



॥ अंतरी पेटवू ज्ञानज्योत ॥

**NORTH MAHARASHTRA UNIVERSITY, JALGAON
(M.S.) INDIA**



**ANNUAL QUALITY ASSURANCE REPORT
FOR THE YEAR 2015-16**

Submitted to

**NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL, BANGALORE**

॥ अंतरी पेटवू ज्ञानज्योत ॥



NORTH MAHARASHTRA UNIVERSITY, JALGAON

Annual Quality Assurance Report (AQAR) of the IQAC for the period of July 1, 2015 to June 30, 2016

Part – A

1. Details of the Institution

1.1 Name of the Institution

North Maharashtra University

1.2 Address Line 1

Umavi Nagar

Address Line 2

P.B. No. 80

City/Town

JALGAON

State

Maharashtra

Pin Code

425001

Institution e-mail address

mahulikarpp@rediffmail.com

Contact Nos.

(0257)2257221, 2257222

Name of the Head of the Institution:

Prof. Pradip P. Patil

Tel. No. with STD Code:

(0257) 2258201

Mobile:

9423185071

Name of the IQAC Co-ordinator:

Prof. S.T. Ingle

Mobile:

9421566793

IQAC e-mail address:

sopan.ingle@gmail.com

1.3 NAAC Track ID (For ex. MHC0GN 18879)

MHUNGN10022

1.4 NAAC Executive Committee No. & Date:

EC-47/RAR/17 dated 29 January, 2009

1.5 Website address:

www.nmu.ac.in

Web-link of the AQAR:

http://nmu.ac.in/Portals/0/IQAC/AQARReport2014-15.pdf

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	Four Star	-	2001	2009
2	2 nd Cycle	B	2.88	2009	2014
3	3 rd Cycle	A	3.11	2015	2020

1.7 Date of Establishment of IQAC :

09.05.2006

1.8 AQAR for the year

2015-16

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC.

- i. AQAR - 2008-09 : 08/06/2010
- ii. AQAR – 2009-10 : 07/07/2011
- iii. AQAR – 2010-11 : 22/08/2012
- iv. AQAR – 2011-12 : 24/12/2012
- v. AQAR – 2012-13 : 24/12/2013
- vi. AQAR – 2013-14 : 11/02/2014
- vii. AQAR – 2014-15 : 02/02/2016

1.10 Institutional Status

University State Central Deemed Private

Regulatory Agency approved Institution Yes No
(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.12 Name of the Affiliating University (for the Colleges)**1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc**

Autonomy by State/Central Govt. / University	<input type="text" value="State Govt."/>		
University with Potential for Excellence	<input type="text" value="-"/>	UGC-CPE	<input type="text" value="-"/>
DST Star Scheme	<input type="text" value="-"/>	UGC-CE	<input type="text" value="-"/>
UGC-Special Assistance Programme	<input checked="" type="checkbox"/>	DST-FIST	<input checked="" type="checkbox"/>
UGC-Innovative PG programmes	<input checked="" type="checkbox"/>	World Bank-MHRD-TEQIP	<input checked="" type="checkbox"/>
UGC-COP Programmes	<input type="text" value="-"/>		

2. IOAC Composition and Activities**2.1 No. of Teachers****2.2 No. of Administrative/Technical staff****2.3 No. of students****2.4 No. of Management representatives****2.5 No. of Alumni****2.6 No. of any other stakeholder and community representatives****2.7 No. of Employers/ Industrialists****2.8 No. of other External Experts****2.9 Total No. of members**

2.10 No. of IQAC meetings held

02

05/08/2015
12/02/2016**2.11 No. of meetings with various stakeholders:** No.

-

Faculty

02

Non-Teaching Staff

-

Alumni

01

Others

-

2.12 Has IQAC received any funding from UGC during the year? Yes

No



If yes, mention the amount

Rs.4.50 lacs

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/Workshops/Symposia organized by the IQAC.

Total Nos.

01

International

-

National

--

State

01

Institution Level

-

(ii) Themes

Intellectual Property Rights

2.14 Significant Activities and contributions made by IQAC :

The significant contributions made by IQAC to institutionalize quality assurance strategies and processes are highlighted below:

- i. The IQAC has sent format for environmental/green audit to the University Schools/Institute. The IQAC provides services for green audit of the affiliated colleges.
- ii. The IQAC has taken initiative to conduct result analysis for the previous examination. A letter with request to conduct the result analysis was sent to various academic schools.
- iii. The IQAC has directed to conduct energy audit to the Electrical Section of the University for the year 2015-16.
- iv. The IQAC supported CTPC in promoting the campus recruitment programme for placement of final year students in different reputed industries, soft skill development activities and industrial training of pre-final year students.
- v. The IQAC encouraged the Schools/Institute to obtain feedback from students, alumni, parents and industry experts on various academic aspects.

2.15 Plan of Action by IQAC/Outcome:

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

Plan of Action	Achievements
To develop collaborative linkages with overseas Universities/institutes, National Organizations and Industries for teaching and research.	Accordingly, 03 MoUs/ linkages have been signed by University during the assessment year, 2015-16.
Establishment of University Skill Based Vocational Training Center and introduction of 18 SSI oriented skill based training certificate courses of 2 (theory) and 4 (practical) week duration	The University has established the Vocational Training Centre on the campus and satellite center at Nandurbar.
Construction of buildings of SAIFC for providing excellent sophisticated instrumentation facilities under one roof.	The University has laid foundation stone for the construction of SAIFC building on the campus.
There is plan to construct a separate International Students' Hostel on the campus.	A separate wing for international student is reserved in newly Constructed Vidyarthi Bhavban.
To design the courses as per the requirement of local as well as national industries.	Establishment of University Skill Based Vocational Training Center and introduction of 18 SSI oriented skill based training certificate courses of 2 (theory) and 4 (practical) week duration.
To conduct Course Work Workshop and Online Course Work Theory Examination.	The BCUD Section of the University has conducted Course Work Workshop on 16-21 June 2015 and Online Course Work Theory Examination on 14-15 July 2015.
Completion of construction of extension of building of School of Life Sciences and University Institute of Chemical Technology.	Both these construction works are completed.
Upgradation of Class-room, Science Laboratories, Training Centers, and Toilet Blocks etc. under RUSA grants.	e-tendering of the work is completed and the actual work will start soon.
Establishment of online examination centre including dedicated server with 400 computers having power backup facility for University Examinations.	The requirements of Online Examination Center are procured and the Center will start functioning in near future.

2.15 Whether the AQAR was placed in statutory body

	Yes	No
Management <input checked="" type="checkbox"/>	Senate <input type="checkbox"/>	Academic Council <input checked="" type="checkbox"/>
		<input type="checkbox"/>

Provide the details of the action taken .

The contents of AQAR will be placed for approval of Management Council.

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Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes:

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
Ph.D	37	-	-	-
PG	62	-	15	13
UG	11	-	04	05
Diploma	01	-	-	01
Certificate	03	01	-	01
Other (Integrated Master)	01	-	01	01
Total	115	01	20	21
Interdisciplinary	12	-	09	12
Innovative	03	-	-	02

1.2 (i) Flexibility of the Curriculum: CBCS/Elective option

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	74
Trimester	-
Annual	-

1.3 Feedback from stakeholders* Alumni Parents Employers Students

(On all aspects)

Mode of feedback : Online Manual Co-operating schools (for PEI)

*Please provide an analysis of the feedback in the Annexure. **Annexure-I**

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- i) The University has introduced the Choice Based Credit System for the Post-graduate courses conducted on the campus.
- ii) The electives have been introduced along with core courses.
- iii) The contents of NET/SET/GATE syllabi have been incorporated while restructuring the existing curricula.
- iv) The job potential of the particular programme has been included at the end of every course ensuring employability through curriculum designing and development.
- v) Gender component has been extensively incorporated in the curriculum.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

- School of Health Sciences.
- School of Law.

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Criterion – II**2. Teaching, Learning and Evaluation**

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	106	61	27	13	05

2.2 No. of permanent faculty with Ph.D. 73

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
	56*	05	23	04	10	03	04	01	93*	13

* = Contract

2.4 No. of Guest and Visiting faculty and Temporary faculty 08 03 37

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	13	43	09
Presented papers	35	39	04
Resource Persons	05	19	03

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- i. The Amrita Vishwa Vidhyapeetham's A-View login are provided to all the schools/departments to have access to online lectures delivered at national level from different universities / NIT's, IIT's etc. Also some of the faculties of the university contributed their subject knowledge through online lectures of A-View.
- ii. Adopted innovative teaching methods with ICT enabled teaching aids like – LCD projector, LED TV, Smart Board to illustrate the concept effectively and interactively. The tutorial sheets, home assignments and lecture notes are circulated to the students directly.
- iii. Organization of workshops and training courses on specific topics for better understanding of the student.
- iv. Use of simulation models for practical by some of the schools on the campus.
- v. To understand the working culture of the industrial sector and get field exposure, the School/Institute of the University have organized field trips, study excursions and industrial tours of pre-final and final year students to different industries, national institutions and research organizations.

2.7 Total No. of actual teaching days during this academic year 268

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- i) Digital Examination Paper Delivery System (DEPDS).
- ii) Double Evaluation System.
- iii) Online Pre-Ph.D. Entrance Test and Course Work Examination.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

28	106	106
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2.10 Average percentage of attendance of students

80 %

2.11 Course/Programme wise distribution of pass percentage : -

Title of the Programme	Total no. of students appeared	Grade				
		O %	A %	B %	C %	D %
M.Sc. (Microbiology)	26	3.85	19.23	34.62	19.23	-
M.Sc. (Biochemistry)	23	4.35	8.7	39.13	13.40	-
M.Sc. (Biotechnology)	24	14.17	41.67	37.50	04.17	-
M.Sc. Chemistry (Polymer Chemistry)	17	05.88	35.29	35.29	23.52	-
M.Sc. Chemistry (Pesticides and Agrochemicals).	14	-	28.57	50.00	21.42	-
M.Sc. Chemistry (Industrial Chemistry)	15	-	26.66	47.66	26.66	-
M.Sc. Chemistry (Organic Chemistry)	24	16.66	54.16	29.16	-	-
M.Sc. Chemistry (Physical Chemistry)	10	-	50.00	30.00	20.00	-
M.Sc. Chemistry (Analytical Chemistry)	16	18.70	68.70	06.25	06.25	-
M. Sc. Mathematics (Computational Mathematics)	50	06.00	22.00	44.00	12.00	07.00
M.Sc. Statistics (Industrial Statistics)	37	-	08.11	16.22	27.03	13.51
B.Sc. (Actuarial Science)	07	-	57.14	14.28	-	-
M. Sc. Physics (Materials Science)	24	04.17	25.00	58.53	08.30	-
M. Sc. Physics (Energy Studies)	24	-	16.67	54.17	25.00	-
M. Sc. Electronics	26	-	03.85	23.08	34.62	-
M. Tech. (VLSI Technology)	07	-	-	100.0	-	-
M.Sc. (Computer Science)	55	-	12.70	50.90	23.60	-
M.Sc.(Information Technology)	38	-	02.63	23.68	07.89	08.89
M.C.A.	45	-	-	08.89	15.56	-
M. Sc.(Environmental Sciences)	13	-	53.80	30.77	-	-
M. Sc.(Applied Geology)	15	13.33	33.33	40.00	06.67	-
M.A./M. Sc.(Applied Geography)	06	-	100	-	-	-
M.Tech. (Environmental Science and Technology)	08	-	87.50	-	-	-

M.A. (English)	32	-	09.38	31.20	15.63	06.25
M.A. (Hindi)	09	11.11	11.11	66.60	11.11	-
M.A. (Marathi)	12	-	08.33	16.63	25.00	-
M.A. Music (Tabla)	01	100.0	-	-	-	-
M.A. Music (Vocal)	10	30.00	50.00	10.00	10.00	-
M.A. (Defense & Strategic Studies)	16	-	50.00	37.00	37.50	06.25
M.A. (Political Science)	29	06.90	37.90	34.80	03.45	-
M.A. (Economics)	33	06.06	21.20	06.06	06.06	-
M.A. (Sociology)	08	25.00	37.50	12.50	-	-
M.A. (History)	41	04.88	19.50	21.95	07.32	-
M.A. (Dr. Ambedkar Thoughts)	11	-	54.55	-	-	-
M.A. (Psychology)	NA (Newly Started)					
M.B.A. (Master of Business Admin.)	84	13.10	63.10	19.05	04.76	-
B.B.M. (Bachelor of Business Management)	16	-	13.00	63.00	13.00	-
B. Tech. (Chemical Engineering)	88	-	23.80	48.60	06.80	-
B. Tech. (Paint Technology)	23	-	40.00	50.00	10.00	-
B. Tech. (Oil, Fats and Waxes Technology)	19	-	-	78.90	05.26	-
B. Tech. (Plastic Technology)	14	-	07.14	71.40	07.14	-
B. Tech. (Food Technology)	22	-	22.70	59.09	13.64	-
M. Tech. (Chemical Engineering)	18	-	16.67	66.67	16.67	-
M. Tech. (Polymer Technology)	12	-	50.00	41.60	-	-
M. Tech. (Oil, Oleochemicals and Surfactant Technology)	01	-	-	100.0	-	-
M. Tech. (Nano-Science and Technology)	12	-	33.33	66.67	-	-
M. Tech. (Pharmaceutical Chemistry and Technology)	08	-	10.00	20.00	50.00	-
M. Tech. (Food and Fermentation Technology)	10	-	-	40.00	60.00	-
M. Tech. (Paint Technology)	10	-	30.00	50.00	20.00	-

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

- i) The IQAC has ensured that the learning be made students centric by promoting the involvement of students in overall process of teaching-learning and extension.
- ii) Based on the analysis of feedback from stakeholders, necessary modifications in syllabus (i.e. incorporation of emerging trends given by industry persons, increase in softskill contents based on interaction with alumni) have been incorporated.
- iii) To understand the working culture of the industrial sector and get field exposure, the School/Institute of the University have organized field trips, study excursions and industrial tours.
- iv) Implementation of Finishing School concept.
- v) ICT based teaching and learning has been promoted through the use of Smart Classroom.
- vi) IQAC initiated result analysis and feedback analysis at schools in the campus.

vii) Communications Skills, Spoken English Workshops organized through Equal Opportunities Cell.

viii) The Central Training and Placement Cell (CTPC) takes extensive efforts towards placement for Industrial Training of the students from various Schools/Institute.

2.13 Initiatives undertaken towards faculty development :

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	09
UGC – Faculty Improvement Programme/QIP	01
HRD programmes	-
Orientation programmes	01
Faculty exchange programme	-
Staff training conducted by the university	04
Staff training conducted by other institutions	09
Summer / Winter schools, Workshops, etc.	10
Others – PDF	04

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	299	10	--	--
Technical Staff	135	--	--	--

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Criterion – III

3. Research, Consultancy and Extension:

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- In majority of PG programmes, a course in either semester III and/or IV has been devoted to project work to inculcate independent thinking, scientific attitude and analytical abilities among the students. For B. Tech., M.Sc. (Computer Science), M.Sc. (Information Technology), M.C.A. programmes, one semester is devoted for project work. For M.Tech. one year is dedicated for project work and for B.B.M. and M.B.A. programmes compulsory summer internship.
- Excellent research laboratories and instrumentation facilities have been developed in the Schools/Institute in their respective thrust areas/subjects.
- The University has submitted proposal for the establishment of Sophisticated Analytical Instrumentation Facility Center to DST, New Delhi. The foundation laying stone ceremony was held during the assessment year.
- Providing access to the research infrastructure for execution of project work.
- University has been regularly conducting UGC and other funding agencies sponsored Workshops/Seminars/ Conferences for research scholars and faculty.
- In tune with UGC's regulation-2009, a compulsory module on research methodology has been introduced in the course work for all Ph.D. programmes.
- Support of industry for execution of research projects of PG students.
- The University has sanctioned an amount of Rs.58.90 lacs to 95 research projects under Vice-Chancellors Research Motivation Scheme for the teaching and non-teaching faculty of the University and affiliated colleges in the meeting held on 11.01.2016.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	16	37	06	04
Outlay in ` . in Lakhs	385.80	904.50	84.00	329.49

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	25	05	-	04
Outlay in ` . in Lakhs	63.82	05.65	-	3.7

* UGC/VCRMS/TEQIP.

3.4 Details on research publications:

	International	National	Others
Peer Review Journals	186	33	10
Non-Peer Review Journals	01	08	-
e-Journals	14	01	-
Conference proceedings	18	12	-

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations:

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (Rs.. in Lakhs)	Received (Rs. in Lakhs)
Major projects	2 to 7 Years	DST, UGC, SERB, MPCB, RGSTC, DBT ICSSR, BARC	210.70	63.10
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	1	Garware Industries, A'bad	01.00	01.00
Projects sponsored by the University	2 Year	NMU (VCRMS)	58.90	58.90
Students research projects <i>(other than compulsory by the University)</i>	--	--	--	--
Any other (Specify)	5 Years	UGC, BSR Scholarships	19.67	19.67
Total	--	--	290.28	142.67

* VCRMS- Vice-Chancellor's Research Motivation Scheme

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution:

Level	International	National	State	University
Number	00	10	--	04
Sponsoring agencies	--	UGC/ CSIR/DST/ Univ.	--	Self Supported

3.12 No. of faculty served as experts, chairpersons or resource persons **3.13 No. of collaborations** International National Any other **3.14 No. of linkages created during this year** **3.15 Total budget for research for current year in lakhs :**From Funding agency From Management of University Total **3.16 No. of patents received this year**

Type of Patent		Number
National	Applied	06
	Granted	--
International	Applied	--
	Granted	--
Commercialised	Applied	--
	Granted	--

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University
14	05	00	03	06

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them
3.19 No. of Ph.D. awarded by faculty from the Institution **3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)**JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level	13800	State level	131
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National level	19	International level	--
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3.22 No. of students participated in NCC events:

University level	-	State level	-
------------------	---	-------------	---

National level	-	International level	-
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3.23 No. of Awards won in NSS:

University level	05-	State level	06
------------------	-----	-------------	----

National level	--	International level	--
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3.24 No. of Awards won in NCC:

University level	--	State level	--
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National level	--	International level	--
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3.25 No. of Extension activities organized

University forum	20	College forum	282
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NCC	01	NSS	83	Any other	03
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3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility.

The University has organized following extension activities to discharge its institutional social responsibility:

- i. The University has adopted 05 villages under the Smart Villages scheme. The overall objective of the scheme is to bring complete transformation of the villages.
- ii. Organized Environmental Awareness Programme and Environmental Impact Assessment, Watershed Management and Water Literacy Programmes.
- iii. The Women Studies Center has organized seven days residential “Faculty Development Programme” under the UGC scheme in collaboration with Academic Staff College, Savitribai Phule Pune University, Pune w.e.f. 3rd to 10th September, 2015 in which 13 women participants were participated.
- iv. The Women Studies Center has conducted a Workshop at North Maharashtra University, Jalgaon in collaboration with Rajiv Gandhi National Institute of Youth Development (RGNIYD), Sriperumbudur, Tamil Nadu entitled “Women Connect for Leadership and Change” for SC/ST women in higher education w.e.f. 23rd to 28th November, 2015.

- v. On the occasion of Savitribai Phule's Birth Anniversary on 5th January, 2016, the Center has arranged a talk on Bharatiya Striwadacha Hunkar : Phule Dampatya", Prof. Dr. Pratibha Ahire from Aurangabad has delivered talk on "Pioneer of Indian Feminism : Phule Couple".
- vi. The students of this center has performed a drama in the National Conference under the theme "Inter Religious Dialogues" organized by Department of Philosophy at Pratap Philosophy Center, NMU, Amalner on 8th January, 2016.
- vii. On January 16, 2016, Dr. Vishranti Manjewar, Asstt. Professor attended seminar on "Research and Academic Dialogue : Towards a TB – Free India" organized by NMU, Jalgaon with the support of Challenge TB Union.
- viii. On the occasion of International Women's Day, the Women Studies Center has conducted various activities from 8th to 12th March, 2016 in the campus and out of the campus.
- ix. The Center has organized a Mahila Melawas at Sawada and Kandari villages to mark International Women's Day.
- x. The International Womens' Day was observed in the Ladies Hostel in two sessions. The lectures on Health and Career Guidance and Personality Development were delivered on this occasion.
- xi. The Lab to Land programme imparts training, consultancy and supply of quality biotech inputs to marginalized farmers for improving yield and productivity. Following extension activities are organized under this programme:
 - a) Modern facility for production of biofertilizers and other bio-inputs set up including 50 L capacity automatic bioreactor, shaker, soil testing kit, culture preservation facility.
 - b) In view of creating awareness of sustainable farming using bio-inputs among the farmers of this region, Hon'ble Vice-Chancellor Prof. Sudhir U. Meshram delivered popular lectures on sustainable agriculture among the masses in rural and tribal area of North Maharashtra region.
 - c) Total 09 Farmers' training workshops on Sustainable Farming (July 2015 to June 2016) were organized for men and women separately in rural and tribal areas of NMU jurisdiction. Total 164 participants were trained in the workshops.
- x. Popularizing science in the remote rural and tribal areas to boost the scientific viewpoint among students through **Mobile Science Exhibition Unit (Van)**.
- xi. The Department of Students Welfare organizes community outreach activities through the following N.S.S. activities:
 - a) Rain Water Harvesting.
 - b) Heritage Consciousness.

- c) Total 1036 students from University campus and affiliated colleges were financially benefitted under “Earn and Learn Scheme”. An amount of Rs. 33,71,497/- was distributed amongst the students working under this scheme.
 - d) The University has forwarded 07 claims of the students under Group Insurance Accident Scheme amounting to Rs. 11.55 lakhs.
 - e) Nine students are financially benefitted through the Vice-Chancellor’s Funds and an amount of Rs. 35,000/- were distributed among these students.
 - f) The students from economically weaker section were provided financial assistance of Rs. 73.96 lakhs. Total 2208 students were benefitted under this scheme.
 - g) Approximately, Rs. 3.77 lakhs were distributed among the affiliated colleges and University Schools for the workshops organized under Yuvati Sabha.
 - h) The students from University School/Institute were benefitted under Vidhyarthi Dattak Yojana. An amount of Rs. 8.36 lakhs was disbursed amongst 64 students under the scheme.
- xii. The Gandhi Research Foundation conducts activities to inculcate awareness about Gandhian Thoughts among the students.

* * * * *

Criterion – IV

4. Infrastructure and Learning Resources:

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	660 Acres	--	--	660 Acres
Class rooms	88	04	UGC/ Univ.	92
Laboratories	110	06	UGC/ Univ.	116
Seminar Halls	14	05	UGC/ Univ.	19
No. of important equipment purchased (\geq Rs. 1-0 lakh) during the current year.	324	09	UGC/DST/ RUSA	333
Value of the equipment purchased during the year (Rs. in Lakhs)	-	247.88 lacs		-

4.2 Computerization of administration and library

- **Library automation:**

- A separate web page created under the Central Library link of University website giving list of various useful subscribed and free e-resources for research and academic purpose.
- Display of e-resources information placed on notice boards in the Central Library and in reading hall. The assistance also provided to users for accessing e-resources.

- **Institutional Repository:**

Preparation of an Institutional Repository with reference to the Research Papers published by University Faculty, University Question Papers and syllabus of various courses is under progress.

- **LAN facility:**

Wi-Fi on the top floor of Administrative Building and Senate Hall.

LAN connectivity is maintained through OFC (optical fiber cable) and UTP cable to Schools/Institute, Library, at Girls Hostel Nos. 1, 2 and 3 and Boys Hostel No.2 and administrative building on the campus.

Expansion of LAN to Hostels, Schools, Guest House, Health Center and Sports Complex etc. is in progress under NME-ICT project of MHRD, Government of India and Rashtriya Uchcharat Skiksha Abhiyan (RUSA).

The 1 Gbps connectivity under NMEICT is available on the campus.

- **Number of nodes/computers with internet facility:**

Total 600+ nodes are available with internet connectivity. Besides this, 70 nodes are being added in the network under National Mission on Education through ICT (NMEICT) project and 400 nodes are been added under Rashtriya Uchchar Skiksha Abhiyan (RUSA) Funds.

- **Any other:**

Biometric time attendance system.

Surveillance system on CCTV and DVR.

Use of Business Intelligence (BI) Software for reporting of development and project grants in Finance Section.

Collection of fees through online payment gateway.

4.3 Library services: (Rs. in lakhs):

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text/Reference Books	68047	700.00	549	--	68595	
Reference Books	4000	--	41	--	4041	
e-Books	--	-	-	-	-	-
Journals	23	00.087	-	-	23	00.087
e-Journals	25000+	INFLIBNET	-	-	25000+	INFLIBNET
Digital Database	--	-	01	-	-	--
CD & Video	600	-	50	-	650	--
Others (specify)	-	-	-	-	-	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others Wifi Lan
Existing	1032	23	1 Gbps 2 Mbps	07	02	266	768	02
Added	475	00	00	02	00	82	391	00
Total	1507	23	1 Gbps 2 Mbps	09	02	348	1159	02

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

User Education Orientation Programme was conducted by the Central Library of the University for the students of all schools.

4.6 Amount spent on maintenance ` . in lakhs :

i) ICT	Rs. 9.13/- lacs
ii) Campus Infrastructure and facilities	Rs.29.17/- lacs
iii) Equipment	Rs.33.39/- lacs
iv) Others	Rs.411.78/- lacs
Total :	Rs. 483.47/- lacs

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Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services:

- **University Website:** The University regularly updates its bilingual website www.nmu.ac.in as a major source of information for the students. A link <http://nmu.ac.in/en-us/studentcorner> namely ‘**Student Corner**’ is available to provide updated information

- **Finishing School:**

This concept has been recently implemented by the University in tune with MHRD-TEQIP norms for overall development of students. Certificate Courses such as Industrial Safety and Management are devised and implemented to provide awareness on safety and security aspects. Total 120 students has successfully completed this course during last three years. Students are encouraged to register at courses under MOOC (Massive Open Online Courses) which reflects the new trend in higher education. For example, one batch of B. Tech. and M. Tech. students has been registered in the month of January, 2014 for Piping Engineering Online Course floated by IIT Powai. The students from School of Environmental and Earth Sciences participated in the Online course on G.I.S. sponsored by IRRS, Dehardun, India. The University website has provided link to NPTEL (National Programme on Technology Enhanced Learning) which provides e-learning through online Web and Video courses in Engineering, Science and humanities streams.

- **e-Suvidha and Student Facilitation Centre (SFC):**

The University has launched **e-suvidha scheme** with the support of MKCL Digital University Portal from the academic year 2007, with the objectives to serve and assist the Schools/Institutes/affiliated colleges and students for getting access to various facilities sitting at home/college using internet from any part of the world. The scheme enables students/Schools/Institute/affiliated colleges to interact with the University to get timely access to valuable information regarding various courses, admission process, scholarships, examination results etc. at a single click.

The following helpline telephone numbers have been provided under SFC: +91-0257-2258418, +91-0257-2257336, +91-0257-2257338 and University Enquiry Number - +91-0257-2257250.

- **Student Helpline:**

The **Students' Helpline** is the initiative undertaken by the University to address academic/non-academic problems/suggestions of the students studying in the various Schools/Institutes/affiliated Colleges of the university.

The students/stakeholders can directly approach the Vice-Chancellor through the Vice-Chancellor's helpline (vc.helpline@gmail.com) to solve their grievances.

5.2 Efforts made by the institution for tracking the progression:

Every year the Alumni meet were conducted by the schools and feedback about the progression of the Alumni is collected.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
715	1897	250	60

(b) No. of students outside the state

24

(c) No. of international students

7

Men	No	%	Women	No	%
	5	100		-	-

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
740	272	113	1340	13	2078	713	298	123	1277	11	2323

Demand ratio: 1 : 6.5

Dropout %: 2.5

5.4 Details of student support mechanism for coaching for competitive examinations (If any).

No. of students beneficiaries

22

5.5 No. of students qualified in these examinations

NET	6	SET/SLET	17	GATE	3	CAT	-
IAS/IPS etc.	-	State PSC	05	UPSC	01	Others	11

5.6 Details of student counselling and career guidance:

- Coaching/guidance schemes and workshops such as - NET/SET, Equal Opportunities Cell, Career and Counselling Cell and Remedial Coaching under UGC's merged scheme (XI and XII Five Year Plan) have been implemented for the benefit of SC/ST/OBC (non-creamy layer) and Minority students by the University.
- Central Training and Placement Cell (CTPC) has been established to offer guidance, career counselling and career path identification to the students.
- The training imparted on study skills, spoken English, personality development, soft skills and career counselling to enrich the personalities of the students and their all-round development through Equal Opportunities Cell and CTPC.
- Conducted coaching of Competitive Examinations for SC/ST/OBC and Minority students through Dr. Babasaheb Ambedkar Competitive Examination Training Center of the University.

No. of students benefitted

22

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
84	1118	300	--

5.8 Details of gender sensitization programmes:

- The Women Studies Center has been established by the University and it offers two years post-graduate programme M.A. (Women's Studies) and three months Certificate Course on "Gender Sensitization for graduate and post-graduate students". During the assessment year, 07 students successfully completed the Certificate Course in Gender Sensitization.
- Formation of Yuvati Sabha on the campus and affiliated colleges. Approximately, Rs. 3.77 lakhs were distributed among the affiliated colleges and University Schools for the workshops organized under Yuvati Sabha.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events:

State/ University level	<input type="text" value="120"/>	National level	<input type="text" value="448"/>	International level	<input type="text" value="-"/>
No. of students participated in cultural events					
State/ University level	<input type="text" value="2138"/>	National level	<input type="text" value="--"/>	International level	<input type="text"/>

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level	<input type="text" value="05"/>	National level	<input type="text" value="07"/>	International level	<input type="text" value="-"/>
Cultural: State/ University level	<input type="text" value="-"/>	National level	<input type="text" value="-"/>	International level	<input type="text"/>

5.10 Scholarships and Financial Support

	Number of students	Amount (Rs. In Lakhs)
Financial support from institution	2208	74.27
Financial support from government	1244	197.92
Financial support from other sources	46	3.70
Number of students who received International/ National recognitions	-	-

The above students are financially benefitted through the following financial schemes:

- i. Eklavya Vidyadhan Scheme.
- ii. Earn and Learn Scheme.
- iii. Financial Aid to Economically Backward Students.
- iv. Student's Adoption Scheme.
- v. Dr. Babasaheb Ambedkar Scholarship for Hostel Students.

5.11 Student organised / initiatives:

Fairs: State/ University level	01	National level	-	International level	-
Exhibition: State/ University level	07	National level	--	International level	--

5.12 No. of social initiatives undertaken by the students 16

5.13 Major grievances of students (if any) redressed: **NIL**

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Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision of the University:

The University strives to seek a balance between access, equity and academic excellence through educational leadership to promote innovation, research, dynamic transformation of community to keep pace with the global scenario.

Mission of the University:

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.

6.2 Does the Institution has a Management Information System :

- Establishment of Campus-wide Area Network with Internet connectivity of 1 Gbps under NMEICT Project of MHRD for e-resource access.
- IT based MIS:
 - i. To provide various IT Services on the campus (Website Development/ Maintenance, Software Development, Hardware Maintenance and Network related services), System Analysts, Technical Assistant and Hardware and Network Expert are deployed.
 - ii. Various online services are provided partly through in house IT developments and partly through Third Party Engagements.
 - iii. The 1 GBPS connectivity under NMEICT Project of MHRD has been established on the campus.
 - iv. E-library services are managed through the Information Scientists working at Central Library.
 - v. The Financial transactions and HR issues of administration department are handled using SAP since previous eight years also Business Intelligence tool is used for effective decision making.
 - vi. BCUD is having online affiliation process, approval process and PhD admission process which always helps to take appropriate decisions at university level and government.
 - vii. The examination department is issuing online appointments to examiners, paper setters, flying squad etc.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

The university follows a systematic process in the design and development of the curriculum based on need assessment and feedback from stakeholders.

- The opinions/suggestions received from renowned academia, industrialists and scientists through their formal/informal interactions with faculty members in the seminars/conferences/workshops on the curricula are taken into consideration while restructuring the curricula.
- The needs/requirements of stakeholders such as – students, parents and alumni for curriculum upgradation and design are considered. Their Feedback on the existing curricula is regularly obtained and analysed.
- Employability is ensured through curriculum designing and development. Majority of the courses offered by the University are innovative, applied and need based.
- Academic Committees: The Schools on the campus are awarded academic flexibility, under which individual school has established Academic committees for regular revision of syllabi of the courses conducted by the school.

Review of examination results after every semester and accordingly implementation of corrective measures.

Maintenance of other academic records of the research papers published, patent applied, research projects etc. of the school.

6.3.2 Teaching and Learning

Adopted ‘**School Concept**’ to ensure optimum use of human and other infrastructural resources for teaching, learning and research in interdisciplinary areas.

- i. Provided smart-classrooms in all Schools/Institute equipped with LCD projector, LCD TV, digital podium, interactive pad and other accessories.
- ii. Well-furnished computer laboratories with Internet connectivity to the students in all Schools/Institute.
- iii. Established language laboratories to improve the communication skills, group discussion practices, and phonetics/accent among the students.
- iv. Based on Training Needs Analysis (TNA), the faculties are sent for pedagogical programmes under MHRD-TEQIP scheme.

The Academic Council, Faculty, Board of University Teacher Recognition (BUTR) and Board of Studies as per Sections 29, 33, 36 (A) and 37, respectively are the authorities who take review of teaching and learning process of the University. These bodies review the teaching, learning process of Schools/Institute/affiliated colleges in their meetings and suggest improvements which are

communicated by the BCUD office to the concerned for needful action. The Research and Recognition Committee (RRC) evaluates the outline of research work through presentations and personal interviews. This system helps to improve the research quality of the students.

6.3.3 Examination and Evaluation

1. Adoption of Semester System for all faculties.
2. Implementation of 60:40 pattern for term end examinations.
3. Online appointment of Sr. Supervisors, Flying Squad and Examiners with SMS alert.
4. Moderation of Question Papers at the time of paper setting.
5. Digital Question Paper Delivery System.
6. Online Pre-Ph.D. Entrance Test and Course Work Examination.
7. Implementation of **Ordinance** to award 02 marks for voluntary **blood donar student**.
8. The grievances related to evaluation are addressed by the students for all the faculties are resolved by the redressal procedure.
9. **Digitization** of permanent result records of all faculties.
10. Live Webcast of Convocation Program.

6.3.4 Research and Development

Established research laboratories with modern sophisticated instruments and world class infrastructure in all Schools/Institute on the campus to promote research in basic as well as professional subjects.

- i. Encouraged faculty members to write research proposals for the submission of various funding agencies. The faculty members of the University have successfully completed **14 Major and 24 Minor** research projects amounting to **Rs. 335.80 Lakhs** and **Rs. 63.10 Lakhs**, respectively and **33 Major** and **04 Minor** research projects to the tune of **Rs. 834.00 Lakhs** and **Rs. 4.95 Lakhs**, respectively were sanctioned/ongoing by various Government funding agencies during the year.
- ii. Encouraged faculty members to file patents with financial support. As a result, **02** patents have been filed during the year.
- iii. Financial support for the research projects through **Vice-Chancellor's Research Motivation Scheme (VCRMS)** to the young faculty members. In all **95 projects** (Total amount Rs. 58.90 lacs) have been sanctioned under this scheme.
- iv. Encouraging faculty members to attend and/or organize seminars/conferences/workshops as well as to present research papers in National/International conferences.

- v. Awarding **Research and Development Award** every year on the University Foundation Day to the faculty members and initiation of awards for best publication and patent acceptance from this year.
- vi. As a result of these measures, there has been an increase in the quality and quantity of publications of individual teachers.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The University always ensures and monitors proper planning for adequate availability of physical infrastructure and optimal utilization of its resources through various constituted committees in accordance with the Master Plan. The University has created adequate physical infrastructure and learning resources in all Schools/Institute as well as in the Administrative / Examination Sections which is enhanced year to year with generous financial assistance from University, Central and State Government funding agencies.

- i. Made available the Virtual Classroom facility through A-view software in the Central Library of the University.
- ii. Free access to e-journals, e-books, databases, lecture videos and other online resources through INFLIBNET UGC-Infonet Digital Library Consortium.
- iii. Established DKC in the Library to access e-resources; e-resources: Total 25000+ National/International e-journals, 1696 e-books, 01 Database (J-Gate) and other online resources have been made available through INFLIBNET UGC-Infonet Digital Library Consortium to help research scholars and faculty members to keep pace with the latest developments in their field of research.

6.3.6 Human Resource Management

The University contributes to human resource development through :

- i. The training imparted on study skills, spoken English, personality development, soft skills and career counselling to enrich the personalities of the students and their all-round development.
- ii. The University offers Remedial Coaching and NET/SET Coaching for SC/ST/OBC (non-creamy layer) and Minorities through UGC sponsored scheme.
- iii. The Equal Opportunities Cell organizes training workshops for SC/ST students.
- iv. Conducted coaching of Competitive Examinations for SC/ST/OBC and Minority students through Dr. Babasaheb Ambedkar Competitive Examination Training Center.
- v. Deputation of faculty members for participation in orientation/refresher courses/training programmes.
- vi. The best teacher, best researcher, best principal, best non-teaching staff of University/affiliated colleges and best college are felicitated on the occasion of Foundation Day of University every year.
- vii. The University has made available loan for the purchase of house, vehicle and computer for teaching and non-teaching staff.

6.3.7 Faculty and Staff recruitment

The University publishes the advertisements for teaching posts at National level to attract eminent faculty. The accommodation facility is provided on priority basis on the campus. The career advancement scheme is implemented regularly to retain the eminent faculty. The University also encourages retired professors to apply under the UGC's scheme of Professor Emeritus. The faculty with high quality academics of other Universities are invited after retirement as a Visiting Professor under UGC's Scheme.

6.3.8 Industry Interaction / Collaboration:

- i. Established a **University-Industry Interaction Cell (Lab to Industry)** for the collaboration and interaction with various industries in nearby areas in terms of transfer of laboratory research, innovative ideas, scale up processes, technology up-gradation etc.
- ii. Established **CTPC** for on-job training and campus placement of students in industries.
- iii. Signed MoUs and EoI with Local/National industries for the interactions with the experts and eminent personalities of various industries.

6.3.9 Admission of Students

- i. The university has an explicit policy and strategy for attracting international students. Established **International Student Cell** to guide the foreign students for taking the admission and to solve their administrative problems. The quota of 02 seats over and above of research guide is allowed for foreign students in all faculties. They are also exempted from Pre-Ph.D. Entrance Test for the registration to Ph.D. programmes.
- ii. The University ensures wide publicity and transparency in the process of admission to its various courses by:
 - a. publishing Admission Notification in Local/State newspapers.
 - b. circulating Admission Notifications along with Information Brochure to the Schools/affiliated colleges/recognized institutes.
 - c. uploading the Admission Notifications with programme details (intake capacity, fees structure etc.), application form, eligibility criteria, reservation policy, mode of selection, important dates with reference to various stages of admission etc. on the University website i.e. www.nmu.ac.in.

Process of admission:

- The University conducted the admission process for various UG/PG programmes (other than MCA, MBA, M.Ed., M.A. and M. Tech.) in Schools and some P.G. Programmes under Science Faculty in the affiliated colleges during the month of June/July, 2014 through the ONLINE admission portal/link.

- The admissions to M. Tech. Programmes are made on the basis of percentile GATE score merit list. Second Merit List for vacant seats of M.Tech. (Chemical Engineering) is prepared by DTE, Mumbai on the basis of performance in the Entrance Test conducted by them. The vacant seats for remaining eight M. Tech. branches are filled on the basis of combined performance at Entrance Test and personal interviews conducted by the concerned Schools/Institute of the University.
- The State Government Reservation Policy is strictly followed during the admission.

6.4 Welfare schemes for

Teaching	Yes
Non teaching	Yes
Students	Yes

6.5 Total corpus fund generated

Rs. 638.20

6.6 Whether annual financial audit has been done

Yes No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority*
Academic	Yes	NAAC, Bangalore	Yes	Committee Constituted by Univ.
Administrative	No	NIL	No	NIL

* Committee constituted by University with inclusion of experts from other university/ Institute.

6.8 Does the University/Autonomous College declares results within 30 days?

For UG Programmes Yes No For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

The appointment of Examiners, Paper Setters, Moderators, Practical Examiners, Flying Squads, Senior Supervisors etc. are made through Online mode.

- Online payment gateway facility is made available for the students.
- All the reports (Pre-filled Examination Forms, Online Inward Report for Examination Blank Mark-list for conducting of examinations, Hall Ticket, Students name list, student seat summary, attendance certificate etc.) are made online in each end user login.

- c. Implemented online distribution of Question Papers for Pharmacy and Engineering, Education, Law and Management (P.G.) Faculties examination, successfully.
- d. Implementation of 60:40 pattern for term end examinations.

6.10 What efforts are made by the University to promote autonomy in the affiliated/ constituent colleges?

- i. The University provides academic and administrative leadership to its affiliated colleges through the Board of Colleges and University Development (BCUD).
- ii. The rules and guidelines for affiliation, governance, academic audit of affiliated colleges/institutions are framed by the BCUD with the approval of various authorities.
- iii. The BCUD plans, guides, co-ordinates and monitors UG/PG/Ph.D. programmes and development of affiliated colleges/institutes.
- iv. It prepares short-term and long-term perspective plans for the affiliated colleges in accordance with the State and National Educational Policy.
- v. The Board ensures that the decisions regarding these plans are duly processed and implemented through concerned officers and relevant authorities/bodies/ committee.
- vi. The information regarding various developmental schemes of UGC and other funding agencies is given to the Principals of the affiliated colleges through the circulars and meetings and guidance is given to prepare and submit the proposals.
- vii. The University regularly organizes meetings with Principals of the affiliated colleges to guide regarding academic plans, reforms in examination system and developmental schemes of UGC. The University also encourages and advises the affiliated colleges to offer new courses in the emerging areas.
- viii. The University has imparted partial decentralization regarding examination system, for example, the first year degree course examinations (except Engineering and Pharmaceutical courses) are conducted by the affiliated colleges and the results are also prepared/declared by them.

6.11 Activities and support from the Alumni Association:

Every School/Institute has its own Alumni Association to maintain a close liaison with alumni on regular basis. The Alumni meets are regularly organized every year to increase interactions between the past and present students and offer guidance to present students on regular basis.

- i. The university has established the North Maharashtra University Past Students Association (NM-UPSA) in the year 2014 with Registration number MAH/17480/Jalgaon, 04.09.2014.
- ii. The students of our university have reached top positions in various industries and academia by their hard work and dedication. The Central Training and Placement Cell (CTPC) receives the information and seeks the supports from alumni in facilitating placement of present students.

6.12 Activities and support from the Parent – Teacher Association.

Some of the schools conduct Parent-Teacher meeting once in a year. The views/feedback obtained during interactions with parents are taken into consideration while designing/up-gradation of curricula and improvement in the facilities offered.

6.13 Development programmes for support staff.

- i. University nominated the non-teaching staff to the development programmes organized by Academic Staff College, University of Pune, Pune for promotion of technology-driven administrative functioning.
- ii. The non-teaching staff is also included in the organization of research festival ‘**Avishkar**’ and for grants of projects under VCRMS.
- iii. The best non-teaching staff of University/affiliated colleges are felicitated on the occasion of Foundation Day of University every year.

6.14 Initiatives taken by the institution to make the campus eco-friendly.

The University has covered 264 acres of land out of 660 acres (i.e. 40% of its total land) under horticulture, plantation, gardens, check dams and ridges. There are around two lakhs trees/plants on the campus which has enhanced the green beauty and providing conducive environment for teaching and learning. Some of these plants have commercial value such as – Teak (*Tectona grandis*), Neem (*Azadirachta indica*), Sisoo (*Dalbergia sissoo*), Gulmohar (*Delonix regia*), Peltophorum (*Peltophorum africanum*), Banyan Tree (*Ficus benghalensis*) and Pipal Tree (*Ficus religiosa*). In addition to this, each school/institute has dedicated a group of students who take care of plantation around schools/institute under the watchful supervision of teachers. Environmental consciousness amongst the students is created through the participation in various eco-friendly initiatives (Plantation, Check Dam, Save Snakes, Water and Energy Conservation, awareness about Medicinal and Botanical Plants etc.). The campus is rich in biodiversity (i.e. variety of birds, Peacocks, Rabbits, Snakes, Insects etc.) as a result of protection rendered by University.

Around **69 bunds (Small Bandharas) and 02 Check Dams** have been constructed to practice watershed management and water harvesting.

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Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

i. Smart Villages Scheme:

The University has introduced the Smart Villages Scheme under which 05 villages located at remote areas under university jurisdiction, for complete transformation, alcohol free, clean environment, basic infrastructure, cultural, social, educational, economic and agricultural development.

The 05 villages selected under Smart Villages Scheme are:

1. Savada, Dist. Jalgaon.
2. Usmalipada, Dist. Jalgaon.
3. Ramnagar, Dist. Dhule
4. Rajbardi, Dist. Nandurbar.
5. Bhagdari, Dist. Nandurbar

ii. Tribal Academy :

The Eklavya Training Center, Nandurbar (Satellite Center of the University) provides guidance and overall development of tribal students. Under the recent initiative of the University - namely **Tribal Academy**, the **six** centers (social development, vocational education, promotion of indigenous knowledge, tribal governance, culture and sports and physical and mental health of tribal women) would be established for all-round development of tribal students.

A **Community College** has also been set-up under this initiative and a Diploma course in Agricultural and Natural Resources Management Skills with the financial assistance of UGC, New Delhi.

iii Vice-Chancellor's Research Motivation Scheme:

The University has launched Vice-Chancellor's Research Motivation Scheme (VCRMS) to fund research projects to the young faculty members/non-teaching staff which act as a stepping stone for them to apply to various funding agencies for major research projects.

iv. University Website:

The University regularly updates its bilingual website www.nmu.ac.in as a major source of information for the students. A link <http://nmu.ac.in/en-us/studentcorner> namely '**Student Corner**' is created to provide updated information on academics, examination, facilities, formats, training and placement, student welfare and e-resources.

v. **e-Governance:**

The University is fast moving towards becoming a paperless University. The agendas and the notices of all meetings, academic programmes are sent via e-mail. The daily programme of the Vice-Chancellor is communicated to all stakeholders every day by SMS.

vi. **Central Training and Placement Cell:**

The University has established a Central Training and Placement Cell (CTPC) in the year 2013 which provides an interface between UG, PG and Ph.D. students for placements and the corporate world seeking to hire the talent. Through this Cell, the opportunity of employment is provided to 339 students during the assessment period.

vii. **Virtual Classroom Facility:**

The University has created Virtual Classroom facility through A-view software in the Central Library.

viii. **Examination related innovations :**

- a. The appointment of Examiners, Paper Setters, Moderators, Practical Examiners, Flying Squads, Senior Supervisors etc. are made through Online mode.
- b. Online payment gateway facility is made available for the students.
- c. All the reports (Pre-filled Examination Forms, Online Inward Report for Examination Blank Mark-list for conducting of examinations, Hall Ticket, Students name list, student seat summary, attendance certificate etc.) are made online in each end user login.

ix. **School of Thoughts :**

The University has established School of Thoughts which comprises of – Mahatma Gandhi Study and Research Center, Shivaji Maharaj Study and Research Center, Sane Guruji Study and Research Center, Swami Vivekanand Study and Research Center, Mahatma Phule Study and Research Center and Buddha Study and Research Center on the University Campus.

x. **Vision-2040 Document :**

The University has prepared VISION-2040 Document for overall future development of the campus and affiliated colleges.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

The innovations mentioned under 7.1 above, were planned in the beginning of the year and successfully implemented.

7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)

- i) Best Practice in Community Outreach : **Lab To Land Programme.**
- ii) Best Practices in Skill Building and Placement : **Central Training and Placement Cell” (CTPC)**

(Annexure - II, III)

7.4 Contribution to environmental awareness / protection

- **Energy conservation:**

- i. The university has conducted energy audit from external agency MEDA, the audit remarks are analysed and implemented the corrective measures.
- ii. Planning and construction of Administrative and School Buildings with easy accessibility for natural daylight and ventilation.
- iii. The faculty members, administrative staff and students are encouraged to use electricity with care.
- iv. The University is using energy efficient lamps (CFL/LED) and solar water heater to conserve energy and make use of solar energy.
- v. Use of star marked gadgets to reduce energy/power consumption. Virtualization of IT equipment to minimize the computer purchases is adopted in some Schools.

- **Use of renewable energy:**

- i. Initiatives towards use of renewable energy through adequate installation of Solar Street Lights in University campus and Solar Water Heaters in University Guest House and Hostels.
- ii. Established Bio-gas Plant near the Girls’ Hostel.

- **Water harvesting:**

The University is located on the bank of river Girna which provides rich source of underground water. Total 04 wells on the campus are utilized to supply water for drinking, laboratory usages and gardening. Rain water from the roof of the buildings is collected and siphoned for re-charging water reservoirs and bore wells on the campus.

- **Check dam construction:**

Around **69 Bunds (Bandharas)** are constructed on the campus through N.S.S. volunteers to develop watershed and **02 Check Dams** have been constructed through special budgetary allocation.

- **Efforts for Carbon neutrality:**

The campus is surrounded by numerous hills and is located 8 kms from the main city (between 20° and 21° North latitudes and 74°55’ to 76°28’East longitudes, in the northern part of the state, above mean sea level – 208.51 m). The large number of existing plants and plantation on the campus promote carbon neutrality. Hence, the campus is free from carbon emission. Specific plants such as – Karanj (*Pongamia* sp.) have been planted on 5 acres to support future Biodiesel Programme of University.

- **Plantation:**

The N.S.S. Unit of the University as well as the Units of affiliated colleges organize tree plantation and ecological awareness programmes every year on the campus. The mass plantation have been undertaken by NSS volunteers with due support by the Garden Department, students, teaching and administrative staff.

The water resources are created in the form of wells and bore wells to satisfy the water requirement of the plantation. The artificial ponds are created to recharge the ground water on the university campus.

- **Hazardous waste management:**

The staff and research students, while undertaking experimental work in different laboratories, take utmost care in minimal generation of hazardous waste. Waste solvents from analysis and synthesis are gathered and purified by distillation for reuse/recycle. The University has prohibited the use of plastics on the campus.

- **e-waste management:**

The University donates old computers, monitors, printers to the schools of rural areas/NGO's/Public libraries to promote ICT tools among school going children.

- **Any other**

- The N.S.S. units of the University and Colleges are encouraged to adopt the *Gramdattak* Yojana and facilitate environment awareness not only amongst the students but also in the villagers.
- Watershed Management Programmes have been undertaken in different villages of the jurisdiction of North Maharashtra University with financial help and students support.

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

- **Strengths :**

- A legacy of visionary and dynamic leadership.
- Youthful, motivated and committed teaching and non-teaching staff.
- Sincere, hardworking and diligent students, mostly coming from tribal and rural areas are our assets.
- Innovative, applied, need based and job oriented academic programmes.
- Wide-ranging and high-quality research, enhanced research funding and increased research publications reputed National/International journals with high impact factor and cumulative h-index.
- Fair and error proof examination system is our credo.
- Digitalized process of efficient online mode of working towards paperless governance.

- viii. Successful in maintaining the campus and affiliated colleges strife-free, healthy with spirit of interaction and mutuality.
- ix. Vast (660 acres), peaceful and pollution free pleasantly green campus, preservation of our cultural heritage in several buildings. The environment is conducive for academic and research ambience.
- x. Use of ICT tools to bring in efficiency, transparency and credibility in examinations, administration and finance.

- **Weaknesses :**

- i. Shy students with poor communication skills and lack of adequate exposure due to the tribal and rural background is our major weakness.
- ii. Acute shortage of additional permanent faculty and thereby reliance on contract and contributory teachers is our helplessness.
- iii. Insufficient employability opportunities at the local level.

- **Opportunities :**

- i. Promotion of inclusive growth and development being rural location with predominantly tribal population.
- ii. Adoption of new technologies and academic courses to keep pace with changing global trends.
- iii. Focused, motivated and receptive student community, majority first generation graduate learners.
- iv. To address local needs keeping a global perspective.

- **Challenges :**

- i. To break bureaucratic red-tape and traditional mind-set of the stakeholders.
- ii. Formation of transparent and common selection board for recruitment in affiliated colleges.
- iii. Elevation of the University at par with global standards of learning.

8. **Plans of institution for next year:**

- i. Online examination of some of the UG/PG courses.
- ii. Implementation of new Ph.D. regulations.
- iii. Implementation of “Clean India Mission” effectively on the University campus.
- iv. Expansion of job oriented skill based certificate/Diploma courses on the University campus.
- v. Follow-up of the proposals submitted for grant to the different Government agencies viz. SAIFC, Tribal Academy etc.

(Prof. S.T. Ingle)
Director, IQAC

(Prof. P.P. Patil)
Vice-Chancellor

Annexure – I

(Point No.1.3)

Use of Feedback in Curricular Designing and Development

Feedback on the existing curricula was regularly obtained formally/informally from the stakeholders such as – teachers, academia, industry personnels, students, parents and alumni.

- The University has already developed and implemented students feedback system on various issues related to curriculum, teaching and learning. The feedback on the curriculum is placed in the academic committee meetings of the Schools/Institute for discussion.
- The Alumni Association/Meet provides a platform for interactions and discussions about the changes to be brought in the existing curricula.
- Teachers both from Schools/Institute of the University and affiliated colleges give feedback on various aspects of syllabi and evaluation process through regularly organized subject workshops. Subject Associations also meet regularly wherein the feedback on the existing syllabus is obtained.
- The information/feedback is obtained from the industry personnel during their visit to the University Schools/Institute for conducting campus interviews. The Head of the Department being the Chairman/member of Board of Studies, initiated the necessary steps for accommodating the relevant feedback.

Annexure-II

Point No. 7.3

1. Title of the Practice : **Best Practice in Community Outreach : Lab To Land Programme**

Out of 03 districts under the jurisdiction of the University, 02 districts (i.e. Dhule and Nandurbar) are known for major population under rural and tribal categories. The '**Lab to Land Programme**' aimed at extending the biotechnological knowledge and services to the tribals and farmers (both men and women), has been the best practice of North Maharashtra University, Jalgaon in '**community engagement**'.

2. Objectives of the Practice

- i. The research conducted in University laboratories and the know-how developed is directly transferred for the benefit of the community to reach the unreached through research inputs.
- ii. To introduce the use of biofertilizers, biopesticides technology in backward/remote villages of North Maharashtra region and to disseminate its sustainable know-how and adoption of low cost bio-agricultural products.
- iii. To introduce rural based economically viable and self-income generation/Entrepreneurship and Skill Development Programmes (ESDP) on biofertilizers/biopesticide production and conceptualize indigenous cottage industry at rural and tribal areas.
- iv. To raise the rural/tribal economy and living standard of backward farming community especially weak underprivileged SC and ST and marginal farmers.
- v. To produce and impart training of ecofriendly agricultural inputs so as to nullify the indiscriminate use of chemical fertilizers and pesticides.

3. The Context

The land holding pattern in India is diverse, wherein, farmers with large holdings are less in number and most of the farmers are either with medium/small/marginal holdings. The farmers belonging to the latter category are either not exposed to latest technology or it is not affordable for them. The '**Lab to Land Programme**' aims to provide developed biotechnological know-how, training, consultancy and quality inputs for improving productivity and yield. Though the academia on the campus is engaged in doing high quality research in the frontier areas of science and technology, it is believed that our research and technology will make sense, only if, these are applicable in real life at the user's end. Biotechnology products like biofertilizer and biopesticide are harnessed from renewable energy sources, which are cheaper, sustainable and environment friendly. As the rural and tribal marginal farmers are being benefited by such project through reduced use of chemical fertilizers, it will lead to the ultimate economic goal of '**inclusive growth with distributive justice.**'

4. The Practice

As per the objectives, an effective demonstration of techno-economic viability of the biofertilizers/biopesticidal technology to the local farmers through dissemination of the know-how, has been undertaken to implement in **19** selected villages from the tehsils of 3 districts in North Maharashtra Region.

The villages of Jalgaon, Dhule and Nandurbar districts, thickly dominated by tribal population with low income source, are mostly affected by the natural calamities with a record of famine and drought in several parts and dependence rainfall conditions as the area belongs to the low rainfall area. Survey of these remote areas revealed that (i) the cultivators from tribal village live below the poverty line and away from the main stream/economic developments, (ii) there is acute lack of employment due to meagre industrial growth, (iii) tribal youth preferred to migrate with family to adjoining towns and Gujarat State in a large flux in search of jobs after selling the cultivable land even to private companies, (iv) the agriculture was extensively exploited for cultivation from cash crops from last two decades rendering the land unproductive/saline and (v) the farmers and small land holders cannot afford high cost technology and practices.

Overall in above villages, the small and marginal SC/ST as well weaker section cultivators are poor due to low yields from crop farming and following traditional methods due to lack of scientific knowledge or blindly adopting inferior farm practices leading to meagre output from land. On the contrary, black cotton soil in several pockets of this region changed its structure and caused low crop productivity leading to low returns to the farmers.

In view of creating awareness of sustainable farming using bio-inputs among the farmers of this region, **Hon'ble Vice-Chancellor Prof. S.U. Meshram** has conducted **09** workshops on '**Sustainable Agricultural Biotechnology**' for the cultivators in rural and tribal areas of North Maharashtra region.

With the help of Mobile Science Exhibition Unit (Van) the use of science and technology, particularly bio-technology is demonstrated. The booklets circulated during such demonstrations are published in local dialects and the demonstrations are also made in local dialects. Therefore, it becomes easy for the participants to comprehend and appreciate the demonstrations.

- i. Modern facility for production of biofertilizers and other bio-inputs has been set-up including 50 L capacity automatic bioreactor, shaker, soil testing kit, culture preservation facility etc.
- ii. Nine Farmers Training Programmes have been effectively organized during the year 2015-2016 comprising farmers from the tehsils of University's jurisdiction having small/marginal lands of various categories.

List of workshops organized by Hon'ble Vice Chancellor Prof. S.U. Meshram on Sustainable Agricultural Biotechnology under Lab to Land Programme during 2013-14 is given below:

Sr. No.	Location	Date	Participants
1.	Marwad	1 st -4 th Dec 2015	20
2.	Sawade (Smart Village)	15 th – 18 th Feb 2016	24
3.	Shirpur	24 th - 27 th Feb 2016	18
4.	Bhadgaon	28 th -31 st March 2016	20
5.	Bhagadari (Smart Village) Akkalkuwa	4 th – 7 th April 2016	20
6.	Ramnagar (Smart Village)	3 rd – 6 th May 2016	20
7.	Parola	31 st May – 3 rd June 2016	21
8.	Sawade (Smart Village)	14 th – 17 th June 2016	21
Total			336

5. Evidence of Success

The fruits of success would be evident shortly and will have long term impact on the livelihood of tribals and farmers. The success/progress of **Lab to Land Programme** is intangible which cannot be measured in the physical form. However the feedback given by the participant farmers is an indicator of the success of this project and the efforts of NMU, Jalgaon. These efforts will continue down the years with the same motivation and dedication towards community development. Laboratory research, know-how is to be made relevant to the needs of the society.

6. Problems encountered and resources required:

- i. Reluctance on the part of farmers to adopt to new technologies.
- ii. Lack of active support from researchers, field and social workers.
- iii. Financial support from appropriate funding agencies is expected.

Annexure-III

Point No. 7.3

Title of the Practice : **Best Practices in Skill Building and Placement : Central Training and Placement Cell” (CTPC)**

1. Preamble :

The University is committed not only to impart relevant quality higher education and produce conscious researchers, technologists, professionals and citizens, but also to guide and shape the career of the students. The University has established a Central Training and Placement Cell (CTPC) in the year 2013 to realize the above objectives. It plays a vital role in career planning, career-path-identification, goal setting, grooming, mapping, counselling, training and holistic development of the students. The CTPC caters to the placement needs of the students on the campus as well as affiliated colleges. It acts as an interface between the students and the recruiting industries/organizations.

2. The Context

The North Maharashtra University was established on 15th August, 1990 and its jurisdiction extends over the three districts of Jalgaon, Dhule and Nandurbar which fall in the rural and tribal belt of Maharashtra. The tribal population of Nandurbar district is 67%, Jalgaon 14% and Dhule 21%. The students on the campus and the affiliated colleges belong to the socially marginalized and economically deprived backgrounds and are mostly first generation degree learners. These students suffer from several inhibitions and lack confidence in comparison to the students of metropolitan areas.

In addition to subject knowledge and technical skills, it is imperative to groom our students for employability and future careers. The University provides the fundamental and technical knowledge of the concerned subject, problem analysis, design and development solutions, research aptitude but the need to develop self-confidence, ability to conduct investigations of complex/real life problems, usages of modern technology, soft-skills, ethics, the values of environment sustainability, was realized very strongly.

The Schools/Institute/affiliated colleges were already conducting training programmes and recruitment drives at the individual level. But a large number of students were left out or lagged behind in the process. This lacuna was rightly filled by the establishment of a separate Central Training and Placement Cell, with a structured functioning.

3. Structure : Advisory Board for Central Training and Placement Cell:

1.	Vice-Chancellor	Chairman	2.	Director, B.C.U.D.	Member
3.	Registrar	Member	4.	Director, School of Physical Sciences	Member
5.	Director, UICT	Member	6.	Director, School of Life Sciences	Member
7.	Director, School of Computer Sciences	Member	8.	Director, School of Environmental and Earth Sciences	Member
9.	Director, School of Languages Studies and Research Center	Member	10.	Director, School of Chemical Sciences	Member
11.	Director, School of Management Studies	Member	12.	Director, School of Mathematical Sciences	Member
13.	Director, School of Education	Member	14.	Director, School of Social Sciences	Member
15.	Director, School of Thoughts	Member	16.	Director, School of Arts and Humanities	Member
17.	Director, School of Law	Member	18.	Dy. Registrar, Vice-Chancellor Office	Member
18.	Professor, UICT	Co-ordinator	20.	Training and Placement Officer	Secretary

The CTPC office is located in the main Administrative Building and is provided with the necessary infrastructure:

1. Well-furnished computerized office.
2. A audio-visual hall to conduct pre-placement workshops, training programmes.
3. Round table facility for group discussions.
4. Teleconferencing facility to conduct online interviews (A-View Software).

The office of University-Industry Interaction Cell is located in the close proximity of CTPC for extending major support in terms of liasoning with industries.

4. Objectives of the Practice

The objectives of CTPC in practice are:

- i. To assist students to identify their academic and career interests, their short and long-term goals through individual counselling and group sessions.
- ii. To support the students for placement in reputed industries/organizations through on and off campus placement programmes.
- iii. To organize special lectures and workshops relating to softskills, personality development and group discussions to promote leadership styles.
- iv. To conduct various programmes such as – technical, aptitude and general knowledge tests, resume writing and referral, professional portfolio development, mock interviews/ interview techniques, special training for socially backward and tribal students etc.

5. The Practice:

Arranging In-plant Training/Internship for the students:

The Internship is the milestone of the student's academic career. Combined with the information gathered in the classroom, this experience is a substantial way to prepare them for their future employment. The efforts are made for the students to undergo practical training for specific period (4-8 weeks for general students, six months for MCA and B. Tech. students 01 year for M. Tech. students) in multinational/national/private/ public sector undertakings/government departments, research laboratories/institutes and academic institutes.

Industrial/Professional Tours:

In order to understand the working of corporate sector, the CTPC plans and executes visits of students to different industries/organizations located in different regions of India to get right exposure and opportunity for training.

Guidance for Higher Studies in India and Abroad:

The CTPC provides detailed guidance to the students who wish to make career in higher education based on up-to-date placement statistics and an envisioned view of future educational and industrial trends. The CTPC invites experts to offer career guidance and organizes the workshops for providing training in this respect. The University has entered into MoU with 06 International Universities for supporting higher studies abroad.

Campus Placement:

Campus Recruitment Programme (CRP) is promoted for the young students aspiring for appropriate placement in government departments, private/public sector undertakings, industries and research/academic institute. The detailed database of organizations interested in recruitment is continuously updated through use of Yellow Pages, Association Members/regional industrial directories, websites of companies etc. For placement, a large number of prospective employers are contacted and promoted at the beginning of academic year to visit the University for CRP annually. In order to achieve excellent placement record, the CTPC gives great deal of emphasis on close interactions with executives of various industrial/ commercial organizations, both at the national and international levels, for strengthening the Industry-Institute interaction. It provides all audiovisual facilities for Pre-Placement talk, written test, group discussion and interviews.

Overseas Placement:

Indian Industries have expanded their business in Asian, African and European countries through acquisitions and tie-ups. This has opened up new avenues and efforts are being undertaken to promote overseas placements.

University-Industry Interaction Cell:

The **University-Industry Interaction Cell** was established in the year 2013 to strengthen linkages with the industry, research organizations and help to identify the recruiting industries. The objectives of this cell are – to impart industrial training, undertake joint R&D projects, offer technical consultancy and to solve the issues/problems of industries.

Capacity Building among Women-Students:

The CTPC is committed to ensure capacity building, skill development for women students by providing them advanced training and to make them aware of career openings. Career planning strategies will be adopted for career growth of the girl students of the University. The Cell make aware to girl students regarding flexible working conditions, part time work, home based work and family friendly policies. The Women's Studies Center has been conducting gender sensitization programmes on regular basis.

Training on emotional intelligence:

The Cell conducts technical, aptitude and general knowledge tests for enhancing analytical skills and general awareness of students. The group discussions are also organized to promote skills of interaction in group and leadership styles. The company executives are invited to share their expertise on various topics, workplace situations, current trends and future scenario. The eminent management experts are also invited from India to conduct workshops on personality development, interpersonal and communication skills, time management, memory management etc. CTPC coordinates various activities/organize programmes such as career goal mapping, mock interviews, group discussions, case studies, job application preparation, resume writing and referral, professional portfolio development, business etiquette, technology management, special training for socially backward and tribal students etc.

6. Evidence of Success:

Total **300** students from various Schools/Institute/affiliated colleges have been selected by **84** different national/international organizations/industries during the campus interviews during the year (July, 2015 to June, 2016). The maximum and minimum packages offered are **Rs. 10.2 Lakhs** to **Rs. 1.2 Lakhs** per annum, respectively. The campus placement data is also displayed on University Website.

Earlier, placement was done through the individual Schools/Institute/affiliated colleges, but after the establishment of the CTPC, there has been a significant growth in the number of students recruited by different organizations.

7. Problems Encountered and Resources Required:

NIL
