Social Welfare Department, Government of Maharashtra.
- The School of Environmental and Earth Sciences has procured 390 books worth Rs. 1.5 lacs from the grants of M. Tech. in the academic year 2008-09.
- During the period, few books worth Rs. 80,000/- have been added to the Departmental Library of School of Chemical Sciences from the grants of UGC-SAP, New Delhi.

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

A system of students' assessment of teachers has been agreed in principle by the university authorities and the faculty. However, only a few departments of campus could introduce this mechanism in the period of report. The names of the departments are :-

- Department of Comparative Languages & Literature (M.A. English course).
- Department of Education.
- University Department of Chemical Technology.

**24. Feedback from stakeholders :**

1. The School of Environmental & Earth Sciences has been taking continuous feedback from employers and parents.
2. Feedback from industry and past students was obtained on the curriculum of B. Tech. and M. Tech. Their suggestions were suitably incorporated.
3. The School of Life Sciences has taken into consideration the feedback of alumni and industries while revising the syllabi of M.Sc. (Biochemistry), Microbiology and Biotechnology in 2007.

**25. Unit cost of education :**

Particulars	Amount (Rs.)
Departmental Expenses	1,55,20,548.00
Salary to Teaching & Supporting Staff	3,36,86,771.00
Sub-total	4,92,07,319.00
No of Students admitted	2100
<b>Cost per Student</b>	<b>23,432.00</b>

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

The University is making use of ICT in its various operations to bring in efficiency, transparency and credibility.

- (a) A state of the art, SAP-ERP software has been procured for streamlining the operations in administration and finance section of the University. The University may be one of the few State Universities in the country to have implemented such an advanced software.
- (b) A biometric system has been installed for monitoring attendance of employees.
- (c) The admissions to P.G. programmes on campus as well as affiliated college were made on the basis of an On Line application process.
- (d) The University has a dynamic website and various types of forms for the students are made available on it.
- (e) The University has introduced BAR Coding of answer sheets for full proof confidentiality. High end scanners, OCR/IMR software for BAR Code reading were installed.
- (f) The University provided mark sheet with scanned photograph of all the students of final year degree courses.

- (g) A teller made software – EDPS has been installed for atomization the various operations of the examination sections.
- (h) The University has implemented a concept of “Digital University” in collaboration with Maharashtra Knowledge Corporation Limited (MKCL), Mumbai. Every student is provided an e-account on the Digital University portal through which he/she can avail various facilities. This has been referred to as “E-Suvidha”.

## 27. Increase in the infrastructural facilities :

### A : Equipments/Facilities (costing more than Rs. 1.0 lac) :

Sr. No.	Name of the Equipment	Make/Model
1.	Modular furniture	Shital Enterprises, Aurangabad
2.	Hydrogen Generator	PC Analytical, Mumbai
3.	Intercom System	Karel Digital System
4.	Solar Water Distillation System	VJ Enterprises
5.	Zerox Machines & Digital Copier	Canon India
6.	Central Ladies Gymnasium	-
7.	Universal Testing Machine	Vikey Test Lab, Mumbai
8.	Tablet Coating Machine	V.J. Instruments, Mumbai
9.	UV Visible Spectrophotometers	Shimadzu, Japan
10.	Cyano Bacteria Culture Facility	-
11.	Air Jet Mill	PROMAS Engg., Mumbai
12.	Rotary Evaporator (Buchi type)	LABIN & ROTTEVA Japan,

### B] Civil works completed during the year :

North Maharashtra University, Jalgaon is the first University in the state who is having its own construction division for all types of infrastructure execution & its maintenance. Since 1993 all the infrastructure development is supervised, executed & carried out by its construction division. The list of infrastructure increased during this year is as follows :

Sr. No.	Name of the Work
1.	Construction of Zonal Parking of Department of Physical Sciences building at NMU, Jalgaon.
2.	Construction of Zonal Parking of Two & Four wheeler for Administrative Building and Senate Hall at NMU Campus.
3.	Construction of Zonal Parking of Two & Four wheeler for Department of Management Studies, School of Social Sciences and Computer Science Building at NMU Campus.
4.	Construction of Girls' Hostel No. 3 (Phase-III)
5.	Construction of Shikshak Bhavan.
6.	Development work of Class-IV Quarters (Unit 5 to 8) at NMU Campus.
7.	Construction of Library & Allied Educational Activities Sub-center of NMU, Jalgaon at Nandurbar, Dist. Nandurbar.
8.	Construction of Boys' Hostel No. 3 (Phase-III).
9.	Colouring and Maintenance works for various buildings like Administrative Building, Examination House, Boys' Hostel, Girls' and various Academic Building etc.

**C] Electrical works completed during the year :**

Sr. No.	Name of the Work
1.	Electrical works of Boys' Hostel No. 3 (Phase-III)
2.	Electrical works of Shikshak Bhavan.
3.	Electrical works of Girls' Hostel No. 3 (Phase-III)
4.	Proposed electrical development work at Class-IV Quarters (Unit 5 to 8) at NMU Campus.
5.	Electrical works of Library and Allied Educational Activities Sub-Center of NMU, Jalgaon at Nandurbar, Dist. Nandurbar.
6.	Supplying and Erecting A.M.F. Panel of 125 KVA Kirloskar make Diesel Generator Set at Car and Scooter Parking near Administrative Building.
7.	Supplying and Erecting A.P.F.C. at Electrical Sub-Station.

**28. Technology up-gradation:**

- a) The street lights on the campus have been replaced by CFL bulbs with a view to reduce electricity consumption.
- b) The Department of Computer Science has up-graded the licensed version of following software :
  - i) Novell Virtual Campus Solution(NNLS) components.
  - ii) Novell Open Enterprise Server, SP2 S/w Media Kit.
  - iv) Novell OES 1.0 and prior 100 user license: 2 numbers (200 users)+ 1 numbers(53 users).
  - iv) Novell Net Mail 3.5.2 foundation(1 user license copy): 250 users.
  - v) MS-OFFICE 2007 Suite – 10 Licenses.
  - vi) Windows 2003 Server – 06 licenses.
  - vii) Norton Antivirus Solution: 01 license.
- c) The Department of Comparative Languages and Literature has established a well equipped Language Laboratory with kits from Linguaphone Company, Mumbai. There are 20 kits in the laboratory and the students of Marathi, Hindi and English avail maximum use of lab to improve their English.
- d) The University Department of Chemical Technology has purchased 20 computers, Broad Band Internet Service and Anti-virus.
- e) The plant tissue culture facility in the School of Life Sciences has been upgraded with the provision of controlled temperature positive pressure module, false ceiling, vinyl flooring etc.

- e) Provision of RO based water purification systems have been installed in different departments for the benefit of students.
- f) Solar Water Distillation systems have been installed in 03 schools to provide distilled water round the year without the consumption of electricity.
- g) Various operations of examinations and administrations have been modernized as mentioned under point No. 26.
- h) A biometric system has been installed for monitoring attendance of employees.

### 29. Computer & Internet Access and training to teachers, non-teaching staff and students :

Computer and Internet access is freely available to all the stake holders on the University campus.

Campus Area Network (CAN) is in operation with 500 nodes on the campus with 2 Mbps 1 : 1 Internet connectivity along with additional 2 Mbps broadband connectivity. This network is based on the distributed star topology, in which the backbone of the network is made up of 12 core single mode optical fiber cables with local distribution with the help of 12 core multimode optical fiber cable. The backbone of the network is GIGABIT with 100 Mbps desktop connectivity. The network is build with the NORTEL Technology using 3 core Layer 3(L3) switches & 24 Layer 2(L2) switches & utilizes structured CAT 6+ cabling at the desktop side. The network is secured with application (Novell's Border Manager) as well as hardware firewalls (Nortel connectivity).

Individual Departments/Schools have established Computer Labs with Internet connectivity for the students. Besides, Internet access is made available in Central Library also.

### 30. Financial aid to students :

The following data presents the number of beneficiaries in the context of financial aids.

Sr. No.	Name of the scheme	No. of beneficiary	Amount (Rs. in lakhs)
1.	State Government scholarships to the SC/ST/OBC and economically backward class students	983	1,58,86,294.00
2.	State Chief Minister Fund	30	96,100.00
3.	"Eklavya Scheme" for educational loan	50	16,92,535.00
4.	Interest paid on Eklavya loan	--	2,05,761.00
5.	Student Group Insurance Claim	03	15,000.00
6.	Poor Boys fund/VC discretionary fund	547	5,51,700.00
7.	Dr. Babasaheb Ambedkar Hostel Financial Asstt.	205	1,42,900.00
8.	"Gold Medal Scheme" for motivating advanced learners and meritorious students	68*	4,62,838.00
9.	JRF/SRF (CSIR & UGC)	04	5,62,469.00

\* Each Gold Medal is awarded out of the donation of Rs. 50,000/- given by the individual/institutes.

### 31. Activities & support from the Alumni Association :

Every School/Department on campus is encouraged to establish Alumni Association and organize its activities. The following schools/departments have organized alumni meet in the period under review.

School/Department-wise number of participants :

Name of the School/ Department	Date of Alumni Meet	No. of Participants
Department of Management Studies	22.02.2009	55
Department of Physical Education	06.12.2008	25
Department of Comparative Languages and Literature	December, 2008	15
School of Life Sciences	28 December, 2008	30

\* The Department of Education has established 'Alumni Association' on Dec. 06, 2008.

The Alumni Associations of different departments are encouraged to provide support in the form of fellowships, books, journals etc. for the benefit of students. Similarly, guest lectures of alumni in senior positions in the academics, industries or self-entrepreneurs are organized to provide guidance inspiration and motivation to the students. Informally, alumni also helped the present students in getting employment, recommendations etc.

### 32. Activities and support from the parent teacher association:

The Directors/Heads of Schools/Departments are in touch with parents informally and the schools/departments receive verbal feedback from parents. Some of the departments though have taken initiatives and convened the meeting of Parent-Teachers Association as detailed below :

1. Department of Management Studies has conducted Parent-Teacher Meet on March 4, 2009. The meeting was chaired by Dr. (Smt.) Seema Joshi, Head of Department.
2. Department of Education and Physical Education has established Teacher Parent Association on September 17, 2008.
3. School of Environmental & Earth Sciences has conducted meeting of Parent-teacher association on December 9, 2008.

### 33. Health services:

The University has established a full-fledged Health Centre on its campus. It caters to the needs of students, faculty members, non-teaching staff etc. The centre is looked after by a Medical Officer (M.B.B.S.) with a nurse, compounder-cum-clerk and a ward boy. The Medical Centre is equipped with the following :

- a) Nebuliser.
- b) Pathology Lab.

The activities of the centre include :

- a) Routine medical check-up for newly admitted 890 students.
- b) Undertaken Medical Checkup of 455 University Employees.
- c) Medical services are provided to the 38 sportspersons during the various sports meets organized on the campus.
- c) Medical services are provided to 54 N.S.S. students.
- d) Participated in the Pulse Polio Campaign on the University campus in the Month of December, 2008 and February, 2009.
- f) Total 3685 patients have been treated during the period under report.
- g) Medical services were also provided to the participants of YUVARANG at M.J. College, Jalgaon.

### 34. Performance in sports activities:

No. of teams and students participated in Inter-University Tournament during the year 2008-09 are tabulated below:

Name of teams			No. of participants		
Men's Team	Women's Team	Total	Men	Women	Total
23	15	38	252	142	394

No. of major sports events organized by the University during the year 2008-09 is given below.

Events	Organized by the University	No. of participants
Inter-collegiate	Yes	8027
Inter-University	Yes	394 (38 teams)
National	Yes	369 players

- ❖ The Post-graduate Gymkhana of the University provides Games and Sports Facility to about 1900 students of different departments at the University Campus. Both male as well as female students at PG as well as UG level are actively participating in different Games and Sports like – Athletics, Basketball, Kho-Kho, Kabaddi, Volley ball, Table-Tennis, Chess, Badminton, Cricket etc.

### 35. Incentives to outstanding sports person:

The incentives to outstanding sports persons are given in a number of ways as depicted below :

- a) Total 312 students have been given 15 marks incentives for outstanding performance in sport as per University Ordinance 0.163.
- b) The sports persons are given all the possible facilities like - Track Suits, Kits etc.
- c) For each event, special coaching camps are organized to boost the performance of the players and to make them psychologically as well as physically fit.
- d) The participants are provided TA/DA for their participation in special coaching camps and tournaments.
- e) There is a provision of offering medical and financial support to the sports persons injured during the play.
- f) An outstanding sports persons who participated in Inter-University Tournaments were felicitated by the Hon'ble Vice-Chancellor on the Gymkhana Day. This felicitation is going to be a practice to be followed every year.

### 36. Students achievement and awards :

The following is the data regarding students achievement and awards obtained by the students of university school/departments.

Sr. No.	Name of the Schools/Departments	Name of the students	Achievement/Award
1.	Department of Education	Mr. Chatrabhuj Kadam	Ist Prize in book review competition.
		Ms. Rupali Patil	Ist Prize in Hindi Poem Reading Competition.
		Mr. Vijay Bhoi	IInd Prize in Hindi Poem Reading Competition
		Mr. Chatrabhuj Kadam	Ist Prize in Creative Writing Competition.
2.	Department of Comparative Languages and Literature	Mr. Kalusing Padvi	First Prize in Avishkar Research Festival
		Mr. Sunil Ahire	Consolation Prize in Inter-Collegiate Paper Presentation Competition.
3.	School of Physical Sciences	Mr. P.K. Baviskar	DAAD Fellowship

Sr. No.	Name of the Schools/Departments	Name of the students	Achievement/Award
4.	Department of Computer Science	Mr. A. S. Patil	Best paper presentation award in Avishkar - 2008
		Miss. H. B. Patil	Best research paper award in Avishkar-2008
5.	Department of Mass Communication & Journalism	Mr. Manoj Bari	Maharshi Walmiki Aadarsha Patrakarita Award – 2008.
		Mr. Harshal Patil Mr. Mahendra Khedkar	<b>First Rank</b> (Group) in Inter University Level Debating Competition (Dec 2008)
		Mr. Ravindra Patil	<b>Best playback Music</b> award in Sakal Karandak Skit Competition Jalgaon
		Mr. Anil Lohar	<b>First rank &amp; Gold Medal</b> in the M.A.M.C.J examination held in April 2009.
		Ms. Soni Umrao	Shrimati Kamlabai Choghule Smurti puraskar 2009
6.	Department of Chemical Technology	Mr. Divate Ajit Marotirao	Topper in GEE, Pune
		Mr. Nipon Ghosh	State level selection at AVISHKAR & National level selection at ANWESHAN.
		Mr. Vishal Gaikwad	Selected in M.P.S.C. (Dy. S.P.).
		Mr. Vishal A. Makwana	Selected in UPSC (IRS).
		Ms. Pallavi Shirsath	Selected in MPSC (Chief Officer – Municipal Council).
7.	Department of Sports	Men's Team	Silver Medal in all India level
		Shri Viresh Husale	Bronze Medal in All India Level Boxing Competition
		Men's Team	Bronze Medal in State Level Athletics 400 x 4 Relay at M.P.K.V., Rahuri
		Shri Viresh Husale	Best Player Award by North Maharashtra University, Jalgaon.
8.	School of Life Sciences	Ms. Promita Datta	IInd Prize in State Level Avishkar.

Sr. No.	Name of the Schools/Departments	Name of the students	Achievement/Award
7.	Department of Management Studies	Mr. Devdatta Tare Mr. Bharat Jadhya	III <sup>rd</sup> Prize at “Biz-intell”
		Mr. Sushil Mavale Ms. Prerena Bhatia	II <sup>nd</sup> Prize of best paper presentation competition.
		Ms. Priyanka Sharma	II <sup>nd</sup> Prize in Personality Contest.
		Mr. Bhushan Suryawanshi Mr. Prashant Maheshwari Mr. Amitkumar Dixit Mr. Sanjiv Kumar	Best participation award at State Level AIM’s Programming Contest in the National level Conference on “Advances in IT and Management”.
		Mr. Devdatta Tare Mr. Rahul Wagh	Corporate Quiz Competition at KASHTI 09, University level Management Festival organized by Raisonni Group of Institution, Jalgaon.
		Mr. Rajneesh Kumar	Debate Competition at KASHTI 09, University level Mgt. Festival organized by Raisonni Group of Institution, Jalgaon.
		Mr. Parag Mahajan	Best Appreciation Award at KASHTI 09, University level Mgt. Festival organized by Raisonni Group of Institution, Jalgaon.
		Mr. Sushil Mavale Ms. Kanchan Chaube	1 <sup>st</sup> Prize in Advertising Skill
		Mr. Kamal Karera Mr. Priyank Sharma	2 <sup>nd</sup> Prize in Advertising Skill
		Mr. Tushar Mali	1 <sup>st</sup> Prize in Classical Singing in Youth Festival
Mr. Chaitanya Gadgil	3 <sup>rd</sup> Prize in Western Singing in Youth Festival		

### 37. Activities of the Guidance and Counseling unit:

There is a Psychological Counseling and Career Guidance Center functional under the Department of Adult & Continuous Education and Extension Services. The Center has 18 different types of standardized psychological tests. It offers a 15 month P.G. Diploma in Psychological guidance and counseling. It has organized camps for occupational stress and personality test for Class-I officers of the University. The total number of beneficiaries in the period under review are 96. Besides, the various departments of the University also provide counseling and career guidance in an informal way. Under this, the activities conducted are given below :

Sr. No.	Name of the School/Department	Activities conducted	No. of beneficiaries
1.	Deptt. of Management Studies	Pre-placement Training Programme	60
2.	Department of Comparative Languages and Literatures	Group Counseling	15
		Lecture series on Career Counseling for Students	25
		Learning to Learn Workshop for study skills	25
3.	Department of Computer Science	Job Counseling	120
		NET/SET Guidance	30
		Softskill Development workshop	200
4.	Department of Chemical Technology	H.R.D. Training	30
		GATE Coaching Programme	50
		Entrepreneurship Awareness Programme (EAP) Camp	100
5.	School of Life Sciences	NET/SET coaching programme	45
		Entrepreneurship Development Programme	60

### 38. Placement services provided to students :

- ❖ School of Environmental & Earth Sciences has conducted placement camp for the students in the Months of December, 2008 and March, 2009.

Sr. No.	Name of the School/Department	Name of the Industry/ Company invited	No. of students interviewed	No. of students selected
1.	Department of Computer Science	C3IT, Pune, Webodrome Arise Tech, Mumbai, CyberTech, Mumbai, Trivector, Mumbai, Densoft Infotech, Mumbai, Avibha IT Solution, Pune, Sansui Software, Pune, Cellica Software Services, Jalgaon	-	80
2.	Department of Mass Communication & Journalism	Zee News, A.I.R., Jalgaon and some local dailies.	-	08
3.	Department of Comparative Languages and Literatures	Private Coaching Institutes.	-	01
4.	School of Life Sciences	Private Coaching Institutes.	30	08

Sr. No.	Name of the School/Department	Name of the Industry/ Company invited	No. of students interviewed	No. of students selected
5.	Department of Management Studies	Reliance Life Insurance	06	02
		Club Mahindra	16	05
		Wipro	50	00
		Orient Cement	19	02
		Tata Communication Ltd.	01	00
		Jagadiya Copper	01	01
		Pradhan	05	01
		Manraj Motors	01	00
		Choksy Chemicals	04	01
		HCL Information Systems	06	05
		Sterlite India Ltd., Mumbai	05	01
		Hi Media Laboratories Ltd.	05	01
		Career Forum	01	00
		Chate International	24	06
		A-1 Business Solutions & Outsourcing	09	05
Crisil India Ltd.	10	01		
6.	University Department of Chemical Technology	Crompton Greaves, Mumbai; Savita Chemicals, Thane Belapur Road, Navi Mumbai; Kansai Nerolac, Lower Parel, Mumbai; Global R & D Division, Asian Paints, Thane Belapur Road, Navi Mumbai; INDOFIL, Thane; Pidilite Industries, Mumbai; Indian Rubber Manufacturers Research Association, Wagle Industrial Estate, Thane; Elantas Beck, Pune; Siddarth Cabochem, Jalgaon and NCL, Pune, Gharda Industris, Thane, Nipon Paints, Mumbai, J.K. Papers, Sonpur, VVF Mumbai.	124	43

Following students from the Department of Management Studies have been selected in various companies for Summer Placement :

Sr. No.	Name of the School/Department	Name of the Industry/ Company invited	No. of students interviewed	No. of students selected
1.	Department of Management Studies	Club	07 (On campus)	05
		Vodafone	06 (On campus)	06
		Amul India	01 (Off campus)	01
		J.K. White Cement	02 (Off campus)	01

- ❖ In case the company/industry shows inability to conduct campus interview, the Co-ordinator provides list of students with their bio-data.

### 39. Developments programmes for non-teaching staff:

The University organizes trainings for non-teaching staff for development and to keep their knowledge up to date. The details are given below :

- a) SAP Training Programme for non-teaching staff.
- b) Workshop for Administrative staff on How to use correct Marathi.

### 40. Good practices of the institution:

Following healthy practices are observed by the various academic schools/departments and administrative sections of the University :

- a) Transparency and regularity in providing increments, time bound promotions, placements of teachers etc.
- b) Time bound redressal of grievances of employees.
- c) The University organizes annual cultural programme, sports meets and get-together for its employees for maintaining harmony.
- d) National Science Day celebration for creating awareness about science among the masses in which every department on the campus participates.
- e) All the students of the University schools/departments are covered under insurance policy. In the case of accidental death, Rs.50,000/- are given by the Insurance Company to his/her parents. During this period, Rs. 2,50,000/- were given to 12 students' nominees (parents). From this year, University has started giving a grant of Rs.5,000/- per student in addition to the above amount as interim relief from the Hon'ble Vice-Chancellor fund. During this year, 03 students were given Rs. 15,000/-.
- f) Guidance regarding English language proficiency to the needy students from the University Departments was provided for GD, PI, Overseas fellowship etc.
- g) Financial aid/support is extended to the employees of the university in the form of Medical Advance, Computer, Vehicle, Housing Loan and Festival Advance. The details of the amount disbursed during this period is given in the following table :

Sr. No.	Nature of Aid/support	No. of beneficiary	Amount (Rs. in lakhs)
1.	Medical Advance	01	55,913/-
2.	Computer Loan	55	14,86,090/-
3.	Vehicle Loan	18	16,62,450/-
4.	Festival Advance	254	7,53,000

#### 41. Linkages developed with National / International, Academic / Research bodies:

Various schools/departments of the university have established linkages with following institutions/organizations/industries for making research more meaningful and mutual benefits. In the year under review, the linkages with following institutions/universities were made :

Sr. No.	Name of the School/Department	Linkage established with	Nature of linkages established
1.	School of Environmental & Earth Sciences	AOGS	Training
		UNICEF	
		Maharashtra Pollution Control Board, Mumbai.	
		Ministry of Rural Development, New Delhi	
2.	School of Chemical Sciences	ICT, Mumbai	Research & Development
		National Chemical Laboratory, Pune	
3.	Department of Computer Science	CSI, IETE, LSI, University of New Brunswick, Fredericton, New Brunswick, Canada	Research & Development
4.	Department of Comparative Languages and Literatures	Maharashtra Sahitya and Sanskriti Mandal, Pune	Research & Teaching
		Educational Resource Center, New Delhi	
		AIMS INSIGHT, Mangalore	
5.	Department of Chemical Technology	National Pussan Laboratory, Korea, NCL, Pune, VIT, Pune, Crompton Greaves, Mumbai	Research & Development
6.	School of Physical Sciences	University of Pune, Pune KRICT, Korea	Research & Development
7.	School of Mathematical Sciences	University of Pune, Pune University of Mumbai, SGB Amaravati University, Amaravati, Dr. B.A. M. University, Aurangabad	Research & Development

Sr. No.	Name of the School/Department	Linkage established with	Nature of linkages established
8.	School of Life Sciences	Agharkar Research Institute, Pune National Bureau of Agricultural Important Microorganisms, Mau., National Instt. of Interdisciplinary Science & Technology, Trivendrum, Osmania Univ., Hyderabad, AMITY Univ., Noida, University of Alabama, USA, Jain Irrigation Systems Ltd., Jalgaon, Biosynthetic Pvt. Ltd., Jalgaon.	Research & Development

#### 42. Any other relevant information the institution wishes to add :

##### a) Rajiv Gandhi Science & Technology Commission Center :

The University has established the Rajiv Gandhi Science & Technology Commission Center for popularization of science among masses. The Center is equipped with EduSAT Terminal for interactive learning sessions via Satellite. The Center was inaugurated by Prof. L.T. Shimpi, USA on 23.07.2008. The Center organizes and arranges various activities. A list of activities done during the period under review is given below :

- Science Festival (19/05/2009 – 27/05/2009)
- Programme on Science Writing for Journalism students and local reporters (18/02/2009)
- Contemporary Lecture On Chandrayan.
- Contemporary lecture – Marathi -03-02-2009 (Regional Language)

##### Special Efforts :

- Propagation of use of Digital Library of Vigyan Prasara to the society in our affiliated area.
- Initiation of VIPNET activities.

**b) Department of Chemical Technology :**

**i) Blood Donation Camp :**

Blood Donation saves human life and therefore has major significance in human culture. SAT Cell Organised **fifth** “Blood Donation Camp” successfully jointly with T. S. V. P. on Sept. 15, 2008 at U.D.C.T. It was inaugurated by Hon’ble Principal Dr. K B Patil, Vice-Chancellor, NMU. Prof. Dr. S. Mishra, Head, UDCT was the Chairman. In all, 87 students and faculty member donated the blood. The Department received felicitation from Golwalkar Blood Bank, Jalgaon for organizing Blood donation Camps on regular basis.

**ii) Workshop on HRD Training :**

SAT Cell supported workshop on HRD Training for M. Tech. students covering Personality Development, Interview Techniques, Communication Skill, Time management, during Dec. 28-30, 2008.

**iii) GATE Coaching Programme and Success in GATE-2009 examination:**

GATE (Graduate Aptitude Test in Engg.), a national entrance test for Post Graduate admissions In Engineering and Technology is one of the major examination for all final year Engineering students aspiring for PG research. With financial support through **UGC supported Remedial Coaching Scheme** of North Maharashtra University, SAT Cell conducted GATE Coaching Programme for B. Tech. Students during Feb. 02-07, 2009. at U.D.C.T., N.M.U., Jalgaon.

**iv) Entrepreneurship Awareness Programme (EAP) Camp :**

Promotion of self-employment is the need of time. Keeping this in mind, SAT Cell conducted **EAP** camp during Feb. 04-05, 2009 for B. Tech. (Chem. Engg. / Tech.)/ M. Sc. students. The 2 day programme covered Entrepreneurship Motivation, Project Identification & Planning, and Financing of Project etc. with faculty support from ‘**MITCON**’ Jalgaon, and **financial Support by Dr. K. C. Patil, MD, Krishna Pectin & Rotary Club**, Mayadevinagar, Jalgaon. The output of such programmes in terms of number of students starting their own units is expected to be encouraging. The programme was inaugurated by Hon’ble Vice Chancellor Prin. Dr. K. B. Patil. Dr. M. V. Baride, Registrar was the Chief Guest for Culminating Function.

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**SECTION- C**

**Outcomes Achieved by the end of the year :**

1. The Eligibility and Admission Sections are merged with the Examination Section during the period under review as per the plan to avoid communication gap and procedural delay between them.
2. As per the plans, the University authorities have implemented continuous assessment programme and semester system for S.Y.B.Sc. from the academic year 2008-09.
3. Installation of Wind Hybrid Solar System 2.5 KW capacity at Guest House and Ladies Hostel on the campus could not be materialized due insufficient wind source. However, solar water heaters have been installed.
4. The University has installed energy saving LED/CFL lamps on the main road joining university gate and the main administrative building.
5. The process for establishing an interactive Science Park on the campus has begun with the allotment of temporary space in the Central Library Building of the University. A few scientific instruments have also been purchased. A proposal to purchase a Mobile Van for increasing scientific awareness amongst school going children in the jurisdiction of University has also been sanctioned.
6. The University has recruited 61 new faculty members in various disciplines. During the year, the faculty members were motivated and encouraged to write research proposals to various funding agencies for grants.
7. Basic facilities in science laboratories like - Gas Pipe Line have been installed in some departments. The Department of Management Studies established 02 separate Computer Laboratories for the benefit of students.
8. Majority of Schools/Departments have organized Alumni and Parents Meets as per NAAC guidelines.
9. Following academic programmes have been started/introduced by the respective Schools/Departments during the year :-
  - (a) Two M. Tech. programmes i.e. M. Tech. in Oleo-chemicals and Surfactants Technology and Pharmaceutical Technology in the Department of Chemical Technology.
  - (b) Two diploma programmes (one year) in Light and Instrumental Music have been introduced through Distance Education.

10. A large number of Conferences/Workshops/Seminar have been organized by various Schools/Departments on the campus during the period.
11. The NET/SET Coaching Cell of University has conducted NET/SET coaching workshop and counseling programme for reserved category and minority students in the subjects of Chemical Sciences, Computer Science, Life Sciences, Marathi, Hindi, English, Mathematical Science and Education during May 6-15, 2009.
12. The SOLE software has not been received from UGC, hence complete automation of Central Library was not achieved during the period. However, data automation has been completed with enrollment of 44,000 books. The Internet Surfing Laboratory with 25 nodes is started for the students, in the Central Library.
13. The Central Library has organized a one day National Conference on “Vision Library 2020” on 08.04.2009 for the Librarians of the affiliated colleges of the University in which 144 participants took part.
14. Steps have been taken at various levels to confer academic autonomy/flexibility to the Schools/Departments on the campus so that it can be implemented from the academic year 2009-10 effectively.
15. Series of meetings were held with the Heads/Directors of the Departments/Schools and all faculty members to get acquainted with the Credit and Grade Point Assessment (CGPA) system to various P.G. Programmes offered on the campus. It was unanimously decided to implement the system from the academic year 2009-10 as academic flexibility is a must for effective implementation and to provide horizontal mobility to the students.
16. **The highlight of the year has been the visit of NAAC Peer Team to the University for re-accreditation during January 5-7, 2009. The University thus became the first State University to volunteer for NAAC reaccreditation. The NAAC Peer Team under the Chairmanship of Prof. C.K. Kokate, Belgaon assessed the performance of the University based on Reaccreditation Report submitted by the University. It is heartening to mention that the NAAC has awarded grade ‘B’ (2.88 CGPA) to the University.**

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**PART – D**

**Plans of the University for the next year :**

1. To implement CGPA system and confer Academic Flexibility to the Schools/Departments on the campus. Revision of syllabi to accommodate CGPA system.
2. To introduction semester system to T.Y. B.Sc., F.Y. Com. and B.A.
3. To submit SAP-DRS (II) and FIST-DST level II proposals of Schools of Life, Chemical and Physical Sciences and to encourage other Schools/Departments to submit proposals under them.
4. To make budgetary provision for providing financial assistance for organizing Conferences/Seminars/Symposia to the Colleges and University Departments and travel grants for attending International Conferences to college and campus teachers.
5. To introduce a couple of new innovative PG programmes on campus.
6. To establish a Centre for Studies in Nano-Science and Technology with sophisticated analytical facilities like SEM, TEM, AFM etc.
7. To purchase a Mobile Van for implementing the activities of Science Park.
8. To install a Biogas System in the Ladies Hostel on experimental basis to utilize the food waste generated in the mess for generating biogas.
9. To install LED based Solar Street Lamp system on campus on experimental basis.
10. To establish a 3D theatre at the Rajiv Gandhi Science & Technology Commission Center for science popularization amongst students.
11. To start a new interdisciplinary Science Journal at the University campus.
12. To establish the facilities of routine blood and urine analysis at University Health Center and to organize health check-up camps for the employees of the University.
13. To make provision for land for the construction of 250 and 500 bed girls and boys hostel respectively for tribal students of N.M.U. jurisdiction to be developed by Ministry of Tribal Welfare, Govt. of Maharashtra, Mumbai.
14. Renovation of Gandhi Philosophy Center, Dhule.
15. Construction of permanent Convocation Stage, Convocation Hall (2500 capacity), Indoor Stadium with multipurpose hall, International standard Swimming Pool, Social Sciences building and Zonal Parkings Phase-I.

16. To provide fix furniture and interior works in various Schools/Departments (Phase-II).
17. Extension of existing Water Supply scheme which include wells, sampwells, rising mains and Gas Chlorination plant from the XIth Five Year Plan grant of the UGC, New Delhi.
18. To implement the recommendations of NAAC Visiting Team (The University has undertaken the proposal of constructing the Central Cafeteria in front of the Main Administrative Building as suggested by the NAAC Team).
19. To organize State Level N.S.S. programme “UTKARSHA” in association with Department of Higher & Technical Education, Govt. of Maharashtra, Mumbai.
20. To organize West Zone Inter-University Basket Ball Tournament at the University Sports Complex.

*(Prof. V.L. Maheshwari)*  
*Director, IQAC*

*(Prin.Dr. K.B. Patil)*  
*Vice-Chancellor*  
*Chairperson, IQAC*

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