



North Maharashtra University, Jalgaon (Maharashtra)
Annual Quality Assurance Report (AQAR) of the IQAC
2010-11

SECTION- A

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

1. To make budgetary provision for providing financial assistance to colleges and university departments for organizing Conferences/Seminars/Symposia.
2. To make budgetary provision for providing financial assistance to colleges and university departments for attending international conferences.
3. To start a five year integrated dual course B.Sc. + M.Sc. in Actuarial Science, P.G. Programs in Languages, Education and Performing Arts.
4. To start new M. Tech. programmes and Certificate/Diploma courses for the benefit of students.
5. To establish Student Facility Center.
6. To provide examination result through SMS to the students.
7. To expedite and complete the construction of Indoor Stadium with Multi-purpose Hall, and Convocation auditorium.
8. To constitute new statutory bodies (Management Council, Academic Council, Senate etc.) by elections as per the Maharashtra Universities Act, 1994.
9. To procure a Fire Fighting Vehicle for protecting the resources on campus from fire.
10. To expedite the procurement of Mobile Exhibiton Van under the Science Park initiatives.
11. To apply for ISO-9001-2008 Certificate for the University administration, Exmination, Finance and BCUD Sections.
12. To undertake repairs of internal roads on campus.
13. To install RO Water Purification System on each floor of the administrative building for the benefit of employees, students and visitors.
14. To conduct pre-Ph.D. Entrance Test (PET) as per the notification dated 11 July 2009, of the UGC, New Delhi for the registration of Ph.D. students.
15. To establish Khandesh Archives and Museum for preserving historical monuments of Khandesh Region in the Department of History.

16. To conduct “Environmental and Watershed Awareness Programmes” in rural areas of the Jalgaon, Dhule and Nandurbar districts, by the School of Environmental and Earth Sciences.
17. To revise the syllabi of the courses offered by P.G. Departments of University Campus as per Academic Flexibility.
18. To promote the research & extension (and to extend facilitation for researchers,) by enhancing the linkages with National/International academic and research bodies.
19. To procure advanced/high technology equipment and provide facilities to the laboratories on the University campus.
20. To strengthen the library and documentation facility at the Gandhi Research Center of the University and to conduct examination on ‘Gandhian Thoughts’ for school and college students.
21. More beautification of the university campus.
22. Enhancing Industry-University interactions.
23. To improve power supply of the School of Life Sciences under the UGC infrastructure grant.
24. To expediate the process of purchasing equipments sanctioned under the DST-FIST scheme.
25. To promote the in-plant training and instrumentation training.
26. To encourage faculties to start short-term projects as per the demand of the local industries.
27. To make efforts in improving the communication skill of the students on the campus and to prepare them to face the interview.
28. To develop required skills & technique in the field of Mass Communication and Journalism.
29. To inculcate the concept of ‘Social Responsibility’ among the students on campus.
30. To establish Women’s Studies Centre at North Maharashtra University, Jalgaon.

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 and objectives of the University are as below:

- i) Established counseling cell, Placement cell, Entrepreneurship Development Programme, Youth/Women empowerment programme, HIV/AIDS and Life Skill Education Centers Development, Tribal Development program.
- ii) Identification of short-term/PG Courses, Programs for Senior Citizens, creation of awareness about Child Labour, Right to Information Act, Networking & Strengthening of the NGOs.
- iii) In-plant training and instrumentation training and outdoor Media Study tour were organized.
- iv) Short-term projects based on the needs of the local industries were conducted.
- v) Organized programs for farmers, educated them regarding the various aspects of farming.
- vi) Efforts for improving communication skills, interview preparation, for the students on the campus.
- vii) Lectures from industry/academic personnel.
- viii) Invited talks on ‘Dr. Babasaheb Ambedkar Thoughts.’
- ix) Updated the course structures as per the requirement of concerned field of study.
- x) Providing quality education for making efficient managers, technocrats, self-entrepreneurs and citizens of the country.
- xi) Seminars, symposia, conferences and workshops were organized for inculcating and appreciating research/scientific aptitude among students.
- xii) Participation in Refresher and Orientation course by the faculty of the University.
- xiii) To generate skilled software professionals to develop computing as well as soft skills among the students through six months full time Industrial Training for Computer Science Post-graduate projects in tune with industry demand.
- xiii) Organization of ‘Science Day’ celebrations.

- xiv) Guidance for competitive examinations.
- xv) Organization of AVISHKAR-2010 an University Level Research Festival.
- xvi) Organization of “MANTHAN-2011” which is a blend of IT Quiz & Programming Competition for UG, PG students.
- xi) Conducting NET/SET coaching guidance for the P.G. students of the University.
- xii) Encouraging students to participate in various competitions and events like seminars, workshops, research festivals, etc.
- xiii) Publication of ‘UMAVI VARTA’, ‘GIRNANGAN’ in which students have contributed by writing articles, poems, etc.
- xiv) Participation in Environmental Protection activity like ‘Satpuda Survival Movement’.
- xv) Participation in ‘Purshatam Karandak’ (a drama competition), ‘Debate Competition’.
- xvi) Celebration of ‘Marathi Patrakar Din’ and ‘National Journalist Day’.
- xvii) To provide technical assistance to local industries, civic bodies and Government organizations.
- xviii) To create environmental awareness among the community.
- xix) To provide students with knowledge of the rich legacy and heritage of world literature as well as Indian literatures and language studies.
- xx) To help students to find avenues of employability and encourage self-entrepreneurship.
- xxi) Organized programs for students and society, in the field of classical music, instrumental music and other performing arts.
- xxi) Visit to laboratories for exploring research trends and career opportunities.
- xxii) To work on region-specific problems and to provide sustainable solutions.
- xxiii) In order to increase the scientific awareness and popularization of science, lectures were organized for high school students in Jalgaon City.
- xxiv) Undertaking developmental activities for the community through NSS.
- (xxv) Participation in various social activities such as blood donation, visit to School for mentally challenged children, etc.
- (xxvi) Organized SOUL program for providing training facility for the students associated with library management.

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.Sc. (Analytical Chemistry) | 02 |
| B.Sc. (Actuarial Science) | 05 |
| M.Sc. (Actuarial Science) | 05 |
| Certificate courses in Japanese | 01 |
| Certificate courses Spoken English. | 01 |
| M.Ed. (Master of Education) | 02 |
| M. Phil. in Education | 02 |
| M.A. Music – Part I & II Vocal (Gayan) Instrumental (Tabla, Harmonium) | 02 |
| M.A. Music – Part I & III Instrumental (Tabla, Harmonium) | 02 |
| P.G. Diploma Course of MSW in Family and Child Welfare and Urban Rural Community Development | 01 |
| P.G. Diploma in Psychological Guidance & Counseling | 01 |
| Diploma in Fine Animation | 01 |
| Diploma in KIDS | -- |

3. Innovations in curricular design and transaction :

In view of granting Academic Flexibility to University Schools/Departments, the Management Council in its meeting held on 30.01.2009 vide its Resolution No. 2/2009 resolved that all University Schools/Departments are given academic flexibility from the academic year 2009-2010. The University has prepared rules & regulation for implementing academic flexibility and Credit-Grade based Performance and Assessment (CGPA) system. The following innovations in curriculum design are made in various schools/departments of University during this year:

- i) Syllabus of M.Sc.-I (Physical Chemistry, Industrial Chemistry, Pesticides and Agrochemicals) revised and implemented in June 2010 and the M.Sc. – II in June, 2011.
- ii) Syllabus of Analytical Chemistry also framed and implemented in June, 2011.
- iii) Syllabus structure of innovations program B.Sc. and M.Sc. (Actuarial Science) is developed.
- iv) Syllabus of M.A. Marathi, Hindi, English were revised keeping in view the need of the students.
- v) Twelve credits shall be awarded to the Industrial Training/Project course, which will commence in IV Semester and the final work and report will be completed at the end of IV Semester for M.Sc. (Computer Science), M.Sc. (Information Technology) and which will commence in VI Semester and the final work and report will be completed at the end of VI Semester for M.C.A. The marks and the credits will be allotted at the end of IV Semester for M.Sc. (CS), M.Sc. (IT) and the end of VI Semester for M.C.A.

- vi) One credit, in second semester (i.e. for Semester II M.Sc. and M.C.A.) for the Seminar and Three credits (in Semester III for M.Sc. and Semester V for M.C.A) for the Softskills Development Course have been allocated. The seminar shall be conducted as per the applicability of the subject. Every week there shall be a period for seminar wherein the students have to select the topic, carry out literature survey and prepare seminar report.
- vii) The University Department of Chemical Technology has accepted CGPA based credit system and academic flexibility pattern for all-round evaluation of B. Tech. and M. Tech. students. The students will undertake training in reputed Industry as a part of Curriculum, for six months.
- viii) The Department of Adult & Continuing Extension Education has designed syllabus of Diploma in Fine Animation and **KIDS**.
- ix) The Department of Management Studies has designed a curriculum for second year MBA semester IIIrd & IVth as per industry requirements along with revision of M.B.A. first year course.

4. Interdisciplinary programmes started :

The University has started following new interdisciplinary programme during the academic year 2010-11.

- i) P.G. Diploma in Actuarial Science (PGDAS).
- ii) Five year integrated program B.Sc. and M.Sc. (Actuarial Science).
- iii) M. Tech. Polymer Technology- 18 Seats (Full Time).
- iv) M. Tech. Oleo chemicals and Surfactants Technology- 18 (Full Time).
- v) M. Tech. Nano Science and Technology (covered under Innovative Programme of UGC).
- vi) M. Tech. Pharmaceutical Technology – 18 seats (Full Time).

5. Examination reforms implemented :

The following examination reforms were implemented by the University:

- i) Under academic flexibility, the examinations for Part-I and II of Science, Engineering & Technology and Commerce and Management faculties are conducted on the autonomous basis. A continuous evaluation system which includes home assignments and seminars by each student was followed as per the current trends in higher education.
- ii) The results of Schools/Departments of Science, Engineering & Technology and Commerce and Management faculties are declared within one week from the date of completion of examination.
- iii) Facility is provided for the students to obtain result through SMS.
- iv) Digitization/Scanning of all examination record for issuing of various certificates such as – duplicate marksheets and transcripts etc.

- v) Establishment of Student Facility Center to provide Online/Telephonic support to the student as well as college.
- vi) Using MKCL DU Portal all the process of examination with the college is done through e-mail including eligibility, pre-examination work, results etc.

6. Candidates qualified NET/SET/ GATE :

The numbers 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 | 03 | - | 02 | 05 |
| 2. | School of Chemical Sciences | - | 01 | - | 01 |
| 3. | School of Environmental & Earth Sciences | 01 | - | - | 01 |
| 4. | Department Mathematics | 02 | 01 | - | 03 |
| 5. | Department of Education | 01 | 08 | - | 09 |
| 6. | University Department of Chemical Tech. | - | - | 04 | 04 |
| 7. | Department of Library & Information Sci. | 01 | - | - | 01 |
| 8. | Department of Computer Science | - | 05 | - | 05 |
| 9. | Department of Mass Communication & Journalism | 01 | 02 | - | 03 |
| Total | | 09 | 17 | 06 | 32 |

7. Initiative towards faculty development programme :

- (i) The University provides financial assistance and special leave to the faculty members for attending conferences, symposium, seminars and workshops both at National and International level. Faculty members of the various departments are regularly attending conferences/seminars/workshops for presenting/discussing ongoing research work.
- The faculty members who have attended Refresher/Orientation Course are tabulated below:

| Sr. No. | Name of the faculty | Name of the faculty development programmes attended |
|---------|-------------------------|---|
| 1. | Shri R. P. Gore | UGC-Academic Staff College, Pune University Refresher Course in 'Chemistry and Chemical Technology' at UDCT, NMU, (Sept. 12-Oct.02, 2011) |
| 2. | Dr. U. D. Patil | |
| 3. | Shri Tushar Deshpande | |
| 4. | Dr. Navinchandra Shimpi | |
| 5. | Shri Mahendra Bari | |
| 6. | Dr. P.R. Puranik | Refresher Course in Environmental Sciences at UGC-ASC, Goa University, Goa (4-24 January, 2011). |

- (ii) The RGS&TC NMU, Center has conducted All India EduSAT Orientation Meeting at Jalgaon SIT on January 20, 2011.

8. Total number of seminars/workshops conducted:

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

| Sr. No. | Seminar/Symposia/Conference/Workshop | Duration |
|----------------|---|----------------------------|
| | Intel Teach Training Programme for Teachers Educators | 5-10 July, 2010 |
| 1. | Workshop on Orthography | 28 July, 2010 |
| 2. | Workshop on News Writing | 29 July, 2010 |
| 3. | State level paper presentation competition on Hindi Day | 30 th Sept 2010 |
| 4. | Workshop on Capacity Building of Women Managers in Higher Education. | 19-23 October, 2010 |
| 5. | NET/SET Coaching Classes | 23 Nov to 2 Dec 2010 |
| 6. | National Workshop on "Official Statistics in National Development". | January 17-19, 2011 |
| 7. | National Conference on Biotechnology for All. | December 29-30, 2010. |
| 8. | Orientation programme on Mental Health and Mental Hygiene | 08 December, 2010 |
| 9. | University level Research Festival "Avishkar-2010" | 12-13 December, 2010 |
| 10. | Legal Awareness among Secondary and Higher Secondary Teachers for Women's Empowerment in Nandurbar District | 3-4 January, 2011 |
| 11. | National Conference on Environmental Innovations for Resource Sustainability. | 21-22 January, 2011 |
| 12. | Work Shop on Career Opportunities | 28 Jan 2011 |
| 13. | Training Programme on Rain Water Harvesting and Artificial Recharge to Ground Water | 28 January, 2011 |
| 14. | Workshop on Use of Computer Analysis | 09 February, 2011 |
| 15. | National Conference on Nurturing service industry for economic development. | 10-11 February, 2011 |
| 16. | Two day University level workshop on 'Environment Communication' | 14 & 15 Feb. 2011 |
| 17. | One day Capacity Building Workshop for Women Sarpanchs | 20 February, 2011 |
| 18. | Workshop on use of "SOUL" software in the Library Management | 21 February, 2011 |
| 19. | Seminar on Loksahitya Sansodhan Abhyasachya Navya Desha | 23 Feb 2011 |
| 20. | One Day Workshop on International Year of Chemistry | 23 Feb. 2011 |
| 21. | Distance Education Programme on Science Writing | 24 Feb. 2011 |
| 22. | National Conference NCAC-2011 | 23-24 February 2011 |
| 23. | National Workshop on Research Proposal Writing | 27-28 February, 2011 |
| 24. | National Conference of Hindi On Bhartya Bhakti Sahitya May Samajik Ekatmata | 1-2 March 2011 |

| Sr. No. | Seminar/Symposia/Conference/Workshop | Duration |
|---------|--|------------------------------|
| 25. | “MANTHAN-2011” Quiz UG and PG (143 + 78 Participant) | 4 March, 2011 |
| 26. | “MANTHAN-2011” Query Select Competition UG and PG (55 Participant) | 5 March, 2011 |
| 27. | Debug Competition C (48 UG+PG) Java (26 UG+PG) | 5 March, 2011 |
| 28. | Seminar on Women Empowerment | 08 March, 2011 |
| 29. | National Conference on ‘Nanostructures and Nanomaterials’ | 19 th March, 2011 |
| 30. | VIPNET Camp on International Year of Chemistry | 4 April, 2011 |
| 31. | Two days workshop on Biotechniques Hands on Sophisticated Instrumentation. | July, 2011 |

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) |
|--|---|-----------------|-----------------------|
| Dr. V.V. Gite | Eco-friendly two pack polyurethin coatings from renewable sources : vegetable oils and carbohydrates. | UGC, New Delhi | 08.36 |
| Dr. K.K. Sharma | Electrochemical Synthesis of Noble Metal Nanoparticles using Biocompatible Stabilizers : Evaluation of its Effect in the DNA Base Damage Induced by Ionizing Radiation. | DST, New Delhi | 23.00 |
| Dr. (Mrs.) R.S. Bendre | Eco-friendly Pest Management : Development of Carvacrol derivatives as insect growth regulator. | UGC, New Delhi | 06.78 |
| Prof. D.H. More & Prof. P.P. Mahulikar | Design and Synthesis of PIPERAZINES and Benzimidazoles as Potent Antifilarial Agent. | CSIR, New Delhi | 16.00 |
| School of Mathematical Sciences | Minor Research Project (Math) | UGC, New Delhi | 2.30 |
| Prof. P.P. Patil | Conducting Polymer Composite Based Humidity Sensors. | BRNS, DAE | 21.00 |
| | Conducting Polymer/Metal Oxide Nanocomposites : Synthesis, Characterization and Application to Gas Sensing. | UGC, New Delhi | 11.50 |
| Dr. J.V. Sali | Fabrication of fully Ultrasonic-spray coated Polymer (P3HT) : Fullerene (PCBM) Bulk Heterojunction Organic Solar Cell. | UGC, New Delhi | 7.20 |

| Name of the Teacher | Title of the Project | Funding Agency | Amount (Rs. in Lakhs) |
|---|---|-----------------------------|-----------------------|
| Dr. B.R. Sankapal | Studies and development of low cost thin film solar cell. | DST-SERC | 12.42 |
| | Hetero-junction based LPG sensor. | UGC, New Delhi | 6.84 |
| | Chemical Synthesis of Quantum Dots and their sensitization for the applications in Solar Cells. | DAE-BRNS | 19.45 |
| | Colourful device grade dye sensitized solar cell based on nanoporous ZnO films with targeted efficiency of 4-5%. | DST, New Delhi | 25.62 |
| Shri K.S. Vishwakarma & Prof. V.L. Maheshwari | Digitised Inventory of Medicinal Plants of Maharashtra | RGSTC, Govt. of Maharashtra | 23.00 |
| Prof. V.L. Maheshwari & Shri K.S. Vishwakarma | Bioprospecting and Pesticidal Properties of Circular Proteins. | DST, New Delhi | 19.00 |
| Dr. S.V. Patil & Prof. V.L. Maheshwari | Lipase producing microbes as biopesticides: Novel approach to mealybug control. | DBT, New Delhi | 12.31 |
| Dr. B.L. Chaudhari | Utilization of Biodiesel waste (raw glycerol) by Pseudomonas sp. For production of Phenazine antibiotics. | DBT, New Delhi | 40.40 |
| | Development of efficient probiotic to combat vit. B ₁₂ , folic acid & iron deficiency. | DBT, New Delhi | 29.75 |
| Dr. S.V. Patil | Preparation of soil conditioners using <i>Psyllium</i> husk and bacterial biopolymers. | UGC, New Delhi | 05.66 |
| | An ecofriendly approach to the elimination of mosquito larvae by extract of commonly occurring weeds in Jalgaon district. | UGC, New Delhi | 01.30 |
| | Preproposal sanctioned: Biofertilizers and biopesticide bank for local farmers. | RGS&TC, Mumbai | 20.80 |
| Dr. A.G. Ingale | Lectin based biosensor for pathogen detection. | UGC, New Delhi | 09.46 |
| Dr. P.R. Puranik | Development of metal enriched cyanobacterial biomass for feed supplementation. | UGC, New Delhi | 07.50 |
| Dr. S.R. Bhalsing | In vitro propagation studies in some important medicinal plants. | UGC, New Delhi | 08.47 |

| Name of the Teacher | Title of the Project | Funding Agency | Amount (Rs. in Lakhs) |
|--|--|-------------------------------|-----------------------|
| Dr. Sudhir Bhatkar | A study on mass media habits of Adivasi in Nandurbar distric” | UGC, New Delhi | 01.20 |
| Prof. Shobha Shinde | The Social Reform Movement and the Nationalist Movement in the context of Indian Feminisms” | UGC, New Delhi | 05.21 |
| Prof. M.S. Pagare | Marathi sahiyatil Manavatawad | UGC, New Delhi | 03.86 |
| Prof. M.S. Pagare & Dr. Kailas Sarvekar | Ahirani Boli Bhasha Abhyas’ & “Lewa wa Adiwashi Boli Bhasahancha Abhyas | UGC, New Delhi | 06.25 |
| Dr. Ashutosh Patil | Marathi Lekhikanchya Katha Ani Kadambari Lekhanatil Stree Pratima: Ek Abhyas | UGC, New Delhi | 03.86 |
| Prof. Dr. Indumati Bharambe | Development & Implementation of Multimedia Package for Teaching Environmental Science Subject at Secondary Level | UGC, New Delhi | 06.29 |
| Prof. Dr. B.V.Pawar Dr. Ajay S. Patil | Development of Novel Information Retrieval (IR) Techniques using Data & Web Mining from the World Wide Web (WWW) | UGC, New Delhi | 09.13 |
| Dr. R. J. Ramteke | Development of Text to Speech (TTS) System for Natural Sounding Marathi Language | UGC, New Delhi | 07.00 |
| Dr. S. R. Kolhe, Dr. A. U. Surwade | Development of Framework for Effective Spam Management System | UGC, New Delhi | 02.26 |
| Mr. Shantaram Badgujar | Empowering Local Tribal Communities for Revitalization of Local Health Traditions in the Jalgaon District of Maharashtra | Ministry of Health, New Delhi | 10.00 |
| | Center for Agriculture and Rural Development – Card | ATMA | 02.50 |
| | The study of Needs and Problems of Tribal Youth in North Maharashtra as a Human Security Perspective. | UGC, New Delhi | 01.20 |
| | Farmers Suicide : A Study of Jalgaon District | Collector Office, Jalgaon | -- |
| | Tribal healers (Vaidu) | BAIF-MITRA, Pune | -- |

| Name of the Teacher | Title of the Project | Funding Agency | Amount (Rs. in Lakhs) |
|------------------------------|---|-------------------------------|-----------------------|
| Mrs. Madhulika Ajay Sonawane | Innovative Strategies to bring rural and tribal students into Management and Technology Education. | UGC, New Delhi | 05.89 |
| Prof. S. Mishra | Effect of Nanoinorganic fillers on Weather Properties of Elastomers | CSIR | 14.50 |
| | Innovation Programme-M. Tech. Nano Science and Technology | U.G.C. | 55.50 |
| | Synthesis and Characterization of Core-Shell Nanoparticles and Their Effect on Rheological, Thermal and Mechanical Properties of Polymers | UGC, New Delhi | 10.00 |
| | SAP-DRS | UGC | 74.00 |
| Dr. Navin Shimpi | Development of synthesis of nanoparticles using ultrasonication and its application in polymer nanocomposites | FASTRAC K Young Scientist | 08.40 |
| Mr. J. S. Narkhede | PBT, PTT synthesis using oligomerically organic clay | Minor Research | 01.90 |
| Dr. R. D. Kulkarni | Upgradation of vegetable oil for Tribological Applications | Savita Oil Tech. Ltd., Mumbai | 01.98 |
| | Eco-friendly two pack Polyurethane based on renewable vegetable oils & carbohydrates | U.G.C. | 08.36 |
| Dr. R. D. Kulkarni | Building an entrepreneurial culture through promotion of Entrepreneurship Development Cell | AICTE-EDC | 20.00 |
| | Non SAP- Basic Science Research | UGC | 30.00 |
| | Funds for Infrastructure for Science and Technology Dr. | DST | 83.00 |
| Dr. Navin Shimpi | Synthesis of Polymer nanoparticles biodegradable nanocomposites | UGC | 05.81 |
| | Synthesis, characterization and particle formation mechanism of core-shell nanostructures using ultrasonically initiated miniemulsion polymerization | DRDO, New Delhi | 14.95 |
| | Development of Technique for, Synthesis of Nanoparticles using Ultrasonication and Its Influence on Mechanical, Thermal and Weather Resistance Properties of Polymer Nanocomposites | DST, New Delhi | 08.40 |

| Name of the Teacher | Title of the Project | Funding Agency | Amount (Rs. in Lakhs) |
|----------------------|--|------------------|-----------------------|
| Dr. U D Patil | Reaction Engineering and Modeling of Thin Film Coprecipitation Reactors and Process Development of synthesis of Nanopigments | U.G.C., Delhi | 10.00 |
| Tushar Deshpande | Design Modelling and simulation of stirred ball mill and ultrasound dispersion of nanopigments for the formulation of pharma, printing ink and cosmetics | U.G.C., Delhi | 09.00 |
| Dr. Shirish Sonawane | Development of Nanocontainer for anticorrosive properties of coatings(SR/S3/CE/0060/2010 dated 30/08/2011) | DST, New Delhi | 10.08 |
| Prof. J. B. Naik | Study on hypoglycemic activity of morianga oleifera | DST, SERC | 08.00 |
| | Development of drug delivery system for oral formulation of anti-hyperglycemic with anti-hypertensive drugs | DRDO | 21.00 |
| | Temperature gradient in solid state Fermentater | U.G.C | 01.30 |
| | Development of site specific drug delivery system for oral formulation of nsoids | UGC | 07.50 |
| Prof. J. B. Naik | Development and Formulation of Sustained Release Nanoparticles of some Anti-diabetic Drugs | DST, SERC | 18.00 |
| V.R.Parate | Use of RO for quality improvement of Pomegranate concentrate | U.G.C. | -- |
| | Lipase catalyzed Interesterification Reactions for the production of Oleochemicals from Non Traditional Oils | AICTE, New Delhi | 07.00 |
| G. A. Bathe | Temperature gradients studies in packed bed solid state fermentor (for enzyme production) | UGC | 01.30 |
| | Biofertilizers and biopesticide bank for local farmers | RGSTC, Mumbai | |
| M.L. Bari | Design of microreactor for nano particle synthesis and its industrial exploration | UGC, New Delhi | 01.40 |
| Mokale Vinod | Solubility Inhancement of some poorly or insoluble Antidiabetic drugs | UGC, New Delhi | 01.70 |

| Name of the Teacher | Title of the Project | Funding Agency | Amount (Rs. in Lakhs) |
|---------------------|---|---------------------|-----------------------|
| Mokale Vinod | “Development of Drug Delivery System for Oral Formulation of Anti-Hyperglycemic with Anti Hypertensive Drugs” grant | DRDO | 22.33 |
| Dr. S.B. Attarde | Combined Aerobic Composting & Vermi-composting of Municipal Solid Waste with Sewage Sludge and Its Application in Organic Farming | UGC, New Delhi | 07.20 |
| Dr. V.M. Rokade | Integrated Geological Investigation for Solid Waste Disposal Site Scenario in Jalgaon Area using Remote Sensing and GIS. | UGC, New Delhi | 01.50 |
| Dr. A.M. Mahajan | Characterization of Dielectric films deposited by PECVD system | UGC, New Delhi | 10.67 |
| | Investigation, fabrication and characterization of different MIS structures for ULSI technology. | UGC, New Delhi | 11.48 |
| | Surface modification and Electrical characterization of Low-k-thin film b dielectric application in Nanoelectronics. | CSIR, New Delhi | 15.5 |
| | Fabrication and characterization of novel metal gate High-k based MOS capacitors for future ULSI technology. | CEN, IIT, Mumbai | -- |
| | Investigation of radiation effect on low dielectric thin films for CMOS/VLSI technology. | I.U.A.C., New Delhi | -- |

b) Completed :

| Name of the Teacher | Title of the Project | Funding Agency | Amount (Rs. in Lakhs) |
|--|---|----------------|-----------------------|
| Prof. V.L. Maheshwari & Shri. K.S. Vishwakarma | Plant Cyclotides : An alternative and sustainable approach to storage pest management in grain legumes. | DBT, New Delhi | 26.00 |
| Prof. S.T. Ingle | Indoor Air Pollution and Health Assessment in Rural and Tribal Area of Jalgaon District | UGC, New Delhi | 05.40 |
| School of Chemical Sciences | UGC-SAP (DRS-I) | UGC | 23.15 |
| | DST-FIST | -do- | 24.30 |
| Dr. Mukta Mahajan | Globalization Indian Spiritualism : A Study Of Saint Poets | -do- | 06.66 |

| Name of the Teacher | Title of the Project | Funding Agency | Amount (Rs. in Lakhs) |
|------------------------|--|----------------|--|
| Dr. Kailas Sarvekar | Marathi Aani Hindi Kavitancha Taulnik Abhyas | -do- | 04.13 |
| Mr. Shantaram Badgujar | Quality Primary Education to Tribal Ashram Schools students. | HBCSE, Mumbai | 18.00 |
| Prof. S. Mishra | Synthesis of Nanoinorganic Filler and Their Effect on Mechanical, Thermal and Weather Resistance Properties of Elastomer Nanocomposites. | CSIR | 8.00 |
| | Synthesis and Characterization of Nano Polymer Particles by Micro emulsion Method and their Applications in Polymer Processing | UGC | 11.96 |
| Prof. J. B. Naik | Investigation of scale formation and its mitigation by using different polyelectrolyte in heat exchange equipment | CSIR | 15.90 |
| Dr. A.M. Mahajan | Investigation, fabrication and characterization of different MIS structures for ULSI technology | UGC | 11.48 lacs |
| | Fabrication and characterization of novel metal gate High-k based MOS capacitors for future ULSI technology | CEN,IIT Mumbai | Fabrication facilities alongwith recurring expenses, TA/DA, accommodation of P.I.& Research students |

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 | Alta as a protein stain and one-step transfer of the proteins to the nitrocellulose membrane for western blot. | Applied |
| | | Polyurethane coatings containing copolymers of acrylic monomers and isocyanurate of Isophorone diisocyanate and their production thereof. | Applied |
| 2. | University Department of Chemical Tech. | Solution Spray Process for Preparation of Inorganic Nanosized Particles Using precipitation Technique in Micellar Mode. | Patent No. 235186, Date of Grant: 26/06/2009 , International Classification C11D1/83. |
| | | Nanospace extenders for hiding power improvements in coatings | Applied |
| | | A Process for Improved d-spacing of Nanoclay | Applied |
| | | A Process for Synthesis of Polymer Latex Nanoparticles by Monomer Automization in Microemulsion | Applied |
| | | Sol gel method for the synthesis of high yield titania nanoparticles using long chain..... solvent | Application no.3338/MUM/2011 |
| | | A process of ultrasonic cavitation technique for synthesis of polymer nanoparticles | Application No. 36/MUM/2012 |

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. | School of Chemical Sciences | National Centre for Free Radical Research, University of Pune, Pune |
| | | Department of Biotechnology, University of Pune, Pune |
| | | Universite Paris Sud-11, France |
| | | University of Rochester, Rochester, NY, USA. |

| Sr. No. | Name of the collaborative research programme | Name of the Institute/ University to which collaborative research programmes undertaken |
|---------|--|--|
| 2. | School of Life Sciences | Dept. of Biotechnology (DBT), Ministry of Sci. & Tech., New Delhi University Grants Commission, New Delhi Dept. of Science & Technology, Ministry of Science & Tech., New Delhi. |
| 3. | School of Environmental & Earth Sciences | IIGM, Mumbai G.S.D.A. (Government of Maharashtra) |

Besides this, a new collaborative research programmes for One Year Research Project and Training of M. Tech. (Polymer Technology) students of 2009-11 has started. Under this, M. Tech. students are required to work for one year in a Reputed Industry having good R & D backup to execute their research project.

Following Industries have participated in this Industry –Institute Interaction Programme for the period May/June 2010- April/May 2011:

- (a) Crompton Greaves, Mumbai
- (b) Savita Chemicals, Thane Belapur Road, Navi Mumbai
- (c) Kansai Nerolac, Lower Parel, Mumbai
- (d) Global R & D Division.
- (e) Asian Paints, Thane Belapur Road, Navi Mumbai
- (f) INDOFIL, Thane
- (g) Pidilite Industries, Andheri, Mumbai.
- (h) Shalimar Paints, Nasik.
- (i) DRDO, Mumbai.
- (j) NCL, Pune.
- (k) Elantas Beck, Pune.

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 | 13519657.00 |
| 2. | Dept. of Sci. & Tech. (DST), Ministry of Sci. Tech., New Delhi | 5768979.00 |
| 3. | UGC NON-SAP grants (DOCS) | 2000000.00 |
| 4. | Maharashtra Pollution Control Board, Mumbai | 401250.00 |
| 5. | Agharkar Research Institute, Pune | 703570.00 |
| 6. | A.I.C.T.E., New Delhi | 800000.00 |
| 7. | BRNS/DAE | 1604099.00 |
| 8. | C.S.I.R., New Delhi | 1518429.00 |
| 9. | DRDO | 925000.00 |
| 10. | Rajiv Gandhi Science & Technology Commission, Mumbai | 118000.00 |
| 11. | XI Plan Merged Scheme | 14534000.00 |
| 12. | Distance Education Center | 1000000.00 |
| 13. | Other | 1751950.00 |
| Total Rs. | | 44644934.00 |

13. Details of research scholars:

The number of scholars awarded 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 | --- | 24 |
| 2. | School of Life Sciences | --- | 30 |
| 3. | School of Physical Sciences | --- | 10 |
| 4. | School of Environmental & Earth Sci. | --- | 20 |
| 5. | School of Mathematical Sciences | 03 + 05 | 16 + 03 |
| 6. | Department of Computer Sciences | 02 | 22 |
| 7. | Department of Management Studies | 03 | 19 |
| 8. | Department of Chemical Technology | 07 | 25 |
| 9. | Deptt. of Comparative Lang. & Lit. | -- | 15 |
| 10. | Department of Library and Information Science | -- | 01 |
| 11. | Deptt. of Mass Communication & Journalism | 01 | 04 |

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 10. The citation index of a few faculty on campus is given in the following table :-

| Sr. No. | Name of the faculty members | Citation Index |
|---------|--|----------------|
| 1. | Prof. D.G. Hundiwale | 450 |
| 2. | Dr. V.V. Gite | 5 |
| 3. | Prof. P.P. Mahulikar | 425 |
| 4. | Dr. (Smt.) R.S. Bendre | 50 |
| 5. | Dr. K.K. Sharma | 60 |
| 6. | Prof. V.L. Maheshwari | 221 |
| 7. | Dr. P.R. Puranik | 322 |
| 8. | Dr. B. L. Chaudhari | 15 |
| 9. | Prof. B.V. Pawar | 01 |
| 10. | Dr. Satish Kolhe | 10 |
| 11. | Dr. R. J. Ramteke | 01 |
| 12. | Dr. A.G. Ingale | 280 |
| 13. | Dr. D.H. More | 28 |
| 14. | Dr. K.J. Patil | 800 |
| 15. | Dr. A.M. Mahajan | 58 |
| 16. | Dr. D.S. Patil | 07 |
| 17. | Dr. D.K. Gautam | 150 |
| 18. | Prof. P.P. Patil | 165 |
| 19. | Av. Citation Index of School of Environmental & Earth Sciences | 17.58 |

This is the cumulative citation index based on scopus and Google scholar.

Impact Factor:

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

| Sr. No. | Name of Journal | Impact factor |
|---------|---|---------------|
| 1. | Journal of Applied Polymer Science | 1.240 |
| 2. | Macromolecular Materials and Engineering | 1.916 |
| 3. | Polymer International | 2.056 |
| 4. | Polymer Plastics Technology and Engineering | 0.557 |
| 5. | Surface Coatings Technology | 2.135 |
| 6. | Crop Protection | 1.517 |
| 7. | Material Letters | 2.117 |
| 8. | Synthetic Communications | 0.937 |
| 9. | Organic Preparation and Procedure International | 1.232 |
| 10. | Journal of Material Science | 1.859 |
| 11. | European Polymer Journal | 2.517 |
| 12. | Design Monomer and Polymer | 0.711 |
| 13. | Acta Crystallography | 49.9 |
| 14. | Journal of Scientific and Industrial Research | 0.359 |
| 15. | Indian Journal of Chemistry (B) | 0.437 |
| 16. | Material Sciences & Engineering (A) | 2.090 |
| 17. | Material Sciences & Engineering (B) | 1.560 |
| 18. | Material Science and Technology | 0.759 |
| 19. | Synthetic Metal | 1.871 |
| 20. | Electro Chemica Acta | 3.642 |
| 21. | Journal of Physics D : Applied Physics | -- |
| 22. | Journal of Environment Management | 2.596 |
| 23. | Journal of Chemical Research | 0.444 |
| 24. | Bio-resource Technology | -- |
| 25. | Applied Biochemistry and Biotechnology | 1.879 |
| 26. | Pest Management Science | 2.313 |
| 27. | Physiology and Molecular Biology of Plants | 0.56 |
| 28. | Communication in Statistics-Simulations and Computation | 0.343 |
| 29. | Communication in Statistics-Theory and Methods. | 0.351 |
| 30. | Quality and Reliability Engineering International | 0.459 |
| 31. | Annals of Institute Statistical Mathematics | 0.966 |
| 32. | Statistics and Probability Letters | 0.443 |
| 33. | International Journal of Computer Science Issues (IJCSI) | 0.242 |
| 34. | IEEE Transactions on Systems, Man, and Cybernetics--Part C: Applications and Reviews (IEEE-SMC) | 2.02 |
| 35. | International Journal of Document Analysis and Recognition (Springer) IJDAR | 1.091 |
| 36. | International Journal of Computational Intelligence Systems | 1.471 |
| 37. | International Journal of Computer Application | 0.835 |

- (i) Average Impact Factor of School of Environmental & Earth Sciences is 1.1.

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. K.K. Sharma | President Post-doctoral Fellowship | University of Paris, Sud-11 |
| 2. | Dr. J.V. Sali & Mr. S.S. Ghosh | Best Technical Paper Award | ANSYS India Conference |
| 3. | Prof. R.L. Shinde | Visiting Professor | University of Calgary, Canada |
| 4. | Dr. Sudhir Bhatkar | Great contribution in Journalism' awards, 2010 | -- |
| 5. | S. V. Kapase & M.P.Patil | 2nd Prize in Avishkar-2010 | State Level Avishkar-2010 at Nashik |
| 6. | Mr. Sanjay Patki | Best Guru in Classical Music. | Aryan Foundation award |

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 Chemical Sciences | 01.63 |
| 2. | School of Environmental & Earth Sciences | 07.16 |
| 3. | School of Life Sciences | 37.70 |
| 4. | Department of Comparative Languages & Literature | 00.03 |
| 5. | University Deptt. of Chemical Technology | 04.05 |
| Total Rs. | | 50.57 |

- ❖ Reference, reprographic and Internet services are provided to users at nominal cost by Central Library of the University.

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. The amounts received during the period under review are tabulated below.

| Sr. No. | Name of the School/ Department | Grants received during this year (Rs. in lakhs) | |
|---------|--|---|----------|
| | | UGC-SAP-DRS | DST-FIST |
| 1. | School of Life Sciences | 20.00 (Non-SAP) | 75.00 |
| 2. | School of Chemical Sciences | 60.50 20.00 (Non-SAP) | 65.00 |
| 3. | School of Environmental & Earth Sciences | 37.00 20.00 (Non-SAP) | 45.00 |
| 4. | University Department of Chemical Technology | 74.00 (SAP) 20.00 (Non-SAP) | 83.00 |
| 5. | Department of Computer Science | 51.50 | - |
| 6. | School of Physical Sciences | 40.00 20.0 Non-SAP) | - |

Besides, University Department of Chemical Technology has received grants Rs. 55.50 + 2 Lecturer under Innovation Programme-M. Tech. Nano Science and Technology vide UGC letter No. F.14-27/2009 (Inno. /ASIST), dated 30 September 2009].

18. Community Services:

The university is 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 | 'Uttakarsh' Mentally Retarded School, Jalgaon |
| 2. | University Department of Chemical Technology | Regular contribution to the Blood Donation Camp. |
| 3. | School of Physical Sciences | Mr. S.S. Ghosh & Dr. J.V.Sali planted 43 trees at Amalner with the help of NSS unit of Pratap College, Amalner. |
| 4. | Department of Mass Communication and Journalism | Guest lectures for MPSC, UPSC & other comparative examinations. |
| 5. | School of Environmental & Earth Sciences | Environmental status report of Jalgaon Municipal Corporation/Evaluation of proposal for Nirmal Gram Puraskar. |

| Sr. No. | Name of the School/ Department | Community Services rendered |
|---------|----------------------------------|---|
| 6. | School of Life Sciences | a) Soil analysis facility to the farmers especially for the micronutrient analysis and earned Rs. 14,800/-. |
| | | b) Popular lecture to the School students. |
| | | c) Guidance to the farmers requiring advice regarding improvement in soil fertility. |
| | | d) Consultancy and analytical services to industries. |
| | | e) Quality agro-inputs to farmers on no-loss no-profit basis. |
| 7. | School of Chemical Sciences | Tree plantation and soil testing for farmers. |
| 8. | Department of Computer Science | Seminar on “ Importance of Soft Skills ” by Mr. Anuj Jajoo, Wipro Systems, Pune. |
| 9. | Department of Music | The faculty members have participated in various Musical Programmes organized by N.G.O.’s. |
| 10. | Department of Management Studies | Delivered speeches at various social organizations for promotion of management thoughts and practice. |

19. Teachers and officers newly recruited:

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

| Teachers | | Officers | |
|----------|-----------|--------------------|-----------------|
| Regular | Plan Post | Visiting Professor | University Fund |
| 02 | 15 | 02 | 27 |

20. Teaching-Non-teaching staff ratio :

The Teaching-Non-teaching staff ratio is **1 : 3.97** 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/ Univ. fund | | Regular* | On Consolidate salary |
| 122 | 94 | 28 | 484 | 440 | 44 |

* 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 : 0.8**

21. Improvements in the library services:

A) Central Library:

The Central 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. Availability of books in the library is shown in the following table :-

| Text Books | | Journals | |
|------------|---|----------|-------------------------------------|
| Existing | New Additions (with cost Rs. in lakhs) | Existing | Subscription cost (Rs. In lakhs) |
| 48890 | 6328 | 142 | 189239.00 |

In addition to this, following books/e-journals are available :

| | | | |
|---|---|---|-------|
| ❖ | Reference | : | 2657 |
| ❖ | Theses | : | 1730 |
| ❖ | Books at Pratap Center, Amalner | : | 4019 |
| ❖ | Bound Volumes | : | 5595 |
| ❖ | Journals | : | 152 |
| ❖ | e-Journals (UGC INFONET) | : | 5000 |
| ❖ | American Society of Mechanical Engineers (ASME) | : | 25 |
| ❖ | American Society of Civil Engineers (ASCE) | : | 33 |
| ❖ | Institute of Electrical and Electronics Engineers (IEEE/IEL) X plore Digital Library. | : | 289 |
| ❖ | Web of Science | : | 12000 |
| | (i) Online Public Access System (OPAC) services provided to academic community, with number of Nodes. | | |
| | (ii) The sections of the Library are connected with Local Network of SOUL software. | | |
| | (iii) Started Audio-visual section. | | |
| | (iv) Started Book Bank Scheme for students. | | |
| | (v) P-content services initiated. | | |
| | (vi) New Arrivals displayed. | | |

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 | 350 |
| 2. | School of Life Sciences | 400 |
| 3. | School of Mathematical Sciences | 450 |
| 4. | School of Physical Sciences | 482 |
| 5. | School of Environmental & Earth Sciences | 532 |
| 6. | School of Chemical Technology | 2400 |
| 7. | Department of Computer Science | 175 |
| 8. | School of Management Studies | 967 |
| 9. | School of Languages & Research Studies | 725 |
| 10. | School of Education | 198 |

22. New books/journals subscribed and their value:

Central Library:

| Sr. No. | Particulars | No. of books | Amount (Rs.) |
|---------|-----------------|--------------|--------------|
| 1. | Books purchased | 6328 | 3984924.00 |
| 2. | Books donated | 553 | - |
| 3. | Journals | 142 | 161987.00 |

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

In principle, the university authorities and teaching faculty both have agreed to introduce a system in which students' assessment of teachers is done. The departments which have introduced this system are given below:

- (i) Time to time feedback and suggestions received from students/teachers were taken into account while assigning teaching workload for the next semesters and also for organizing different activities in the School of Mathematical Sciences.
- (ii) Feedback on Teachers assessment by M.Sc. II students of School of Life Sciences were collected in April, 2011. The suggestions, lacunae, shortcomings etc. expressed by students were discussed in Staff Meeting held in the beginning of academic year.
- (iii) According to student's feedback, the topic on paints (Polymer Chemistry) and practical on synthesis components (Industrial Chemistry) have been added in revised syllabus.
- (iv) The Department of Computer Science has conducted student's assessment of teachers in the year 2010-11.
- (v) The M.A.B. II year students of Department of Management Studies filled in the feedback forms for assessment of teaching and course structure.

24. Feedback from stakeholders :

- (i) Feedback is sought in the Department of Computer Science through the suggestion box and constant interaction among students & faculty.
- (ii) The Department of Management Studies organized a parents-teachers meet on 8th March, 2010.
- (iii) Feedback about course/ curriculum of B. Tech and M. Tech. was collected from renowned industrial persons and academicians. Their views and suggestions were suitably incorporated. Their assessment regarding strengths and weaknesses of our B. Tech and M. Tech. students was understood. Training programmes and counselling of students was conducted on the basis of these feedback.

25. Unit cost of education :

| Particulars | Amount (Rs.) |
|---------------------------------------|-----------------|
| Departmental Expenses | 24697310.00 |
| Salary to Teaching & Supporting Staff | 73669454.00 |
| Sub-total | 98366764.00 |
| No of students admitted | 2607 |
| Cost per Student | 37731.78 |

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

- i) The Departments are using ICT as a tool to bring in efficiency, transparency and credibility by undertaking massive computerization in day to day administrative functions like University's PG Admission Process through transparent Computerized System, Processing of Examination Results etc.
- ii) Admission process for all courses was carried out by the Departments and results of Departmental examinations were declared within 5-10 days after examinations.
- iii) Admission process was partially computerized and Time-Tables were displayed on internet for students.
- iv) E-savidha started for BBM-I year in July 2010-11 for admissions process and for examination process from October, 2010 for Ist semester examination and in May, 2011 for 2nd semester examination.
- v) The Department of Computer Science have developed application softwares like centralized admission system for the various university post graduate (PG) courses running on/off the campus, also various administrative departments like BCUD, affiliation Section etc. Also department students have developed University's Official Website.
- vi) The University's Official Website is developed and maintained by the Department of Computer Science.

27. Increase in the infrastructural facilities:**A: Equipments/Facilities (costing more than Rs. 1.0 lac) :**

| Sr. No. | Name of the Equipment | Make/Model/Supplier |
|---------|---|---------------------|
| 1. | Development of research laboratories | -- |
| 2. | Bioinformatics laboratory | -- |
| 3. | Animal Tissue Culture Facility | -- |
| 4. | Microbial culture collection centre | -- |
| 5. | HPLC | LC-2010 Shimadzu |
| 6. | Ion Chromatograph | ICS1100 Dionex |
| 7. | Fuming hoods installed in the laboratories of School of Chemical Sciences | -- |
| 8. | Established Internet Laboratory in School of Chemical Sciences. | -- |
| 9. | Established Language Laboratory and Computer and Internet Lab. | -- |

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. | Interior work at Dept. of Computer Sciences Building |
| 2. | Construction of Science Park in NMU Campus |
| 3. | Interior works of Interview Hall in Dept. of Chemical Technology Building |
| 4. | Construction of Indoor Hall in Sports Complex |

C] Electrical works completed during the year :

| Sr. No. | Name of the Work |
|---------|---|
| 1. | Electrical work of Dept. of Social Sciences (Phase-II) Building |

28. Technology up-gradation:

Technology upgradation with particular reference to Computer hardware and software is a continuous process. Some of the noticeable technological inputs/upgradation are given below :-

- i) Increased use of Internet and LCD projectors by students and teachers.
- ii) Development of multi-residue method for pesticide residue.
- iii) The Vermi-composting of solid waste with sewage sludge.
- iv) Online classes are held every week for the Certificate course in Basic Japanese.
- v) The Department of Computer Science has up-graded some of the computing facilities in the laboratories by adding 150 state-of-art workstations Z200 and required softwares.
- vi) New version SOUL 2.0 software installed for library automation.
- vii) Computerization of book issuing and receiving is introduced at Automation Section of Central Library.
- viii) Bar-coding on books.

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

- i) Internet facility for all teachers on their PCs and for students in the classrooms and laboratories is available in all the departments through campus wide network.
- ii) Internet facility as well as National/International journals are accessible through "INFLIBNET" facility for all the students, teachers of the University.
- iii) The department of Comparative languages has language lab well equipped with the kits from Linguaphone Company, Mumbai. There are 20 kits in the lab and the students of Marathi, Hindi and English avail maximum use of lab to improve their English.
- iv) For smooth working of library, the library staff is trained to work on SOUL software.
- v) OPAC terminal available to students, research scholars, teaching and non-teaching staff in the University Library.
- vi) The Internet facility through V-SAT is made available to all the Non-teaching staff of the Administrative Sections.
- vii) The RGS&TC, NMU has organized training on Physics Kit on April 20, 2011.

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 | 1241 | 21656469.00 |
| 2. | State Chief Minister Fund | 31 | 98250.00 |
| 3. | "Eklavya Scheme" for educational loan | 41 | 1855549.00 |
| 4. | Interest paid on Eklavya loan | -- | 507885.00 |
| 5. | Student Group Insurance Claim | 03 | 170000.00 |
| 6. | Poor Boys fund/VC discretionary fund | 1324 | 1747500.00 |
| 7. | Dr. Babasaheb Ambedkar Hostel Financial Asstt. | 265 | 349390.00 |
| 8. | "Gold Medal Scheme" for motivating advanced learners and meritorious students | 75 | 475488.00 |
| 9. | JRF/SRF (CSIR & UGC)/Project Assistantships available through projects. | 01 | 215200.00 |
| 10. | RFSMS Rese. Fellowship for Meritorious Students | 19 | 2542129.00 |
| 11. | Single Girl Child Fellowship | 08 | 320000.00 |
| 12. | INSPIRE Fellowship from DST | 01 | 289200.00 |
| 13. | Maharashtra Foundation Scholarship, New York | 04 | 11600.00 |
| 14. | Rajiv Gandhi National Fellowship | 02 | 1200000.00 |
| Total Rs. | | 3015 | 31438660.00 |

- (i) Rs. 20000/- from UGC grants received for SAP departments has been distributed to the M.Sc. –II students conducting dissertation work at School of Life Sciences.
- (ii) Few students from School of Life Sciences were supported financially jointly by the faculty members, research scholars, non-teaching staff and ‘Symbiosis’ Students organization. Besides the merit and BC scholarship/freeships are also provided by the university administration.

31. Activities & support from the Alumni Association:

Alumni meetings are held almost annually and various activities have been executed like communication with the alumni so as to create a path for the student employment because many alumni are located and employed at various companies. Alumni have donated books to departmental library. Database of alumni was updated continuously as and when required by one of the staff member. 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 |
|--|---------------------|---------------------|
| School of Life Sciences | 01.12.2010 | 50 |
| School of Environmental & Earth Sciences | 25.09.2010 | -- |
| Department of Management Studies | 10.04.2011 | 30 |
| Department of Comparative Languages and Literature | 07.01.2011 | -- |

- (i) Dr. Vivek Katdare, Director, I.M.R., Jalgaon has delivered a lecture on positive attitude in the School of Life Sciences at the alumni meets.
- (ii) It was discussed to develop a website of Alumni Association for Alumni in the Department of Management Studies.
- (iii) The alumni [UPSA (UDCT Past Students Association)] supports Department in facilitation of campus placement of students.

32. Activities and support from the parent teacher association:

- (i) Every year all School/Departments arranges a meeting with parents of the students to discuss the problems of students, if any and progress of the students.
- (ii) The Directors/Heads of Schools/Departments are in touch with parents informally and the schools/departments receive verbal feedback from parents.

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. A lady doctor is also appointed on contract basis.

- ❖ The Medical Centre has purchased Siemens Sonography Machine in the year.
The activities of the centre include:
 - i) Total 6086 patients have been treated during the period under report.
 - ii) Rs. 1,24,261/- have been collected as treatment charges from the patients.
 - iii) Total medicines of Rs. 1,69,556/- were purchased during the period.
 - iv) The Health Center has registered Sonography Center.
 - v) The Honorary Sonologist has been appointed in the Health Center of the University.
 - vi) The staff of the Health Center has assisted to Blood Donation Camp organized by Blood Donation Union, Jalgaon.
 - vii) Undertaken Medical Checkup of Boys and Girls Hostel students.
 - viii) Organized computerized Eye check-up Camp for all students of University Schools/Departments.
 - ix) A quick health checkup camp for BMI/BMR/Body Fat percentage was organized by the Health Center of the University for NMU employees.
 - x) The RGS&TC of NMU Center has organized Health Series on Breast Cancer and program on Health Lung Cancer on April 6, 2011 and May 11, 2011, respectively.

34. Performance in sports activities:

No. of teams and students participated in Inter-University Tournament during the year 2010-11 are tabulated below:

| Name of Event | Tournament organized by | Position of the team/Player |
|-------------------------------|-----------------------------|---|
| Malkhambh (Men) | Punjabi University, Patiala | North Maharashtra University, Jalgaon won Silver Medal at All India Level |
| Best Physique (Men) Inividual | Kannur University, Kannur | Sachin Yuvaraj Patil won the Silver Medal at All India Level |

35. Incentives to outstanding sports person:

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

- i) Total 394 students have been given 15 marks incentives for outstanding performance in sport as per University Ordinance 0.163.
- ii) The sports persons are given all the possible facilities like - Track Suits, Kits etc.
- iii) 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.
- iv) The participants are provided TA/DA for their participation in special coaching camps and tournaments.
- v) There is a provision of offering medical and financial support to the sports persons injured during the tournament.
- vi) 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' achievements and awards:

The following is the data regarding on campus students' achievement and awards:

| Sr. No. | Name of the Schools/Departments | Name of the students | Achievement/Award |
|---------|--|---|---|
| 1. | School of Life Sciences | Ms. Khushboo Bharadia | Single Girl Child Fellowship by UGC, New Delhi. |
| | | Four students from School of Life Sciences | Won first & second prize in 'AVISKAR'2010-11. |
| | | Ms. Pankuri Kawadiwale | Rank Holder Fellowship of UGC, New Delhi. |
| | | Ms. Shradha Ujjainwal | -do- |
| 2. | School of Languages and Research Studies | Mr. Thakre G. P. Mr. Pawar S. R. | First & Second Prize in Gandhi Thought Examination |
| | | Pawar Sandeep Ramesh Pawar Vinod Nana Patil Sharad Zawaru Patil Sandeep C. Ahire Kiran Arun Raut Kalpana Pandit | Uttkarsh 2010-11 by Solapur University, Solapur Street Play |
| 3. | School of Languages and Research Studies | Pawar Sandeep Ramesh Pawar Vinod Nana | University Level Disaster Management Camp |
| | | Gavit Vilas Jayant Pawara Gulab J. Thakre Darasing B. Tadvi Ishwar Goma Thakre Gazmal Pandit Vasave Bijya Bhanga | Adiwasi Student Confidence and Inspiration Development Workshop |

| Sr. No. | Name of the Schools/Departments | Name of the students | Achievement/Award |
|---------|--|--|---|
| 4. | Department of Management Studies | Ms. Aarti Paradkar Mr. Jitendra Jamadar | Ist prize in Inter University Avishkar-2010. |
| | | Mr. Vivek Yawalkar | II nd prize (Dance) in Utkarsha-2010 |
| | | Mr. Shriram Shinde | II nd prize (Debate) in Utkarsha-2010 |
| | | Ms. Aarti Paradkar | II nd prize in Bizintell-2010 |
| | | Ms. Pallavi Vaswani Ms. Chinky Talreja Mr. Nilesh Chirmade | II nd prize in B-Storm-2011 organized by SSBT College of Engg., Bambhori. |
| | | Mr. Shriram Shinde | IInd prize in Anti Dowry Movement competition, Mumbai. |
| | | Mr. Harish Panikar Mr. Narendra Chavan Mr. Paresh Patil Mr. Narendra Chavan | Ist & IInd Prize (TT Single) (Double) (Rifle Shoorting) Techno Wings Competition, Open House, UDCT, Jalgaon |
| | | Mr. Sagar Pardeshi | II nd Prize in Yuvarang-2010 |
| 5. | School of Mathematical Sciences | Ms. Ruhi S. Kulkarni | Passed SET Examination. |
| | | Two groups of five students of M.Sc. (Stat) | First & Second prize for presentation of their projects in National Workshop. |
| | | Three students of School of Mathematical Sci. | Prizes in quiz and poster presentations at Z.B. Patil College, Dhule. |
| 6. | School of Physical Sciences | Mr. P.K. Baviskar | DAAD Fellowship from Germany |
| | | Ms. P.R. Nikam | Women Scientist Scheme Award Fellowship. |
| 7. | School of Environmental & Earth Sciences | Mr. Dhananjay Sarode | Finland Government Scholarship. |
| | | Mr. P.G. Shijan | Gold Medal in Environmental Sciences. |
| | | Ms. Pallavi Ruikar Ms. Sonal Kamble Mr. Rushikesh Golekar | Passed UPSC GIS Exam. |
| 8. | School of Chemical Sciences | Mr. R.S. Jadhav | First prize in paper presentation at International Conference at Mauritius, July 26-30, 2010. National level Avishkar-2010 held at Maharaja Sayajirao University, Baroda |
| | | Mr. A.B. Chaudhari | Second Prize in RAPT, January, 2011. |
| | | Mr. S.M. Bharambe | First Prize for paper presentation at Interational Conference at Thailand, January 21-23, 2010. |

| Sr. No. | Name of the Schools/Departments | Name of the students | Achievement/Award |
|---------|---|--|---|
| 9. | Department of Mass Communication & Journalism | Mr. Vijay Koli | Gold Medal in the subject of M.A. Mass Comm. & Journalism |
| | | Mr. Najnin Shekh Ms. Gauri Joshi Mr. Mukesh Pawar Mr. Vijay Palve | National level Short Film & Documentary Competition, A'nagar. |
| | | Ku. Sneha Ghodke Ku. Archana Sarkate | Participated in Purushottam Karandak, Regional level Drama Competition, Jalgaon. |
| | | Ku. Sneha Ghodke | Best acting award in Purushottam Karandak, Regional level Drama Competition, Jalgaon. (2011) |
| 10. | Department of Education | Mr. Ravindra Sonawane | Ist Prize in All India Essay Writing Even 2010 organized by Shri Ramchandra Mission and United Nations Information Center for India & Bhutan. |
| | | Ms. Swati Joshi Ms. Kamini Pawar | Ist prize in Aviskar 2010 in P.G. Student Category. |
| 11. | University Department of Chemical Tech. | 04 students | Secured State Scholarships BY Nowrosjee Wadia College, Pune |
| | | 12 students | Bagged the special prizes Nowrosjee Wadia College, Pune. |
| | | 21 students | Received Certificates Nowrosjee Wadia College, Pune |
| | | Mr. Abhijeet Anand | First Prize at Avishkar-2011 under PPG-category – Engineering & Technology |
| | | Mr. Rohit Jha Mr. Hanraj Patil | First Prize at Avishkar-2011 under PG-category – Engineering & Technology |
| | | Mr. Rohit Jha | Second Prize at Avishkar-2011 under PG-category – Engineering & Technology |

The students' achievements and awards of Department of Computer Sciences:

| Sr. No. | Date | Event | Level | Theme | Winners |
|---------|-----------|--|----------------|---|--|
| 1 | 20-Sep-10 | Technovative 2010 at Sant Gadgebaba College, Bhusawal | National Level | 'C' Programming Contest | Manoj Jasraj Chandak |
| 2 | 20-Sep-10 | Technovative 2010 at Sant Gadgebaba College, Bhusawal | National Level | Software Exhibition Retail make your business easy | Manoj Jasraj Chandak |
| 3 | 30-Sep-10 | Pinacle 2010 at Raisoni College, Jalgaon | State Level | IT Quiz Contest | Harshal Katariya Vishwajeet Kumar Singh |
| 4 | 30-Sep-10 | Pinacle 2010 at Raisoni College, Jalgaon | State Level | IT Quiz Contest | Manoj Jasraj Chandak Rupeshkumar Prakashchandra Telang |
| 5 | 30-Sep-10 | Pinacle 2010 at Raisoni College, Jalgaon | State Level | 'C' Programming Contest | Manoj Jasraj Chandak |
| 6 | 30-Sep-10 | Pinacle 2010 at Raisoni College, Jalgaon | State Level | Best Participation Team | Harshal Katariya Vishwajeet Kumar Singh Manoj Jasraj Chandak Rupeshkumar Prakashchandra Telang |
| 7 | 10-Oct-10 | Eitvm 2010 at Vidya Pratishthan Institue of Technology, Baramati | National Level | Paper Presentation Objective Evaluation of Different Segmentation Techniques | Shubhankar Hazarika Vishwajeet Kumar Singh |
| 8 | 29-Oct-10 | PINNACLE G.H.Raisoni, Jalgaon | State Level | Quiz Contest | MCA-III First Prize MCA-III Second Prize Pradnya W. Kulkarni (III Prize) Tejaswini B. Patil (III Prize) |

| Sr. No. | Date | Event | Level | Theme | Winners |
|---------|-----------|---|---------------------|--|---|
| 9 | 29-Oct-10 | PINNACLE G.H.Raisoni, Jalgaon | State Level | Programming Contest | MCA-III First Prize MCA-III Second Prize MCA-III Third Prize |
| 10 | 30-Oct-10 | PINNACLE G.H.Raisoni, Jalgaon | State Level | Paper Presentation Contest | MCA-I Third Prize Tejas Deshmukh |
| 11 | 2010 | SPARK, K.C.E.Society's Engineering College, Jalgaon | State Level | Programming Contest | Vishal Zambre (MCA-I) Chetan Pardesi (MCA-I) |
| 12 | 2010 | IT Festa | State Level | IMR, Jalgaon | Milind N. Phirke (MCA-II) Third Prize |
| 13 | 2010 | Aviskar-2010 | University Level | Research Presentation | Manoj Chandak (MCA-III) Mukesh B. Suryawanshi (MCA-II) |
| 14 | 24-Dec-10 | Avishkar 2010 at North Maharashtra University, Jalgaon | University Level | Software Exhibition Retail make your business easy | Manoj Jasraj Chandak Rupeshkumar Prakashchandra Telang Chetan Narendra Kulkarni |

37. Activities of the Guidance and Counseling unit:

- i) The Schools/Departments of University have organized NET/SET coaching to students in summer and winter vacations under the University's NET/SET coaching program.
- ii) The guidance for competitive examinations like UPSC & MPSC provided as per requirements.
- iii) Lecture series on Career Counseling for Students is organized every year.
- iv) Organized 'Learning to Learn' Workshop for study skills.
- v) The Department of Adult and Continuing Extension Education has conducted 40 personality factors and anxiety measurement test each for Class-I officers of the University.

- vi) The Department of Adult and Continuing Extension Education has conducted 24 Standard Progressive Matrics, 30 Differential Aptitude Test and 05 Interest Inventory Test for 10th and 12th Std. students.
- vii) The Department of Adult and Continuing Extension Education has conducted group guidance and counseling of Old Age people at Matoshri Vruddhashtram, Saokheda, Tal. & Dist. Jalgaon.
- viii) The Department of Adult and Continuing Extension Education testing and group guidance sessions for Abhinav School, Jalgaon on Study skills, Goal setting and Time Management.
- ix) The Department of Computer Science has carried out job counseling, NET/SET coaching and Softskill Development Programme.
- x) The University Department of Chemical Technology has organized a workshop on Interview Technique: Special Placement Interview Practice Session cum Competition for Final B. Tech. (Chem. Engg./Oil Tech/Food Tech/Plastics Tech./Paints Tech) students. The University Department of Chemical Technology has organized GATE (Graduate Aptitude Test in Engg.) preparatory class for a national entrance test for Post Graduate admissions in Engineering and Technology.
- xi) Students were guided by the faculty members for preparing their CV, interviews for placement, by the Department of Management Studies.
- xii) The RGS&TC of NMU, Jalgaon has organized Career Guidance in Physical Sciences and Chemical Sciences on May 3, 2011 and April 29, 2011, respectively.
- xiii) The RGS&TC of NMU, Jalgaon has organized ISRO Technology Touching Lives programme on March 5, 2011.

38. Placement services provided to students:

| Sr. No. | Name of the School/Department | Name of the Industry/ Company invited | No. of students interviewed | No. of students selected |
|---------|---|---|-----------------------------|--------------------------|
| 1. | Department of Mass Communication & Journalism | AIR, Jalgaon, Sub Editor, Daily Deshdoot E- edition, Jalgaon, Sub Editor, Daily Saimat, Sub Editor, Daily Sakal, Jalgaon, Sub Editor, Daily Deshdoot, Jalgaon, Reporter, Daily Sakal, Jalgaon, Reporter, Daily Sakal, Jalgaon, Reporter, Daily Gavonkari, Jalgaon, Sub Editor, Daily Sakal, Chalisgaon, Reporter, Daily Lokmat Samachar, Jalgaon, Correspondent IBN Lokmat News channel, Chalisgaon, Reporter, Daily Sakal, Jalgaon, Reporter, Daily Punynagari, Jalgaon, Reporter, Daily Tarun Bharat, Jalgaon, Reporter, Daily Navabhart, Jalgaon, Sr.Sub Editor, Daily Divya Marathi, Jalgaon, Reporter, Daily Punynagari, Bhusawal, Reporter, Daily Gavkari, Jalgaon. | 22 | 22 |
| 2. | School of Chemical Technology | Asian Paints Ltd., Navi Mumbai, Savita Chemicals Ltd., Navi Mumbai, Apcotex Industries Ltd, Mumbai, Indian Rubber Manufacturers Research Association, Mumbai, Chemtrols Industries Ltd., Mumbai, Shalimar Paints Ltd,Nasik, Kansai Nerolac Paints Ltd., Mumbai, Calchem Industries India Ltd,Roha, Pidilite Industries Ltd., Mumbai, Grand Polycoat Company Ltd., Vadodara, Kansai Nerolac, Mumbai, Tata Auto-Comp System, VVF Ltd, Mumbai, Nippon Paints, Chennai, Indoamines Ltd. Mumbai, Arti Drugs Ltd. Mumbai, | -- | 32 |

| | | | | |
|----|--|--|----|----|
| | School of Chemical Technology | Wipro Ltd., Amalner, Nicomat Ltd. Goa, Gadre Marine Exports, Ratnagiri, Lupine Pharma Ltd.Mumbai, Siddhartha Carbochem Pvt. Ltd., Jalgaon, Pidilite Industries, Mahad Plant, Suzlon Energy, Essed Paints, Force Motors, NALCO, Pune, BASF Chemical, Mumbai, The Ravalgaon Sugar Farm Ltd, Alkyl Amines, Pune and Indo-German Petrochemical, Mumbai | | |
| 3. | School of Management Studies | Nilons Pvt. Ltd., Jalgaon, Adsys India, Bangalore, Sanghavi Polymer, Jalgaon, Deshwire, Nashik, Future Generali, Mumbai, Bajaj Alianz, Jalgaon, Shoppers Stop, Nashik, Accurent Wealth Advisory, Nashik, Bank of Neyork, Melon, Kurlon, Mumbai, Satwik Group, Nagpur, UPS Logistics, Mansoft, Pune, Automotive Manufacturer, Nashik, Career Placement Services, Jalgaon, Satwik Group, Nagpur and Lalliput Retail Chain. | 36 | 36 |
| 4. | School of Environmental & Earth Sciences | Johnson and Johnson, Mumbai, IBM, Mumbai and MITCON, Pune | -- | 20 |
| 5. | School of Computer Sciences | Fortune4, Mumbai, Cybertech Infosolutions (I) Pvt. Ltd., Mumbai, Avibha, Pune, MSPL, Mumbai, Cellica, Jalgaon | 28 | 28 |

39. Development programmes for non-teaching staff:

The University has organized following Trainings/Lectures/Programmes for non-teaching staff for their benefit:

| Sr. No. | Name of the Trainings/ Lectures/Programmes | Name of Institute | Date | Place |
|---------|--|----------------------------------|----------------|-------|
| 1. | Professional Development Programme for Class-III | UGC Academic Staff College, Pune | 25-30.10.2010 | Pune |
| 2. | Professional Development Programme for Class-III | UGC Academic Staff College, Pune | 09-14. 12.2010 | Pune |

40. Good practices of the institution:

Following are the good & healthy practices adopted by the university in its academic & administrative departments:

- i) Transparency in the university administration particularly with respect to appointments, placement of teachers etc.
- ii) Time bound redressal of grievances of employees.
- iii) In order to enhance harmony and to have better superior-subordinate relationship, the university organizes annual cultural programmes, sports meets, wherein, the employees get an opportunity to mixup with the other employees. This leads to cohesiveness among the employees.
- iv) All the schools/departments on the campus celebrate National Science Day based on a particular relevant theme. This helps in developing scientific tempore amongst the students.
- v) All the students of the university schools/departments are covered under insurance scheme.
- vi) The students on the campus are also benefited by various schemes like 'Earn & Learn', 'Counselling Cell'.
- vii) In addition to the central library, every department/school is having its own library. The students can get text/reference books through the departmental library. Similarly, the internet access is also made available to students, through which they are exposed to vast study materials.
- viii) Seminars, Conferences are organized by the departments. This provides platform the students to present their research works. In order to sharpen the skills of the students, they are exposed to industrial training & workshops. Every year a research festival 'Avishkar' is organized by the university.
- ix) It is a practice on the campus to celebrate birth anniversaries and commemorating of Scientist and National Leaders. Accordingly, renowned personalities are invited as guest speakers.
- x) In order to have the all round development of the students, schools and departments usually organize cultural programmes, debate competitions, sports events etc.
- xi) Many students on the campus usually opt for a vernacular language as their medium of instruction upto 12th standard or upto graduation. Therefore, they are weak in English, 'Language Lab' is such a facility provided to the students through which the students can develop their English Reading/Writing/Listening/Speaking Skills. This facility is provided centrally on the campus.
- xii) Online learning facility is also provided to the students who wish to learn Japanese language.

- xiii) Following Financial aids are provided to the teaching & non-teaching staff of the University.

| Sr. No. | Nature of Aid/Support | No. of beneficiary | Amount (Rs. in lakhs) |
|---------|-----------------------|--------------------|-----------------------|
| 1. | Medical Advance | 03 | 450000.00 |
| 2. | Computer Loan | 45 | 1722450.00 |
| 3. | Vehicle Loan | 26 | 2183753.00 |
| 4. | Festival Advance | 254 | 762000.00 |

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 mutually beneficial. 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. | Department of Comparative Languages and Literatures | Maharashtra Sahitya and Sanskriti Mandal. | Academic & Training |
| | | Educational Resource Centre (New Delhi) and Aims Insight (Mangalore) | |
| | | TISS, Mumbai | |
| | | MES College, Goa | |
| | | Mata Gujri College, Jabalpur | |
| 2. | Department of Chemical Technology | National University, Pusan, South Korea. | Academic & Training |
| 3. | School of Physical Sciences | University of Pune | Academic, Research & Extension |
| | | C-MET, Pune | |
| | | IIT, Mumbai | |
| | | IUC, Indore | |
| | | National Physical Laboratory, New Delhi | |
| | | J.H. Kim, Department of Materials Science & Engineering, Chonnam National University, Gwangju, South Korea | |
| 4. | Department of Computer Science | CSI, IETE, LSI, University of New Brunswick, Fredericton, New Brunswick, Canada | Academic, Research & Extension |
| 5. | School of Mathematical Sciences | The documentation of MOU between North Maharashtra University, Jalgaon & University of Calgary, Canada | Academic, Research & Extension |

| Sr. No. | Name of the School/Department | Linkage established with | Nature of linkages established |
|---------|---|--|--------------------------------|
| 6. | School of Life Sciences | Agharkar Research Institute, Pune | Academic, Research & Extension |
| | | National Bureau of Interdisciplinary Sciences & Tech. (CSIR), Trivandrum. | |
| | | National Bureau of Agriculturally Imp. Microorganisms (ICAR), Mau Bhanjan, UP. | |
| | | Osmania University, Hyderabad | |
| | | Amity University, Noida, UP | |
| | | University of Alabama in Huntsville (USA) | |
| | | National Center for Cell Sciences, Pune | |
| | | Jain Irrigation Systems Ltd., R&D Biotech Division | |
| | | Biosynthetics Pvt. Ltd., Jalgaon | |
| 7. | School of Environmental & Earth Sciences | IIGM, Mumbai | Academic, Research & Extension |
| | | G.S.D.A. (Govt. of Maharashtra) | |
| 8. | Department of Library & Information Science & Central Library | UGC INFONET & INFLIBNET Center, Ahmedabad | Academic |

42. Action Taken Report on the AQAR of the previous year:

- i) Biometric system for attendance was operationalised in administrative departments.
- ii) Faculty members were made aware of the importance of API scheme and they had submitted research proposals to the various funding agencies.
- iii) The ISO 9001 audit of university administrative department was completed.
- iv) ISO 9001 audit process for Academic departments was not initiated.
- v) Preparation for NBA accreditation is under progress at the University Department of Chemical Technology (UDCT).
- vi) Separate gymnasium, reading room, and computer center facility is being provided for the girls' hostel.
- vii) e-facilities are being provided to the schools/departments.
- viii) Following new P.G. courses were introduced in the Department of Social Sciences-
 - History
 - Political Science
 - Sociology
 - Defence & Strategic Studies
 - Economics

- ix) Following new P.G. course was introduced in the Department of Adult and Continuing Educaion-
 - Social Work
- x) Building extension of the Department of Comparative Languages and Literature, School of Mathematical Sciences, and Department of Management Studies has been sanctioned.
- xi) Individual departments were instructed to publish their research work.
- xii) FESEM has been received by the university.
- xiii) School children were benefited by the science exhibition, carried out through Mobile Van.
- xiv) Implementation of Wi-Fi internet system on the campus is in process.
- xv) Department wise 'Industry-Department Interaction Cell' is not yet established.
- xvi) The parking sheds were constructed at some teaching departments, and the rest is under construction.

43. Any other relevant information the institution wishes to add:

- i) The School of Chemical Sciences conducts applied courses with 100% placements each year in different industries.
- ii) Mass Media/Public Relation/Advertising related personalities visited the Department of Mass Communication & Journalism.
- iii) The Women Studies Centre was started in the University from 2010.

SECTION- C

Outcomes Achieved by the end of the year:

- a. Made the 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.
- b. Started five year integrated dual courses like - B.Sc. + M.Sc. in Actuarial Science, P.G. Programs in Languages, Education and Performing Arts.
- c. Started four M. Tech. programmes in Polymer, Oleochemicals and Surfactant, Nano-Science and Pharmaceutical Technology.
- d. Established Student Facility Center on the campus.
- e. Started providing examination result through SMS to the students.
- f. Successfully completed the construction of Indoor Stadium with Multi-purpose Hall and Convocation Stage with Hall and commissioned.
- g. Constituted new statutory bodies (Management Council, Academic Council, Senate etc.) by elections as per the Maharashtra Universities Act, 1994.
- h. Procured a Fire Fighting Vehicle for protecting the resources on campus from fire.
- i. Procured Mobile Exhibiton Van under the Science Park initiatives and started utilizing for promotion of science in the region.
- j. Conducted audit for ISO-9001-2008 Certificate for the University administration, Exmination, Finance and BCUD Sections.
- k. Undertaken repairs and retaring of internal roads on campus.
- l. Established Khandesh Archives and Museum for preserving historical monuments of Khandesh Region in the Department of History on the University Campus.
- m. Conducted “Environmental and Watershed Awareness Programmes” in rural parts of the Jalgaon, Dhule and Nandurbar districts by the School of Environmental and Earth Sciences.
- n. Initiated process of purchasing a state of the art LC-MS-MS equipment for the School of Life Sciences under the DST-FIRST scheme and procured some equipment.
- o. Inaugurated Women’s Studies Centre at North Maharashtra University, Jalgaon for the empowerment of women.

PART – D

Plans of the University for the next year 2011-12:

1. To guide the Directors/Heads of Schools/Departments and Principals of affiliated college for the preparation of UGC XII Five Year Plan proposals.
2. To prepare the UGC XII Five Year Plan proposals of University/Schools/Departments to satisfy the future development needs of University.
3. Boys' and Girls' hostel- Due to the increased demand for the hostel facility, the university plans to construct the additional hostels for girls and boys.
4. Satellite Centers- The University has three satellite centers. It is proposed to strengthen these centers through conducting various activities at these centers.
5. The faculty of Mental & Moral Science- In order to make the faculty more comprehensive, it is proposed to strengthen this faculty by adding new courses in performing arts and fine arts.
6. Central Library- Increased budgetary provision is proposed for the central library.
7. Developing the research culture and aptitude amongst the students- The university intends to inculcate research culture and aptitude amongst the students through offering scholarships to them. Some budgetary allocation is proposed for this purpose.
8. Foreign Students' Cell- The University intends to attract foreign students on the campus; for which the university intends to establish a 'Foreign Students' Cell'. This cell will strive to simplify the admission process and offer required help to the foreign students. In order to create conducive environment for the students, the university has proposed to construct a separate hostel for foreign students.
9. Competitive Examination Coaching Centre- The university intends to start the competitive examination coaching center for which it intends to approach various state and national level funding agencies.
10. Construction of Multi-purpose hall and a building for non-teaching staff- The University wish to construct multi-purpose hall for its non-teaching faculty wherein different programmes can be organized for the non-teaching staff. Similarly, it is also proposed to construct a separate building for the non-teaching staff, wherein office and boarding facilities will be provided to the non-teaching staff.
11. Distance Education Programmes- In the wake of globalization, geographical barriers tends to disappear. The university intends to establish 20 such centres, imparting distance education programmes. The students, who are deprived of the main stream education, can learn through such programmes.
12. Human Rights Studies- The citizens should be aware of their rights and responsibilities. In order to create awareness among the citizens regarding their rights and responsibilities, the university intends to establish Human Rights Department.
13. Parking Facility- Considering the need of parking place in the university premises, it is intended to make available parking place for 200 vehicles.

14. Promoting research culture among the staff of university departments and in affiliated colleges- The university intends to provide seed money which will result in development of research activities on the university campus and in affiliated colleges.
15. Yuvati Sabha- Under this programme the affiliated colleges organize workshop for female students in the college. These programmes help students in developing their personality and empowering them. It is proposed to make available additional funds for this programme.
16. Mass Communication Department- The department intends to start few additional degree/diploma/certificate courses.
17. Talent hunt workshops- In order to know and develop hidden talent among the students, the university intends to organize the workshops. During such workshops the students can present their talent in various performing arts.
18. University-Industry Institution Interaction Cell- In order to provide training to the students, carry out long term projects and support industries for testing & analytical services etc., the university wish to initiate III cell.
19. International & National Collaborations- Efforts will be made to foster National/ International collaborations.
20. Pursue the construction of Convocation auditorium on priority basis.

(Prof. Seema Joshi)
Director, IQAC

(Prof. Sudhir U. Meshram)
Vice-Chancellor & Chairperson, IQAC
