



**KBCNNU**

# **Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon, MS**

## **NAAC SSR**

### **Criterion VI**

### **Governance, Leadership and Management**

**6.5.2. Institution has adopted the following for Quality  
assurance**

**Annual Quality Assurance Reports**



॥ 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 <sup>st</sup> Cycle	Four Star	-	2001	2009
2	2 <sup>nd</sup> Cycle	B	2.88	2009	2014
3	3 <sup>rd</sup> 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 (eg. AICTE, BCI, MCI, PCI, NCI)      Yes  No

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.

<b>Plan of Action</b>	<b>Achievements</b>
To develop collaborative linkages with overseas Universities/institutes, National Organizations and Industries for teaching and research.	Accordingly, 03 <b>MoUs/ linkages</b> 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
<b>Total</b>	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**

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

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

<b>2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year</b>	<b>Asst. Professors</b>		<b>Associate Professors</b>		<b>Professors</b>		<b>Others</b>		<b>Total</b>	
	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:**

<b>No. of Faculty</b>	<b>International level</b>	<b>National level</b>	<b>State level</b>
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 %
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**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

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

\* \* \* \* \*

## 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
National level	19	International level	--

**3.22 No. of students participated in NCC events:**

University level	-	State level	-
National level	-	International level	-

**3.23 No. of Awards won in NSS:**

University level	05-	State level	06
National level	--	International level	--

**3.24 No. of Awards won in NCC:**

University level	--	State level	--
National level	--	International level	--

**3.25 No. of Extension activities organized**

University forum	20	College forum	282
NCC	01	NSS	83
		Any other	03

**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:

- 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.
- Organized Environmental Awareness Programme and Environmental Impact Assessment, Watershed Management and Water Literacy Programmes.
- 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. 3<sup>rd</sup> to 10<sup>th</sup> September, 2015 in which 13 women participants were participated.
- 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. 23<sup>rd</sup> to 28<sup>th</sup> November, 2015.

- v. On the occasion of Savitribai Phule's Birth Anniversary on 5<sup>th</sup> 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 8<sup>th</sup> 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 8<sup>th</sup> to 12<sup>th</sup> 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
<b>Total :</b>	Rs. 483.47/- lacs

\* \* \* \* \*

## 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](http://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](mailto: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
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**(c) No. of international students**

7
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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
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## 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
<b>Number of Organizations Visited</b>	<b>Number of Students Participated</b>	<b>Number of Students Placed</b>	<b>Number of Students Placed</b>
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  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

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

Sports : State/ University level  National level  International level

Cultural: State/ University level  National level  International level

## 5.10 Scholarships and Financial Support

	<b>Number of students</b>	<b>Amount (Rs. In Lakhs)</b>
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**

\* \* \* \*

## 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](http://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.

\* \* \* \* \*

## 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](http://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

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## **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.

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## 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 <sup>st</sup> -4 <sup>th</sup> Dec 2015	20
2.	Sawade (Smart Village)	15 <sup>th</sup> – 18 <sup>th</sup> Feb 2016	24
3.	Shirpur	24 <sup>th</sup> - 27 <sup>th</sup> Feb 2016	18
4.	Bhadgaon	28 <sup>th</sup> -31 <sup>st</sup> March 2016	20
5.	Bhagadari (Smart Village) Akkalkuwa	4 <sup>th</sup> – 7 <sup>th</sup> April 2016	20
6.	Ramnagar ( Smart Village)	3 <sup>rd</sup> – 6 <sup>th</sup> May 2016	20
7.	Parola	31 <sup>st</sup> May – 3 <sup>rd</sup> June 2016	21
8.	Sawade (Smart Village)	14 <sup>th</sup> – 17 <sup>th</sup> June 2016	21
<b>Total</b>			<b>336</b>

### 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 15<sup>th</sup> 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

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| अंतरी पेटवू ज्ञानज्योत ||

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



**ANNUAL QUALITY ASSURANCE REPORT  
FOR THE YEAR 2016-17**

**Submitted to**

**NATIONAL ASSESSMENT AND ACCREDITATION  
COUNCIL, BANGALORE**

॥ अंतरी पेटवू ज्ञान्ज्योत ॥



## NORTH MAHARASHTRA UNIVERSITY, JALGAON

### Annual Quality Assurance Report (AQAR) of the IQAC for the period of July 1, 2016 to June 30, 2017

#### 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/AQARReport2016-17.pdf

**1.6 Accreditation Details**

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

**1.7 Date of Establishment of IQAC:**

09.05.2006

**1.8 AQAR for the year**

2016-17

**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
- viii. AQAR – 2015-16 : 01/04/2017

**1.10 Institutional Status**

University State  Central  Deemed  Private

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

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	<input checked="" type="checkbox"/>	Science	<input checked="" type="checkbox"/>	Commerce	<input checked="" type="checkbox"/>	Law	<input checked="" type="checkbox"/>	PEI (Phys Edu)	<input checked="" type="checkbox"/>
TEI (Edu)	<input checked="" type="checkbox"/>	Engineering	<input checked="" type="checkbox"/>	Health Science	<input checked="" type="checkbox"/>	Management	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Others (Specify)	<input type="text" value="Mental, Moral and Social Sciences; Fine Arts"/>								

**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. IQAC Composition and Activities**

<b>2.1 No. of Teachers</b>	<input type="text" value="06"/>
<b>2.2 No. of Administrative/Technical staff</b>	<input type="text" value="08"/>
<b>2.3 No. of students</b>	<input type="text" value="01"/>
<b>2.4 No. of Management representatives</b>	<input type="text" value="-"/>
<b>2.5 No. of Alumni</b>	<input type="text" value="01"/>
<b>2.6 No. of any other stakeholder and Community representatives</b>	<input type="text" value="03"/>
<b>2.7 No. of Employers/ Industrialists</b>	<input type="text" value="02"/>
<b>2.8 No. of other External Experts</b>	<input type="text" value="-"/>
<b>2.9 Total No. of members</b>	<input type="text" value="21"/>

**2.10 No. of IQAC meetings held**

03

02/11/2016  
04/11/2016  
02/02/2017**2.11 No. of meetings with various stakeholders:** No.

-

Faculty

-

Non-Teaching Staff

-

Alumni

-

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.

-

International

-

National

--

State

-

Institution Level

-

(ii) Themes

-

**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. IQAC has been monitoring the problems encountered in the choice based credit system to promote inter-disciplinary skill amongst students.
- ii. IQAC coordinated the formulation and implementation of 10 point scale as per UGC Notification at University Schools/Institute.
- iii. IQAC is instrumental in the sensitization of all stake holders towards quality sustenance.
- iv. IQAC supported Central Training and Placement Cell (CTPC) in promoting the campus recruitment programmers 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 has taken initiative to conduct result analysis for the previous examination.
- vi. 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, 04 MoUs/ <b>linkages</b> have been signed by University during the assessment year, 2016-17.
Monitoring and effective implementation of <b>Choice Based Credit System.</b>	The Choice Based Credit System has been Effectively implemented so as promote inter-disciplinary skill amongst students.
Strengthening the ICT.	Digital Knowledge Centre in the library has been promoted to give better access e-Resources, e-Books and such other research and academic facilities.
Formulation and implementation of academic calendar	The IQAC at its best tried to implement the action plan as formulated in the form of academic calendar.
Promotion of examination reforms	The analysis of “Multiple choice question” is conducted by IQAC.
Buildings	The buildings under construction are completed during the assessment year.

**2.15 Whether the AQAR was placed in statutory body**

Yes

No

Management

Senate

Academic Council

Provide the details of the action taken.

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

\* \* \* \* \*

## 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
<b>Total</b>	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.

1. Science and Technology	-	45
2. Commerce and Management	-	11
3. Humanities	-	40
4. Inter- disciplinary	-	24

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

Nil

\* \* \* \*

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

<b>2.1 Total No. of permanent faculty</b>	<b>Total</b>	<b>Asst. Professors</b>	<b>Associate Professors</b>	<b>Professors</b>	<b>Others</b>
	93	59	24	10	Asstt.Prof.Govt. Cont-15 Library Staff - 05

<b>2.2 No. of permanent faculty with Ph.D.</b>	82
------------------------------------------------	----

<b>2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the Year</b>	<b>Asst. Professors</b>		<b>Associate Professors</b>		<b>Professors</b>		<b>Others</b>		<b>Total</b>	
	R	V	R	V	R	V	R	V	R	V
	0	7	0	4	0	5	0	16	0	32

<b>2.4 No. of Guest and Visiting faculty and Temporary faculty</b>	15	18	54
--------------------------------------------------------------------	----	----	----

**2.5 Faculty participation in conferences and symposia:**

<b>No. of Faculty</b>	<b>International level</b>	<b>National level</b>	<b>State level</b>
Attended Seminars/	8	64	28
Presented papers	17	39	6
Resource Persons	4	25	10

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

Seminar of the students, Concept Maps, Group Discussions, What sup group for discussion, Field Experiences, Use of modern teaching aids like LCD, smart board etc., Use of open course- wares like sakshat.ac.in, MCW, MIT USA, Spoken-tutorial are organised, during lectures real life applications are discussed, home assignments are given regularly in the class and checked, use Moodle, a learning Managements system to provide additional information's to students, Case studies, Industrial visits, Role plays, Book Journals and Articles review, Business competitions and Quiz etc., ICT- enables seminar hall of capacity of 98 seats is available in school it is used for presentations of conferences/workshops/Invited lectures, engaging regular lectures seminars etc. Industrial projects were offered to M.Sc. (Statistics students), Students versions of SAS software was installed on PCs and training was provided to students, Online lectures were made available for students, Past students' lectures were arranged for students, Teachers were encouraged to attend orientation and refresher courses, Taught texts through films, Initiated QB setting and OPEN Day Planning, students and alumni feedback, Remedial Coaching, Chapter Review activity at the completion of each unit, Soft-skill training and remedial coaching sessions on the weekend.

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

305
-----

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

- The University has implemented Semester System with C.G.P.A. for all the faculties.
- To eliminate the mistakes in question papers, university carry out the moderation before submission of final paper sets to the university.
- The model answer of the paper is also prepared at the time of paper setting, and these model answers are made available to the examiners to maintain uniformity in the evaluation work.
- Online student registration and online issuance of hall tickets through Digital University Portal (E – Suvidha Scheme)
- Online collection of internal marks from all affiliated colleges/institutes.
- Establishment of Digital Examination Cell and Students Facilitation Center for online support (Call Center).
- Digitization of Examination Records from 2000-01 onwards.
- Appointment of Examiners, Paper Setters, Moderators, Practical Examiners, Flying Squad, Senior Supervisors etc. through Online System.
- Decentralization of assessment activity for UG first year examinations for faculties of Arts, Commerce, Science and Management. All other assessment work is done centrally at university.
- Online payment gateway facility is made available for the students.
- Creation of a Question Bank OR a Question Paper Bank for setting examination question paper for Ph.D. entrance Test and for Pre-Ph.D. theory course
- ICT solution for secure delivery of question papers
- OMR and Barcode technology on cover page of answer sheet is used for all the faculties.
- University declares all the results online with complete breakup on university website and through SMS declaration of result is communicated to all colleges.
- Online application system for re-evaluation of answer sheet. Online verification facility for Degree certificate is made available for employer

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

44	-	179
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**2.10 Average percentage of attendance of students**

80 %
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**2.11 Course/Programme wise distribution of pass percentage: -**

Title of the Programme	Total no. of students appeared	Grade						
		O %	A %	B %	C %	D %	E %	F %
M.Sc. (Microbiology)	34	0	18	29	47	6	0	0
M.Sc. (Biochemistry)	36	0	22	19	39	19	0	0
M.Sc. (Biotechnology)	34	3	29	24	38	6	0	0
M.Sc. Chemistry (Polymer Chemistry)	22	5	23	36	27	9	0	0
M.Sc. Chemistry (Pesticides and Agrochemicals).	24	4	25	46	25	0	0	0
M.Sc. Chemistry (Industrial Chemistry)	33	0	18	36	39	6	0	0
M.Sc. Chemistry (Organic Chemistry)	28	32	46	21	0	0	0	0
M.Sc. Chemistry (Physical Chemistry)	14	7	36	29	14	14	0	0
M.Sc. Chemistry (Analytical Chemistry)	19	0	42	37	21	0	0	0
M. Sc. Mathematics (Computational Mathematics)	83	1	25	28	27	12	7	0
M.Sc. Statistics (Industrial Statistics)	84	1	1	11	17	42	14	14
B.Sc. (Actuarial Science)	11	0	36.36	9.09	45.45	0	0	9.09
M. Sc. Physics (Materials Science)	30	0	33	47	13	7	0	0
M. Sc. Physics (Energy Studies)	33	0	15	24	42	12	0	6
M. Sc. Electronics	31	3	10	6	45	29	6	0
M. Tech. (VLSI Technology)	10	0	10	50	0	0	20	20
M.Sc. (Computer Science)	79	0	13	37	48	3	0	0
M.Sc.(Information Technology)	69	0	0	7	36	48	9	0
M.C.A.	84	0	8	15	50	23	0	4
M. Sc.(Environmental Sciences)	25	8	16	44	32	0	0	0
M. Sc.(Applied Geology)	69	0	10	68	19	3	0	0
M.A./M. Sc.(Applied Geography)	17	0	12	18	47	24	0	0
M.Tech. (Environmental Science and Technology)	10	0	90	10	0	0	0	0
M.A. (English)	26	0	15	8	23	23	8	23
M.A. (Hindi)	5	0	60	20	20	0	0	0
M.A. (Marathi)	11	0	9	36	36	18	0	0
M.A. Music (Tabla)	1	0	100	0	0	0	0	0
M.A. Music (Vocal)	8	13	25	13	38	13	0	0

M.A. (Defense & Strategic Studies)	16	6	44	44	6	0	0	0
M.A. (Political Science)	29	0	24	24	21	24	7	0
M.A. (Economics)	37	0	11	41	32	11	5	0
M.A. (Sociology)	27	7	33	26	30	4	0	0
M.A. (History)	35	0	0	17	23	43	0	17
M.A. (Dr. Ambedkar Thoughts)	13	31	46	23	0	0	0	0
M.A. ( Women's Studies	4	0	25	25	50	0	0	0
M.A. (Psychology)	8	0	13	13	75	0	0	0
M.Ed.	17	18	53	24	6	0	0	0
M.S.W	53	2	19	72	8	0	0	0
MA M C J (CBCS)	36	3	22	44	17	8	0	6
M.B.A. (Master of Business Admin.)	69	0	10	68	19	3	0	0
B.B.M. (Bachelor of Business Management)	18	0	44	56	0	0	0	0
B. Tech. (Chemical Engineering)	71	0	21	62	12	0	0	6
B. Tech. (Paint Technology)	21	0	19	76	5	0	0	0
B. Tech. (Oil, Fats and Waxes Technology)	14	0	29	57	7	0	0	7
B. Tech. (Plastic Technology)	22	0	23	64	13	0	0	0
B. Tech. (Food Technology)	16	0	25	69	0	0	0	6
M. Tech. (Chemical Engineering)	16	13	37	44	0	0	0	6
M. Tech. (Polymer Technology)	6	17	83	0	0	0	0	0
M. Tech. (Oil, Oleochemicals and Surfactant Technology)	3	0	34	33	0	0	0	33
M. Tech. (Nano-Science and Technology)	8	13	50	37	0	0	0	0
M. Tech. (Pharmaceutical Chemistry and Technology)	8	0	50	50	0	0	0	0
M. Tech. (Food and Fermentation Technology)	15	0	40	47	0	0	0	13
M. Tech. (Paint Technology)	10	20	50	20	0	0	0	10

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

- i. The IQAC has ensured that teaching-learning and extension process is made student centric by promoting students to be involved in overall process.
- ii. Syllabi is revised as per the inputs received from stack holders to incorporate industry needs as per current market scenario and soft skill based contents.

- 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 industrial tours, Industrial trainings.
- iv. Finishing School concept is introduced to enrich soft and social skill.
- v. Digitally equipped smart Classroom are introduced to promote ICT based teaching and learning.
- vi. IQAC ensured that analysis of result and feedback is carried out at schools in the campus.
- vii. Communications Skills, Spoken English Workshops were organized through Equal Opportunities Cell.
- viii. Exhaustive and extensive efforts towards placement of the students in Industry has been taken by the Central Training and Placement Cell (CTPC).

### 2.13 Initiatives undertaken towards faculty development:

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	11
UGC – Faculty Improvement Programme/QIP	2
HRD programmes	0
Orientation programmes	3
Faculty exchange programme	0
Staff training conducted by the university	1
Staff training conducted by other institutions	6
Summer / Winter schools, Workshops, etc.	46
Others – PDF	0

### 2.14 Details of Administrative and Technical staff

<b>Category</b>	<b>Number of Permanent Employees</b>	<b>Number of Vacant Positions</b>	<b>Number of permanent positions filled during the Year</b>	<b>Number of positions filled temporarily</b>
Administrative Staff	316	18	0	0
Technical Staff	102	06	0	0

\* \* \* \* \*

## 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.
- 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.114 lacs to 77 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	01	19	--	--
Outlay in ` . in Lakhs	77.5	389.22	--	--

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	02	06	--	--
Outlay in ` . in Lakhs	1.4	13.22	--	--

#### 3.4 Details on research publications:

	International	National	Others
Peer Review Journals	183	87	--
Non-Peer Review Journals	--	--	--
e-Journals	--	--	--
Conference proceedings	--	53	--

**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	2016-2017	BARC, UGC, RGSTC, SERB, DST, ICSSR, DBT,CABCIN, TEQIP,MPCB	256.803	
Minor Projects	2016-2017	BARC, UGC, RGSTC, SERB, DST, ICSSR, DBT,CABCIN, TEQIP,MPCB	14.62	
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--
Projects sponsored by the University	--	--	--	--
Students research projects <i>(other than compulsory by the University)</i>	--	--	--	--
Any other (Specify)	--	--	--	--
Total	--	--	--	--

\* 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	1	12	3	5
Sponsoring agencies	TEQIP III	UGC, New Delhi, TEQIP III	NMU, Jalgaon	--

**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	9
	Granted	0
International	Applied	0
	Granted	0
Commercialised	Applied	0
	Granted	0

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

Total	International	National	State	University
41	3	28	7	3

**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  State level National level  International level

**3.22 No. of students participated in NCC events:**

University level	<input type="text" value="-"/>	State level	<input type="text" value="-"/>
National level	<input type="text" value="-"/>	International level	<input type="text" value="-"/>

**3.23 No. of Awards won in NSS:**

University level	<input type="text" value="08"/>	State level	<input type="text" value="05"/>
National level	<input type="text" value="08"/>	International level	<input type="text" value="--"/>

**3.24 No. of Awards won in NCC:**

University level	<input type="text" value="--"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

**3.25 No. of Extension activities organized**

University forum	<input type="text" value="-"/>	College forum	<input type="text" value="-"/>
NCC	<input type="text" value="-"/>	NSS	<input type="text" value="14943"/>
		Any other	<input type="text" value="7048"/>

**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:

- University Level “AVISHKAR-2016”.
- University Level “Yuvarang-2016”.
- University Level Science Exhibition and Open House-2016
- To organize “National Science Day” Celebration-2017 in PG Departments.
- Training programme for prevention of “Sexual Harassment” by Rajya Mahila Ayog.
- “Blood Donation Camp”.
- One day “Training camp on Nature”.
- One day workshop on “Water Conservation Techniques”.
- One day National Workshop on “GIS application in Natural Resources Management”.
- All faculty members participated in the event “Clean Campus Mission”.
- “Constitution Day” Program.
- “Yuvati Sabha” Program.
- “Marathi Bhasha Day” program.
- Entrepreneurship Development Programme.
- Workshop on Social Media.
- Swachata Abhiyan on University campus & affiliated colleges.
- “Mass Plantation” program on the campus.

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## 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	16	UGC/University Fund	104
Laboratories	110	10	UGC/ University Fund/RUSA	120
Seminar Halls	14	06	UGC/ University Fund	20
No. of important equipment purchased ( $\geq$ Rs. 1-0 lakh) during the current year.	306	18	UGC/DST/TEQIP/DB T/ University Fund/RUSA	324
Value of the equipment purchased during the year (Rs. in Lakhs)	-	89.96 lacs		..

#### 4.2 Computerization of administration and library

- Library automation:** A separate web page is available 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:** LAN connectivity is maintained through OFC (optical fiber cable) and UTP cable to Schools/Institute, Library and administrative building on the campus.

New LAN connectivity of 70 nodes and OFC under NMEICT project of MHRD, Government of India is provided to:

- School of Social Sciences
- School of Mathematical Sciences (New building)
- Sump Well Building
- Convocation Hall
- Health Center
- Girls Hostel No. 1 and 2
- Girls Hostel No. 3
- VC's Residence
- Guest House
- A.P.J. Abdul Kalam Vidyarthi Bhavan
- Shikshak Bhavan
- Minortiy Girls Hostel
- Babu Jagjivan Ram Girls Hostel
- Sports Complex
- Boys Hostel No. 1
- Boys Hostel No. 2
- Boys Hostel No. 3

Also, expansion of 400 LAN nodes under Rashtriya Uchastar Skiksha Abhiyan (RUSA) were carried out in various Schools/Institute, Library and administrative building on the campus.

Besides this 450 LAN nodes were installed in Online Examination Center under Rashtriya Uchastar Skiksha Abhiyan (RUSA)

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

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

Total 1500+ nodes are available with internet connectivity in the campus

- **Any other:** e- Resource Portal is developed.

#### 4.3 Library services: (Rs. in lakhs):

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value (Rs.)
Text/Reference Books	68595	109233998.65	6085	9426483.22	74680	118660481.67
Reference Books	4041		354		4395	
e-Books	-		-		-	
Journals	23	17950	67	541750	90	559700
e-Journals	25000 +	UGC Infonet Digital Library Consortium	-		25000 +	
Digital Database	-		4	4200000		4200000
CD & Video	650	Free with Books	100	Free with Books	750	Free with Books
Others (specify)	-		-		-	

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsin g Centres	Computer Centres	Office	Depart -ments	Others Wifi Lan
Existing	1057	23	1 Gbps, 2 Mbps	09	02	348	1159	02
Added	65	00	10 Mbps	00	00	25	40	00
<b>Total</b>	<b>1122</b>	<b>23</b>		<b>09</b>	<b>02</b>	<b>373</b>	<b>1199</b>	<b>02</b>

#### 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. 2.85/- lacs
ii) Campus Infrastructure and facilities	Rs. 35.37 /- lacs
iii) Equipment	Rs. 36.79 /- lacs
iv) Others	Rs. 391 /- lacs
<b>Total:</b>	Rs. 466 /- lacs

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## Criterion – V

### 5. Student Support and Progression

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

- **Summer School workshop for budding researchers**

Knowledge and innovations are going to be the twin agents of change in present century. Whereas, the former strengthens the thought process, the latter transforms it into products/services. Basic research is the mother of all the applied research and technological innovations. It also provides vent to one's imagination and creativity. To motivate the young talented students studying in the graduate program of affiliated colleges towards this fascinating world of research and innovation, it is necessary to provide a suitable eco-system and carefully cultivate and nurture research aptitude in them. The University has started summer school of budding researchers with the goal to inculcate research aptitude, analytical abilities and independent thinking abilities among graduate students. The objective is to familiarize them with research culture, activities, modern & sophisticated instruments and facilities on campus. Overall the young students will be attracted and motivated to pursue career in basic and applied research. Ten days workshop was organized from 1-10 June, 2017. Total of ten Undergraduate students from affiliated colleges were budding represent in this workshop. Eminent Scientist from national organisation (ISRO, BARC, NPL and HCL etc.) were invited to guide there.

- **University Website:** The University regularly updates its bilingual website [www.nmu.ac.in](http://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 to students.

- **Finishing School:**

This concept has been recently implemented by the University in tune with MHRD-TEQIP norms for overall development of the students. Certificate Courses such as Industrial Safety and Management are devised and implemented to provide awareness on safety and security aspects. Students are encouraged to register for 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 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](mailto:vc.helpline@gmail.com)) to solve their grievances.

Online examination and e suvidha centers

(The students facilitation centre (Vidyarthi Suvidha Kendra) are proposed to establish in Aug-Sept-2017- Amalner, Nandurbar, Faizpur, Chalisgaon.)

- **Vidyarth Sanwad Parva (Vice-Chancellor's Interactive Festival)**

Hon'ble Vice-Chancellor of the university started the new initiative of Vidyarthi Sanwad Parva form November 2016. The Vice Chancellor has reserved half day for the students on the first and third Monday of every month for resolving the problems of students. This unique project has been named as the Vice-Chancellor's Interactive Festival.

## 5.2 Efforts made by the institution for tracking the progression:

IQAC takes efforts to collect the progression of the Alumni by the feedback received every year through the Alumni meet conducted by the schools.

### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
734	2103	395	--

### (b) No. of students outside the state

27
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### (c) No. of international students

10
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	No	%		No	%
Men	1547	60	Women	1299	40

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
713	298	123	1277	11	2323	1597	230	124	1271	3	3232

**Demand ratio:** 1:6:5      **Dropout %:** 01 %

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

No. of students beneficiaries

#### 5.5 No. of students qualified in these examinations

SET/SLET	<input type="text" value="7"/>	GATE	<input type="text" value="24"/>	CAT	<input type="text" value="5"/>		<input type="text" value="-"/>
IAS/IPS etc.	<input type="text" value="-"/>	State PSC	<input type="text" value="-"/>	UPSC	<input type="text" value="-"/>	MPSC	<input type="text" value="2"/>
Other	<input type="text" value="6"/>						

#### 5.6 Details of student counselling and career guidance:

- Continous ongoing process by faculty member at individual level.
- Central Training and Placement Cell and School's T and P Cell Organised aptitude test for all II-Year students
- Various Lectures/Activities were conducted by Internal/Guest Faculty for Overall Development of the students
- Schedule of soft-skill training workshops and personality development
- Training for personnel interview and group discussion.
- Finishing Schools for Weak students.
- GATE Coching

#### 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
24	243	74	110

#### 5.8 Details of gender sensitization programmes:

- On the birth anniversary of Krantijyoti Savitribai Phule, Woman Studies Centre organized a lecture on 9<sup>th</sup> Jan 2017. Under the theme of **“Savitribai Phule: Stree Chalval ani Vartamanatil Aavahane”** in Auditorium hall of School of Social Sciences. Special Guest Adv. Vaishali dolas from Aurangabad & Shahir Vasudha Kalyankar.
- K. S. Wani Marathi Pragat Adhyasan Sanstha, Dhule and Khandesh Marathi Pradhyaapak Parishad collaboratively organized a seminar on **“Bhartiya Streewad: Badlte Aayam”** on 21<sup>th</sup> and 22<sup>th</sup> Jan 2017.
- Forty students completed a three month certication course in **“Gender Sensitization”**, conducted by Women Study Centre during assessment year.
- Maharashtra State Women’s Commission and Women’s Studies Centre collaboratively organized a one day workshop on **“Sexual Harassment at Work Place, Act 2003”** in Senate Hall on 1<sup>th</sup> February 2017.
- Women’s Studies Centre Organizes two days workshop on **“Masculinity”** in Boys Hostel North Maharashtra University

**5.9 Students Activities****5.9.1 No. of students participated in Sports, Games and other events:**

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

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

Sports: State/ University level  National level  International level

Cultural: State/ University level  National level  International level

**5.10 Scholarships and Financial Support**

	<b>Number of students</b>	<b>Amount (Rs. In Lakhs)</b>
Financial support from institution	-	15.92
Financial support from government	1560	262.31
Financial support from other sources	44	3.47
Number of students who received International/ National recognitions	-	-

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

**5.11 Student organised / initiatives:**

Fairs: State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

**5.12 No. of social initiatives undertaken by the students** **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/NKN 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 last 9 years and 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.
- 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 is done and accordingly implementation of corrective measures are incorporated in the syllabus.

#### 6.3.2 Teaching and Learning

To assure the better utilization of human resources and the infrastructural resources available for teaching, learning and research in interdisciplinary areas, the university has adopted concept of schools.

- i. Digitally equipped classrooms are available in all Schools/Institute with high quality LCD projector, LCD TV, digital podium, interactive pad and other accessories.
- ii. Computer laboratories with high speed Internet connectivity are available to the students in all Schools/Institute. The resource material from various portals like nptel, spoken tutorials is available to students and faculty.
- iii. Communication skills, group discussion practices, and phonetics/accent improvement is carried out through language laboratories.
- iv. The faculty members were sent to various Pedagogical programmes/workshops based on Training Needs Analysis (TNA).

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. The Maharashtra Public University Act. 2016 was implemented from 1<sup>st</sup> March 2017.

### 6.3.3 Examination and Evaluation

- Adoption of Semester System for all faculties.
- Implementation of 60:40 pattern with MCQ based term end examinations.
- Online appointment of Sr. Supervisors, Flying Squad and Examiners with SMS alert.
- Moderation of Question Papers at the time of paper setting.
- Digital Question Paper Delivery System.
- Online Pre-Ph.D. Entrance Test and Course Work Examination.
- Implementation of **Ordinance** to award 02 marks for voluntary **blood donor student**.
- The grievances related to evaluation are addressed by the students for all the faculties are resolved by the redressal procedure.
- **Digitization** of permanent result records of all faculties.
- Live Webcast of Convocation Program.
- Conducted Online Examination for MBA distance course.
- On screen evaluation.
- Online examination centre.

### 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 received 17 research projects to the tune of **309 Lakhs** by various Government funding agencies during the assessment 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 Teaching, Non-Teaching faculty members. In all (72+05 project amounting to Rs. 114 lacs) have been sanctioned under this scheme during the assessment year.
- iv. Encouraging faculty members to attend and/or organize seminars/conferences/workshops as well as to present research papers in National/ International conferences.
- v. **Research Awards** are given every year on the University Foundation Day.
- 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-Info net Digital Library Consortium.
- iii. Established DKC in the Library to access e-resources; e-resources: Total 25000+ National/International e-journals, e-books, 04 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. Training workshops for SC/ST students are organized by the Equal Opportunities Cell.
- iii. The University facilitates Remedial Coaching and NET/SET Coaching for SC/ST/OBC (non-creamy layer) and Minorities through UGC sponsored scheme.
- iv. Dr. Babasaheb Ambedkar Competitive Examination Training Centre has been established and organizes coaching of Competitive Examinations for SC/ST/OBC and Minority students
- v. Deputation of Faculty members are encouraged for participation in orientation/refresher courses/faculty development programmes.
- vi. The stakeholders are encouraged by felicitation through the best teacher, best researcher, best principal, best non-teaching staff of University/affiliated colleges and best college awards on the occasion of Foundation Day of University every year.
- vii. The University is providing loan on minimum interest for the purchase of house, vehicle and computer for teaching and non-teaching staff.

### 6.3.7 Faculty and Staff recruitment:

The career advancement scheme is implemented regularly as per the norms by UGC and state government. 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 as a Visiting Professor under UGC's Scheme.

### 6.3.8 Industry Interaction / Collaboration:

- i. University-Industry Interaction Cell (Lab to Industry) is functioning for the collaboration and interaction with various industries in nearby areas in terms of transmission of research outcomes, innovative ideas, scale up processes, technology up-gradation etc.
- ii. The University-Industry Interaction Cell advised the University faculties to offer their expertise in providing techno-commercial solutions to these industries.
- iii. The CTPC arranges skill based trainings, on-job trainings and campus placement for students in industries.
- iv. University 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 has started centralised online admission process for M.Sc./M.A.(Geography) through ONLINE admission portal developed for university schools and affiliated colleges.
- iii. 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. 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](http://www.nmu.ac.in).

### Process of admission:

- The students are admitted to MCA, MBA, B.Tech course through Common Entrance Test (CET), conducted by DTE, Mumbai. Online admission process is adopted by for admission of these course by DTE.
- 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 centralised online admission for M.Sc./M.A.(Geography) is developed by university computer centre. The portal receives online applications from students seeking admission to these courses. The Applications were verified at respective application receipt centres (ARCs).The candidates need to fill option form for the choice. The system allots college to the candidate as per merit. The State Government Reservation Policy is strictly followed during allotment of seats.
- A total of 4138 online application were received for 51 courses in University Campus and affiliated colleges. Total 2551 students admitted to these courses in CAP rounds in academic year 2016-17.

#### 6.4 Welfare schemes for

Teaching	Yes
Non-teaching	Yes
Students	Yes

#### 6.5 Total corpus fund generated

Rs.126.65 cr
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6.6 Whether annual financial audit has been done Yes

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority*
Academic	Yes	NAAC	Yes	--
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 available online in each end user login.
- Successfully Implemented online distribution of Question Papers for Pharmacy, Engineering, Education, Law, Management, Commerce and Science (P.G.) faculties

- 
- f. On screen evaluation for PG program in Pharmacy, Engineering, Education, Law and Management, as well as UG Commerce and Science programs.

#### **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 circulated to the Principals of the affiliated colleges through the circulars, 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.
- ix. The academic and administrative leadership of the University encourages its affiliated colleges/institutions to take autonomous status. As a result, the Government Engineering College, Jalgaon has been granted autonomous status by the Government of Maharashtra and UGC, New Delhi.

#### **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 to offer guidance to the present students. This activity gives hands on to present students for better placements.

- i. Besides this the university has established the North Maharashtra University Past Students Association (NM-UPSA) with Registration number MAH/17480/Jalgaon, 04.09.2014.

- ii. The alumni of the university are working at top positions in various industries and academia by their efforts, dedication and hard work. The information and support from alumni has been taken in facilitating placement of the present students by the Central Training and Placement Cell (CTPC).

### 6.12 Activities and support from the Parent – Teacher Association.

Once in a year Parent-Teacher meeting is conducted by some of the schools. The views/feedback obtained from the parents during interactions is taken into account to design, upgradation and redesign of curricula.

### 6.13 Development programmes for support staff.

- i. The non-teaching staff is motivated for research by including in the ‘**Avishkar**’ research festival cum competition as a separate participation category with special and attractive prizes.
- ii. The non-teaching staff is motivated to submit research proposal on various research problems and financial assistance is made available to them under VCRMS. (Vice-Chancellor Research Motivation Scheme).
- iii. Every year on the occasion of Foundation Day of the University best non-teaching staff of the University/affiliated colleges are felicitated.

### 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 provides 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 the University.

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

Besides this the university proposed green practices for eco-friendly campus such as

- Electric bus has been proposed for local transportation on campus to maintain pollution free environment.
- Clean campus mission has been regularly carried out by students, teachers and non-teaching staff under the Swachh Bharat Abhiyan.
- Tree plantation is carried out on campus every year to increase the eco friendliness.

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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, are identified 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. Savade, Dist. Jalgaon.
2. Usmalipada, Dist. Jalgaon.
3. Ramnagar, Dist. Dhule
4. Rajbardi, Dist. Nandurbar.
5. Bhagdari, Dist. Nandurbar

##### ii. Tribal Academy:

The Eklavya Training Centre, Nandurbar (Satellite Centre of the University) provides guidance and overall development of tribal students. Under this **Tribal Academy**, with **six** centres (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, has been started.

##### 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. A total of Rs.114 lacks grants were dispersed

##### iv. University Website:

The University regularly updates its bilingual website [www.nmu.ac.in](http://www.nmu.ac.in) which 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 etc.

**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 important notices to all stockholders are communicated 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 the students on campus and affiliated colleges. In addition 74 students are employed through the individual school placement cell with the support of Central Training and Placement Cell.

**vii. Virtual Classroom Facility:**

The University has created Virtual Classroom facility through A-view software in the Digital Knowledge Center.

**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 available online in each end user login.
- d. Digital Examination Paper Delivery System (DEPDS) for question paper Distribution at examination centres is implemented for MBA, Engineering, Law, Pharmacy, MA, M.Com, and M.SC
- e. On Screen Evaluation System is initiated for MBA, Engineering, Law, Pharmacy, MA, M.Com and M.SC

**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 Vivekananda 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.

### **xi. Summer School of budding researchers**

The University has started summer school of budding researchers with the goal to inculcate research aptitude, analytical abilities and independent thinking abilities among graduate students. The objective is to familiarize them with research culture, activities, modern & sophisticated instruments and facilities on campus. Overall the young students will be attracted and motivated to pursue career in basic and applied research. A total of 50 students benefited from this workshop.

### **xii. Centralized online admission system for M.Sc. /M.A. (Geography)**

The University has started centralised online admission process for M.Sc. /M.A. (Geography) through ONLINE admission portal developed for university schools and courses at affiliated colleges. The centralised online admission for M.Sc/M.A. (Geography) is developed by university computer centre. The portal receives online applications from students seeking admission to these courses. The Applications were verified at respective application receipt centres (ARCs).The candidates need to fill option form for the choice. The system allots college to the candidate as per merit. The State Government Reservation Policy is strictly followed during allotment of seats.

### **xiii. Online payment gateway**

To promote Cashless transaction online payment is implemented in various online application also the fees payment is done through online mode.

## **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: Vidyarthi Sanwad Parva** (Vice-Chancellor's Students Interactive Initiative).

### **Students Interaction Initiative:**

Vice Chancellor of the University discusses directly to the students on the first and third Monday of every month and listen to their problems. This unique Vice-Chancellor-student dialogue started at the university from the month of November 2016. The Vice Chancellor has reserved half day for the students on the first and third Monday of every month for resolving problems of the students. This unique project has been named as the Vidyarthi Sanwad Parva. In the Previous Meetings of Vidyarthi Sanwad Parva the students discussed issues related to teaching-learning, examinations, scholarships, hostel, transportation etc. Due to this activity the students can directly meet Vice Chancellor and discuss their problems freely without any barrier. Students from the affiliated colleges of (Jalgaon, Dhule, Nandurbar District and University campus registered their grievances during the Meetings The University has appealed to the students to attend the meetings and dialogue with Hon'ble Vice Chancellor.

This is an initiative of Hon'ble Vice Chancellor to provide the platform to the students to discuss their problems without any appointment. The Vice Chancellor imports the instructions to the university officials to resolve problem immediately.



**Hon'ble Vice Chancellor interaction with the student during Vidyarthi Sanwad Parva.**

**The details of interactions of students and the Vice Chancellor under the Vidyarth Sanwad Parva (Vice-Chancellor's Students Interaction Initiative) are given in the table.**

Sr. No.	Programme Details (Dates)	No. of Participants	Major Grievances	Action Taken
1	21.11.2016	31	<ul style="list-style-type: none"> <li>Financial support for participation in International Conference.</li> <li>Seating arrangement and competitive Books in Library.</li> <li>Rescheduling of Examination.</li> <li>To start NMU buses like private colleges</li> <li>OBC Scholarship to the students of Journalism.</li> <li>ST and OBC Scholarship to the students of Dr. Ambedkar Thoughts.</li> </ul>	Most of the grievances are sorted out by directing the concerned section in charges to take appropriate action immediately
2	5.12.2016	12	<ul style="list-style-type: none"> <li>Delay in Ph.D. Viva-voce</li> </ul>	
3	19.12.2016	5	<ul style="list-style-type: none"> <li>Regarding Biodiversity</li> </ul>	
4	16.1.2017	1	<ul style="list-style-type: none"> <li>To Waive off tuition fees</li> </ul>	

Sr. No.	Programme Details (Dates)	No. of Participants	Major Grievances	Action Taken
5	6.2.2017	12	<ul style="list-style-type: none"> <li>Psychological Lab and full time Lecturer</li> <li>Exam Pattern and Result</li> <li>Fellowship</li> </ul>	Most of the grievances are sorted out by directing the concerned section in charges to take appropriate action immediately
6	6.3.2017	40	<ul style="list-style-type: none"> <li>International research student registration</li> <li>Verification of Practical Papers</li> <li>Decrease the admission Fees</li> <li>Problems in IMR, Jalgaon</li> <li>Regarding Photocopy fees</li> </ul>	
7	20.3.2017	6	<ul style="list-style-type: none"> <li>To seek additional opportunity for exam.</li> <li>Regarding VCRM's Project</li> </ul>	
8	17.4.2017	2	<ul style="list-style-type: none"> <li>Mistakes in ME Sample Answer Sheet</li> </ul>	
9	15.5.2017	2	<ul style="list-style-type: none"> <li>Regarding Ph.D. Entrance</li> <li>Asking for documentary proofs through RTI regarding copy Case.</li> </ul>	

## ii) Clean Campus Mission

Swachha Bharat Abhiyan or Clean India Mission is a campaign which aims to clean up the streets, roads and infrastructure of cities, smaller towns, and rural areas of the country. Ministry of Human Resource Development, Government of India has taken initiative to implement this mission in the jurisdiction of universities by promoting the stakeholders of the universities.

The University affiliated colleges are encouraged to swear the oath of cleanliness to their students and employees, the activities are carried out both the university campus and affiliated Colleges and nearby towns/ cities under the jurisdiction of the university the details of the activities under this mission are summarised in the table.

### A. Details of the activities conducted on university campus under Clean Campus Mission (Swachha Bharat Abhiyan)

Sr. No.	Date and day	Event details	No. of Participants
1	4.11.2016 Friday	Clean Campaign Public awareness and cleanliness assurance program (5pm - Mahatma Gandhi Hill, NMU)	550
2	5.11.2016 Saturday	Clean Campus Campaign / Shramdaan - School of Social Sciences (10.00am to 5.00pm - minimum 2 hours)	86
3	6.11.2016 Sunday	Clean Campus Campaign / Shramdaan (08.00 am to 10.00 am) (staff Quarter, girls Hostel, Teacher building)	350

Sr. No.	Date and day	Event details	No. of Participants
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4	7.11.2016 Monday	Clean Campus Campaign / Shramdaan (Life Science, Env.Sci, UICT, Chem. Sci) (10.00am to 5.00pm - minimum 2 hours)	230
5	8.11.2016 Tuesday	Clean Campus Campaign / Shramdaan (Physical Sci/ Library) (10.00am to 5.00pm - minimum 2 hours)	105
6	9.11.2016 Wednesday	Clean Campus Campaign / Shramdaan <b>( Language Studies/ Math/ Computer/ Mgt. Studies)</b> (10.00am to 5.00pm - minimum 2 hours)	234
7	10.11.2016 Thursday	Clean Campus Campaign / Shramdaan All in the university <b>Satellite Centre (Amalner/Dhule/Nandurbar)</b> (10.00am to 5.00pm - minimum 2 hours)	174
8	11.11.2016 Friday	Clean Campus Campaign for Jalgaon city/ Shramdaan The bus stands in Jalgaon city, District General Hospital, Bhaskar Market and B. J. Market premises (3:00 pm to 6:00 pm)	550
9	12.11.2016 Saturday	Clean Campus Campaign / Shramdaan (Paldhi Village and Premises)	104
10	13.11.2016 Sunday	Clean Campus Campaign / Shramdaan (Boys and Ladies Hostel Campus)	759
11	15.11.2016 Tuesday	Clean Campus Campaign / Shramdaan (Administrative Building to Main Gate)	350

The university teachers, administrative staff, contractual staff and university daily wages staff have participated in the activity.

**A. Details of activities conducted by affiliated college under clean campus mission (Swachha Bharat Abhiyan)**

<b>Swachha Bharat, People's involvement sustainability</b>						
<b>Activity</b>		<b>No of Program/ Campus/ activity organized</b>	<b>No of NSS Volunteers involved</b>			<b>No of Beneficiaries/ output</b>
			<b>Male</b>	<b>Female</b>	<b>Total</b>	
Swachha Bharat Abhiyan	Cleaning of School, Colleges	87	14789	8523	23312	116560
	Cleaning of hospital/PHCs	40	3736	2413	6149	40
	Cleaning of offices complexes, toilets and garbage of District Zonal offices	87	7585	5683	13268	435
	Cleanliness drive to clean street and common places	87	8520	4772	13292	236
	Motivation resulting into construction of toilets	87	7173	4285	11458	208
	Maintenance and repair of cremation grounds and play grounds	87	7891	4211	12102	92
Defecation Free Campaign: Motivation resulting into construction of toilets/ activity for construction of toilet		87	7585	5683	13268	1) No of Toilets of pits-421 2) No of Villages made-73 Defecation free-08 3) eneficiaries-1684
<b>Shramadan Programme</b>		<b>87</b>	<b>13120</b>	<b>4960</b>	<b>18080</b>	<b>152720</b>

The University has 87 NSS units in the affiliated colleges comprising 15000 volunteers the above activities are conducted with the involvement of NSS volunteers.

- *Clean Campaign Public awareness and cleanliness assurance program (5pm - Mahatma Gandhi Hill, NMU):*



- *Clean Campus Campaign / Shramdaan – Schools on campus:*



- *Clean Campus Campaign / Shramdaan All in the university Satellite Centre (Amalner/Dhule/Nandurbar)*



- *Clean Campus Campaign for Jalgaon city/ Shramdaan The bus stands in Jalgaon city, District General Hospital, Bhaskar Market and B. J. Market premises (3:00 pm to 6:00 pm)*



- *Clean Campus Campaign for Jalgaon city: Congratulation for success of activity by Vice chancellor, Road show by students of social work for awareness of cleanness.*



- *Clean Campus Campaign / Shramdaan (Paldhi Village and Premises)*



- *Clean Campus Campaign / Shramdaan (Administrative Building to Main Gate)*



## 7.4 Contribution to environmental awareness / protection

- **Energy conservation:**

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

- **Use of renewable energy:**

- 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.
- 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 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 the 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 section, students, teaching and administrative staff of the university.

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 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/Public libraries to promote ICT tools among school going children.

- **Any other**

i. 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.

ii. 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 :**

- i. A legacy of visionary and dynamic leadership.
- ii. Youthful, motivated and committed teaching and non-teaching staff.
- iii. Sincere, hardworking and diligent students, mostly coming from tribal and rural areas are our assets.
- iv. Innovative, applied, need based and job oriented academic programmes.
- v. Wide-ranging and high quality research, enhanced research funding and increased research publications in reputed National/International journals with high impact factor and cumulative h-index of 33 (Web of Science).
- vi. Total 43 MoUs signed with various National/International organizations.
- vii. Fair and error proof examination system is our credo.
- viii. Digitalized process of efficient online mode of working towards paperless governance.
- ix. Successful in maintaining the campus and affiliated colleges strife-free, healthy with spirit of interaction and mutuality.
- x. 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 ambiance.
- xi. Use of ICT tools to bring in efficiency, transparency and credibility in examinations, administration and finance.

- **Weaknesses :**

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

- **Opportunities :**

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

- **Challenges :**

- To break bureaucratic red-tape and traditional mind-set of the stakeholders.
- Elevation of the University at par with global standards of learning.

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

- Transportation facility from city to University and local transportation
- Open day for PG students to show answer sheet of external examinations to clear the doubts of students by the concern faculty. University is planning to start the project on pilot basis with implementation at one or two schools and then extending the same if successful.
- Question paper generation using question bank on pilot basis.
- Mobile app for the university.
- Centralised RO Plant for safe drinking water.
- Capacity building for Students/Teachers/Nonteaching employees.
- Student facilitation centres at remote locations in the jurisdiction of University.
- Establishment of Pt. Dindayal Upadhyay chair under school of thoughts.
- Establishment of State of the art Online Examination Center in campus.
- Establishment of Inclusive Education Centre for the person with disabilities.
- Establishment of Women Club and University employees.



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



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

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# ANNUAL QUALITY ASSURANCE REPORT FOR THE YEAR 2017-18

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL,  
BANGALORE



'A' Grade  
NAAC Re-accredited (3<sup>rd</sup> Cycle)

**Kavayitri Bahinabai Chaudhari  
North Maharashtra University, Jalgaon**

॥ अंतरी पेटवू ज्ञानज्योत ॥



**KAVAYITRI BAHINABAI CHAUDHARI  
NORTH MAHARASHTRA UNIVERSITY, JALGAON**  
(Formerly North Maharashtra University, Jalgaon)

## Annual Quality Assurance Report (AQAR) of the IQAC for the period of July 1, 2017 to June 30, 2018

### 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

pvc@nmu.ac.in

##### 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:

iqac@nmu.ac.in

##### 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/AQARReport2017-18.pdf

**1.6 Accreditation Details**

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

**1.7 Date of Establishment of IQAC:**

09.05.2006

**1.8 AQAR for the year:**

2017-18

**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
- viii. AQAR – 2015-16 : 01/04/2017
- ix. AQAR – 2016-17 : 11/04/2018

**1.10 Institutional Status**

University  State  Central  Deemed  Private

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

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)

Mental, Moral and Social Sciences; Fine Arts

**1.12 Name of the Affiliating University (for the Colleges)** Not Applicable

**1.13 Special status conferred by Central/ State Government--** UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University	State Govt.		
University with Potential for Excellence	-	UGC-CPE	-
DST Star Scheme	-	UGC-CE	-
UGC-Special Assistance Programme	✓	DST-FIST	✓
UGC-Innovative PG programmes	✓	World Bank-MHRD-TEQIP	✓
UGC-COP Programmes	-		

## **2. IQAC Composition and Activities**

<b>2.1 No. of Teachers</b>	08
<b>2.2 No. of Administrative/Technical staff</b>	05
<b>2.3 No. of students</b>	01
<b>2.4 No. of Management representatives</b>	-
<b>2.5 No. of Alumni</b>	-
<b>2.6 No. of any other stakeholder and Community representatives</b>	01
<b>2.7 No. of Employers/ Industrialists</b>	03
<b>2.8 No. of other External Experts</b>	-
<b>2.9 Total No. of members</b>	18
<b>2.10 No. of IQAC meetings held</b>	02
	1.11.2017 15.6.2018

**2.11 No. of meetings with various stakeholders:** No.  Faculty   
 Non-Teaching Staff  Alumni  Others

**2.12 Has IQAC received any funding from UGC during the year?** Yes  No

If yes, mention the amount

**2.13 Seminars and Conferences (only quality related)**

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

Total Nos.  International  National  State  Institution Level

(ii) Themes

**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. IQAC has been monitoring the problems encountered in the Choice Based Credit System to promote inter-disciplinary skill amongst students.
- ii. IQAC is instrumental in the sensitization of all stake holders towards quality sustenance.
- iii. IQAC supported Central Training and Placement Cell (CTPC) in promoting the campus recruitment programmers for placement of final year students in different reputed industries, soft skill development activities and industrial training of pre-final year students.
- iv. The IQAC has taken initiative to conduct result analysis for the previous examination.
- v. A questionnaire is also prepared for obtaining the students feedback on campus facilities such as Cleanness and Ambiance in Campus, Security in the Campus, Library Facility, Research Facility, General Student Amenities, Canteen Facility, Sports Facility, Transport Facility, Medical Facility, Overall Impression etc.
- vi. The IQAC, through a well-structured format, collects necessary primary data and information from all the Departments and Administrative sections of the University on Academic Programmes Offered, Students Enrolment, Faculty Strength, Infrastructure and Quality of the Programmes.
- vii. The IQAC has prepared the format for conducting feedback from teachers, employees, parents and alumni.
- viii. The University has purchased an electronic vehicle for internal transportation as per suggestion of IQAC.
- ix. The IQAC has active involvement in preparation of one year and five-year Perspective Plan of the University.

- x. Integration of digital services related to examination department and academic departments has been initiated by IQAC and accordingly academic department is directed to execute the same.
- xi. The University has established Event Management Cell as per the suggestions given by IQAC.
- xii. The IQAC of the University helped during the constitution of all the authorities/boards of the University in short span of time as per Maharashtra Public Universities Act, 2016. Accordingly, the University has also conducted all the elections of authorities like- Senate, Academic Council, Management Council and various Board of Studies with full proof, transparency and without any major dispute. The nomination on all the authorities/boards was made smoothly.
- xiii. The decisions of all authorities/bodies have been taken unanimously.

### University Statistical Cell

In order to develop database management system of the University, this cell is collecting, preserving, updating and retrieving of all vital information. This helps in report preparation.

### 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, 08 MoUs/ <b>linkages</b> have been signed by University during the assessment year, 2017-18.
Designing and implementing feedback system for all stake holders	IQAC has ensured that analysis of result and online feedback is carried out at every schools on the campus.
Setting up of centralized water purifier system for potable water on university campus	Potable water available to all student and staff of the campus.
Setting up of event Management cell	Organising various events like avishkar, yuvarang, conferences, workshops, sports activities etc. requires various procurements, setting up of various facilities, making food arrangements managing logistics of guest and participants all the requirements of all type of event are managed through event management cell.
Electric bus has been proposed for local transportation on campus to maintain pollution free environment.	The University has purchased 01 battery operated bus on pilot basis for the transportation of students on the campus. The students on the campus use this bus to reach their schools from the hostels. This will help students to save their time and energy. Considering the tremendous response to this facility.
An Academic Calendar for University programmes is prepared every year by a duly constituted Academic Calendar Committee, which includes faculty representatives from various departments and affiliated institutions. The Calendar is strictly adhered to every year. URL for Academic Calendar: <a href="http://nmu.ac.in/Portals/0/Academic%20Calendar/English%20Academic%20Cal%202017-18.pdf">http://nmu.ac.in/Portals/0/Academic%20Calendar/English%20Academic%20Cal%202017-18.pdf</a>	

**2.15 Whether the AQAR was placed in statutory body**

Yes  No

Management  Senate  Academic Council

Provide the details of the action taken.

Suggestion made by members of the IQAC, Academic Council and Management Council were noted from time to time. The suggestions were planned to be incorporated into the future activities of the IQAC

\* \* \* \* \*

## 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	04	-	03
PG	62	-	15	03
UG	11	-	04	-
Diploma	01	01	-	-
Certificate	05	01	-	-
Other (Integrated Master)	01	-	01	-
<b>Total</b>	117	06	20	06
Interdisciplinary	-	-	09	-
Innovative	-	-	-	-

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

(ii) **Pattern of programmes:**

Pattern	Number of programmes
Semester	74
Trimester	-
Annual	3

1.3 **Feedback from stakeholders\*** Alumni  Parents  Employers  Students   
(On all aspects)

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

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

- M.Sc. Electronics syllabus revised in the academic year 2017-18.
- B.Sc. (Actuarial Sciences) syllabus structure was revised and detail syllabus for first year.
- B.Sc. (Statistics) was framed.
- M.Sc. (mathematics) second year syllabus as per the need of academic programs.
- The University has adopted Choice Based Credit System, the syllabus was revised accordingly.

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

Nil

\* \* \* \*

**Criterion – II****2. Teaching, Learning and Evaluation****2.1 Total No. of permanent faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
85	54	23	08	05

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

76
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**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
00	07	00	04	00	05	53*	05	53*	21

\* = Contract

**2.4 No. of Guest and Visiting faculty and Temporary faculty:**

28	12	19
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**2.5 Faculty participation in conferences and symposia:**

No. of Faculty	International level	National level	State level
Attended Seminars/	11	67	27
Presented papers	22	65	6
Resource Persons	5	20	12

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

- ICT enabled seminar hall/classes of various capacity are available in school/institute used for presentation of conference/workshop/invited lectures as well as regular lectures, Seminar etc.
- LCD projector facility made available for classroom and laboratories.
- As per revised syllabus, some new books were procured for departmental library.
- Industrial projects were offered to M.Sc. (Statistics) students.
- School of Mathematical Science Student's version of SAS software was installed on PCs and training was provided to the Students.
- Online lectures were made available for students.
- The lectures of past students were arranged for students
- Teachers were encouraged to attend orientation and refresher course/FDP/Workshops
- Class lecture, Field work and survey, Group discussion, Case Studies, Paper presentation and seminar, Guest lectures, Industrial visits, Mock interviews, Role play, Book journals and articles reviews, Business competitions and Quiz etc are regularly conducted.
- Organised workshops on Play and Learn technique for M.Ed. students.
- Various Important day were celebrated in the Schools for update knowledge about history, motivation and to learn organization of the program.
- Online blogs have been developed by the faculty members.

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

302
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2.8 Examination/Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple-Choice Questions)

- End to end use of ICT for reforms in examination are implemented module wise for each step :

- ❖ Filling of Examination forms.
- ❖ Generation of Hall ticket.
- ❖ All types of appointment orders [i.e. Examiners, Paper setters, Senior Supervisor and Squad etc.]
- ❖ Declaration of result.
- ❖ Availabilities of Photocopies online in student's login.
- ❖ Submission of form for degree certificates with online payment.
- ❖ Verification of Degree Certificate.
- ❖ Dematting of Degree Certificates
- ❖ Online Applications to obtained various documents from examinations section.

- Cashless transaction in the University for above ICT based module:

Examination form, Redressal / Verification / Transcript / Degree verification and Convocation form fill up through online payment gateway.

- Commencements of winter 2018 Examinations:

The winter 2018 Examinations is to be commences from 29<sup>th</sup> October 2018 and all the necessary arrangement for conduction of this examinations is going on in a time frame manner.

- Secure Delivery of Examination Papers:

Online Question Papers are delivered phase wise from summer examination 2013 and now it is implemented successfully for Engineering, Pharmacy, Law, Education and Management and all Programs.

For the **March 2018 examinations 1616 questions papers** were delivered online through secure delivery of Question papers.

- Digital Scanning and Onscreen evaluation was implemented from winter examination 2015 for all Faculties:

- ❖ Humanities except BA & MA
- ❖ Science and Technology except M.Sc.
- ❖ Commerce and Management.
- ❖ Inter-disciplinary studies.

The university has adopted On-Screen Evaluation System for all the UG courses and few PG courses. This system has reduced the overall time for the evaluation and the revaluation process became faster. For the **March 2018 examinations 5, 14,491 Answer books** were scan and Onscreen evaluation was done successfully.

- **Declaration of Results of Various examinations:**

- ❖ As per provision, Section 89 of Maharashtra Public Universities Act, 2016 the result of summer 2018 examinations is declared within the prescribed time.
- ❖ Out of Total no. of examinations 842, result of 771 (92%) examinations are declared within 30 days and result of 71(8%) examination declared within 30-45 days.

- **Grievances Redressal Mechanism/Accountability:**

- ❖ Redressal/Verification procedure as per Ordinance O.134 and O.147.
- ❖ Procedure of Redressal (Re-valuation) were completed within one week for the March 2018 examinations, so that students have got the opportunity for next year admission.

- **Convocation /Ph.D. Degree:**

Procedure of 27<sup>th</sup> Convocation is started and in progress.

- **Implementation of Recommendations in Agarwal Committee Report:**

Out of 43 recommendations of the Agarwal Committee, 36 university related recommendations have been implemented by this university.

As per the report submitted to Hon'ble Chancellor office by Dr. Dinesh Bhonde regarding review of implementation status of Agarwal Committee, this university is on **top most position** amongst the state universities in Maharashtra.

- **Preparation of Question Banks and Question Paper Setting:**

Taking into consideration of recommendations of Agrawal Committee, the University under the initiative of Vice-Chancellor has started new programme of preparation of Question Banks and Question Paper Setting in the School of Physical Sciences and School of Life Sciences. Under this programme, a question bank is prepared having 700 to 1000 questions per subject. These question banks were prepared considering the NET/SET examinations pattern. The Examination Section generate the question papers randomly selecting the questions with the help of computer.

- **Open Day Programme:**

The University has started an innovative '**Open Day Programme**' on pilot basis in the School of Physical Sciences and School of Life Sciences in the academic year 2017-18. On this day, the students have been given their final examination answer books evaluated by the teachers for self-assessment. The teacher of concerned subject solves the queries/grievances regarding evaluation of the answer books on the spot under this programme. This programme will be implemented in other schools' step by step in future. This University is first amongst the Universities of Maharashtra to implement such type of innovative pilot project.

**2.9 No. of faculty members involved in curriculum Restructuring/revision/syllabus development**

42	36	34
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**as member of Board of Study/Faculty/Curriculum Development workshop**

**2.10 Average percentage of attendance of students**

80 %
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**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)	28	10.71	21.42	28.57	10.71	-
M.Sc. (Biochemistry)	26	03.84	38.46	30.76	03.84	-
M.Sc. (Biotechnology)	26	03.84	38.46	30.76	03.84	-
M.Sc. Chemistry (Polymer Chemistry)	17	29.41	52.94	17.64	-	-
M.Sc. Chemistry (Pesticides and Agrochemicals)	15	06.66	46.66	06.66	40.00	-
M.Sc. Chemistry (Industrial Chemistry)	17	64.70	23.52	05.88	11.76	-
M.Sc. Chemistry (Organic Chemistry)	27	66.66	22.22	11.11	-	-
M.Sc. Chemistry (Physical Chemistry)	10	50.00	30.00	20.00	-	-
M.Sc. Chemistry (Analytical Chemistry)	17	17.64	64.70	17.64	-	-
M. Sc. Mathematics (Computational Mathematics)	60	23.33	30.00	18.33	-	-
M.Sc. Statistics (Industrial Statistics)	58	01.72	10.34	17.24	25.86	05.17
B.Sc. (Actuarial Science)	13	-	15.38	38.46	23.07	07.69
M. Sc. Physics (Materials Science)	27	40.74	25.92	03.70	-	-
M. Sc. Physics (Energy Studies)	26	15.38	46.15	19.23	19.23	-
M. Sc. Electronics	21	-	09.52	14.28	28.57	-
M. Tech. (VLSI Technology)	3	-	33.33	33.33	-	-
M.Sc. (Computer Science)	62	-	12.90	33.87	24.19	-
M.Sc.(Information Technology)	51	-	03.92	09.80	09.80	01.92
M.C.A.	65	03.07	18.46	16.92	18.46	06.15
M. Sc.(Environmental Sciences)	16	-	25.00	50.00	18.25	-
M. Sc.(Applied Geology)	19	10.52	47.36	42.10	-	-
M.A./M. Sc.(Applied Geography)	8	-	37.50	50.00	12.50	-
M.Tech. (Environmental Science and Technology)	16	-	81.25	12.50	-	-
M.A. (English)	20	05.00	40.00	40.00	15.00	-
M.A. (Hindi)	7	14.28	42.85	14.28	14.28	-
M.A. (Marathi)	10	20.00	50.00	30.00	-	-
M.A. Music (Tabla)	1	-	100.00	-	-	-
M.A. Music (Vocal)	5	-	-	60.00	20.00	20.00
M.A. (Defense & Strategic Studies)	7	14.28	71.42	14.28	-	-
M.A. (Political Science)	10	-	20.00	60.00	20.00	-
M.A. (Economics)	26	03.84	38.46	30.76	23.07	-
M.A. (Sociology)	10	10.00	50.00	20.00	10.00	10.00
M.A. (History)	17	41.17	23.52	35.29	-	-
M.A. (Dr. Ambedkar Thoughts)	15	-	33.33	13.33	26.66	13.33
M.A. (Women's Studies)	05	-	20.00	40.00	20.00	-
M.A. (Psychology)	9	11.11	44.44	33.33	11.11	-
M.Ed.	14	14.28	14.28	57.14	14.28	-
M.S.W	40	-	22.50	65.00	12.50	-

MA M C J (CBCS)	25	04.00	32.00	28.00	24.00	12.00
M.B.A. (Master of Business Admin.)	60	01.66	30.00	45.00	16.66	06.66
B.B.M. (Bachelor of Business Management)	39	02.56	35.89	28.20	25.64	-
B. Tech. (Chemical Engineering)	67	-	89.55	05.97	04.47	-
B. Tech. (Paint Technology)	17	-	29.41	58.82	05.88	05.88
B. Tech. (Oil, Fats and Waxes Technology)	13	-	30.76	69.23	-	-
B. Tech. (Plastic Technology)	19	26.31	42.10	21.05	05.26	05.26
B. Tech. (Food Technology)	15	-	46.66	40.00	-	-
M. Tech. (Chemical Engineering)	15	26.66	53.33	06.66	-	-
M. Tech. (Polymer Technology)	5	-	60.00	40.00	-	-
M. Tech. (Oil, Oleo chemicals and Surfactant Technology)	4	-	25.00	25.00	50.00	-
M. Tech. (Nano-Science and Technology)	3	-	33.33	33.33	-	-
M. Tech. (Food and Fermentation Technology)	18	5.55	50.00	38.88	-	-
M. Tech. (Paint Technology)	11	-	36.36	45.45	-	09.09

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

The IQAC established in the year 2006 has evolved appropriate mechanism and procedure to ensure efficient, effective and progressive performance of academic and administrative tasks; relevance and quality of the academic programmes; maximization and integrity of teaching, learning, research, extension and consultancy opportunities; credibility of evaluation procedures, adequacy and maintenance and proper allocation of support structure and services.

The University has adopted the following mechanisms / processes for internal quality checks.

- i. The IQAC has ensured that teaching-learning and extension process is made student centric by promoting students to be involved in overall process.
- ii. Syllabi are revised as per the inputs received from stake holders to incorporate industry needs as per current market scenario and soft skill-based contents.
- 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 industrial tours, Industrial trainings.
- iv. Finishing School concept is introduced to enrich soft and social skill.
- v. Digitally equipped technology Enabled Classrooms are introduced to promote ICT based teaching and learning.
- vi. IQAC has ensured that analysis of result and online feedback is carried out at every schools in the campus.
- vii. Communications Skills, Spoken English Workshops were organized through Equal Opportunities Cell.
- viii. Exhaustive and extensive efforts towards placement of the students in Industry has been taken by the Central Training and Placement Cell (CTPC).

- ix. Students' feedback on various academic programmes is received to understand and evaluate their impact on and usefulness to students.
- x. The IQAC has constituted an Academic and Administrative Audit Committee with external members to ascertain the strength and weakness of the university and affiliated colleges and institutes.
- xi. The major objectives of AAAC are as follows:
  - (a) To understand the existing system and assess the strengths and weaknesses of the Departments and Administrative Units and suggest the methods for improvement for overcoming the weaknesses while teaching, learning and evaluation, student support and progression.
  - (b) To ascertain whether the departments/ centres are functioning efficiently and effectively with proven records of capacity building, research projects and publications and extension over a period or not.
  - (c) To evaluate the optimum utilization of financial and other resources, issues concerning with leadership and organization, functional autonomy and financial management.
  - (d) To suggest the methods of improvement for maintaining quality in higher education.

### 2.13 Initiatives undertaken towards faculty development:

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	8
UGC – Faculty Improvement Programme/QIP	2
HRD programmes	1
Orientation programmes	0
Faculty exchange programme	1
Staff training conducted by the university	5
Staff training conducted by other institutions	6
Summer / Winter schools, Workshops, etc.	30
Others – PDF	4

- The School of Physical Sciences has encouraged faculty member to participate in development programmes.
- Strongly encouraged to participate in IPR activities.

- **CABCIN:**

University has signed a Capacity Building Transnational Co-operation Project, Erasmus + CABCIN. The University has established **Capacity Buildings Centre** on the campus for sustainable solution to raise the standards of teaching staff in Indian HEI's to build strong relations with European program.

The foreign universities under this project are Wroclaw University of Science & Technology, Poland, Technical University of Košice, Slovakia, Universidade Nova de Lisboa, Portugal, Gent University, Belgium, Frederick University, Cyprus. And the Indian universities are Parul University, Vadodara, Amity University, Haryana, RK University, Rajkot, SAL Institute of Technology & Engineering Research, Ahmedabad and North Maharashtra University. (Only State Govt. University Participated for Trainers Training Program).

Till this date, total 06 workshops were organized under CABGIN for identified teachers as trainers, and 03 workshops for 45 teachers has been conducted by these trained trainers and the program will remain continue in future also. Total 05 teachers from University campus have been identified as a trainer for capacity building of teachers of affiliated colleges. Recently, these teachers will visit 05 European countries for training the teachers under this scheme.

#### 2.14 Details of Administrative and Technical staff

<b>Category</b>	<b>Number of Permanent Employees</b>	<b>Number of Vacant Positions</b>	<b>Number of permanent positions filled during the Year</b>	<b>Number of positions filled temporarily</b>
Administrative Staff	401	58	-	-
Technical Staff	106	17	-	12

\* \* \* \* \*

## 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.
- 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.
- Support of industry for execution of research projects of PG students.
- The University provides research grants to the tune of Rs.2, 00, 000/- each to the faculty members of affiliated colleges through its own funds under the Vice-Chancellor's Research Motivation Scheme (VCRMS), which helps them to apply to various funding agencies for major research projects. In addition to this, the University provides financial assistance to promote the teachers to file patents under the scheme of Vice-Chancellor's Patents Motivation Scheme (VCPMS).
- The teachers of University Schools/Institute and affiliated colleges are encouraged to attend the National/ International Conferences/Seminars/Workshops held in various places for the development of research. The financial assistance is also provided to attend National/ International Conferences/Seminars/Workshops.
- The University provides grants to the affiliated colleges for the organization of Conferences/Workshops/Seminars to develop research activities at college level.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	9	28	8	5
Outlay in Rs in Lakhs	59.24	316.74	123.63	393

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	18	3	-	-
Outlay in Rs in Lakhs	58.725	2.10	-	-

\* UGC/TEQIP.

**3.4 Details on research publications:**

	<b>International</b>	<b>National</b>	<b>Others</b>
Peer Review Journals	166	34	10
Non-Peer Review Journals	1	5	-
e-Journals	4	7	-
Conference proceedings	22	12	4

**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:**

<b>Nature of the Project</b>	<b>Duration Year</b>	<b>Name of the funding Agency</b>	<b>Total grant Sanctioned (Rs. in Lakhs)</b>	<b>Received (Rs. in Lakhs)</b>
Major projects	17-18	DST, UGC, CSIR, BRNS, ICSSR, RUSA	731.68	153.93
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	17-18	Heubach Color Pvt.Ltd. VVF India	4.50	-
Projects sponsored by the University	17-19	NMU, TEQIP-III	700.57	0.29
Students research projects <i>(other than compulsory by the University)</i>	-	-	-	-
Any other (Specify)	-	Consultancy, RMVS, Mumbai	8.6	14.01
<b>Total</b>			<b>1445.35</b>	<b>168.23</b>

**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	1	10		8
Sponsoring agencies	TEQIP-III	NMU, UGC, ICSSR, TEQIP-III		NMU

**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	5
	Granted	1
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
11	6	8	2	9

**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  State level   
National level  International level

**3.22 No. of students participated in NCC events:**

University level  State level   
National level  International level

**3.23 No. of Awards won in NSS:**

University level  State level   
National level  International level

**3.24 No. of Awards won in NCC:**

University level  State level   
National level  International level

**3.25 No. of Extension activities organized**

University forum  College forum   
NCC  NSS  Any other

**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:

- Plantation
- Swacha Bharat Abhiyan
- Green Initiatives
- Celebration of National Mathematics day-2017
- Celebration of National Science Day 2018
- State level program on 'Actuarial Science'
- National level conference on "Algebra, Analysis and Number Theory"

\* \* \* \* \*

## 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	104	-	UGC/University	104
Laboratories	120	-	UGC/University/Rusa	120
Seminar Halls	20	-	UGC/University	20
No. of important equipment purchased ( $\geq$ Rs. 1-0 lakh) during the current year.	324	-	UGC/DST/TEQIP/ DBT/University/Rusa	324
Value of the equipment purchased during the year (Rs. in Lakhs)		34.45 lacs		

#### • Online Examination Center:

The University has established **Online Examination Center** in the year 2017, for the students. In this center, a rack server with 236 computer nodes are connected in structured secured network. The prime moto of this centre is to create a central facility for our students to introduce them to online examination culture for practicing various competitive examinations like – NET/SET, UPSC, MPSC, Banking, CAT etc. The infrastructure of this centre would also be utilized for conducting different entrance examinations for admissions as well as recruitment.

The centre has carried out following activities so far –

- India Skill Report 2018, Wheebox employability skills test for 815 UG/PG students of the campus
- Youth for Work test, AICTE in collaboration with Youth 4 work, for 128 students
- ERASMUS+ :CABCIN Train the trainers programme workshop for 16 teachers, total 04 workshops
- Workshop on ‘Application of SPSS’ for Mental, Moral and Social Science, Commerce and Management faculty, total participants 91
- Pre-PhD Course workshop on SPSS for 128 research scholars
- Online interview of 25 students for S-5 infotech company, organized by Central Training and Placement Cell (CTPC) of the university
- Wipro Company’s Online Interview carried out for 35 PG students by CTPC of the university.
- The NMIMS sponsored BADM championship exam for PG Mathematics students.
- Online registration process for National Academic Depository (NAD) of all UG/PG students of the campus.

#### 4.2 Computerization of administration and library:

- **Library automation:** A separate web page is available 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:** LAN connectivity is maintained through OFC (optical fiber cable) and UTP cable to Schools/Institute, Library, Hostel, Guest House, Shishak Bhavan, Health Care, administrative building etc. on the campus.
  - ★ The 1 Gbps connectivity under NMEICT is available on the campus.
  - ★ Number of nodes/computers with internet facility Total 1500+ nodes are available with internet connectivity in the campus.
  - ★ Installation of campus wide WIFI facilities Under RUSA is in progress.

#### 4.3 Library services: (Rs. in lakhs):

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text/Reference Books	74680	838	4139	148	78819	986
Reference Books	4395	8.5	248	12.54	4643	23.04
e-Books	-	-	-	-	-	-
Journals	90	5.58	-	-	90	5.58
e-Journals	25000+	UGC INBLIBNE T	-	-	25000+	UGC INBLIBN ET
Digital Database	04	40.48	04 Renewal	14.27	04	54.75
CD & Video	750	Received with Book	100	Received with Book	850	Received with Book
Others (specify)	-	-	-	-	-	-

#### 4.4 Technology up gradation (overall):

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others Wi-fi Lan
Existing	1572	23	1 Gbps 2 Mbps	09	02	373	1199	02
Added	230	08	-	-	-	09	07	In progress
Total	1802	31	1 Gbps 2 Mbps	09	02	382	1206	02

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

1. User Education Orientation Programme was conducted by the Central Library of the University for the students of all schools.
2. Successfully implemented Online Admission process for M.Sc. Courses.
3. Imported training to all HoD's and their staff for Online Admission process.
4. Connected new Buildings with the Campus Network.

**4.6 Amount spent on maintenance Rs. in lakhs:**

i) ICT	Rs.62.75 /- lacs
ii) Campus Infrastructure and facilities	Rs.43.91/- lacs
iii) Equipment	Rs.35.62/- lacs
iv) Others	Rs. 414.38/- lacs
<b>Total:</b>	Rs. 556.66/- lacs

\* \* \* \* \*

## 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](http://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 to students.
- **Finishing School:** This concept has been recently implemented by the University in tune with MHRD-TEQIP norms for overall development of the students. Certificate Courses such as Industrial Safety and Management are devised and implemented to provide awareness on safety and security aspects. Students are encouraged to register for 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 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](mailto:vc.helpline@gmail.com)) to solve their grievances.

Online examination and e-suvidha centers: (The students facilitation centre (Vidyarthi Suvidha Kendra) are proposed to establish in Aug-Sept-2017- Amalner, Nandurbar, Faizpur, Chalisgaon.)

- **Vidyarthi Sanwad Parva (Vice-Chancellor's Interactive Festival)**

The Vice Chancellor has reserved half day for the students on the first and third Monday of every month for resolving the problems of students under the initiative of Vidyarthi Samwad Parva. Under this activity, the problems of 162 students have been resolved by the Hon’ble Vice-Chancellor on the spot so far during the period.

- **Free and Eco-friendly transportation facility for students on the campus:**

The University has purchased 01 battery operated bus on pilot basis for the transportation of students on the campus. The students on the campus use this bus to reach their schools from the hostels. This will help students to save their time and energy. Considering the tremendous response to this facility, the University is planning to purchase more buses.

- **50% subsidy for purchase of BUS passes for students:**

The University provides 50% subsidy to the students towards the purchase of ST BUS passes.

- **Implementation of clean and hygienic drinking water project (Reverse Osmosis) for students:**

The University has established R.O. plant on the campus with the technological help of NCL, Pune. For this purpose, 05 employees were trained at NCL, Pune. These employees supply clean and hygienic drinking water to the students of hostels every day. The capacity of this plant will be increased, and clean and hygienic drinking water will be provided to all schools/institute on the campus in the future.

- **Establishment of Yoga Guidance Center:**

This university has established Yoga Guidance Center in Dr. APJ Abdul Kalam Bhavan on 21<sup>st</sup> May 2017 on the occasion of International Yoga Day. This University has also organized two months Yoga Shibir for the girl students residing in Hostel. More than 150 girl students participated and yoga shibir was concluded with medical check-up of each student. In addition to this, the University is planning to start training programme on Aerobic for students.

## 5.2 Efforts made by the institution for tracking the progression:

IQAC takes efforts to collect the progression of the Alumni by the feedback received every year through the Alumni meet conducted by the schools.

The administrative organization of the institution is such that powers and responsibilities are clearly assigned to designated bodies and individuals. The organization is designed to facilitate tasks related to every aspect of the institution's goals and every segment of its constituencies. Management techniques and technologies are used, to the extent possible, for efficient running of every administrative and academic task. The administrative and academic units of the institution make optimal and innovative use of available facilities. Academic and administrative planning in the institution more hand in hand. The institution has effective mechanism to monitor the functioning and progress of it academic and administrative units. All affected constituencies of the institution have access to relevant information pertaining to their professional functions and welfare. The institution has adequate infrastructural facilities to run the educational programmes and administrative functions efficiency. The growth and maintenance of the 34 infrastructures keep pace with the academic growth of the institution. The infrastructure ensures a clean and efficient environment.

### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
214	1614	198	40

(b) No. of students outside the state

(c) No. of international students

Men	No	%	Women	No	%
	8	100		-	-

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1597	230	124	1271	3	3232	628	220	127	1255	02	2232

Demand ratio: 1:4

Dropout %: 2%

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

The IQAC has monitored and improved the entire operations of the institutions and assured every stakeholder connected with higher education, namely students, faculty members, staff, parents, funding agencies and society in general and the institutions accountability in particular, for its own quality and probity.

No. of student beneficiaries

#### 5.5 No. of students qualified in these examinations

NET	<input type="text" value="12"/>	SET/SLET	<input type="text" value="22"/>	GATE	<input type="text" value="13"/>	CAT	<input type="text" value="-"/>
IAS/IPS etc.	<input type="text" value="-"/>	State PSC	<input type="text" value="2"/>	UPSC	<input type="text" value="1"/>	MPSC	<input type="text" value=""/>
Other	<input type="text" value="4"/>						

#### 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.
- Training is 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.
- B.Sc. Actuarial Sciences students are motivated to get membership of Institute of Actuaries of India and appear for paper round core technical series.
- Training for Personal Interview and Group discussion were given to the students.
- The counselling was given to the weak student through Finishing School.

## 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
<b>Number of Organizations Visited</b>	<b>Number of Students Participated</b>	<b>Number of Students Placed</b>	<b>Number of Students Placed</b>
24	373	69	75

## 5.8 Details of gender sensitization programmes:

1. Certificate course in gender sensitisation is conducted by Women's studies centre at University campus and Mahatma Fule M.S.W and Matoshree Zaveriben Motilal Turkhya B.S.W College during the year 2017-18

Total enrolled students and certification issued: 15

2. Program on Krantijyoti Savitribai Phule Jayanti was organised on 3<sup>rd</sup> Jan. 2018 chief Guest Dr. Mukta Mahajan, chairman Dr. Madhulika Sonawane Program Coordinator Dr. Vishranti Munjewar students of school of Social Sciences were present.
3. Meetings were conducted and KBCNMU Manasvini group is being established as per the initiative of Hon'ble Vice Chancellor. The Women's Studies Centre is actively participating in organising program and WhatsApp group etc.

## 5.9 Students Activities

- Event organised "Manthan 2018" IT quiz & poster presentation Competition for computer sciences on the occasion of national science day in Last Week of February 2018.
- Conducted Online Spoken Tutorial Courses for MCA and M.Sc. students supported by IIT Mumbai.
- Every year senior student organizes Fresher Party for welcoming the first-year new entrants students. This program consists of cultural activities like solo and group dance, singing, play etc.
- Celebrated Teachers day in every School/Institute.
- Celebrated Youth Day in every School/Institute.
- Celebrated Woman's Day in every School/Institute.

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

State/ University level	<input type="text" value="6"/>	National level	<input type="text"/>	International level	<input type="text" value="-"/>
No. of students participated in cultural events					
State/ University level	<input type="text" value="9"/>	National level	<input type="text" value="--"/>	International level	<input type="text" value="-"/>

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

Sports: State/ University level	<input type="text" value="1"/>	National level	<input type="text"/>	International level	<input type="text" value="-"/>
Cultural: State/ University level	<input type="text" value="1"/>	National level	<input type="text" value="-"/>	International level	<input type="text"/>

**5.10 Scholarships and Financial Support**

	<b>Number of students</b>	<b>Amount (Rs. In Lakhs)</b>
Financial support from institution	2217	75,35,500/-
Financial support from government	1817	2,45,66341/-
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

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

**5.11 Student organised / initiatives:**

Fairs: State/ University level	<input type="text" value="2"/>	National level	<input type="text" value="-"/>	International level	<input type="text" value="-"/>
Exhibition: State/ University level	<input type="text" value="5"/>	National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

**5.12 No. of social initiatives undertaken by the students****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/NKN 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 last 9 years and Business Intelligence tool is used for effective decision making.
  - vi. Affiliation and Research Section 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.
- 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 is done and accordingly implementation of corrective measures is incorporated in the syllabus.

#### 6.3.2 Teaching and Learning

To assure the better utilization of human resources and the infrastructural resources available for teaching, learning and research in interdisciplinary areas, the university has adopted concept of schools.

- i. Digitally equipped classrooms are available in all Schools/Institute with high quality LCD projector, LCD TV, digital podium, interactive pad and other accessories.
- ii. Computer laboratories with high speed Internet connectivity are available to the students in all Schools/Institute. The resource material from various portals like nptel, spoken tutorials is available to students and faculty.
- iii. Communication skills, group discussion practices, and phonetics/accent improvement is carried out through language laboratories.
- iv. The faculty members were sent to various Pedagogical programmes/workshops based on Training Needs Analysis (TNA).

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. The Maharashtra Public University Act. 2016 was implected from 1st March 2017.

### 6.3.3 Examination and Evaluation :

- **End to End use of ICT for reforms in examination are implemented module wise for in each step :**
  - ❖ Filling of Examination forms.
  - ❖ Generation of Hall ticket.
  - ❖ All types of appointment orders [i.e. Examiners, Paper setters, Senior Supervisor and Squad etc.]
  - ❖ Declaration of result.
  - ❖ Availabilities of Photocopies online in student's login.
  - ❖ Submission of form for degree certificates with online payment.
  - ❖ Degree Verification.
  - ❖ Dematting of Degree Certificates
  - ❖ Online Applications to obtained various documents from examinations section.
- **Cashless transaction in the University for above ICT based module:**

Examination form, Redressal / Verification / Transcript / Degree verification and Convocation form fill up through online payment gateway.
- **Secure Delivery of Examination Papers:**

Online Question Papers are delivered phase wise from summer examination 2013 and now it is implemented successfully for Engineering, Pharmacy, Law, Education and Management and All PG courses.

For the **March 2018 examinations 1616 questions papers** were delivered online through secure delivery of Question papers.
- **Digital Scanning and Onscreen evaluation was implemented from winter examination 2018 for all Faculties:**

The university has adopted On-Screen Evaluation System for all the UG courses and few PG courses. This system has reduced the overall time for the evaluation and the reevaluation process became faster. For the **March 2018 examinations, 14,491 Answer books** were scan and Onscreen evaluation was done successfully.
- **Declaration of Results of Various examinations:**
  - ❖ As per provision, Section 89 of Maharashtra Public Universities Act, 2016 the result of summer 2018 examinations is declared within the prescribed time.
  - ❖ Out of Total no. of examinations 842, result of 771 (92%) examinations are declared within 30 days and result of 71(8%) examination declared within 30-45 days.
  - ❖ Also, this university is continuously declaring the results of last five years examinations within the prescribed time. (Encl. Statistical Information).

- **Grievances Redressal Mechanism/Accountability:**
  - ❖ Redressal/Verification procedure as per Ordinance O.134 and O.147.
  - ❖ Procedure of Redressal (Re-valuation) were completed within one week for the March 2018 examinations, so that students have got the opportunity for next year admission.
- **Convocation /Ph.D. Degree:**

The 27<sup>th</sup> Convocation was conducted by the University successfully.
- **Implementation of Recommendations in Agarwal Committee Report:**

Out of 43 recommendations of the Agarwal Committee, the University has implemented 36 recommendations related to the University working.
- **Preparation of Question Banks and Question Paper Setting:**

Taking into consideration of recommendations of Agrawal Committee, the University under the initiative of Vice-Chancellor has started new programme of preparation of Question Banks and Question Paper Setting in the School of Physical Sciences and School of Life Sciences. Under this programme, a question bank is prepared having 700 to 1000 questions per subject. These question banks were prepared considering the NET/SET examinations pattern. The Examination Section generate the question papers randomly selecting the questions with the help of computer.
- **Open Day Programme:**

The University has started an innovative ‘**Open Day Programme**’ on pilot basis in the School of Physical Sciences and School of Life Sciences in the academic year 2017-18. On this day, the students have been given their final examination answer books evaluated by the teachers for self-assessment. The teacher of concerned subject solves the queries/grievances regarding evaluation of the answer books on the spot under this programme. This programme will be implemented in other school’s step by step in future. The KBC North Maharashtra University, Jalgaon is first amongst the Universities of Maharashtra to implement such type of innovative pilot project.

#### 6.3.4 Research and Development

- i. 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.
- ii. Encouraged faculty members to write research proposals for the submission of various funding agencies. The faculty members of the University have successfully completed 09 Major and 18 Minor research projects amounting to Rs. 59.24 Lakhs and Rs. 58.72 Lakhs, respectively and 36 Major and 03 Minor research projects to the tune of Rs. 440.37 Lakhs and Rs. 2.10 Lakhs, respectively were sanctioned/ ongoing by various Government funding agencies during the year.
- iii. Encouraged faculty members to file patents with financial support. As a result, 05 patents have been filed and 01 patents have been granted during the year.

- iv. Encouraging faculty members to attend and/or organize seminars/conferences/workshops as well as to present research papers in National/International conferences.
- v. Research and Development Awards were given 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, e-books, 04 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. Training workshops for SC/ST students are organized by the Equal Opportunities Cell.
- iii. The University facilitates Remedial Coaching and NET/SET Coaching for SC/ST/OBC (non-creamy layer) and Minorities through UGC sponsored scheme.
- iv. Dr. Babasaheb Ambedkar Competitive Examination Training Centre has been established and organizes coaching of Competitive Examinations for SC/ST/OBC and Minority students.
- v. Deputation of Faculty members are encouraged for participation in orientation/refresher courses/faculty development programmes.
- vi. The University is providing loan on minimum interest for the purchase of house, vehicle and computer for teaching and non-teaching staff.

- vii. The stakeholders are encouraged by felicitation through the best teacher, best researcher, best principal, best non-teaching staff of University/affiliated colleges and best college awards on the occasion of Foundation Day of University every year.

### **6.3.7 Faculty and Staff recruitment:**

The career advancement scheme is implemented regularly as per the norms by UGC and state government. 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 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:**

#### **Process of admission:**

- The students are admitted to MCA, MBA, B.Tech. course through Common Entrance Test (CET) conducted by DTE, Mumbai. Online admission process is adopted by for admission of these course by DTE.
- 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 centralised online admission for M.Sc. /M.A.(Geography) is developed by university computer centre. The portal receives online applications from students seeking admission to these courses. The Applications were verified at respective application receipt centres (ARCs). The candidates need to fill option form for the choice. The system allots college to the candidate as per merit. The State Government Reservation Policy is strictly followed during allotment of seats.
- A total of 4090 online applications were received for 51 courses in University Campus and affiliated colleges. Total 1491 students admitted to these courses in CAP rounds in academic year 2017-18.

**6.4 Welfare schemes for**

Teaching	Yes
Non-teaching	Yes
Students	Yes

**6.5 Total corpus fund generated**

Rs. 393.81 /-

**6.6 Whether annual financial audit has been done** Yes  No 

This University has complied the provision mentioned under section 135 (3) of Maharashtra Public Universities Act, 2016 by submitting the auditor's report to the Senate within 06 months from the closing of financial year 2017-18.

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority*
Academic	No	Nil	No	Nil
Administrative	No	Nil	No	Nil

- The University has started second cycle of conducting academic audit of all affiliated colleges in the academic year 2018-19.
- The process of conducting academic audit of all the University schools/institute has been initiated and will be conducted in the year 2019.
- The University has decided to conduct the administrative audit of the administrative section of the University. For this purpose, the University has already constituted the committee. The committee will visit the academic section of the University very soon and submit their report to the University.

**6.8 Does the University declares results within 30 days?**For UG Programmes Yes  No For PG Programmes Yes  No **6.9 What efforts are made by the University Examination Reforms?**

- **Preparation of Question Banks and Question Paper Setting:**

Taking into consideration of recommendations of Agrawal Committee, the University under the initiative of Vice-Chancellor has started new programme of preparation of Question Banks and Question Paper Setting in the School of Physical Sciences and School of Life Sciences. Under this programme, a question bank is prepared having 700 to 1000 questions per subject. These question banks were prepared considering the NET/SET examinations pattern. The Examination Section generate the question papers randomly selecting the questions with the help of computer.

- **Open Day Programme:**

The University has started an innovative ‘**Open Day Programme**’ on pilot basis in the School of Physical Sciences and School of Life Sciences in the academic year 2017-18. On this day, the students have been given their final examination answer books evaluated by the teachers for self-assessment. The teacher of concerned subject solves the queries/grievances regarding evaluation of the answer books on the spot under this programme. This programme will be implemented in other schools step by step in future. The KBCNMU, Jalgaon is first amongst the Universities of Maharashtra to implement such type of innovative pilot project.

- **Declaration of Examination Schedule:**

- ❖ Examination Schedule is prepared as per the provision of MPUA 2016 Section 89.
- ❖ As per Examination Schedule the various activities of Examination and Evaluation Sections are carried out in time frame manner using ICT, starting from Preparation of Time Table, Preparation of Prefilled Exam forms, Submission of Examination forms, Sending online appointment to teachers for various work. Conduction of Examinations, Declaration of Results, Distribution of soft copy of answer books (Photocopy) to students and challenge to valuation, receiving online application for Convocation.

- **Random visit of Vice-Chancellor to Practical Examination Center:**

The Vice-Chancellor has visited the Practical Examination Center randomly in the jurisdiction of the University to observe the transparency and avoid mal-practices in the practical examinations.

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

The university has encouraged colleges to take autonomous status. Total 02 colleges have been granted autonomous status so far.

#### **6.11 Activities and support from the Alumni Association:**

The alumni meet is conducted regularly by the school on the University Campus. The interaction of alumni with the students helps them for training and placement.

#### **6.12 Activities and support from the Parent – Teacher Association:**

Once in a year Parent-Teacher meeting is conducted by some of the schools. The views/feedback obtained from the parents during interactions is taken into account to design, upgradation and redesign of curricula.

#### **6.13 Development programmes for support staff:**

- The non-teaching staff is motivated for research by including in the ‘**Avishkar**’ research festival cum competition as a separate participation category with special and attractive prizes.
- The non-teaching staff is motivated to submit research proposal on various research problems and financial assistance is made available to them under VCRMS. (Vice-Chancellor Research Motivation Scheme).

- iii. Every year on the occasion of Foundation Day of the University best non-teaching staff of the University/affiliated colleges are felicitated.

**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 provides 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 the University. Around 69 bunds (Small Bandharas) and 02 Check Dams have been constructed to practice watershed management and water harvesting.
- The University has purchased 01 battery operated bus on pilot basis for internal transportation of students on the campus. The students on the campus use this bus to reach their schools from the hostels. This will help students to save their time and energy. Considering the tremendous response to this facility, the University is planning to purchase more buses.
- Clean campus mission has been regularly carried out by students, teachers and nonteaching staff under the Swachh Bharat Abhiyan.
- Tree plantation is carried out on campus every year to increase the eco friendliness.

\* \* \* \* \*

## 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.**

- **Free and Eco-friendly transportation facility for students on the campus:**

The University has purchased 01 battery operated bus on pilot basis for the transportation of students on the campus. The students on the campus use this bus to reach their schools from the hostels. This will help students to save their time and energy. Considering the tremendous response to this facility, the University is planning to purchase more buses.

- **50% subsidy for purchase of BUS passes for students:**

The University provides 50% subsidy to the students towards the purchase of ST BUS passes.

- **Celebration of Yuva Rang at District level:**

The University has started the district level Yuva Rang (cultural programme) to increase participation of the students coming from rural and tribal area of the jurisdiction of the University. Due to this, the opportunity is made available to the hidden talents of the students coming from the interior region.

- **Summer Research Aptitude Cultivation Workshop-2017:**

To motivate the young talented undergraduate students of the affiliated colleges towards research, a Summer Research Aptitude Cultivation Workshops were organized during 1-10 June since last two years. For the workshop near about 50 graduate student participants with a zeal and interest to pursue research have participated. Renowned research faculty from leading research institutes on various topics has imparted practical training to the graduate student participants. Similar workshops will be conducted each year during summer vacation.

- **Saturday Club:**

The University has signed MoU with Saturday Club to promote entrepreneurship. The in-plant training of the students like, M.Sc., B.Tech, M. Tech and other students would be encouraged. The industry personnel through Saturday Club guides regarding understanding the industrial problems and subsequently how to find the solution for that particular problems. Meeting with industry personnel would encouraged for better dialogue and bridge the gap between understandings of students and industry. More industrial collaborations would be sought through the interactions.

- **Workshop for Senator:**

This University has conducted a workshop for newly elected Senators regarding their role of new Maharashtra Public Universities Act, 2016 on 16.03.2018. Near about 60 newly elected/nominated Senators have participated in this workshop.

- **Interaction of BOS member with Vice-Chancellor before meeting and after meeting:**

The BOS members meet Vice-Chancellor before every meeting and discuss regarding agenda points, restructuring of syllabus, starting of new courses etc. After completion of meeting, the BOS members again meet Vice-Chancellor and appraise about the decisions taken in the meeting.

- **Preparation of Question Banks and Question Paper Setting:**

Taking into consideration of recommendations of Agrawal Committee, the University under the initiative of Vice-Chancellor has started new programme of preparation of Question Banks and Question Paper Setting in the School of Physical Sciences and School of Life Sciences. Under this programme, a question bank is prepared having 700 to 1000 questions per subject. These question banks were prepared considering the NET/SET examinations pattern. The Examination Section generate the question papers randomly selecting the questions with the help of computer.

- **Open Day Programme:**

The University has started an innovative ‘**Open Day Programme**’ on pilot basis in the School of Physical Sciences and School of Life Sciences in the academic year 2017-18. On this day, the students have been given their final examination answer books evaluated by the teachers for self-assessment. The teacher of concerned subject solves the queries/grievances regarding evaluation of the answer books on the spot under this programme. This programme will be implemented in other schools step by step in future. The KBC North Maharashtra University, Jalgaon is first amongst the Universities of Maharashtra to implement such type of innovative pilot project.

- **17/17 Digital Initiatives:**

- (i) Under these initiatives, the KBC North Maharashtra University has installed SWAYAM prabha DTH Channels at 11 schools/institute on the campus.
- (ii) The University has deposited 307357 digital degree certificates on National Academic Depository (NAD) since first convocation. Awareness workshop regarding registration on NAD portal and the facilities available DigiLocker is organised from 27/8/2018 to 1/9/2018 for the students admitted in the academic year 2018-19 in the various Schools/Department in this university. Awards lodged: 307357, Total registration of Students- 2125, After 21<sup>st</sup> August- 559.
- (iii) Awareness workshop regarding registration on NAD portal is organised on 21/8/2018 for the Principal/Directors of affiliated colleges and institutes and they are requested to conduct awareness workshop at college level for information of all students.
- (iv) 100% Online Admissions of UG/PG courses.
- (v) Implemented Centralized Online Admission Process for all M.Sc. courses.
- (vi) Implemented Centralized Online Admission Process for all UG/PG Management courses.

**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: Vidyarthi Sanwad Parva** (Vice-Chancellor's Students Interactive Initiative).

**Students Interaction Initiative:**

Hon'ble Vice Chancellor of the University meets directly to the students on the first and third Monday of every month and listen their problems. This unique Vice-Chancellor-student dialogue started at the university from November 2016. The Vice Chancellor has reserved half day for the students on the first and third Monday of every month for resolving problems of the students. This unique project has been named as the Vidyarthi Sanwad Parva. The issues related to teaching-learning, examinations, scholarships, hostel, transportation etc. are discussed during the meeting of Hon'ble Vice-Chancellor. Due to this activity the students can directly meet Vice Chancellor and discuss their problems freely without any barrier. Students from the affiliated colleges of (Jalgaon, Dhule, Nandurbar District and University campus registered their grievances during the Meetings. The University has appealed to the students to attend the meetings and dialogue with Hon'ble Vice Chancellor.

This is an initiative of Hon'ble Vice Chancellor to provide the platform to the students to discuss their problems without any appointment. The Vice Chancellor imparts instructions to the university officials to resolve the problem immediately.

**Hon'ble Vice Chancellor interaction with the student during Vidyarthi Sanwad Parva.**

The details of interactions of students and the Vice Chancellor under the Vidyarthi Sanwad Parva (Vice-Chancellor's Students Interaction Initiative) are given in the table.

<b>Sr. No.</b>	<b>Programme Details (Dates)</b>	<b>No. of Participants</b>	<b>Major Grievances</b>	<b>Action Taken</b>
1.	17.07.2017	03	<ul style="list-style-type: none"> <li>Ph.D. Viva-voce/admission/examination</li> </ul>	Most of the grievances are sorted out by directing the concerned section in charges to take appropriate action immediately
2.	04.09.2017	05	<ul style="list-style-type: none"> <li>Declaration of SE, TE, Result</li> <li>Admission for BA Additional Music</li> <li>Ph.D. Viva-vace</li> <li>Challenge to evaluation of photocopy</li> </ul>	
3.	18.09.2017	01	<ul style="list-style-type: none"> <li>Result of SE, TE of May 2017</li> </ul>	
4.	16.10.2017	02	<ul style="list-style-type: none"> <li>Paper not checked properly</li> </ul>	
5.	06.11.2017	04	<ul style="list-style-type: none"> <li>Exam/correction in mark sheet/final viva</li> </ul>	Most of the grievances are sorted out by directing the concerned section in charges to take appropriate action immediately
6.	04.12.2017	01	<ul style="list-style-type: none"> <li>Late receipt of letter reg. abstract submission</li> </ul>	
7.	18.12.2017	01	<ul style="list-style-type: none"> <li>Approval to the Marathi subject for Ph.D.</li> </ul>	
8.	15.01.2018	07	<ul style="list-style-type: none"> <li>Complaint regarding Bus</li> <li>Regarding Ph.D. Thesis</li> <li>Request for Financial Aid</li> </ul>	
9.	05.03.2018	04	<ul style="list-style-type: none"> <li>Extra opportunity for examination</li> <li>Reg. Dipex Project</li> </ul>	

**ii) Clean Campus Mission:**

Swachha Bharat Abhiyan or Clean India Mission is a campaign which aims to clean up the streets, roads and infrastructure of cities, smaller towns, and rural areas of the country. Ministry of Human Resource Development, Government of India has taken initiative to implement this mission in the jurisdiction of universities by promoting the stakeholders of the universities.

The University School and affiliated colleges are encouraged to swear the oath of cleanliness to their students and employees, the activities are carried out both the university campus and affiliated Colleges and nearby towns/ cities under the jurisdiction of the university the details of the activities under this mission are summarised in the table.

**A. Details of the activities conducted on university campus under Clean Campus Mission (Swachha Bharat Abhiyan):**

<b>Duration</b>	<b>Event details</b>	<b>No. of Participants</b>
July 2017 to June 2018	Clean Campus Campaign at all the School on the Campus	1500

The university teachers, administrative staff, contractual staff and university daily wages staff have participated in the activity.

**A. Details of activities conducted by affiliated college under clean campus mission (Swachha Bharat Abhiyan) :**

Sr.No.	Date and Day	Events Details	Place	No. of Participants
01	<b>01 July, 2017 To 30 June, 2018</b>	Cleaning of school, collages	University Jurisdictions 74 NSS unit	<b>38152</b>
02		Cleaning of hospital / PHCs	University Jurisdictions 72 NSS unit	<b>20268</b>
03		Cleaning of Offices complexes, toilets and garbage of District & zonal Office	University Jurisdictions 74 NSS unit	<b>27948</b>
04		Cleanliness drive to clean street and common places	University Jurisdictions 75 NSS unit	<b>28102</b>
05		Motivation resulting into construction of toilets	University Jurisdictions 77 NSS unit	<b>26268</b>
06		Maintenance & repair of cremation grounds and play grounds	University Jurisdictions 81 NSS unit	<b>26382</b>
07		Defecation Free Campaign: Motivation resulting into construction of Toilets/ activity for construction of toilet	University Jurisdictions 78 NSS unit	<b>28093</b>
08		Shramadan Programme	University Jurisdictions 87 NSS unit	<b>23751</b>

The University has 87 NSS units in the affiliated colleges comprising 15000 volunteers the above activities are conducted with the involvement of NSS volunteers

**7.4 Contribution to environmental awareness / protection**

• **Energy conservation:**

- i. Planning and construction of Administrative and School Buildings with easy accessibility for natural daylight and ventilation.
- ii. The faculty members, administrative staff and students are encouraged to use electricity with care.

- 
- iii. The University is using energy efficient lamps (CFL/LED) and solar water heater for energy conservation.
  - iv. Use of star marked gadgets to reduce energy/power consumption. Virtualization of IT equipment's 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 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 the 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 has been undertaken by NSS volunteers with due support by the Garden section, students, teaching and administrative staff of the university.

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 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.

- **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)**

- **Academic Calendar :**

- ❖ Academic Calendar is prepared as per the provision of Maharashtra Public University Act, 2016 Section 33 (z). The academic term starts, and end dates, Vacation Period and other activities are specified in the academic calendar.
- ❖ Details of Schedule of Seminar/Workshop/Conferences of School/Department are mentioned.
- ❖ Details of meeting of various authorities of university organized by various sections are listed.

- **Invitation of Academicians for Convocation Address:**

University has been inviting academicians as a Chief Guest for delivering convocation address for the encouragement and motivation to the students mostly coming from rural and tribal area since last 02 convocations. Prof. Jestrāj Joshi, ICT, Mumbai and Dr. Ashok Joshi, eminent Educationist and Industrialist of USA for 25<sup>th</sup> and 26<sup>th</sup> Convocations, respectively. These eminent Educationists and Industrialists have shared their experiences among the students.

- **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 in reputed National/International journals with high impact factor and cumulative h-index of 33 (Web of Science).
- Total 43 MoUs signed with various National/International organizations.
- Fair and error proof examination system is our credo.

- viii. Digitalized process of efficient online mode of working towards paperless governance.
- ix. Successful in maintaining the campus and affiliated colleges strife-free, healthy with spirit of interaction and mutuality.
- x. 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 ambiance.
- xi. 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. Placement of the graduates produced from the campus and affiliated colleges.
- ii. Introduction of Skill and Value based courses in the existing syllabi.
- iii. Creation of transport facilities for mobility of students on the university campus.
- iv. Development of sub campuses at Dhule, Amalner and Nandurbar
- v. Strengthening of Industry-University Interaction.

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

- i. The green vehicle facilities for internal transportation will be expanded, and it will be made available to all needy students on the campus.
- ii. The skill and value-based courses will be introduced by each school on the campus.
- iii. The process of placement will be strengthened, and efforts will be made to attract more industries for campus placement.

- iv. The feedback from all stake holders will be made compulsory for all the programs on the campus.
- v. The budgetary provision for research fellowship will be made from the next academic year to each school on the campus.
- vi. The incentives will be given to the faculty members whose research paper published in well reputed journals having good impact factors.
- vii. Establishment of university Incubation Centre for promotion of start-up of the innovative ideas.
- viii. To establish Wi-Fi facilities at the university Campus.
- ix. Installation of Clean Drinking Water Plant on the Campus on large scale.

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

  
(Prof. P.P. Patil)  
Vice Chancellor

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॥ अंतरी पेटवू ज्ञानज्योत ॥

**KBCNMU**  
JALGAON



## Annual Quality Assurance Report (AQAR) 2018-19



Kavayitri Bahinabai Chaudhari  
North Maharashtra University, Jalgaon

**Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon**

**The Annual Quality Assurance Report (AQAR) of the IQAC**  
**(July 1, 2018 to June 30, 2019)**

**Part – A**

**Data of the Institution**

*(Data may be captured from IIQA)*

- 1. Name of the Institution** : **Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon**
- Name of the Head of the institution : **Prof. Pradip Premchand Patil**
  - Designation : **Vice-chancellors**
  - Does the institution function from own campus : **Yes**
  - Phone no. /Alternate phone no : **02572258401**
  - Mobile no : **9423185071**
  - Registered Email : **vco@nmu.ac.in**
  - Alternate Email : **iqac@nmu.ac.in**
  - Address : **National Highway 6, Umavi Nagar, Jalgaon – 425 001.**
  - City/Town : **Jalgaon**
  - State/UT : **Maharashtra**
  - Pin Code : **425001**
- 2. Institutional status:**
- University: State /Central/Deemed/Private: **State**  
(Tick appropriate)
  - Type of Institution: Co-education/Men/Women : **Co-Education**
  - Location : Rural/Semi-urban/Urban : **Rural**
  - Financial Status: Centrally funded/state Funded/Private (Please specify) : **State funded**
  - Name of the IQAC Co-ordinator/Director : **Prof. S. T. Ingle**
  - Phone no. /Alternate phone no. : **(0257) 2257345**
  - Mobile : **9421566793**
  - IQAC e-mail address : **iqac@nmu.ac.in**
  - Alternate Email address : **sopan.ingle@gmail.com**

**3. Website address : [www.nmu.ac.in](http://www.nmu.ac.in)**

Web-link of the AQAR: (Previous Academic Year): <http://nmu.ac.in/igac/AQAR-reports>

**4. Whether Academic Calendar prepared during the year?**

Yes/No, if yes, whether it is uploaded in the Institutional website: **Yes**

Weblink: <http://nmu.ac.in/Student-Corner/Academics/Academic-Calendar>

**5. Accreditation Details:**

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 <sup>st</sup>	Four Star	-	2001	from:2001 to: 2005
2 <sup>nd</sup>	B	2.88	2009	from:2009 to: 2014
3 <sup>rd</sup>	A	3.11	2015	from:2015 to: 2020

**6. Date of Establishment of IQAC : DD/MM/YYYY: 09.05.2006**

**7. Internal Quality Assurance System:**

**7.1 Quality initiatives by IQAC during the year for promoting quality culture**

Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
AQAR Revised Guideline Meeting	02/07/2018	06
Regarding MOU Meeting	02/07/2018	04
Regarding MOU Meeting	16/08/2018	04
Regarding MOU Meeting	10/09/2018	02
Regarding workshop on Non Accredited colleges	31/12/2018	06
Regarding Moodle LMS	15/02/2019	04
Regarding Moodle LMS	16/02/2019	04
Regular meeting of IQAC is arranged.	18/02/2019	10
Environmental Green Audit Meeting	16/04/2019	04
Meeting of all Directors and co-ordinator for the preparation of accreditation by NAAC, Bangalore	16/04/2019	25
Timely Submission of Annual Quality Assurance Report (AQAR) to NAAC	27/12/2018	<b>IQAC Team</b>
Academic Administrative Audit (AAA) conducted and its follow up action	2015-16 to 2017-18	<b>All students, faculty members and support staff</b>
Feedback from Students	April/May 2018	<b>1120</b>
Participation in NIRF	07/12/2018(17-18)	<b>Institute</b>

**Note: Some Quality Assurance initiatives of the institution are: (Indicative list)**

- Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements
- Academic Administrative Audit (AAA) conducted and its follow up action
- Participation in NIRF
- ISO Certification
- NBA etc.
- Any other Quality Audit

**8. Provide the list of Special Status conferred by Central/ State Government, UGC/CSIR/DST/ DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
School of Computer Sciences	UGC SAP DRS-II	UGC New Delhi	2018(2018-23)	57.5 + one Project Fellow
School of Environmental and Earth Sciences	UGC-SAP-DRS, Phase II	UGC New Delhi	2015(2015-2020)	72.5 Lacs
School of Chemical Sciences	UGC-SAP-DRS II	UGC, New Delhi	2015(2015-2020)	Rs. 190 Lacs
School of Life Sciences	DST-FIST (Level 1)	DST, New Delhi	6 <sup>th</sup> Sept. 2018 (2018-2022)	135 Lacs

**9. Whether composition of IQAC as per latest NAAC guidelines: Yes**

\*upload latest notification of formation of IQAC:

**10. No. of IQAC meetings held during the year: 01**

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website.....

Yes

<http://nmu.ac.in/iqac>

(Please upload, minutes of meetings and action taken report)

**11. Whether IQAC received funding from any of the funding agency to support its**

**activities during the year?** Yes  No

If yes, mention the amount:

Year:

**12. Significant contributions made by IQAC during the current year (maximum five bullets):**

- \* IQAC has initialised the process of revising syllabi of the programs as per the UGC CBSC guidelines. All efforts are taken to incorporate the skill-based courses in the syllabi of all programme conducted on the university campus.



**16. Whether institutional data submitted to AISHE: Yes/No: Yes**

Year: **2019**

Date of Submission: **02/05/2019**

**17. Does the Institution have Management Information System?**

Yes

No

If yes, give a brief description and a list of modules currently operational. (Maximum 500 words)

- 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.
- Various online services are provided partly through in-house IT developments and partly through Third Party Engagements.
- The 1 GBPS connectivity under NMEICT Project of MHRD has been established on the campus.
- E-library services are managed through the Information Scientists working at Central Library.
- The Financial transactions and HR issues of administration department are handled using SAP since last 9 years and Business Intelligence tool is used for effective decision making.
- Affiliation and Research Section is having online affiliation process, approval process and PhD admission process which always helps to take appropriate decisions at university level and government.
- All the students admitted through e-Suvidha portal and registered for eligibility, Examination forms are online generated and submitted. Students get their hall tickets on their login and concern colleges / university departments get various exam reports through e-Suvidha Portal. The results are process using softwares and are declared on official portal of the university.
- The examination department is issuing online appointments to examiners, paper setters, flying squad etc.

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**Part-B****CRITERION I – CURRICULAR ASPECTS :****1.1 Curriculum Design and Development****1.1.1 Programmes for which syllabus revision was carried out during the Academic year**

<b>Name of programme</b>	<b>Programme Code</b>	<b>Dates of revision</b>
M.A.-Music (Vocal)	1209	2 July 2019
M.A.-Music (Tabla)	1210	2 July 2019
M.A.-Defence and Strategic Studies	2208	2 July 2019
M.A. MCJ	2217	2 July 2019
M.A.-History	2201	2 July 2019
M.A.-Sociology	2204	2 July 2019
M.A.-Economics	2205	2 July 2019
M.A.-Psychology	2206	2 July 2019
M.B.A	8202	2 July 2019
M.Sc.-Computer Science	3217	2 July 2019
M.Sc.-Information Technology	3224	2 July 2019
M.C.A.	3250	2 July 2019
M.A.-Philosophy	2207	2 July 2019
M.S.W.	2209	2 July 2019
M.A.-Political Science	2215	2 July 2019
M.A.-Dr. Ambedkar Thought	2218	2 July 2019
M.A.-Womens Studies	2221	2 July 2019
M.Ed	9201	2 July 2019
B.M.S.	8105	2 July 2019
M.Sc-Chemistry with Specialization in Polymer Chemistry	3209	2 July 2019
M.Sc-Chemistry with Specialization in Industrial Chemistry	3210	2 July 2019
M.Sc-Chemistry with Specialization in Pesticides & Agrochemicals	3212	2 July 2019
M.Sc-Chemistry with Specialization in Organic Chemistry	3230	2 July 2019
M.Sc-Chemistry with Specialization in Analytical Chemistry	3231	2 July 2019
M.Sc-Chemistry with Specialization in Physical Chemistry	3232	2 July 2019
M.Sc.-Environmental Science	3225	2 July 2019
M.Sc-Applied Geology	3226	2 July 2019
M.Sc. - Applied Geography [Under Science Faculty]	3228	2 July 2019
M.Tech-Environmental Science & Technology	6231	2 July 2019
M.Sc.-Microbiology	3220	2 July 2019
M.Sc-Biotechnology	3221	2 July 2019
M.Sc-Biochemistry	3222	2 July 2019
B.Sc. (Actuarial Science)	3122	2 July 2019
M.Sc-Statistics (with Specialization in Industrial Statistics)	3215	2 July 2019
M.Sc-Mathematics (with Specialization in Computational Mathematics)	3216	2 July 2019
M.Sc-Electronics	3203	2 July 2019
M.Sc-Physics with Specialization in Energy Studies	3204	2 July 2019
M.Sc-Physics with Specialization in Material Science	3205	2 July 2019
M.A.-English	1201	2 July 2019
M.A.-Marathi	1202	2 July 2019
M.A.-Hindi	1203	2 July 2019

### 1.1.2 Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year:

Programme with Code	Date of Introduction	Course with Code	Date of Introduction
M.Sc. Environmental Science(3225)	1999	Environmental Monitoring for EIA (EES - 302)	2 July 2019
M.Sc. Environmental Science(3225)	1999	Industrial Safety, Hygiene and Toxicology. (EES - 401)	2 July 2019
M. Sc. Applied Geology(3226)	2007	Hydrogeology (GS - 402)	2 July 2019
M. Sc. Applied Geography(3228)	2010	Surveying(GG - 404)	2 July 2019
M. Tech. Environmental Science and Technology	2008	Environmental System Optimization and Modelling (MTE - 102)	2 July 2019
M. Tech. Environmental Science and Technology	2008	Industrial Pollution Control (MTE - 201)	2 July 2019
B.Tech. (Chemical Engg/Plastic Tech. /Oil Tech. /Paint Tech. / Food Tech.) ( 6109)	1195	Communication Skills( HMC-101)	2 July 2019
B.Sc. (Actuarial Science)	2010	Practicals-II (AS-205)	2 July 2019
B.Sc. (Actuarial Science)	2010	Principles of Macroeconomics (AS-303)	2 July 2019
B.Sc. (Actuarial Science)	2010	Financial Accounting (AS-404)	2 July 2019
B.Sc. (Actuarial Science)	2010	Practicals-IV (AS-405)	2 July 2019
B.Sc. (Actuarial Science)	2010	Survival Models (AS-501)	2 July 2019
B.Sc. (Actuarial Science)	2010	Life Contingencies-II (AS-504)	2 July 2019
B.Sc. (Actuarial Science)	2010	Stochastic Modeling (AS-601)	2 July 2019
B.Sc. (Actuarial Science)	2010	Total Quality Management and Statistical Process Control (AS-602)	2 July 2019
B.Sc. (Actuarial Science)	2010	Credibility Theory & Loss Distributions (AS-603)	2 July 2019
B.Sc. (Actuarial Science)	2010	Financial Economics (AS-604)	2 July 2019
M.Sc. Physics (Energy Studies/Materials Science)	1992	Electronics	2 July 2019
M.Sc. Physics (Energy Studies/Materials Science)	1992	Experimental Techniques And Data Analysis	2 July 2019
M.Sc. Physics (Energy Studies/Materials Science)	1992	Renewable Energy	2 July 2019
M.Sc. Physics (Energy Studies/Materials Science)	1992	Solar Photovoltaic Grid Connected Systems	2 July 2019
M.Sc. Physics (Energy Studies/Materials Science)	1992	Energy Conversion And Management	2 July 2019
M.Sc. (Electronics)	1991	Industrial Automation and Control	2 July 2019
M.Sc. (Electronics)	1991	Java Programming and Web Technology	2 July 2019
M.A. Sociology	2010	Sociology of Development	2 July 2019
M.A. Sociology	2010	Theoretical Perspective In Sociology	2 July 2019
M.A. Sociology	2010	Gender and Society	2 July 2019
M.A. Sociology	2010	Education And Society	2 July 2019
M.A. Sociology	2010	Social Movement in India	2 July 2019
M.A. Sociology	2010	Dissertation	2 July 2019

M.A. Sociology	2010	Theoretical Perspective on Indian Soc.	2 July 2019
M.A. Sociology	2010	Gender and Society	2 July 2019
M.A. Sociology	2010	Sociology of Ageing	2 July 2019
M.A. Sociology	2010	Social Welfare in India	2 July 2019
M.A. Political Sciences	2011	Research Methodology	2 July 2019
M.A. Political Sciences	2011	Comparative Political Process	2 July 2019
M.A. Political Sciences	2011	International Relations	2 July 2019
M.A. Political Sciences	2011	Political Theories and Key Concepts	2 July 2019
M.A. Political Sciences	2011	UN and Regional Organizations	2 July 2019
M.A. Political Sciences	2011	Research Methodology	2 July 2019
M.A. Political Sciences	2011	Comparative Political Process	2 July 2019
M.A. Political Sciences	2011	International Relations	2 July 2019
M.A. Political Sciences	2011	Political Theories and Key Concepts	2 July 2019
M.A. Political Sciences	2011	UN and Regional Organizations	2 July 2019

## 1.2 Academic Flexibility:

### 1.2.1 New programmes/courses introduced during the Academic year.

Programme/Course	Programme Specialization	Date of introduction
Theoretical Perspective in Sociology	M.A. Sociology	15 July 2018
Education and Society	M.A. Sociology	15 July 2018
Social Movement in India	M.A. Sociology	15 July 2018
Dissertation	M.A. Sociology	15 July 2018
Theoretical Perspective on Indian Society	M.A. Sociology	15 July 2018
Sociology of Ageing	M.A. Sociology	15 July 2018
Social Welfare in India	M.A. Sociology	15 July 2018
Calculus	B.Sc. Actuarial Science	15 July 2018
Practical's- I	B.Sc. Actuarial Science	15 July 2018
Mathematical Analysis	B.Sc. Actuarial Science	15 July 2018
Environment Studies	B.Sc. Actuarial Science	15 July 2018
Sampling Distributions	B.Sc. Actuarial Science	15 July 2018
R Programming and Numerical Methods	B.Sc. Actuarial Science	15 July 2018
Surveys Sampling & Indian Official Statistics	B.Sc. Actuarial Science	15 July 2018
Total Quality Management and Statistical Process Control	B.Sc. Actuarial Science	15 July 2018
Induction program	B.Tech. Chem. Engg.	15 July 2018
Induction program	B.Tech. Plastics	15 July 2018
Induction program	B.Tech. Paints	15 July 2018
Induction program	B.Tech. Oil, Fats & Waxes	15 July 2018
Induction program	B.Tech. Food	15 July 2018
Indian Constitution	B.Tech. Chem. Engg.	15 July 2018
Indian Constitution	B.Tech. Plastics	15 July 2018
Indian Constitution	B.Tech. Paints	15 July 2018
Indian Constitution	B.Tech. Oil, Fats & Waxes	15 July 2018
Indian Constitution	B.Tech. Food	15 July 2018
Essence of Indian Traditional Knowledge	B.Tech. Chem. Engg.	15 July 2018
Essence of Indian Traditional Knowledge	B.Tech. Plastics	15 July 2018
Essence of Indian Traditional Knowledge	B.Tech. Paints	15 July 2018
Essence of Indian Traditional Knowledge	B.Tech. Oil, Fats & Waxes	15 July 2018
Essence of Indian Traditional Knowledge	B.Tech. Food	15 July 2018

### 1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
		M.A.-Instrumental Music (Tabla) M.A.-Music (Vocal) M.A.-Defence and Strategic Studies M.A. MCJ M.A.-English M.A.-Marathi M.A.-Hindi M.A.-History M.A.-Sociology M.A.-Economics M.A.-Psychology M.A.-Philosophy M.S.W. M.A.-Political Science M.A.-Dr. Ambedkar Thought M.A.-Women's Studies M.Ed M.B.A M.Sc.-Chemistry with Specialization in Polymer Chemistry M.Sc.-Chemistry with Specialization in Industrial Chemistry M.Sc.-Chemistry with Specialization in Pesticides & Agrochemicals M.Sc.-Chemistry with Specialization in Organic Chemistry M.Sc.-Chemistry with Specialization in Analytical Chemistry M.Sc.-Chemistry with Specialization in Physical Chemistry M.Sc-Computer Science M.Sc-Information Technology M.C.A.	B.Tech-Chemical Engineering B.Tech-Plastics Technology B.Tech-Paints Technology B.Tech-Oils,Fats & Waxes Technology		M.A.-Instrumental Music(Tabla) M.A.-Music (Vocal) M.A.-Defence and Strategic Studies M.A. MCJ M.A.-English M.A.-Marathi M.A.-Hindi M.A.-History M.A.-Sociology M.A.-Economics M.A.-Psychology M.A.-Philosophy M.S.W. M.A.-Political Science M.A.-Dr. Ambedkar Thought M.A.-Women's Studies M.Ed M.B.A M.Sc-Chemistry with Specialization in Polymer Chemistry M.Sc-Chemistry with Specialization in Industrial Chemistry M.Sc-Chemistry with Specialization in Pesticides & Agrochemicals M.Sc-Chemistry with Specialization in Organic Chemistry M.Sc-Chemistry with Specialization in Analytical Chemistry M.Sc-Chemistry with Specialization in Physical Chemistry M.Sc-Computer Science M.Sc-Information Technology M.C.A. M.Sc. - Applied Geography [Under Science Faculty] M.Sc.-Environmental Science M.Sc-Applied Geology M.Tech-Environmental Science & Technology M.Sc.-Microbiology

	M.Sc. - Applied Geography [Under Science Faculty] M.Sc-Environmental Science M.Sc-Applied Geology M.Tech-Environmental Science & Technology M.Sc-Microbiology M.Sc-Biotechnology M.Sc-Biochemistry M.Sc-Statistics (with Specialization in Industrial Statistics) M.Sc-Mathematics (with Specialization in Computational Mathematics) M.Sc-Electronics M.Sc-Physics with Specialization in Energy Studies M.Sc-Physics with Specialization in Material Science		M.Sc-Biotechnology M.Sc-Biochemistry M.Sc-Statistics (with Specialization in Industrial Statistics) M.Sc-Mathematics (with Specialization in Computational Mathematics) M.Sc-Electronics M.Sc-Physics with Specialization in Energy Studies M.Sc.-Physics with Specialization in Material Science M.Tech-VLSI Technology M.Tech-Chemical Engineering M.Tech-Paints Technology M.Tech-Polymer Technology M.Tech-Nano Science & Technology M.Tech-Food & Fermentation Technology M.A. (Philosophy)
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### 1.3 Curriculum Enrichment:

#### 1.3.1 Value-added courses imparting transferable and life skills offered during the year

Value added courses	Date of introduction	Number of students enrolled
Certificate course in Industrial Safety and Management	2018-19	40
Certificate Course in Cyber Security	23/02/2019 to 17/03/2019	70

#### 1.3.2 Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships
MBA	60
BMS/BBM	29
M.Sc. Statistics (with specialization in industrial Statistics)	58
M.Sc.(Environmental Science)	25
M.Sc.( Applied Geology)	19
M.Sc.( Applied Geography)	13
M.Tech. (Environmental Science and Technology)	09
MCA	53
M.Sc.(Computer Science)	54
M.Sc.(Information Technology)	38
M.Ed.	20

## 1.4 Feedback System:

### 1.4.1 Whether structured feedback received from all the stakeholders.

1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes

### 1.4.2 How the feedback obtained is being analysed and utilized for overall development of the institution? (Maximum 500 words)

The Internal Quality Assurance Cell has designed format for feedback from the various stakeholders viz student, teacher, alumni, Employer's and parents. These format were sent to the Directors of the respective schools with appeal to seek the feedback of various stakeholders of their school.

**Student Feedback:** The format includes the feedback of students on subject knowledge, communication skill, Use of ICT, punctuality and regularity of the teachers. Some item on assessment and attitude of teachers toward the students are also a part this feedback.

**Teachers Feedback:** The teacher's feedback mainly covers the opinion on the exiting syllabi of the programs that are being conducted on the university campus. The need based, current content, outcome, need of revision of the syllabi is also a part of the format.

**Alumina Feedback:** This include the feedback on overall functioning of the university in the student's related matter. It includes the opinion of alumina on syllabi, physical infrastructure and activities of T and P cell of the university.

**Employers' Feedback:** The relevance for employability, development of innovative thinking and skill acquired by the students employed in various organisation is a part of this feedback along with suggestions on recent trends to incorporate in the syllabus.

**Parent's Feedback:** This includes mainly the satisfaction of parents on quality of teaching, examination system and skill based/ job oriented nature of the curricula and administrative procedures of the university.

The feedback is collected and being analysed by the respective school. The analysis report is collected by the IQAC for further action.

The IQAC has prepared the consolidated report on the feedback analysis of the schools and submitted to Hon'ble Vice chancellor for Necessary action. Accordingly, Hon'ble Vice chancellor has issued orders to the concerns section to fulfil the requirements which are of common interest like safe drinking water and revision of syllabi as per UGC NSQF Guidelines.

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**CRITERION II -TEACHING-LEARNING AND EVALUATION:****2.1 Student Enrolment and Profile****2.1.1 Demand Ratio during the year**

<b>Name of the Programme</b>	<b>Number of seats available</b>	<b>Number of applications received</b>	<b>Students Enrolled</b>
M.A.-Music (Vocal)	25	8	8
M.A.-Defence and Strategic Studies	20	17	17
M.A. MCJ	30	23	16
M.Sc.-Chemistry with Specialization in Polymer Chemistry	15	311	17
M.Sc.-Chemistry with Specialization in Industrial Chemistry	15	249	17
M.Sc.-Chemistry with Specialization in Pesticides & Agrochemicals	15	216	17
M.Sc.-Chemistry with Specialization in Organic Chemistry	23	644	26
M.Sc.-Chemistry with Specialization in Analytical Chemistry	15	408	18
M.Sc.-Chemistry with Specialization in Physical Chemistry	10	146	11
M.Sc.-Computer Science	60	206	60
M.Sc.-Information Technology	45	37	18
M.C.A.	60	DTE*	60
M.Ed.	50	State CET CELL	13
M.Sc.-Environmental Science	25	25	23
M.Sc.-Applied Geology	20	18	16
M.Sc. - Applied Geography [Under Science Faculty]	20	69	20
M.Tech-Environmental Science & Technology	12	5	5
M.A.-English	30	22	22
M.A.-Marathi	30	12	12
M.A.-Hindi	30	8	8
M.Sc.-Microbiology	25	160	25
M.Sc.-Biotechnology	25	88	24
M.Sc.-Biochemistry	25	71	24
M.B.A	60	DTE*	60
M.Sc.-Statistics (with Specialization in Industrial Statistics)	30	108	52
M.Sc.-Mathematics (with Specialization in Computational Mathematics)	40	242	48
M.Sc.-Electronics	30	16	13
M.Sc.-Physics with Specialization in Energy Studies	25	165	24
M.Sc.-Physics with Specialization in Material Science	25	195	28
M.A.-History	20	20	19
M.A.-Sociology	20	22	20
M.A.-Economics	30	27	27
M.A.-Psychology	20	11	10
M.A.-Philosophy	20	5	5
M.S.W.	50	102	49
M.A.-Political Science	20	40	19
M.A.-Dr. Ambedkar Thought	20	9	9
M.A.-Women's Studies	20	8	8
M.Tech-Chemical Engineering	18	9	9

M.Tech-Paints Technology	18	14	14
M.Tech-Polymer Technology	20	2	2
M.Tech-Nano Science & Technology	18	4	4
M.Tech-Food & Fermentation Technology	18	16	16
B.M.S.	60	60	60
B.Tech-Chemical Engineering	60	DTE*	62
B.Tech-Plastics Technology	15		15
B.Tech-Paints Technology	15		16
B.Tech-Oils, Fats & Waxes Technology	15		16
B.Tech-Food Technology	15		16

\* The student for this program are admitted through Centralize admission process by DTE, Maharashtra.

### 2.2.1. Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018-19	761	1959	14	69	83

### 2.3 Teaching - Learning Process:

#### 2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of teachers on roll	Number of teachers using ICT (LMS, e-Resources)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
85	83	LMS, Moodle, Swayam, Spoken Tutorial, Google Classroom, LCD Projection Systems, Smart Boards	44	03	E-Books, E-subscription to science direct, Journals, Video Lectures, Use of smartboards.

#### 2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words):

Kavayitri Bahinabai Chaudhari North Maharashtra University is committed to provide the students with mentors who can support them in achieving their personal, academic and career goals. Mentoring is one of the most powerful and efficient tools to help student academic growth. Therefore, the university intend to introduce a unique and innovative Mentor-Mentee Programme from the academic year 2018-2019.

This programme is set up to leverage the experience and expertise of KBCNMU faculty members to address, through one-to-one interaction, the mentorship needs of the students seeking professional and personal development. The faculty mentors would be from a wide range of experience of their respective subjects. Besides this, he also has the tremendous functional, inter-personal, administrative and leadership skills. A face-to-face meeting provides the most effective channel of communication and has a positive influence on the mentoring relationship.

Through this programme students will have the opportunity to enter a collaborative relationship with a mentor who will focus on their overall development. Mentors will offer support, encouragement, motivation and share skills that enable the students to achieve success. In this Programme, students are encouraged for participation in curricular, co-curricular and extra-curricular activities. The Career counselling, Presentations and Small Projects are conducted in the same mechanism.

In Mentor-Mentee Program, mentors focus on overall development of the students personally at Micro-level by conducting various activities to inculcate Teaching, Learning and Evaluation, Technical and Presentation Skills etc.

### **Aims and Objectives:**

1. To promote mentoring relationships among teacher and students.
2. To encourage active participation of the students in academic and co-curricular activities by both parties.
3. To enhance students' educational, social and personal growth through learning from the experience of mentors.
4. To act as a bridge between students and institution.
5. To become instrumental in providing information and help regarding various activities and scholarship/financial assistance scheme to the students.

### **Constitution of Mentor–Mentee Programme:**

1. Only regular faculty would be assigned mentorship with group shall be composed of senior and junior student
2. The School office shall maintain list of mentor-mentees, the records of meeting and action taken report at their end.
3. The consulted report of mentor mentee programme should be submitted at the end of every academic year to IQAC positively.

### **Mentors' Roles and Responsibilities:**

1. Mentors may perform a variety of roles, such as model, advisor, friend, teacher and resource person. The Mentor can bring profound changes to the mentees' social, professional and academic perspectives.
2. Mentors will give feedback of the students on the Mentor-Mentee programme to the school/Institute.
3. Mentors will start working on the programme since starting of the academic year till the mentee pass out their final examination.

### **Mentees' Roles and Responsibilities:**

1. Mentees may perform different roles such as student, trainee, friend, explorer, and supervisee.
2. Mentees can seek advice from mentors about career choice and the necessary preparation for success.
3. Mentee shall report regularly on progress of mentorship and give feedback about the Mentor-Mentee programme to the school/Institute.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
2720	83	1:32

## 2.4 Teacher Profile and Quality:

### 2.4.1 Number of full time teachers appointed during the year:

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D.
102	85	17	0	77

### 2.4.2 Honours and recognitions received by teachers:

(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Bendre Ratnamala Subhash	Professor (CAS)	UGC Mid Career Award <b>UGC, New Delhi</b>
2018	Ghayas Ahmad Usmani	Professor (CAS)	Continuous Contribution in Organisation of <b>Govt. Official Functions, Govt. Of Maharashtra</b>
2018	Joshi Manish Ratnakar	Professor (CAS)	National Award for the outstanding efforts in translation of Popular Science and Technology for the year 2018, <b>Department of Science and Technology of Government of India.</b>
2018	Ingle Sopan Tukaram	Professor	Nominated for Leadership in Academia Programme organizes by IIT Roorkee and Michigan University, USA, <b>MHRD Government of India</b>
2018	Mahajan Ashok Mahadu	Professor (CAS)	“OVERSEAS FAMOUS TEACHER AWARD”, <b>Ministry of Education (ME) and State Administration of Foreign Experts Affairs (SAFEA) , China</b>
2019	Thorat Sanjaykumar Ramchandra	Professor (CAS)	Academics and Research National conclve and awards-2019, Center for Education and Social Development India
2018	Indani Manisha Vinaykumar	Asstt. Professor	Prof. T.R.Sharma Memorial Best Educationist Award-2018 <b>Indian Psychometric and Educational Research Association (IPERA) Patana/ Agra</b>
2018	Naik Jitendra Baliram	Professor	Best Research Paper Publication award <b>Material Research Society of India, Bangalore</b>
2018	Mohd. Talib Mohd. Ibrahim	Asstt. Professor	21th State level Masters Aquatic championship 2018 <b>Gondiya distric masters Aquatic Association</b>
2018	Koshti Rohan Dilip	Asstt. Professor	SAS Best Paper Award in Theory section for presenting research paper at National conference <b>Department of Statistics, Savitribai Phule Pune university, Pune</b>
2019	Bendre Ratnamala Subhash	Professor	UGC Mid career Award

2018	Indani Manisha Vinaykumar	Asstt. Professor	Prof. T.R.Sharma Memorial Best Educationist Award-2018
2019	Thorat Sanjaykumar Ramchandra	Professor (CAS)	Dr. APJ Abdul Kalam Lifetime achievement National Award
2018	Ashok M. Mahajan	Professor (CAS)	“Overseas Famous Teacher Award”
2019	Manish R. Joshi	Professor (CAS)	European Visiting Program at WUST, Wroclaw
2019	R P Bhavsar	Asso. Professor	European Visiting Program at the Technical University, Kosice
2019	V V Gite	Asstt. Professor	European Visiting Program at the Frederic University, Cyprus
2019	Anil Dongare	Professor (CAS)	European Visiting Program at Universidade NOVA de Lisboa, Portugal
2019	B L Chaudhari	Professor (CAS)	Poland - CABGIN - Establishment of Capacity Building Centers as a sustainable solution to raise the standards of teaching staff in Indian HEIs.

## 2.5 Evaluation Process and Reforms:

### 2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year:

Programme Name	Programme Code	Semester / year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
M.A.-Music (Vocal)	1209	Semester	06/12/2018	05/01/2019
M.A.-Defence and Strategic Studies	2208	Semester	06/12/2018	05/01/2019
M.A. MCJ	2217	Semester	06/12/2018	14/12/2018
M.Sc.-Chemistry with Specialization in Polymer Chemistry	3209	Semester	08/12/2018	04/01/2019
M.Sc.-Chemistry with Specialization in Industrial Chemistry	3210	Semester	08/12/2018	04/01/2019
M.Sc.-Chemistry with Specialization in Pesticides & Agrochemicals	3212	Semester	08/12/2018	02/01/2019
M.Sc.-Chemistry with Specialization in Organic Chemistry	3230	Semester	08/12/2018	02/01/2019
M.Sc.-Chemistry with Specialization in Analytical Chemistry	3231	Semester	08/12/2018	02/01/2019
M.Sc.-Chemistry with Specialization in Physical Chemistry	3232	Semester	08/12/2018	04/01/2019
M.Sc.-Computer Science	3217	Semester	26/11/2018	10/12/2018
M.Sc.-Information Technology	3224	Semester	28/11/2018	10/12/2018
M.C.A.	3250	Semester	28/12/2018	25/01/2019
M.Ed	9201	Semester	10/01/2019	05/02/2019
M.Sc.-Environmental Science	3225	Semester	29/11/2018	11/12/2018

M.Sc.-Applied Geology	3226	Semester	29/11/2018	08/12/2018
M.Sc. - Applied Geography [Under Science Faculty]	3228	Semester	29/11/2018	08/12/2018
M.Tech-Environmental Science & Technology	6231	Semester	22/11/2018	05/12/2018
M.A.-English	1201	Semester	06/12/2018	05/01/2019
M.A.-Marathi	1202	Semester	06/12/2018	05/01/2019
M.A.-Hindi	1203	Semester	06/12/2018	05/01/2019
M.Sc.-Microbiology	3220	Semester	04/12/2018	20/12/2018
M.Sc.-Biotechnology	3221	Semester	04/12/2018	20/12/2018
M.Sc.-Biochemistry	3222	Semester	04/12/2018	20/12/2018
B.M.S.	8105	Semester	20/12/2018	18/01/2019
M.B.A	8202	Semester	13/12/2018	09/01/2019
B.Sc. (Actuarial Science)	3122	Semester	10/12/2018	01/01/2019
M.Sc.-Statistics (with Specialization in Industrial Statistics)	3215	Semester	10/12/2018	03/01/2019
M.Sc.-Mathematics (with Specialization in Computational Mathematics)	3216	Semester	05/12/2018	31/12/2018
M.Sc.-Electronics	3203	Semester	19/11/2018	05/12/2018
M.Sc.-Physics with Specialization in Energy Studies	3204	Semester	29/11/2018	05/12/2018
M.Sc.-Physics with Specialization in Material Science	3205	Semester	29/11/2018	05/12/2018
M.A.-History	2201	Semester	06/12/2018	05/01/2019
M.A.-Sociology	2204	Semester	06/12/2018	05/01/2019
M.A.-Economics	2205	Semester	06/12/2018	05/01/2019
M.A.-Psychology	2206	Semester	06/12/2018	05/01/2019
M.A.-Philosophy	2207	Semester	06/12/2018	05/01/2019
M.S.W.	2209	Semester	06/12/2018	28/12/2018
M.A.-Political Science	2215	Semester	06/12/2018	05/01/2019
M.A.-Dr. Ambedkar Thought	2218	Semester	06/12/2018	05/01/2019
M.A.-Women's Studies	2221	Semester	06/12/2018	05/01/2019
B.Tech-Chemical Engineering	6109	Semester	04/12/2018	17/12/2018
B.Tech-Plastics Technology	6113	Semester	04/12/2018	17/12/2018
B.Tech-Paints Technology	6114	Semester	04/12/2018	17/12/2018
B.Tech-Oils, Fats & Waxes Technology	6115	Semester	04/12/2018	17/12/2018
B.Tech-Food Technology	6116	Semester	04/12/2018	17/12/2018
M.Tech-Chemical Engineering	6209	Semester	31/01/2019	04/02/2019
M.Tech-Paints Technology	6214	Semester	31/01/2019	04/02/2019
M.Tech-Polymer Technology	6229	Semester	31/01/2019	04/02/2019
M.Tech-Nano Science & Technology	6230	Semester	31/01/2019	04/02/2019
M.Tech-Food & Fermentation Technology	6249	Semester	31/01/2019	04/02/2019
M.A.-Music (Vocal)	1209	Semester	09/05/2019	17/05/2019
M.A.-Defence and Strategic Studies	2208	Semester	09/05/2019	07/06/2019
M.A. MCJ	2217	Semester	09/05/2019	22/05/2019

M.Sc.-Chemistry with Specialization in Polymer Chemistry	3209	Semester	15/05/2019	10/06/2019
M.Sc.-Chemistry with Specialization in Industrial Chemistry	3210	Semester	15/05/2019	10/06/2019
M.Sc.-Chemistry with Specialization in Pesticides & Agrochemicals	3212	Semester	15/05/2019	10/06/2019
M.Sc.-Chemistry with Specialization in Organic Chemistry	3230	Semester	15/05/2019	10/06/2019
M.Sc.-Chemistry with Specialization in Analytical Chemistry	3231	Semester	15/05/2019	10/06/2019
M.Sc.-Chemistry with Specialization in Physical Chemistry	3232	Semester	15/05/2019	10/06/2019
M.Sc.-Computer Science	3217	Semester	10/05/2019	03/06/2019
M.Sc.-Information Technology	3224	Semester	13/05/2019	03/06/2019
M.C.A.	3250	Semester	23/05/2019	05/07/2019
M.Ed	9201	Semester	21/05/2019	13/06/2019
M.Sc.-Environmental Science	3225	Semester	11/05/2019	23/05/2019
M.Sc.-Applied Geology	3226	Semester	11/05/2019	23/05/2019
M.Sc. - Applied Geography [Under Science Faculty]	3228	Semester	11/05/2019	23/05/2019
M.Tech-Environmental Science & Technology	6231	Semester	10/05/2019	23/05/2019
M.A.-English	1201	Semester	09/05/2019	07/06/2019
M.A.-Marathi	1202	Semester	09/05/2019	07/06/2019
M.A.-Hindi	1203	Semester	09/05/2019	07/06/2019
M.Sc.-Microbiology	3220	Semester	20/05/2019	04/06/2019
M.Sc.-Biotechnology	3221	Semester	20/05/2019	04/06/2019
M.Sc.-Biochemistry	3222	Semester	20/05/2019	04/06/2019
B.M.S.	8105	Semester	17/05/2019	06/06/2019
M.B.A	8202	Semester	22/05/2019	26/06/2019
B.Sc. (Actuarial Science)	3122	Semester	09/05/2019	01/06/2019
M.Sc.-Statistics (with Specialization in Industrial Statistics)	3215	Semester	09/05/2019	01/06/2019
M.Sc-Mathematics (with Specialization in Computational Mathematics)	3216	Semester	10/05/2019	23/05/2019
M.Sc-Electronics	3203	Semester	03/05/2019	20/05/2019
M.Sc-Physics with Specialization in Energy Studies	3204	Semester	14/05/2019	20/05/2019
M.Sc-Physics with Specialization in Material Science	3205	Semester	14/05/2019	20/05/2019
M.A.-History	2201	Semester	09/05/2019	07/06/2019
M.A.-Sociology	2204	Semester	09/05/2019	07/06/2019
M.A.-Economics	2205	Semester	09/05/2019	07/06/2019
M.A.-Psychology	2206	Semester	09/05/2019	07/06/2019
M.A.-Philosophy	2207	Semester	09/05/2019	07/06/2019
M.S.W.	2209	Semester	09/05/2019	07/06/2019
M.A.-Political Science	2215	Semester	09/05/2019	07/06/2019

M.A.-Dr. Ambedkar Thought	2218	Semester	09/05/2019	04/06/2019
M.A.-Women's Studies	2221	Semester	09/05/2019	04/06/2019
B.Tech-Chemical Engineering	6109	Semester	17/05/2019	24/06/2019
B.Tech-Plastics Technology	6113	Semester	17/05/2019	24/06/2019
B.Tech-Paints Technology	6114	Semester	17/05/2019	24/06/2019
B.Tech-Oils, Fats & Waxes Technology	6115	Semester	17/05/2019	24/06/2019
B.Tech-Food Technology	6116	Semester	17/05/2019	24/06/2019
M.Tech-Chemical Engineering	6209	Semester	15/05/2019	27/06/2019
M.Tech-Paints Technology	6214	Semester	25-07-2019	25-07-2019
M.Tech-Polymer Technology	6229	Semester	25-07-2019	27-07-2019
M.Tech-Nano Science & Technology	6230	Semester	25-07-2019	27-07-2019
M.Tech-Food & Fermentation Technology	6249	Semester	25-07-2019	27-07-2019

## 2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

*\*Do not include re-evaluation/ re-totalling*

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
0	2720	0

## 2.6 Student Performance and Learning Outcomes:

### 2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://nmu.ac.in/iqac>

### 2.6.2 Pass percentage of students

Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
1209	M.A.-Music (Vocal)	4	4	100
2208	M.A.-Defence and Strategic Studies	26	24	92.31
2217	M.A. MCJ	18	17	94.44
3209	M.Sc.-Chemistry with Specialization in Polymer Chemistry	19	18	94.74
3210	M.Sc.-Chemistry with Specialization in Industrial Chemistry	19	17	89.47
3212	M.Sc.-Chemistry with Specialization in Pesticides & Agrochemicals	16	14	87.50
3230	M.Sc.-Chemistry with Specialization in Organic Chemistry	25	24	96.00
3231	M.Sc.-Chemistry with Specialization in Analytical Chemistry	16	15	93.75
3232	M.Sc.-Chemistry with Specialization in Physical Chemistry	12	10	83.33
3217	M.Sc.-Computer Science	60	58	96.67
3224	M.Sc.-Information Technology	45	41	91.11

3250	M.C.A.	68	67	98.53
9201	M.Ed	20	16	80.00
3225	M.Sc.-Environmental Science	25	24	96.00
3226	M.Sc.-Applied Geology	19	18	94.74
3228	M.Sc. - Applied Geography [Under Science Faculty]	14	12	85.71
6231	M.Tech-Environmental Science & Tech.	16	15	93.75
1201	M.A.-English	34	19	55.88
1202	M.A.-Marathi	16	09	56.25
1203	M.A.-Hindi	7	5	71.43
3220	M.Sc.-Microbiology	30	27	90.00
3221	M.Sc.-Biotechnology	26	25	96.15
3222	M.Sc.-Biochemistry	28	23	82.14
8105	B.M.S.	-	-	-
8202	M.B.A	68	66	97.06
3122	B.Sc. (Actuarial Science)	18	16	88.89
3215	M.Sc.-Statistics (with Specialization in Industrial Statistics)	74	54	72.97
3216	M.Sc-Mathematics (with Specialization in Computational Mathematics)	68	47	69.12
3203	M.Sc-Electronics	10	08	80.00
3204	M.Sc-Physics with Specialization in Energy Studies	35	19	54.29
3205	M.Sc-Physics with Specialization in Material Science	31	19	61.29
2201	M.A.-History	29	20	68.97
2204	M.A.-Sociology	25	22	88.00
2205	M.A.-Economics	20	15	75.00
2206	M.A.-Psychology	01	00	00
2207	M.A.-Philosophy	02	02	100
2209	M.S.W.	47	42	89.36
2215	M.A.-Political Science	10	09	90.00
2218	M.A.-Dr. Ambedkar Thought	02	02	100
2221	M.A.-Women's Studies	0	0	0
6109	B.Tech0-Chemical Engineering	54	54	100
6113	B.Tech-Plastics Technology	13	11	84.62
6114	B.Tech-Paints Technology	18	14	77.78
6115	B.Tech-Oils, Fats & Waxes Technology	15	09	60.00
6116	B.Tech-Food Technology	14	14	100
6209	M.Tech-Chemical Engineering	13	11	84.62
6214	M.Tech-Paints Technology	14	14	100
6229	M.Tech-Polymer Technology	02	02	100
6230	M.Tech-Nano Science & Technology	01	01	100
6249	M.Tech-Food & Fermentation Technology	12	11	91.67

## 2.7 Student Satisfaction Survey:

### 2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

weblink : <http://nmu.ac.in/iqac>

**CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION****3.1 Promotion of Research and Facilities****3.1.1 Teachers awarded National/International fellowship for advanced studies/ research during the year**

	<b>Name of the teacher awarded the fellowship</b>	<b>Name of the Award</b>	<b>Date of Award</b>	<b>Awarding Agency</b>
National	Prof. Manish R. Joshi	National Award for the outstanding efforts in translation of Popular Science and Technology for the year 2018	24 Sep., 2018	Department of Science and Technology of Government of India.
International	Prof. Sapan Tukaram Ingle	Nominated for Leadership in Academia Programme organizes by IIT Roorkee and Michigan University, USA	7 Dec., 2018	MHRD Government of India
International	Prof. Manish R. Joshi	Ukieri AICTE Study Tour 2 For Technical Education Leadership Development Programme	2019	United Kingdom India Education and Research Initiative (UKIERI)

**3.1.2 Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year**

<b>Name of Research fellowship</b>	<b>Duration of fellowship</b>	<b>Funding agency</b>
(UGC SAP DRS-II)	5 Years	UGC, New Delhi
Project Fellow	21 Months (22/5/18 to 30/11/2019)	ICSSR, New Delhi
Project Fellow	(22/5/18 to 21/11/2018)	ICSSR, New Delhi
DST - INSPIRE	30/01/2018 – 31/12/2023	DST
Project Fellow	24/12/2018 - 24/12/2020	National Academy of Sciences India
Ind. Project Fellow	Jan., 2019 03 Months	Industrial project
GH Rasoni Fellowship	July, 2018 to 01 year	GH Rasoni College, Jalgaon
GH Rasoni Fellowship	July, 2018 to 01 year	GH Rasoni College, Jalgaon
Newton-Bhabha Fellow	(1/04/2019- 31/7/2019) 4 months	DST, New Delhi & British Council
NASI	JRF (06-01-2019 to ongoing)	NASI, Allahabad
RGS&TC	JRF (03-05-2019 to ongoing)	UGC, New Delhi
Post-Doctoral	27.04.2018 to 27.04.2020	DST, New Delhi
Woman Scientist Scheme A	3 Year	DST, New Delhi
DST Inspire Fellow	5 Year	DST, New Delhi
Research Assistantships	13/04/2018 to 04/02/019	TEQIP-III
Research Assistantships(4)	21.05.2018 to 31.03.2020	TEQIP-III
JRF	06.07.2018 to 06.07.2023	UGC

### 3.2 Resource Mobilization for Research

#### 3.2.1 Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding Agency	Total grant Sanctioned (Rs. in lakhs)	Amount received during the year (Rs. in lakhs)
Major projects	01-02-2019 to 31-01-2022	RGSTC, Mumbai	68.20	24.05
Major projects	01-01-2018 To 01-06-2019	Rajya Marathi Vikas Sanstha, Mumbai	06.42	04.90
Major projects	24.11.2018 To 2020	NASI, India	08.34	05.00
Major projects	17-10-2018 to 17-10-2020	National Science Academy India	08.33	04.00
Major projects	25-10-2018 To Ongoing	NASI, Allahabad	08.33	04.16
Major projects	25-03-2019 to 31-03-2024	SERB, DST, New Delhi	155.00	-
Major projects	01-04-2018 to 31-03-2021	Science and Engineering Research Board (SERB), Department of Science and Technology (DST) , Govt	07.64	04.90
Major projects	09-01-2018 to 09-01-2020	RMVS, Mumbai	07.42	07.42
Major projects	01-03-2019 to 01-03-2022	SERB, DST	21.28	07.23
Major projects	25-03-2019 to Till date	ICSSR, New Delhi	10.00	04.00
Major projects	15-06-2018 To till date	DST-SERB, New Delhi	28.60	20.15
Major projects	27-09-2018 to 31-8-2019	UGC, New Delhi	10.00	08.00
Minor Projects	01-08-2018 to 01-12-2018	Quick Heal Foundation, Pune	03.03	03.03
Interdisciplinary Projects	04-01-2017 ongoing	BRNS	26.97	26.97
Industry sponsored Projects	Nil	Nil	Nil	Nil
Projects sponsored by the University	01-01-2019 to 19-04-2019	KBC North Maharashtra University, Jalgaon	01.01	00.80
Students Research Projects ( <i>other than compulsory</i> )	Nil	Nil	Nil	Nil
International Projects	Nil	Nil	Nil	Nil
Any other(Specify)	Nil	Nil	Nil	Nil
<b>Total</b>	<b>-</b>	<b>-</b>	<b>370.57</b>	<b>124.61</b>

### 3.3 Innovation Ecosystem

#### 3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of Workshop/Seminar	Name of the Dept.	Date(s)
Intellectual Property Right and Patent System in India	School of law and IPR Cell KBCNMU, Jalgaon.	12 <sup>th</sup> March 2019

#### 3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
1) Preparation of low cost educational kit for teaching science to high school students	First Prize Smt. Tayade Swati Laxman	Chancellor sponsored Event Avishkar-2018 Maharashtra Govt.	15-18 Jan., 2019	Running Trophy in theme area Social Science, Humanities, Commerce & Law
2) Hearing gadget for divyang people based on vibrations	First Prize Mr. Shubham Sanjiv Patil	Chancellor sponsored Event Avishkar-2018 Maharashtra Govt.	15-18 Jan., 2019	Engineering, PG level
3) Agro-outsourcing centre : A sustainable mechanism for rural development	First Prize Smt. Vibha Rahul Patil	Chancellor sponsored Event Avishkar-2018 Maharashtra Govt.	15-18 Jan., 2019	Commerce & Management, Post PG Level
4) BEDI: Biosafety bottle for women	First Prize Ms. Manisha Sunil Chaudhari	Chancellor sponsored Event Avishkar-2018 Maharashtra Govt.	15-18 Jan., 2019	Social Science & Humanities, UG Level
5) Microbial biosynthesis of calcium phosphate nanoparticles in gut	Second Prize Mohamed ShahRukh Shah Hamid Shah	Chancellor sponsored Event Avishkar-2018 Maharashtra Govt.	15-18 Jan., 2019	Pure Science, PG Level
6) Hearing gadget for divyang people based on vibrations	Second Prize Mr. Shubham Sanjiv Patil	West Zone Anewshan Pacific University, Udaipur	9-10 Jan2019	Engineering, PG Level
7) BEDI: Biosafety bottle for women	First Prize Ms. Manisha Sunil Chaudhari	West Zone Anewshan, Pacific University, Udaipur	9-10 Jan2019	Social Science & Humanities, UG Level
8) Hearing gadget for divyang people based on vibrations	First Prize Mr. Shubham Sanjiv Patil	National Student Research Convention organized by Association of Indian Universities, New Delhi at Ganpat University Mehasana	12-14 March, 2019	Engineering, PG Level
9) BEDI: Biosafety bottle for women	Ms. Manisha Sunil Chaudhari	Chancellor sponsored Event Avishkar-2018 Maharashtra Govt.	15-18 Jan., 2019	Social Science, Humanities, Commerce & Law

**3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year**

<b>Incubation Centre</b>	<b>Name</b>	<b>Sponsored by</b>
One	Centre for Innovation, Incubation and Linages, KBCNMU	Maharashtra State Innovation Society, Maharashtra Govt.

<b>Name of the Start-up</b>	<b>Nature of Start-up</b>	<b>Date of commencement</b>
Initially 05 start-ups proposed to incubate in the Incubation Centre	Nil	Nil

**3.4 Research Publications and Awards****3.4.1 Ph. Ds awarded during the year**

<b>Name of the Department</b>	<b>No. of Ph. Ds Awarded</b>
School of Chemical Science	15
University Institute of Chemical Technology	07
School of Life Science	09
School of Environmental and Earth Sciences	03
School of Physical Sciences	09
School of Management Studies	03
School of Social Sciences	00
School of Arts and Humanities	01
School of Computer Sciences	02
School of Mathematical Sciences	03
School of Languages and Research Centre	05
School of Education	00

**3.4.2 Research Publications in the Journals notified on UGC website during the year**

	<b>Department</b>	<b>No. of Publication</b>	<b>Average Impact Factor, if any</b>
National	School of Chemical Science	05	0.506
	University Institute of Chemical Technology	07	
	School of Life Science	03	
	School of Environmental and Earth Sci.	20	
	School of Physical Sciences	02	
	School of Management Studies	04	
	School of Social Sciences	03	0.26
	School of Computer Sciences	22	
	School of Mathematical Sciences	11	
	School of Education	03	
	School of Lang. and Research Centre	06	
International	School of Chemical Science	75	1.99
	U.I.C.T.	56	1.20
	School of Life Science	27	1.74
	School of Environmental and Earth Sci.	09	0.32
	School of Physical Sciences	41	1.169
	School of Computer Sciences	19	0.044
	School of Mathematical Sciences	08	0.45

### 3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	No. of publication
School of Chemical Sciences	02
University Institute of Chemical Technology	01
School of Life Sciences	06
School of Environmental and Earth Sciences	-
School of Physical Sciences	01
School of Management Studies	-
School of Social Sciences	01
School of Arts and Humanities	-
School of Computer Sciences	12
School of Mathematical Sciences	-
School of Languages and Research Centre	02
School of Education	01

### 3.4.4 Patents published/awarded during the year

Patent Details	Patent status Published/Filed	Patent Number	Date of Award
Construction of novel shell materials using renewable source based phenol for encapsulation of bioactive	filed	TEMP/E-2/686/2019-MUM Filing no 201921011393	-
A Method To Select Gamete Donor Selection	Published	App No 201621026217 A	-
Personality Dimension Calculator	Published	Application No.201821043341 A, International classification :G06Q 10/00	-
Construction of novel shell materials using renewable source based phenol for encapsulation of bioactive.	filed	TEMP/E-2/686/2019-MUM Filing no 201921011393	-

### 3.4.5 Bibliometric of the publications during the last Academic year based on average citation index in Scopus/Web of Science or PubMed/ Indian Citation Index

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations
<b>Annexure 1</b>						

### 3.4.6 h-Index of the Institutional Publications during the year. (based on Scopus/Web of Science)

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the publication
<b>Annexure 1</b>						

**3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :**

<b>No. of Faculty</b>	<b>International level</b>	<b>National level</b>	<b>State level</b>	<b>Local level</b>
Attended Seminars/ Workshops	-	56	-	-
Presented papers	32	86	09	45
Resource Persons	-	64	-	-

**3.5 Consultancy :****3.5.1 Revenue generated from Consultancy during the year**

<b>Name of the Consultant(s) department</b>	<b>Name of Consultancy project</b>	<b>Consulting/Sponsoring Agency</b>	<b>Revenue generated (Rs.)</b>
UICT	Revenue generated through Instrumentation facility (FESEM, XRD, DSC, TGA, etc) against sample testing charges)	Affiliated colleges, other universities and Industries	365840
Chemical Science	Microencapsulation based perfume formulation	Trucapsol LLC, USA	10,00,000
Environmental and Earth Sci.	Environmental Audit	M.J. College, Jalgaon	1000
Environmental and Earth Sci.	Environmental Audit	Ajantha Pharma Ltd. Waluj Aurangabad	2,50,000
Environmental and Earth Sci.	Analytical Services	Local Industries	29,000
Environmental and Earth Sci.	Environmental Audit	KYDSC Trusts Institute of Management and Science, Bhusaval	15,000
Environmental and Earth Sci.	Environmental Audit	KYDSC Trusts College of Pharmacy, Bhusaval	15,000
Environmental and Earth Sci.	Environmental/Green Audit	J.T. Mahajan Collage of Engineering, Faizpur Tal Raver, Dist. Jalgaon	12,300
Environmental and Earth Sci.	Geophysical Survey for Goundwater Prospecting	Mr. A. C. Patil	1,500
Environmental and Earth Sci.	-do-	Mr. Pritam Salunkhe, Jalgaon	1,500
Environmental and Earth Sci.	-do-	Mr. Ketan Toke, Jalgaon	3,000
Environmental and Earth Sci.	-do-	Anil Chordia, Chalisgaon	3,280
Environmental and Earth Sci.	Green/Environmental Audit	Institute of Management & Science and Collage of Pharmacy, Sakegaon	30,000
Environmental and Earth Sci.	Geophysical Survey for Goundwater Prospecting	Chandrasekhar Mahajan	25,000

**3.5.2 Revenue generated from Corporate Training by the institution during the year**

<b>Name of the Consultant(s) &amp; Department</b>	<b>Title of the Programme</b>	<b>Agency seeking training</b>	<b>Revenue generated (amount in rupees)</b>	<b>Number of trainees</b>
Nil	Nil	Nil	Nil	Nil

### 3.6 Extension Activities:

#### 3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers coordinated in such activities	Number of students participated in such activities
Industrial Visits-2019	Jain Irrigation Systems Ltd., Jalgaon	02	45
Short Term Training Program - Processing, Testing and quality of Plastic Products	Central Institute of Plastics Engineering and Technology (CIPET), Aurangabad	05	07
Earn and Learn Scheme	Quick Heal Foundation & Students of School of Computer Sciences	05	40
PACE	SOCS, KBCNMU Under UKIERI Leadership and Management Programme	02	69
Impact of Global Warming: Awareness Programme	Department of Student Welfare	07	98
Research Project Presentation Competition	Department of Student Welfare	09	80
34th IIRS Outreach Programme	Indian Institute of Remote Sensing	06	5
35th IIRS Outreach Programme	Indian Institute of Remote Sensing	06	13
36th IIRS Outreach Programme	Indian Institute of Remote Sensing	06	34
37th IIRS Outreach Programme	Indian Institute of Remote Sensing	06	30
38th IIRS Outreach Programme	Indian Institute of Remote Sensing	06	35
39th IIRS Outreach Programme	Indian Institute of Remote Sensing	06	11
40th IIRS Outreach Programme	Indian Institute of Remote Sensing	06	02
Industrial Visits-2019	Jain Irrigation Systems Ltd., Jalgaon	02	45
Short Term Training Program - Processing, Testing and quality of Plastic Products	Central Institute of Plastics Engineering and Technology (CIPET), Aurangabad	03	07
Blood Donation Camp	Blood Bank Civil Hospital, Jalgaon	07	125
Promotion of Mathematics Research and Opportunities	NCSTC, DST, Government of India and RGSTC, Government of Maharashtra	07	180
Quiz Test / PPT/Poster Presentations	NCSTC, DST, Government of India and RGSTC, Government of Maharashtra	04	450
Clean Campus Mission Program	Department of Mathematics, NMU, Jalgaon	04	69
Tree Plantation	Department of Mathematics, NMU, Jalgaon	04	27
Well-come Program (Cultural Activity)	Department of Mathematics, NMU, Jalgaon	04	65
Fare-well Program (Cultural Activity)	Department of Mathematics, NMU, Jalgaon	04	71
Tree-Plantation	UG & PG Unit, NMU, Jalgaon	04	201
Campus Cleaning	UG & PG Unit, NMU, Jalgaon	04	178
Rallye for Help Kerala flood affected People	UG & PG Unit, NMU, Jalgaon	15	450

Nirmalya Sankalan	UG & PG Unit, NMU, Jalgaon	08	64
Winter Camp	UG & PG Unit, NMU, Jalgaon	03	115
Aids Awareness	UG & PG Unit, NMU, Jalgaon	03	29
Tobacco Shapath	UG & PG Unit, NMU, Jalgaon	67	78
Vachan Prerana Din	UG & PG Unit, NMU, Jalgaon	30	147
NSS Day	UG & PG Unit, NMU, Jalgaon	07	141
Women's Day	UG & PG Unit, NMU, Jalgaon		64
Voters Awareness Day	UG & PG Unit, NMU, Jalgaon	03	140
Workshop: Ramanujan and his work	NCSTC, DST, Government of India and RGSTC, Govt. of Maharashtra	04	210
Quiz Test / PPT/Poster Presentations	NCSTC, DST, Government of India and RGSTC, Govt. of Maharashtra	10	587
State Level Workshop on NET/SET Examination	Department of Mathematics, KBCNMU, Jalgaon	04	64
Recent Trends in Mathematics	NCSTC, DST, Government of India and RGSTC, Govt. of Maharashtra	04	250
Quiz Test / PPT/Poster Presentations	NCSTC, DST, Government of India and RGSTC, Govt. of Maharashtra	12	750
Clean Campus Mission Program	Department of Mathematics, NMU, Jalgaon	04	55
Tree Plantation	Department of Mathematics, NMU, Jalgaon	04	36
Well-come Program (Cultural Activity)	Department of Mathematics, NMU, Jalgaon	04	78
Fare-well Program (Cultural Activity)	Department of Mathematics, NMU, Jalgaon	04	69

### 3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
Utkarsh Samajik Sanskrutik Spardha, 2019	Essay Competition (1 <sup>st</sup> and 3 <sup>rd</sup> prize)	NSS Maharashtra State Department	02
National Integration Camp- 2019	- Best NSS Volunteer Award - Poster Making ( 2 <sup>nd</sup> Prize)	NSS- HRD New Delhi	02

### 3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated in such activities	Number of students participated in such activities
Tree plantation-2018	School of Chemical Sciences	Tree plantation	03	18
LISH-2019	School of Chemical Sciences	Workshop	06	248
National Science Day - 2019 (NSD-2019)	School of Chemical Sciences	Science Popularization	05	200

World Women's Day Celebration	School of Computer Sciences	Play	01	90
CSR Initiative	Environmental and Earth Science	Cyber Security Awareness	01	02
Fund Collection for Kerala Flood Affected	Environmental and Earth Science	Fund Collection for Kerala Flood Affected	04	29
Voter Awareness	Environmental and Earth Science	Voter Awareness	01	07
Swacha Bharat	School of Physical Sciences	Cleaning School Premises	03	96
Tree Plantation	School of Physical Sciences	Tree Plantation	03	95
Induction Programme	UICT	Swacha Bharat	07	200
Open House and Annual Gathering	UICT	Tree Plantation	09	200

### 3.7 Collaborations:

#### 3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of financial support	Duration
Successfully localized User Interface for GIMP	Prof. M. R. Joshi, Dr. S. B. Shirude	Rajya Marathi Vikas Sanstha, Mumbai	2 Year
Published Paper and Book Chapter	Prof. Lingras	-	2 Year
Collaborative Research	Prof. Vijay L Maheshwari Dr. Pankaj K Pawar, Dr. Ashok P Giri	RGSTC, Govt of Maharashtra, Mumbai	3 Years
Delivered lectures on International Negotiation at SOMS, NMU	Visit of Dr. Scott Venezia,	Participants own University	(18/01/2018 & 19/1/2018)
Delivered lectures Doing Business in Mexico at SOMS, NMU	Dean of College of Business and Management, CETYS University, Mexico	Participants own University	(18/01/2018 & 19/1/2018)
Delivered complete Finance module to MBA Students	Guadalupe Sanchez - Dean School Of Business at CETYS University	Participants own University	1/7/18 to 18/8/2018)
Visit to Nova University, Portugal for discussion on capacity building in Higher Education	Prof. Anil Dongre	CABCIN Consortia Project	23/3/19 to 29/3/19
Participated in capacity Building workshop	Dr. Ramesh Sardar Dr. R. R. Chavan Dr. Pavitra Patil	CABCIN Consortia Project	29 & 30/8/18 8 & 9/10/18 17-18/9/2018

### 3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
Research	Project work on “Magnetic Parameters of Cheyyar Sediments and Geochemistry of Panhala Basalt”	Indian Institute of Geomagnetism, Panvel	4/12/2018 – 16/01/2019	Patil Mayur Sunil
Research	Project work on “Geo-electrical studies over lateritic terrain for deciphering groundwater potential zones around Chiplun-Guhagar, Maharashtra”	Indian Institute of Geomagnetism, Panvel	1 <sup>st</sup> Dec. 2018 - 31 <sup>st</sup> Jan. 2019	Patil Ajinkya
Research	Project work on “Delineating Potential Aquifer Zones over Dyke Swarms in Parts of Nandurbar District, Northern Maharashtra Using Geoelectrical Indices”	Indian Institute of Geomagnetism, Panvel	20th May – 28th June, 2019	Mali Manohar Sudam
Research	Project work on “Application of Elemental Geochemistry in Provenance and Paleoclimatic Reconstruction”	Institute of Seismological Research, Gandhinagar	3/12/2018 – 15/01/2019	Patil Vishal Vijay
Research	Project work on “Aquifers in Flood Basalt”	National Geophysical Research Institute, Gandhinagar Hyderabad	11/12/2018 – 10/01/2019	Kishor V. Katange
Academic	Geological cum Structural Mapping	Atomic Minerals Directorate for Exploration and Research, Bengaluru	4/12/2018 – 29/12/2018	Mali Jayesh Satish
Training	Professional Training	Western Coalfields Ltd.	10/01/2019 – 16/01/2019	Aglawe Suchit Bala
Training	Professional Training	Western Coalfields Ltd.	10/01/2019 – 16/01/2019	Jagtap Ajay Nanaji
Consultancy	Industrial project	Truecapsul Solution, USA	Jan., 2019 to Dec. 2019	01
As Consultant	Microbiology Laboratory setup and new product development	UPL Ltd., Mumbai	2018-19	Prof. Bhushan L. Chaudhari
As Consultant	Microbiology Laboratory setup and new product development	UPL Ltd., Mumbai	2019-20	Prof. Bhushan L. Chaudhari

### 3.7.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
TRuCapsol LLC Pune	28/12/2018	<ul style="list-style-type: none"> <li>Teaching research and training in science and technology</li> <li>IPR</li> </ul>	40
Seutche Gesellschaft fur Homa-Therapie (German Association of Homa Therapy)	28-03-2018	<ul style="list-style-type: none"> <li>Identifying areas of environmental hazards.</li> <li>Systematic studies of the effect of Agnihotra and Homa Therapy on our Environment</li> <li>Finding out underlying mechanisms</li> </ul>	60
Indian Institute of Tropical Meteorology Pune	21/05/2018	<ul style="list-style-type: none"> <li>Identifying areas of environmental hazards</li> <li>Teaching research and training in selected and advanced trust areas of S and T, with special reference to earth science.</li> <li>IPR</li> </ul>	115
Quick Heal	16/05/2018 to 31 March 2019	Cyber security awareness in the society, students in the schools and colleges.	51000

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**CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES****4.1 Physical Facilities:****4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year**

<b>Budget allocated for infrastructure augmentation</b>	<b>Budget utilized for infrastructure development</b>
4693.00 Lakh	1674.01 lakh

**4.1.2 Details of augmentation in infrastructure facilities during the year**

Facilities	Existing	Newly added
Campus area	660 Acres	-
Class rooms	104	-
Laboratories	120	-
Seminar Halls	20	-
Classrooms with LCD facilities	44	-
Classrooms with Wi-Fi/ LAN	104	-
Seminar halls with ICT facilities	20	-
Video Centre	03	-
No. of important equipment's purchased ( $\geq$ 1-0 lakh) during the current year.	324	17
Value of the equipment purchased during the year (Rs. in Lakhs)	0	253.42
Others		

**4.2 Library as a Learning Resource:****4.2.1 Library is automated {Integrated Library Management System (ILMS)}**

<b>Name of the ILMS software</b>	<b>Nature of automation (fully or partially)</b>	<b>Version</b>	<b>Year of automation</b>
SOUL 2.0	Library is automated using Integrated Library Management System (ILMS) SOUL 2.0 (Partially)	2.0	2000

**4.2.1 Library Services:**

	<b>Existing</b>		<b>Newly added</b>		<b>Total</b>	
	<b>No.</b>	<b>Value</b>	<b>No.</b>	<b>Value</b>	<b>No.</b>	<b>Value</b>
Text Books	78819	986	3116	130 Lakh	82311	1116 lakh
Reference Books	4643	23.04	376	14.17 Lakh	5019	37.75 Lakh
e-Books	-	-	-	-	-	-
Journals	90	5.58	-	-	90	5.58 Lakh
e-Journals	25000+	UGC INBLIBNET	-	-	25000+	UGC INBLIBNET
Digital Database	02	25 Lakh	01	02.26 Lakh	03	27.26 Lakh
CD & Video	850	Received with Book	50	Received with book	900	Received with book
Library automation	-	-	-	-	-	-
Weeding (Hard & Soft)	-	-	-	-	-	-
Others (specify)	-	-	-	-	-	-

**4.2.2 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc.**

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content
Nil	Nil	Nil	Nil

**4.3 IT Infrastructure:**

**4.3.1 Technology Upgradation (overall)**

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MGBPS)	Others
Existing	1802	31	1 Gbps 2 Mbps	09	02	382	1206	1 GBPS	
Added	-	-	-	-	-	-	-	-	
Total	1802	31	1 Gbps 2 Mbps	09	02	382	1206	1 GBPS	

**4.3.2 Bandwidth available of internet connection in the Institution (Leased line)**

1 GBPS

**4.3.3 Facility for e-content**

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
E-Studio	<a href="http://nmu.ac.in/iqac">http://nmu.ac.in/iqac</a>

**4.4 Maintenance of Campus Infrastructure:**

**4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year**

Assigned budget on academic facilities	Expenditure incurred on maintenance of	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
1538.50	410.98	8920.50	2452.79

**4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)**

<http://nmu.ac.in/iqac>

**CRITERION V - STUDENT SUPPORT AND PROGRESSION****5.1 Student Support:****5.1.1 Scholarships and Financial Support**

	<b>Name /Title of the scheme</b>	<b>Number of students</b>	<b>Amount in Rupees</b>
Financial support from institution	Viddharthi Duttak Yojana	77	10,34,000
	Arthik Durbal Yojana	2038	70,84,000
Financial support from other sources			
a) National	All type of scholarship and free ship	1718	1,88,95,776
b) International	Nil	Nil	Nil

**5.1.2 Number of capability enhancement and development schemes such as Soft Skill Development, Remedial Coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,**

<b>Name of the capability enhancement scheme</b>	<b>Date of Implementation</b>	<b>Number of students enrolled</b>	<b>Agencies involved</b>
NET and SET coaching	2018-19	64 + Social Science	In collaboration with Department of Education
Career Counselling	2018-19	30	Solace Psychological Testing, Counselling and Career Guidance
Psychology Lab	2018-19	30	Department of Psychology
Personal Counselling	2018-19	30	Department of Psychology
Entrepreneurship Awareness Programme	2016-19	100	Maharashtra Centre of Entrepreneurship Development, Jalgaon Chapter
Yoga Training Program for UICT students	2018-19	120	University Yoga Centre
Yoga demonstration in Yuvarang 2019	2018-19	500	University Yoga Centre
Yoga Training Class for Girls Hostels	2018-19	140	University Yoga Centre
Total Fitness and Yoga for NSS students	2018-19	96	University Yoga Centre
Yoga for summer School Students	2018-19	50	University Yoga Centre
International Yoga Day Celebration	2018-19	400	University Yoga Centre

### 5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2018-19	Coaching Scheme for ST students funded by Tribal Research and Training Institute, Pune. Govt. of Maharashtra	50	50	01	01

### 5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
01 Online (ASC College, Bhadgaon)	01 (ASC College Bhadgaon letter on dated 25.01.2019 this grievances hearing and withdraw)	00.1

## 5.2 Student Progression:

### 5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
48	210	149	-	-	-

### 5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-19	Rahul Dilip Patil	M.Sc.(Environ. Sciences)	Environmental Sciences	K.B.C.N.M.U, Jalgaon	M. Tech. in Environmental Sci. and Technology)
2018-19	Bankar Digambar Bhaskar	B.Sc.(Actuarial Science)	Department of Actuarial Science, K.B.C.N.M.U, Jalgaon	SPPU, Pune	M.Sc. (Statistics)
2018-19	Bhalkar Komal Shravan			K.B.C.N.M.U, Jalgaon	M.Sc. (Statistics)
2018-19	Bhalkare Rohit Popat			SPPU, Pune	M.Sc. (Statistics)
2018-19	Bhave Shruti Narendra			NIIT Centre, Pune	PGDBO (Certificate Course)
2018-19	Chaudhari Jayesh Deepak			Madras University	M.Sc.(Actuarial Science)

2018-19	Chaudhari Yogesh R.			K.B.C.N.M.U, Jalgaon	M.Sc. ( Statistics)
2018-19	Gadekar Satyam Pradip			Hyderabad	Data Science (Certificate Course)
2018-19	Kapure Shubham Udayraj			SPPU, Pune	M.Sc. (Statistics)
2018-19	Mamta Patel			Madras University	M.Sc. (Actuarial Science)
2018-19	Moghe Utkarsha Milind			Madras University	M.Sc. (Actuarial Science)
2018-19	More Sayali Tanaji			K.T.H.M College, Nashik	M.Sc. (Statistics)
2018-19	Neve Prasad Madhukar			Madras University	M.Sc. (Actuarial Science)
2018-19	Shirode Bhushan Pravin			K.B.C.N.M.U, Jalgaon	M.Sc. (Statistics)
2018-19	Yadav Atul Ramkailas			Hydrabad	Data Science (Certificate Course)
2018-19	Dr. Kiran Ramesh Marathe	Ph.D.	Department of Biotechnology	UICT,KBCN MU, Jalgaon	DST-N-PDF

**5.2.3 Students qualifying in state/ national/ international level examinations during the year  
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)**

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	12	52002802, 46002389, 178005, 46001074, MR1302501206, MR1302500424, 142010, MR1302501352, 535066, 182005391/ 531367, 534274, 181053798
SET/SLET	18	100868, 142010, 141949, 140575, 140535, 140472, 141389, 177107, 141327, 753114, 753147, 753043, 753170, 723555, 19201849/800816, 800965, 800915,142181
GATE	03	ST19S42043151, ST19S42043061, ST19S42043105
GMAT	-	-
CAT	-	-
GRE	-	-
TOFEL	-	-
Civil Services	-	-
State Government Services	-	-
Any Other	-	-

### 5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants
Mahatma Phule and Dr.Babasaheb Ambedkar Sanyukt Jayanti Celebrate Department and University	University Level	361
Sport week – 11th– 13th Jan, 2019	University Level	150
National Science Day Quiz Competition – 18th March 2019	University Level	350
Principal and students development officer workshop	University Level	101
Inter University Poet Redding Competition	University Level	26
Disaster Management and Treading Wrokshop	University Level	139
Adventure Workshop	University Level	136
Inter University Essay Competition	University Level	16
Kai. Bhaisaheb Y.S. Mahajan Girls Elocation Comp.	University Level	31
Anchoring Workshop	University Level	250
Yearly Magazine Editor Workshop	University Level	49
Powada Singing Skill Workshop	University Level	30
Late G. V. Abhanykar Marathi Natyageet and Late Shantabai Abhyankar Marathi Bhavgeet Singing Competition	University Level	20
P. G. Alexzander Elocution	University Level	12
Sardar Vallabhbhai Patel Rashtri Ekata Daud	University Level	200
Govt of Maharashtra Mahawalkathon	University Level	900
Magazine Competition	University Level	49
Maitri Workshop	University Level	80
Voter Awareness Campaign	University Level	2350
Voter Awareness Campaign and Competition( Poster, Elocution and Rangoli)	University Level	220
Kavi Kushumgraj Marathi Bhasha Gaurav Din	University Level	800
Inter College Youth Festival Yuvarang- Erandol Division	University Level	900
Inter College Youth Festival Yuvarang - Jalgaon	University Level	1200
Inter College Youth Festival Yuvarang - Dhule	University Level	1050
Inter College Youth Festival Yuvarang - Nandurbar	University Level	950
University Level Youth Festival Yuvarang	University Level	1350
University Level Memory Techniques	University Level	200
Student Development Central Audit Program	University Level	64

### 5.3 Student Participation and Activities:

#### 5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/ international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ Internat- ional	Sports	Cul- tural	Student ID number	Name of the student
2018-19	Silver Medal	National	Malkhamb (Men)	-	2018015400025115	Chavan Guruprasad Kantilal
2018-19	Silver Medal	National	Malkhamb (Men)	-	2013015400173491	Jawale Arvind Bhimrao
2018-19	Silver Medal	National	Malkhamb (Men)	-	2016015400092896	Yeshirao Jaywant Anil
2018-19	Silver Medal	National	Malkhamb (Men)	-	2018015400236026	Gawali Rohit Arjun

2018-19	Silver Medal	National	Malkhamb (Men)	-	2018015400121977	Panaskar Abhishek Shivaji
2018-19	Gold Medal	National	Weight Lifting 55 Kg	-	2018015400404015	Koli Prashant Suresh
2018-19	Silver Medal	National	Weight Lifting 61 Kg	-	2018015400282666	Mahajan Govinda Sunil
2018-19	Gold Medal	National	Softball (Men)	-	2013015400459993	Talvelkar Sumedh Pradip
2018-19	Gold Medal	National	Softball (Men)	-	2014015400247677	Kolhe Kalpesh Jayprakash
2018-19	Gold Medal	National	Softball (Men)	-	2015015400277395	Patil Pritish Ramesh
2018-19	Gold Medal	National	Softball (Men)	-	2015015400095321	Patil Sagar Rajendra
2018-19	Gold Medal	National	Softball (Men)	-	2017105400152576	Chaudhari Gaurav Kiran
2018-19	Gold Medal	National	Softball (Men)	-	201801540039271	Chavan Shriram Ramesh
2018-19	Gold Medal	National	Softball (Men)	-	2017015400332493	Sonawane Abhijit Kiran
2018-19	Gold Medal	National	Softball (Men)	-	2015015400149943	Jadhav Kalpesh Ishwar
2018-19	Gold Medal	National	Softball (Men)	-	8152000197	Wani Dhirajkumar Shaligram
2018-19	Gold Medal	National	Softball (Men)	-	2018015400104503	Ausekar Mayuresh Devidas
2018-19	Gold Medal	National	Softball (Men)	-	2018015400104573	Patil Mohit Shyam
2018-19	Gold Medal	National	Softball (Men)	-	2016015400433805	Patil Chandradeep Nanaji
2018-19	Gold Medal	National	Softball (Men)	-	2017015400223067	Sonawane Dhiraj Anil
2018-19	Gold Medal	National	Softball (Men)	-	2017015400321696	Gadilohar Sachin Bhagwat
2018-19	Gold Medal	National	Softball (Men)	-	2018015400221352	Jaware Amol Satish
2018-19	Gold Medal	National	Softball (Men)	-	2014015400369933	Girase Amarsing Dhansing
2018-19	Gold Medal	National	Softball (Men)	-	2018015400151117	Chavan Harshdeep Nitin
2018-19	Gold Medal	National	Softball (Men)	-	2015015400095433	Mahajan Akash Ashok
2018-19	Bronze Medal	National	Floorball (Women)	-	2018015400401856	Shende Ankita Namdeo
2018-19	Bronze Medal	National	Floorball (Women)	-	2017015400349603	Sonawane Dipika Chandrakant
2018-19	Bronze Medal	National	Floorball (Women)	-	2017015400349611	Mali Pratiksha Ravindra
2018-19	Bronze Medal	National	Floorball (Women)	-	2017015400349642	Marathe Rupali Rajendra
2018-19	Bronze Medal	National	Floorball (Women)	-	2018015400310943	Patil Prajakta Bharatsing
2018-19	Bronze Medal	National	Floorball (Women)	-	201501540077903	Moharkar Pooja Sanjay
2018-19	Bronze Medal	National	Floorball (Women)	-	2015015400077911	Sonawane Komal Manoj
2018-19	Bronze Medal	National	Floorball (Women)	-	2017015400005485	Kale Ojaswini Rajendra
2018-19	Bronze Medal	National	Floorball (Women)	-	2015015400075893	Suryawanshi Archana Vasant
2018-19	Bronze Medal	National	Floorball (Women)	-	2018015400168642	Thakare Madhavi Ashok

2018-19	Bronze Medal	National	Floorball (Women)	-	2018015400296055	Thakare Mansi Bhalchandra
2018-19	Bronze Medal	National	Floorball (Women)	-	2018015400279061	Bhoi Manisha Shankar
2018-19	Bronze Medal	National	Floorball (Women)	-	2016015400457765	Sonawane Varsha Bhagwan
2018-19	Bronze Medal	National	Floorball (Women)	-	2014015400184532	Shewale Nutan Vijay
2018-19	Bronze Medal	National	Floorball (Women)	-	2017015400360222	Shinde Prerna Vilas
2018-19	Bronze Medal	National	Mini Golf (Men) Stroke	-	2018015400222912	Shinde Sushikant Godilal
2018-19	Bronze Medal	National	Mini Golf (Men) Stroke	-	2017015400216791	Kasar Prasad Sanjay
2018-19	Bronze Medal	National	Mini Golf (Men) Stroke	-	201701540042	Sapkale Mayur Kailas
2018-19	Bronze Medal	National	Mini Golf (Men) Stroke	-	606371775420 31001	More Aditya Yashwantrao
2018-19	Bronze Medal	National	Mini Golf (Men) Stroke	-	2018015400221046	Thakur Manish Kundansingh
2018-19	Bronze Medal	National	Mini Golf (Men) Stroke	-	2013015400240893	Sapkale Raju Bhaskar
2018-19	Bronze Medal	National	Mini Golf (Men) Stroke	-	2018015400529160	Shirsale Gaurav Bhanudas
2018-19	Bronze Medal	National	Mini Golf (Men) Stroke	-	2018015400265343	Chaudhari Chetan Subhash
2018-19	Bronze Medal	National	Mini Golf (Men) Stroke	-	2014015400246024	Badgujar Vaibhav Pradip
2018-19	Silver Medal	National	Mini Golf (Men) Stroke	-	875950735042	Sonawane Shekhar Satish
2018-19	Bronze Medal	National	Mini Golf (Women) Stroke	-	2017015400034361	Bagul Minakshi Rajendra
2018-19	Bronze Medal	National	Mini Golf (Women) Stroke	-	2017015400037154	Thakare Manali Rajesh
2018-19	Bronze Medal	National	Mini Golf (Women) Stroke	-	2017015400034384	Bhalerao Suchita Raosaheb
2018-19	Bronze Medal	National	Mini Golf (Women) Stroke	-	2017015400036986	Chaudhari Dipmala Kailas
2018-19	Bronze Medal	National	Mini Golf (Women) Stroke	-	2018015400057465	Mali Nayan Santosh
2018-19	Bronze Medal	National	Mini Golf (Women) Stroke	-	2017015400350301	Bharambe Manasi Shrikant
2018-19	Bronze Medal	National	Mini Golf (Women) Stroke	-	2015015400127375	Tayade Shital Amrut
2018-19	Bronze Medal	National	Mini Golf (Women) Stroke	-	2015015400073801	Gavit Priti Gopal

2018-19	Bronze Medal	National	Mini Golf (Women) Stroke	-	2015015400424643	Patil Vaishnavi Rohidas
2018-19	Bronze Medal	National	Mini Golf (Women) Stroke	-	2018015400333242	Drakshe Pornima Sanjay
2018-19	Bronze Medal	National	Mini Golf (Women) Fairway	-	2017015400037034	Gaikwad Komal Ravindra
2018-19	Bronze Medal	National	Mini Golf (Women) Fairway	-	2017015400034384	Bhalerao Suchita Raosaheb
2018-19	Bronze Medal	National	Mini Golf (Women) Fairway	-	2017015400349603	Sonawane Dipika Chandrakant
2018-19	Bronze Medal	National	Mini Golf (Women) Fairway	-	2017015400351857	Joshi Shreya Sanjay
2018-19	Bronze Medal	National	Mini Golf (Women) Fairway	-	2015015400073801	Gavit Priti Gopal
2018-19	Bronze Medal	National	Mini Golf (Women) Fairway	-	2017015400304945	Pawara Hatari Rulya
2018-19	Bronze Medal	National	Mini Golf (Women) Fairway	-	2016015400297547	Gavit Nita Joma
2018-19	Bronze Medal	National	Mini Golf (Women) Fairway	-	2015015400424643	Patil Vaishnavi Rohidas
2018-19	Inter University National Youth Festival <b>Spot Painting and Poster Making Appreciation</b>	National	-	Cultural		Piyush Prashant Badgujar
2018-19	South Ashiyan Intenational University Festival (SAUFEST) <b>Poster Making Appreciation</b>	International	-	Cultural		Piyush Prashant Badgujar

### 5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

With the objective of inculcating the qualities of leadership, organization, and responsibility in the students, an active Student Council is in place along with a strong representation of students in the academic and administrative bodies/committees. Students have active representation on academic and administrative bodies and committees of the university.

### **University Departments Students' Council:**

The University has University Departments Students' Council as specified under section 99 A. of the Maharashtra Public Universities Act, 2016. Student council contain one student from each University Department who has shown academic merit at preceding degree examination and is engaged in full time studies in the University Institutions or Departments or conducted college nominated by the Hon'ble Vice-Chancellor. In addition to these two girls are students are also nominated by the Pro-Vice-Chancellor.

### **Students' Council for each Institution and affiliated colleges:**

There is a Students' Council for each Institution and affiliated colleges consists of student members, One student from each of the following activities, who has shown outstanding performance in Sports, National Service Scheme and Adult Education, National Cadet Crops, Cultural Activities and two girl students are nominated by the Principal.

The members of both these councils elect the Secretary/University Representative as per Maharashtra Public Universities Act, 2016.

### **National Service Scheme Advisory Committee:**

National Service Scheme Advisory Committee consists of one or two NSS Students Representatives. The operational aims of university NSS programme is to integrate variety of learning experiences which will develop a sense of participation, service and achievement among the volunteers.

### **Academic Committee:**

Every School/Department of the University has an Academic Committee with representation of top ranker(s) of the final year undergraduate/post graduate examinations of previous year of concerned as invitee members for discussions on framing or revision of syllabus of that subject and other academic planning.

### **Students' Grievance Committee:**

Each School/Institute of the University has Students' Grievance Committee with representation of two Students (One Male & One Female) members which is a first redressal point for grievance of the students in a school.

### **Anti-Ragging Committee:**

Every School/Institute of the University has an Anti-Ragging Committee with two Students (One Male & One Female) representatives to redress the issues pertaining to ragging.

### **Training and Placement Committee:**

Every School/Institute of the University has a Training and Placement Committee with two or three student representatives. This committee works in coordination with Central Training and Placement Cell (CTPC) of the university.

### **Knowledge Resource Centre Committee:**

In each school two or three students of the school are members of this committee which advise and facilitate purchase of books/periodicals and journals in the Knowledge Resource Centre (Central Library) as well as in the School Library along with monitoring of regular work of the departmental library.

### **Organization of Special Events:**

Students organize, and celebrate National Science Day, on 28 February every year by honoring teachers, organizing quizzes, competitions, cultural programme and sports competitions. The other National celebrations that include, Independence Day, Foundation Day, Republic Day, Engineers Day, Open House and various NSS and social service activities.

## 5.4 Alumni Engagement:

### 5.4.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words): Yes

The Alumni Association is established with formal registration under specific title: Alumni Association of Kavayitri Bahinabai Chaudhari North Maharashtra University bearing registration No. MAH/17480/Jalgaon. Dated 04/09/2014 of 1999 during December, 2001. Several students are enrolled in Alumni Association and contributed Rs. 1000/- per head, while freshly enrolled students pay Rs. 250/per head towards fees every year.

Moreover, every School/Institute has its own Alumni Association to maintain a close liaison with alumni on regular basis under the aegis of NMUPSA. 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 School of Management Studies has also registered its Alumni Association vide registration No. MAH/100082 in the year 2008 and since then, the school organizes Alumni meets on regular basis.
- ii. The students of our university have reached top notch positions in various industries and academia through hard work and dedication. The Central Training and Placement Cell (CTPC) receives the information at periodic interval and seeks the supports from alumni in facilitating placement of present students.
- iii. The lifetime and senior placement assistance is provided to the alumni of the University by the CTPC for maintaining a strong bond of affection between the University and alumni.
- iv. Every School/Institute has an active Alumni Association under the aegis of NMUPSA to provide information about job opportunities and self-entrepreneurship development programmes provided by past students.

Alumni Association is in the process of preparation of alumni database and planned to explore enrolment drive from affiliated colleges too. In this process, plans are afoot for arranging alumni visits to the University, motivational talks by them to students based on their experiences and seeking their contributions for strengthening teaching-learning/for infrastructure development.

### 5.4.2 No. of registered Alumni: 600

### 5.4.3 Alumni contribution during the year (in Rupees) : Nil

### 5.4.4 Meetings/activities organized by Alumni Association : 05

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## **CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 Institutional Vision and Leadership:**

#### **6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)**

Decentralization and participative management are the credo of the University governance which reinforce the idea of autonomy and accountability through : Senate, Management Council, Academic Council, Board of Examinations and Evaluation, Board of Sports, Board of Studies, Finance and Accounts Committee, Purchase Committee, Building and Works Committee, etc. in accordance with the Maharashtra Public Universities Act, 2016. The University practices the said approach in all activities, initiatives and decision making by involving Deans, Directors of the schools, faculty members at all levels so as to ensure that every member is a part of the decisions taken thereof regarding academic, administrative, examinations, finance and students related matters. For syllabus, each school has academic flexibility and the academic committee prepares the syllabus of particular programme for approval by Academic Council.

The Vice Chancellor of University monitors the administration of the academic programmes and general administration of the university to ensure efficiency and performance of the University as per section 14 of Maharashtra Public Universities Act, 2016. The academic and administrative activities are supported by various statutory bodies and ensures proper implementation of policies of State, Central Government and apex bodies of higher education and research.

The University authorities prepare short-term and long-term plans to upgrade existing infrastructure, extend existing buildings, construct new buildings, enhance the facilities in the laboratories, strengthen computer and Internet connectivity, purchase of books/e-books/periodicals/Journals/e-journals/ health/sports equipment, etc. with physical and financial support systems.

#### **PRACTICE - 1:**

**Academic Flexibility :** 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. In this regard committee constituted under chairmanship of Director, B.C.U.D. has prepared rules & regulation for implementing academic flexibility in Schools/Departments as well as Credit-Grade based Performance and Assessment (GCPA) system.

In tuned with the concept & suggestion of UGC, New Delhi & NAAC, Bangalore, technological advancement and social needs to make teaching effective and meaningful, all Schools/Departments have accepted to adopt Credit-Grade based Performance and Assessment (CGPA) system form academic year 2009-2010 for all courses being run in the Schools/Departments.

#### **PRACTICE - 2:**

##### **Decentralization of Examination:**

Examinations and Evaluations are meant to assess the progress of students and their achievements so that firstly they know of their achievements and secondly feedback may be provided for further enhancements.

Therefore, continuous and comprehensive assessment should be included that assess not only the theoretical knowledge but the practical application of the knowledge, creativity, performance levels, qualities like punctuality, sense of responsibility, etc.

The university has adopted the decentralization of powers to the affiliated colleges for conducting examination of undergraduate courses. The first year UG examination is conducted by the affiliated colleges as per the time table published by the University. The Central Assessment Program for respective examinations are conducted by the affiliated colleges and the results are declared and submitted to University.

### 6.1.2 Does the institution have a Management Information System (MIS)?

Yes/No/Partial: **Yes**

- 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.
- Various online services are provided partly through in-house IT developments and partly through Third Party Engagements.
- The 1 GBPS connectivity under NMEICT Project of MHRD has been established on the campus.
- E-library services are managed through the Information Scientists working at Central Library.
- The Financial transactions and HR issues of administration department are handled using SAP since last 10 years and Business Intelligence tool is used for effective decision making.
- Affiliation and Research Section is having online affiliation process, approval process and PhD admission process which always helps to take appropriate decisions at university level and government.
- The examination department is issuing online appointments to examiners, paper setters, flying squad etc.

## 6.2 Strategy Development and Deployment:

### 6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

#### ❖ 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 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.
- 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 is done and accordingly implementation of corrective measures is incorporated in the syllabus.

#### ❖ Teaching and Learning:

To assure the better utilization of human resources and the infrastructural resources, the university has adopted concept of schools.

- Digitally equipped classrooms are available in all Schools/Institute with high quality LCD projector, LCD TV, digital podium, interactive pad and other accessories.

- Computer laboratories with high-speed Internet connectivity are available to the students in all Schools/Institute.
- Communication skills, group discussion practices, and phonetics/accent improvement is carried out through language laboratories.
- The faculty members were sent to various Pedagogical programmes/workshops based on Training Needs Analysis (TNA). The Academic Council, Faculty, Board of Deans and Board of Studies are the authorities to take review of teaching and learning process. These bodies review the teaching, learning process of Schools/Institute/affiliated colleges in their meetings and suggest improvements which are communicated 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. The Maharashtra Public University Act. 2016 was implanted from 1st March 2017.

❖ **Examination and Evaluation:**

- **End to End use of ICT for reforms in examination are implemented module wise**  
(Examination forms, Hall ticket, Appointment orders, Result declaration etc.)
- **Cashless transaction in the University for ICT based module:**  
Examination form, Redressal / Verification / Transcript / Degree verification and Convocation form fill up through online payment gateway.
- **Secure Delivery of Examination Papers:**  
Online question papers are delivered for all university examination. For March 2019 examinations 2306 questions papers were delivered online through secure delivery of Question papers.
- **Digital Scanning and Onscreen evaluation was implemented from winter examination 2018 for all Faculties:**  
For March 2019 examinations, 5, 62,465 Answer books were scan and Onscreen evaluation was done successfully.
- **Declaration of Results of Various examinations:**
  - As per provision, Section 89 of Maharashtra Public Universities Act, 2016 the result of summer 2019 examinations is declared within the prescribed time.
  - Out of Total no. of examinations 995, result of 966 (97.09%) examinations are declared within 30 days and result of 29(2.91%) examination declared within 30-45 days.
- **Grievances Redressal Mechanism/Accountability:**
  - Redressal/Verification procedure as per Ordinance O.134 and O.147.
  - Procedure of Redressal (Re-valuation) were completed within one week for the March 2019 examinations, so that students have got the opportunity for next year admission.
- **Preparation of Question Banks and Question Paper Setting:**  
Taking into consideration of recommendations of Agrawal Committee, the University under the initiative of Vice-Chancellor has started new programme of preparation of Question Banks and Question Paper Setting in the Schools on the university campus. Under this programme, a question bank is prepared having 700 to 1000 questions per subject. These question banks were prepared considering the NET/SET examinations pattern. The Examination Section generate the question papers randomly selecting the questions with the help of computer.

- **Open Day Programme:**

The University has started an innovative 'Open Day Programme' since academic year 2017-18. On this day, the students have been given their final examination answer books evaluated by the teachers for self-assessment. The teacher of concerned subject solves the queries/grievances regarding evaluation of the answer books on the spot under this programme. The KBC North Maharashtra University, Jalgaon is first amongst the Universities of Maharashtra to implement such type of innovative project.

- ❖ **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.
- Encouraged faculty members to write research proposals for the submission of various funding agencies. The faculty members of the University 12 Major and 01 Minor research projects to the tune of Rs. 74.62 Lakhs and Rs. 03.03 Lakhs, respectively were sanctioned/ ongoing by various Government funding agencies during the year.
- Encouraged faculty members to file patents with financial support. As a result, 02 patents have been filed and 02 patents have been Published during the year.
- Encouraging faculty members to attend and/or organize seminars/ conferences/workshops as well as to present research papers in National/ International conferences.
- Research and Development Awards were given every year on the University Foundation Day to the faculty members and initiation of awards for best publication and patent acceptance from this year.
- As a result of these measures, there has been an increase in the quality and quantity of publications of individual teachers.

- ❖ **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.

- Virtual Classroom facility through A-view software in the Central Library of the University.
- Free access to e-journals, e-books, databases, lecture videos and other online resources through INFLIBNET UGC-Infonet Digital Library Consortium.
- Established DKC in the Library to access e-resources; e-resources: Total 25000+ National/International e-journals, e-books, 04 Database (J-Gate) and other online resources have been made available through INFLIBNET UGCInfonet Digital Library Consortium to help research scholars and faculty members to keep pace with the latest developments in their field of research.

- ❖ **Human Resource Management:**

The University contributes to human resource development through:

- 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. Training workshops for SC/ST students are organized by the Equal Opportunities Cell.
- iii. The University facilitates Remedial Coaching and NET/SET Coaching for SC/ST/OBC (non-creamy layer) and Minorities through UGC sponsored scheme.
- iv. Dr. Babasaheb Ambedkar Competitive Examination Training Centre has been established and organizes coaching of Competitive Examinations for SC/ST/OBC and Minority students.
- v. Deputation of Faculty members are encouraged for participation in orientation/refresher courses/faculty development programmes.
- vi. The University is providing loan on minimum interest for the purchase of house, vehicle and computer for teaching and non-teaching staff.
- vii. The stakeholders are encouraged by felicitation through the best teacher, best researcher, best principal, best non-teaching staff of University/affiliated colleges and best college awards on the occasion of Foundation Day of University every year.

❖ **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.

❖ **Admission of Students :**

**Process of admission:**

- i. The students are admitted to MCA, MBA, and B.Tech. Course through Common Entrance Test (CET) conducted by DTE, Mumbai. Online admission process is adopted by for admission of these course by DTE.
- ii. 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.
- iii. The centralised online admission for M.Sc. /M.A. (Geography) is developed by university computer centre. The portal receives online applications from students seeking admission to these courses. The Applications were verified at respective application receipt centres (ARCs). The candidates need to fill option form for the choice. The system allots college to the candidate as per merit. The State Government Reservation Policy is strictly followed during allotment of seats.
- iv. A total of 3344 online applications were received for 51 courses in University Campus and affiliated colleges. Total 2044 students admitted to these courses in CAP rounds in academic year 2018-19.

**6.2.2 : Implementation of e-governance in areas of operations:**

- ❖ Planning and Development  
Online affiliation and approval system
- ❖ Administration  
Online E-sevarth system

- ❖ Finance and Accounts  
SAP ERP
- ❖ Student Admission and Support  
E-Suvidha under MKCL
- ❖ Examination  
Online paper delivery, On Screen evaluation, exam form and hall ticket using online system and result processing using software.

### 6.3 Faculty Empowerment Strategies :

#### 6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support (Rs.)
2018	Dr Nita V Patil	4th International Conference on Next Generation Computing Technologies (NGCT 2018)	-	17597 /-
2019	Ms. Manisha S. Deshmukh	International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019)	-	7327/-
2019	Dr Ajay U. Surwade	International Conference on Current Trends in Advanced Computing (ICCTAC-2019) organized by Kristu Jayanti College (Autonomous), Bengaluru on March 12 & 13, 2019.	-	9949 /-
2019	Dr. Harshali B. Patil	4th International Conference in Computing and Engineering Technology (ICCET), 9-11 January 2019, held at Deogiri Institute of Engineering and Management Studies Aurangabad, India	-	7620/-
2019	Dr. Harshali B. Patil	Ph.D. Symposium MIND 3-4 March 2019, NIT Kurukshetra, India.	-	4380/-
2018	Dr. Prashant Vishnu Sonwane	National Colloquium on Ageing and Aged in India March 14-16, 2018	-	17,000/-
2018-19	Dr. V. V. Gite	National Conference on Recent Advances in Material Sciences, Dept. of Chemistry, MS University, Baroda, Gujrat, 23 & 24th Nov., 2018	-	TA/DA
2019	1) Prof. D. S. Patil 2) Dr. D. J. Shirale 3) Dr. J. P. Bange 4) Mr. M. S. Netkar	Workshop on "Introduction to Robotics"	-	TA/DA From University
2018	Dr. Sanjay Ghosh	International Conference on Electrical and Related Properties of Organic Solids (ERPOS) – 2017	-	32,016/-

2019	Dr. V. P. Shinde	First Indian Materials Concave and 30th Annual General Meeting of Material Research Society of India (MRSI AGM-2019), <b>12-15 February, 2019</b>	-	13,266/-
2019	Dr. V. P. Shinde	5th International Conference on Nanoscience and Nanotechnology (ICONN-2019), January 28-30, 2019,	-	6,410/-
2019	Ajaygir K Goswami	International Conference on advance trend in Engg, Science & Management ICATEM- 2019 at Nashik	-	15224/-
2019	Ajaygir K Goswami	International Conference on sustainable Computing in Science Technology & Management SUSCOM- 2019 at AMITY University Rajasthan	-	27763/-
2019	Dr. H.V.Patil	Industry- Institute Partnership, Accreditation, Sponsored Research, Entrepreneurship & IPR During Jan. 09-13, 2019.at Guwahati.	-	6346/-
2019	Prajakta Nandkumar Mulay	Industry- Institute Partnership, Accreditation, Sponsored Research, Entrepreneurship & IPR During Jan. 09-13, 2019.at Guwahati.	-	6291/-
2019	Prajakta Nandkumar Mulay	Industry- Institute Partnership, Accreditation, Sponsored Research, Entrepreneurship & IPR During Jan. 09-13, 2019.at Guwahati.	-	6291/-
2019	Komal S Patil	Accommodation for attending Plexpo India Exhibition at Goregaon Mumbai During January 17-21, 2019.	-	4179/-
2018	Dr. G. A. Usmani	Communication & Personality development workshop under twining activity at UPTTI Kanpur during October 1-3, 2018.	-	5170/-
2018	Dr. R.P.Gore	One day Sensitization workshop on Environment safeguard at Indore dated on January 1, 2019.	-	2000/-
2018	Dr. P.D.Meshram	international conference on “Advance and challenges for sustainable ecosystem” (ICACSE 2018), NIT, Trichy. During December 6 to 8, 2018.	-	20929/-
2018	Dr. V.R.Parate	Reimburse Registration Fees of International Conference on global Trends in Science, Technology, Humanities, Commerce and Management. During January 18 to 20, 2019	-	2000 /-
2018	Dr. M.I.Talib	Reimburse Registration Fees of International Conference on global Trends in Science, Technology, Humanities, Commerce and Management. During January 18 to 20, 2019	-	2000/-

2018	Dr. A.K.Goswami	Workshop on Youth Technologist Startup Conclave 2019 under Start-up at UICT KBCNMU Jointly organized on January 22, 2019.	-	38744/-
2018	Dr. G.A.Bathe	Reimburse Registration Fees of International Conference on global Trends in Science, Technology, Humanities, Commerce and Mgmt. During January 18 to 20, 2019 at SSBT Bambhori.	-	1000/-

### 6.3.2 Number of professional development / administrative training programmes organized by the University for teaching and non-teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching Staff)	No. of participants (Non-teaching staff)
2018	Two days Faculty Development Programme on C/C++ ((Quick Heal and KBCNMU))	-	12-07-2018 to 13-07-2018	52	-
2018	Faculty Development Program	-	17-12-2018 to 22-12-2018	80	-
2018	Interdisciplinary refresher course in Recent Trends in Teaching-Learning Technology	-	December 10, 2018 December 30, 2018	52	-
2019	-	Microsoft Office and Internet	November 11, 2019	-	50

### 6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
Two days Faculty Development Programme on C/C++ (Quick Heal and KBCNMU)	52	12-07-2018 to 13-07-2018
Faculty Development Program	80	17-12-2018 to 22-12-2018
Interdisciplinary refresher course in Recent Trends in Teaching-Learning Technology	52	December 10, 2018 December 30, 2018

### 6.3.4 Faculty and Staff recruitment (No. for permanent/fulltime recruitment):

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
0	0	0	0

### 6.3.5 Welfare schemes for

Teaching	Yes
Non-teaching	Yes
Students	Yes

## 6.4 Financial Management and Resource Mobilization:

### 6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)

The University has continued the practice of appointing qualified Internal Auditor for concurrent and continuous audit of the University accounts, for F.Y 2018-19, The University has appointed M/s. Bandukwala & Bafna, Chartered Accountants, Jalgaon a renowned audit firm to carry out its concurrent audit and periodic / vigilance review of all financial records. Reports of Internal Auditor are reviewed by the Statutory Auditors and the authorities of University (Finance and Accounts Committee and Management Council, Constituted and empowered as per the Maharashtra Uni. Act 2016 in their meetings from time to time.

Similarly, as per the Maharashtra Public Universities Act, 2016, Section 135 (2), The University appointed M/s. A.I Kothari & Associates, Jalgaon, another renowned CA firm as statutory auditors for the financial year 2017-18 and 2018-19. The Audit of University Accounts is completed upto the financial year 2017-18 and the same is approved by University Authorities (the Financial Account Committee /Management Council /Senate) as per the provisions of the Maharashtra University Act.2016.

### 6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year (not covered in Criterion III)

Name of the non-government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
Nil	Nil	Nil

6.4.2 Total corpus fund generated : Rs. 2,33,55,388/-

## 6.5 Internal Quality Assurance System:

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	-	Yes	University Constitution Committee
Administrative	No	-	No	-

### 6.5.2 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

The university has encouraged colleges to take autonomous status. Total 02 colleges have been granted autonomous status so far.

### 6.5.3 Activities and support from the Parent – Teacher Association (at least three)

Feedback regularly

City Bus Service

Internal Transport

**6.5.4 Development programmes for support staff (at least three)**

- Women Motivation
- Capacity Building
- 3. Health Check up

**6.5.5 Post Accreditation initiative(s) (mention at least three)**

- Formation of IQAC committee of the Institute
- Implementation of CBCS as per UGC norms for the programs conducted by the university school.
- Syllabus revision with outcome based technique
- Definition of course outcomes, program educational outcomes and program outcomes of all the programs of the institute.
- Use of MIS academic and administrative functions.
- Lecture recording system.
- Wifi connectivity of all classrooms.
- Academic and Administrative Audit of the Institute.

**6.5.6**

- a. Submission of Data for AISHE portal : Yes
- b. Participation in NIRF : Yes
- c. ISO Certification : No
- d. NBA or any other quality audit : No

**6.5.7 Number of Quality Initiatives undertaken during the year**

<b>Year</b>	<b>Name of quality initiative by IQAC</b>	<b>Date of conducting activity</b>	<b>Duration (from-----to-----)</b>	<b>Number of participants</b>
2019	NAAC Awareness Programme (NAP) Workshop	January 17-18	17 Jan 2019 to 18 Jan 2019	170
2019	SAWAYAM: MOOCs and e-Content Development	21 May 2019	21-05-2019 to 21-05-2019	71
2019	CGPA and New exam rules	03/09/2018	03/09/2018 to 03/09/2018	17

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## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities:

#### 7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period (from-to)	Participants	
		Female	Male
Personality Development	1 day (8-03-19)	70	0
Self defense training for girl students	8 days (1-02-19 to 8-02-19)	60	0
Dr. Babasaheb Ambedkar and Emancipation of women	1 day (12-02-19)	130	146

#### 7.1.2 Environmental Consciousness and Sustainability / Alternate Energy initiatives such as: Percentage of power requirement of the University met by the renewable energy sources.

- Promoting awareness against wastage of Water & Electricity.
- Installation of ample number of Power Saving LED lights in both Campus.
- Green Drive (Planting of trees) mass plantation on the university campus.
- Implementation of solar based street light in the campus (12W/24W) Green Initiative project of MEDA.
- Use of battery-operated vehicle (14 Capacity): Charging through 5KVA solar plant: CADP project.
- Replacement of conventional tubes by LED fixture in various building and street lights of campus: Energy Saving Initiative.
- Installation of solar water heaters in Hostel/ Girl Hostel / Building in KBCNMU Campus.
- Implementation of solid, liquid and E-waste Practices.

#### 7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	12
Provision for lift	Yes	12
Ramp/ Rails	Yes	12
Braille Software/facilities	Yes	20
Rest Rooms	No	-
Scribes for examination	Yes	06
Special skill development for differently abled students	Yes	06
Any other similar facility	-	-

**7.1.4 Inclusion and Situatedness**

**Enlist most important initiatives taken to address locational advantages and disadvantages during the year**

<b>Year</b>	<b>Number of initiatives to address locational advantages and disadvantages</b>	<b>Number of initiatives taken to engage with and contribute to local community</b>	<b>Date and duration of the initiative</b>	<b>Name of the initiative</b>	<b>Issues addressed</b>	<b>Number of participating students and staff</b>
2019	1	4	16/02/2019 (1 day)	Specialty Checkup for employees and their relatives in association with Red Swastik, Jalgaon	A lecture on 'Importance of exercise, meditation, yoga to improve circulation' by Dr Mohnish Bhajiwale (Neurosurgeon, Mumbai)	160
			2/07/2018	Providing health services to the villages of nearby region at University health centre	OPD is made open these villagers, X-ray, Pathology & ECG are provided at Govt Hospital rates	981
			10-03-19 (1 day)	KBC NMU health centre has involved itself in National Pulse Polio drive undertaken every year	Children <5 Y in the campus as well as near villages were immunized by University staff	44
			02-07-2018	Medical checkup of Kendriya Vidhyalaya students	It is carried out on yearly basis at health Centre in which involves general and systemic examination	772

**7.1.5 Human Values and Professional Ethics****Code of conduct (handbooks) for various stakeholders**

<b>Title</b>	<b>Date of Publication</b>	<b>Follow up (maximum 100 words each)</b>
-	-	-

**7.1.6 Activities conducted for promotion of universal Values and Ethics**

<b>Activity</b>	<b>Duration (from-----to-----)</b>	<b>Number of participants</b>
National Science Day was celebrated at various Schools by organizing guest lectures, competitions, poster presentation, quizzes, etc.	28-02-19	450
Guest lecture on 'Biography of Shivaji and his thoughts' by Prof. S.B. Patil on the occasion of Shivaji Jayanti	1 day (19 <sup>th</sup> Feb, 2019)	230
A voting awareness camp was organized by School of Management Studies and Election Commission of India, Jalgaon	2 days (23-01-19 to 24-01-19)	102
Guest lecture by Prof. Prahlad Lulekar, Aurangabad on 'Mahatma Phule' under celebration of Phule-Ambedkar jayanti	1 day (11 <sup>th</sup> April, 2018)	200
Geet gayan on 'Phule-Ambedkar' under celebration of Phule-Ambedkar jayanti	1 day (12 <sup>th</sup> April, 2018)	200
Guest lecture on 'Views of Dr. B.R. Ambedkar on internal and external defense of India' by Prof. H.N. Sonkamble, Aurangabad	1 day (14-04-18)	65
Guest lecture on 'Experiences and biography of a third gender person' by Ms. Disha Khan and Prof. A.G. Khan	1 day (5-07-18)	60
Teachers Day was celebrated at various Schools by organizing guest lectures.	5-09-18	144
Guest lecture on 'Challenges to Indian Defense and Terrorism beyond the Indian border' by Major General Dr. J.D. Bakshi	1 day (11-09-18)	233
Lecture series under Faculty Exchange Program on 'Cross-cultural values and CSR activity in Financial Firm' by G. Sanchez, CETYS Univ, Mexico	1 day (20-09-18)	09
Gandhi Bhajans at Gandhi Tekdi	1 day (2-10-18)	70
Guest lecture on 'Gandhi thoughts: Past, Present and Future' by Dr. Phula Bagul, Shirpur	1 day (3-10-18)	150
Workshop on Gandhi thoughts at Pratap Philosophy Centre, Amalner	1 day (5-10-18)	40
Elocution completion on 'Today's Nationalism and Gandhi thoughts' at Gandhi Jayanti saptah for campus students	1 day (8-10-18)	30
Vachan Prerana Din celebration on the occasion of Dr. APJ Abdul Kalam's jayanti	3 days (15-10-18 to 17-10-18)	250
Guest lecture at Kav. Bahinabai Chaudhari's smriti din by Prof. Indrajeet Bhalerao, Parbhani	1 day (3-12-18)	110
Guest lecture at Mahaparinirwan din by Prof. Datta Bhagat, Aurangabad	1 day (6-12-18)	130

### 7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Tree plantation is carried out on campus every year to increase the greenery.
- Minimum use of paper and plastic within office and campus.
- Installation of ample number of Power Saving LED lights in Campus.
- Rain water harvesting.
- Implementation of Solar Based Street Light in the campus (12W/24W).
- Installation of solar water heaters in Boys Hostel/Girl Hostel/ Buildings in the KBCNMU Campus.
- Energy Audit of the university is conducted on regular basis.
- Electric vehicle for transport in the campus

#### Make the campus free of e-waste and plastic waste:

- University covers 650 acres land on the campus. It is the honest feeling of each and every individual on the campus to keep it most clean especially free of plastic- and e-waste. In the line of this objective this year collection of e-waste was made at a central place and the collected waste has been given to. Its '**Recycling Centre**' for proper disposal. The University has established a procedure on collection of e-waste and plastic waste at source

### 7.2 Best Practices:

Describe at least two institutional best practices: Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link.

#### i) Best Practice: Blood donation:

- a) **Title of the Best Practice:** Incentives for voluntary Blood donation
- b) **Objective of the Practice:** To promote the practice of voluntary Blood donation amongst the students. This will facilitate supply of blood to the needy and can potentially save a life.

Blood donation has been considered as most vital kind of donation, which not only inculcates the values towards caring others but also provides substantial support to humankind otherwise not possible with any wealthy contributions.

- c) **The context:** It is generally observed that the major cause of death during a road accident is excessive bleeding. If blood to the person can be supplied in time, the life can be saved. It is the delay in shifting the person to the hospital and limitation of blood for transfusion that very often result in mortality. Availability of blood in the blood banks is always limited. In order to motivate the young students enrolled in the higher education system, the voluntary blood donation by them has been duly recognised by the university by incentivising it. The KBCNMU probably is one of the few state universities to have initiated such a novel practice for a national cause.
- (d) **The practice:** The activity was initiated in the year 2014 with formal resolution passed by Management Council of the University. In this year activity was gracefully with voluntary participation of student-teacher community. The benefit of 2 additional marks can be given for the purpose of passing, getting exemption or simply can be added to the total individual in the campuses of colleges affiliated to the university.

**Blood donation camps (Year 2018-19):**

Sr. No	Blood donation camp	Date	Participants	Blood collection
1	Phule-Ambedkar Jayanti Mahotsav	13-04-18	128	100
2	Gandhi Jayanti Saptah	04-10-18		

**Faculty-wise beneficiaries of the practice (Year 2018-19):**

Sr. No	Faculty	Exam	Beneficiary students
1	Engineering	April, 2019	17
2	Arts and Fine Arts	April, 2019	4
3	Commerce and Management	April, 2019	7
4	Science	April, 2019	35
5	Medical (Pharmacy)	April, 2019	3
6	Mental and Moral Sciences	April, 2019	1
Total			<b>67</b>

Marks secured by the candidates.

- (v) **Evidence of success:** In the year 2018-19 as many as 128 students and teachers contributed this venture. In total 100 bottles blood was collected and handed over to blood bank in the Jalgaon city. As many as 67 students have been given benefits under this Ordinance.
- (vi) **Problems encountered and resources required:** There is still a lot of hesitation and resistance on part of student community. A rigorous campaign will be started highlighting the benefit of periodic blood donation by a healthy individual in the campuses of colleges affiliated to the university.

**ii) Best Practice: Lab to land:****a) Title of the practice: Lab to Land****b) Objectives:**

- To provide technical know-how related to sustainable agriculture to the farmers holding marginal land under the University jurisdiction.
- To promote and aware the farmers regarding benefits of organic farming.

**c) Context:** Though appreciable research work is conducted in university related to sustainable development of agricultural sector, very few innovations are reaching to the farmers. the Agro-Bio technologies and biological based pesticides as an alternative for Chemical pesticides are developed by School of Life Sciences and School of Chemical Sciences of the university respectively. This know-how in simple form is being given to the farmers through this initiatives of the university.

**d) The practice:** The KBC North Maharashtra University since its inception has been actively involved in serving to the region. Students from different strata of the region have been getting opportunity to make their career and uplift the families as well as region. University is engaging various research and taken lead in developing technologies related the agriculture needs of the region. However, the gap has been maintained between the end users and researchers. In order to reach the end user and dissipate the knowledge gained out of research a program called 'Lab to Land' has been started. Through this program workshops have been arranged for farmers to make them feel about the science in the agriculture. The program focused especially on the agri-biotechnologies such as use of biofertilizers and bio inoculants in the field to sustain the soil productivity.

**e) Evidence of success :** The programs conducted under Lab to Land Program:

**Lab to land camps (Year 2018-19):**

Sr. No	Title and Place of Camp	Date	Participants	Special emphasis
1.	Sustainable Agriculture, Pimpalkhota, Tal- Erondal	15 Aug 2018	46	Awareness of local monsoon pattern
2.	How to get Agriculture information, Dongoan, Tal Dharangaon	4 -5 Aug 2018	37	Marketing information on agricultural products
3.	Domestic Animal cultivation for Agriculture, Tahakali Tal: Dharangoan	2 Oct 2018	28	Livestock management for agriculture
4.	Sustainable Agro Practices, Marwad Tal Amalner	4-5 April 2019	35	Agricultural inputs and their optimum use
5.	Sustainable Agro Practices, Dhār-Kalam sare	6-7 June 2019	55	Agricultural inputs and their optimum use
<b>Total</b>			<b>201</b>	

**f) Problems encountered and resources required:** Less response from the farmers to adopt this technology.

**7.3 Institutional Distinctiveness:**

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust.

Provide the weblink of the institution in not more than 500 words

HoDs. However, for finance, examination and administration purpose, the school remains a single academic unit. This concept not only ensured optimal use of meagre resource, but also the University has at its disposal, it accrued a number of other intangible benefits e.g. every school being the single academic unit, it became eligible for recognition under UGC-SAP and DIST-FIST as per the faculty requirement norms. As a result, as many as 05 schools and 01 institution on the campus have got these recognition as early as 2003-04 (mere 13 years of existence). These grants helped the schools to augment their academic and research infrastructure, which in turn, helped the faculty and research scholars to pursue quality research. Another intangible benefit of this concern has been sharing of expertise and quality interdisciplinary research. Looking at the success of this model, couple of other Universities in the state have emulated this.

**8. Future Plans of action for next academic year (500 words):**

- i) Extension of Academic Building for School of Management and School of Computer Sciences
- ii) Development module based learning Management System for university faculty and students.
- iii) Sensitization about use of Google Classroom to university students.
- iv) Submission of Cillage Based Area Development “(CADP) Program for upliftment of tribal Village to RGSTC, Mumbai.
- v) Implementation of Choice based credit system as per NSQF (UGC) guideline.
- vi) Effective implementation of mentor-mentee and advance-slow learner for university schools.
- vii) Introduction of POs PSOs and COs in the revised curricular and their mapping and attainment.

Name: Prof. S.T. Ingle



Signature of the Coordinator, IQAC

Name : Prof. P.P. Patil



Signature of the Chairperson, IQAC



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**Annexure – I**

<b>Title of the Paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of Publication</b>	<b>Number of citations in Scopus</b>	<b>Number of citation in web of Science</b>	<b>Institutional affiliation as mentioned in the publication</b>
Controlled release study of phenol formaldehyde based microcapsules containing various loading percentage of core cypermethrin at different agitation rates	P.S. Karandikar, J.D. Rajput, S.D. Bagul, V.V. Gite, R.S. Bendre	Polymer Bulletin	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
$\beta$ -Cyclodextrin: A green and efficient supramolecular catalyst for organic transformations	Dipak S. Dalal, Dipak R. Patil, Yogesh A. Tayade	The Chemical Record	2018	2	3	NMU, Jalgaon or KBCNMU, Jalgaon
Hen egg white lysozyme catalyzed efficient synthesis of 3-indolyl-3-hydroxy oxindole in aqueous ethanol	Kiran S. Dalal, Yogesh B. Wagh, Yogesh A. Tayade, Dipak S. Dalal, Bhushan L. Chaudhari*	Catalysis Letters	2018	3	3	NMU, Jalgaon or KBCNMU, Jalgaon
Clean synthesis of coumarin-3-carboxylic acids using water extract of rice straw husk	Manohar Patil, Suresh Bagul, Jamatsingh Rajput, Ratnamala Bendre,	Green Materials	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis of biobased polyols using algae oil for multifunctional polyurethane coatings	C. K. Patil H. D. Jirimali, P K Alagi S C Hong, V V Gite*	Green Materials	2018	3	1	NMU, Jalgaon or KBCNMU, Jalgaon
Lipase from Porcine Pancreas: An Efficient Biocatalyst for the Synthesis of ortho-Aminocarbonitriles	Kiran S. Dalal, Swapnil A. Padvi, Yogesh B. Wagh, Dipak S. Dalal*,	ChemistrySelect	2018	2	3	NMU, Jalgaon or KBCNMU, Jalgaon
Highly selective nicotinohydrazide based 'turn-on' chemosensor for the detection of bioactive zinc(II): Its biocompatibility and bioimaging application in cancer cells	Patil M, Bothra S, Sahoo SK, Rather HA, Bendre R	Sensors and Actuators B: Chemical	2018	17	4	NMU, Jalgaon or KBCNMU, Jalgaon
A Biomimetic Supramolecular Approach for Charge Transfer between Donor and Acceptor Chromophores with Aggregation-Induced Emission	Jing-Yu Chen, Gajanan Kadam, Akhil Gupta, Anuradha, Sheshanath V. Bhosale, Fei Zheng, Chun-Hua Zhou, Bao-Hua Jia, Dipak S. Dalal, Jing-Liang Li	Chemistry: A European Journal	2018	3	2	NMU, Jalgaon or KBCNMU, Jalgaon
Monoterpenoid derivative based ratiometric fluorescent chemosensor for bioimaging and intracellular detection of Zn <sup>2+</sup> and Mg <sup>2+</sup> ions	Mr Manohar Patil, Mr Karunesh Keshav, Mr Mukesh Kumar Kumawat, Professor Ratnamala Bendre, Dr. Shilpa Bothra,	Journal of Photochemistry and Photobiology A: Chemistry	2018	7	4	NMU, Jalgaon or KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Simple and Highly Efficient Synthesis of Thioamide Derivatives Using $\beta$ -Cyclodextrin as Supramolecular Catalyst in Water	Yogesh A. Tayade, Asha D. Jangale, Dipak S. Dalal*	ChemistrySelect	2018	5	7	NMU, Jalgaon or KBCNMU, Jalgaon
Controlled Hydroxyl Functionality of Soybean Oil-Based Polyols for Polyurethane Coatings with Improved Anticorrosion Properties	P. Alagi,, R. GhorpadeC. Patil,, V. GiteSC Hong	Macromolecular Research	2018	4	6	NMU, Jalgaon or KBCNMU, Jalgaon
Insect growth regulatory activity of carvacrol-based 1,3,4-thiadiazoles and 1,3,4-oxadiazoles	Bagul SD, Rajput JD, Srivastava C, Bendre RS ,	Molecular diversity	2018	3	8	NMU, Jalgaon or KBCNMU, Jalgaon
Waste Eggshell-Derived Calcium Oxide and Nanohydroxyapatite Biomaterials for the Preparation of LLDPE Polymer Nanocomposite and Their Thermomechanical Study	HD Jirimali, BC Chaudhari, JC Khanderay, AM Patil, V V Gite	PolymerPlastics Technology and Engineering	2018	4	2	NMU, Jalgaon or KBCNMU, Jalgaon
Utilisation of sebacic acid and nanohydroxyapatite in polyurethane nanocomposite coating	A.Anand, V. V. Gite	Green Materials	2018	0	2	NMU, Jalgaon or KBCNMU, Jalgaon
Effect of maleated polypropylene as a compatibilizer and hyperbranched polyester as a processing aid on polypropylene-wood flour biocomposites	M. R. NevareP. D. TatiyaP. P. MahulikarV. V. Gite*,	Journal of Vinyl and Additive Technology	2018	4	0	NMU, Jalgaon or KBCNMU, Jalgaon
Preparation of Gallic Acid – Anhydride Conjugate and Evaluation of Prodrug Release Through Pva-Based Hydrogel	Rahul R Mahire, Deepika S. Agrawal, Devanand K. Patil, Dhananjay H. More, NIL	Pharmaceutical Chemistry Journal (Springer)	2018	0	2	NMU, Jalgaon or KBCNMU, Jalgaon
Functional soybean oil-based polyols as sustainable feedstocks for polyurethane coatings	P AlagiC PatilH JirimaliV GiteS.C Hong	Industrial crops and products	2018	13	3	NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis, Antimicrobial and Antioxidant Activity of Pyrazole Based Sulfonamide Derivatives	Jagdish R. Badgujar, Dhananjay H. More, Jyotsna S. Meshram, NIL, NIL	Indian Journal & Microbiology	2018	5	12	NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis, crystal structures and biological activities of transition metal complexes of a salen-type ligand	Ratnamala S. Bendre, Samina K. Tadavi, Manohar M. Patil	Transition Metal Chemistry	2018	4	0	NMU, Jalgaon or KBCNMU, Jalgaon
Perspectives on medicinal properties of natural phenolic monoterpenoids and their hybrids	Rajput, J. D, Bagul, S. D, Pete, U. D, Zade, C. M.Bendre, R. S.	Molecular diversity	2018	11	7	NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis and characterization of a novel schiff base of 1,2-diaminopropane with substituted salicylaldehyde and its transition	Samina K. Tadavi, Abhijit A. Yadav, Ratnamala S. Bendre	Journal of Molecular Structure	2018	15	10	NMU, Jalgaon or KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
metal complexes: Single crystal structures and biological activities						
Synthesis and characterization of bio-based polyester and polyamide from citric acid and mannitol	Amardip M.Patil	Oriental Journal Of Chemistry	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Fabrication of renewable myristic acid based polyurethane nano zinc phosphate hybrid coatings to mitigate corrosion of mild steel	S. D. Rajput C. K. Patil V. V. Gite*	Pigment & Resin Technology	2018	2	0	NMU, Jalgaon or KBCNMU, Jalgaon
Facile syntheses and molecular-docking of novel substituted 3,4-dimethyl-1H-pyrrole-2-carboxamide/ carbohydrazide Analogues with antimicrobial and antifungal properties	Bhosale JD, Dabur R, Jadhav GP, Bendre RS ,	Molecules	2018	2	0	NMU, Jalgaon or KBCNMU, Jalgaon
Design, Synthesis And Antioxidant Activity Of N, N' Diacylhydrazines Containing 2(2Isopropyl5Methyl Phenoxy) Moieties, A Solvent Free Green Synthetic Approach.	Ratnamala S. Bendre, Pradnya S. Sathe, Suresh D.Bagul.	Asian Journal of Research in Chemistry and Pharmaceutical Sciences	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis, Characterization and Antioxidant Potency of Naturally Occurring Phenolic Monoterpenoids Based Hydrazone Motifs	Manohar Patil, Dr. Ratnamala Bendre	Medicinal Chemistry	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis, Characterization and Investigation of AntiOxidant Activity of Hydrazone-hydrazone Derivatives of 2(2Isopropyl5methyl phenoxy) Acetohydrazone.	Pradnya S. Sathe, Umesh D. Pete, Ratnamala S. Bendre	Asian J. Research Chem.:	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis, Characterization and In Vitro Antidiabetic Studies of Vanadium Complexes derived from N <sub>2</sub> O <sub>2</sub> donor Ligands.	Pawar, Shashikant P, Tryambakrao J. Patil Ratnamala S. Bendre	Asian Journal of Research in Chemistry	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis, Characterizations and application of Bisphenol A based highly branched polyol in polyurethanes Coatings	Amardip M.Patil	Asian J. Research Chem.	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Studies of thermally assisted interactions of polysulphide polymer with ionic liquids	Shirsath, N.B., Gupta, G.R., Gite, V.V., Meshram, J.S.	Bulletin of Materials Science	2018	2	0	NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis of poly(N-isopropylacrylamide-b-N-vinylcarbazole) copolymers via RAFT polymerization and its stimuli responsive morphology in aqueous media	Pawar, K., Kutcherlapati, S.N.R., Yeole, N., Jana, T., Hundiwale, D.	Journal of Polymer Research	2018	3	2	NMU, Jalgaon or KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Vesicular and micellar self-assembly of stimuli-responsive poly(N-isopropyl acrylamide-b-9-anthracene methyl methacrylate) amphiphilic diblock copolymers	Pawar, K., Kutcherlapati, S.N.R., Yeole, N., Hundiwale, D., Jana, T.	Journal of Applied Polymer Science	2018	1	0	NMU, Jalgaon or KBCNMU, Jalgaon
Studies of Viscosity Coefficient and Density Properties of Imidazolium Based Ionic Liquids in Aqueous Solutions at Different Temperatures	Patil, P.P., Shaikh, V.R., Gupta, G.R., Patil, P.D., Borse, A.U., Patil, K.J.	ChemistrySelect	2018	2	0	NMU, Jalgaon or KBCNMU, Jalgaon
Volumetric Properties of Local Anesthetical Drug Lidocaine Hydrochloride in Aqueous and in Aqueous NaCl Solutions at Different Temperatures	Shaikh, V.R., Salunke, V.R., Behare, K.P., Patil, S.E., Borse, A.U., Patil, K.J.	Journal of Chemical and Engineering Data	2018	3	0	NMU, Jalgaon or KBCNMU, Jalgaon
Volumetric, isentropic compressibility and viscosity coefficient studies of binary solutions involving amides as a solute in aqueous and CCl <sub>4</sub> solvent systems at 298.15 K	Patil, P.P., Shaikh, V.R., Patil, P.D., Borse, A.U., Patil, K.J.	Journal of Molecular Liquids	2018	1	0	NMU, Jalgaon or KBCNMU, Jalgaon
Analytical estimation of water contents, specific heat capacity and thermal profiles associated with enzymatic model compound $\beta$ -cyclodextrin	Gupta, G.R., Patil, P.D., Shaikh, V.R., Kolhapurkar, R.R., Dagade, D.H., Patil, K.J.	Current Science	2018	1	6	NMU, Jalgaon or KBCNMU, Jalgaon
Tetraalkylammonium bromide-water mixtures revisited: Isothermal compressibility and internal pressure variation in limiting concentration range at 298.15 K	Tomar, P.A., Shaikh, V.R., Patil, K.J.	Journal of Chemical Thermodynamics	2018	3	3	NMU, Jalgaon or KBCNMU, Jalgaon
Benzimidazole-Based Imine-Linked Copper Complexes in Food Safety: Selective Detection of Cyproheptadine and Thiabendazole	Kaur, M., Raj, P., Singh, N., Kuwar, A., Kaur, N.	ACS Sustainable Chemistry and Engineering	2018	10	6	NMU, Jalgaon or KBCNMU, Jalgaon
Chemosensors for biogenic amines and biothiols	Kaur, N., Chopra, S., Singh, G., Raj, P., Bhasin, A., Sahoo, S.K., Kuwar, A., Singh, N.	Journal of Materials Chemistry B	2018	19	0	NMU, Jalgaon or KBCNMU, Jalgaon
Cu <sup>2+</sup> -driven metallo-supramolecular self-assembly and its application in sensing of hydroxyl ion	Kuwar, A., Tayade, K., Keshav, K., Sahoo, S.K., Mayank, Singh, N.	Supramolecular Chemistry	2018	1	11	NMU, Jalgaon or KBCNMU, Jalgaon
Fe(III) conjugated fluorescent organic nanoparticles for ratiometric detection of tyramine in aqueous medium: A novel method to determine food quality	Kaur, N., Kaur, M., Chopra, S., Singh, J., Kuwar, A., Singh, N.	Food Chemistry	2018	11	4	NMU, Jalgaon or KBCNMU, Jalgaon
3D Architected polyazomethine gel synthesis: Its self-assembled	Raghuvanshi, D.S., Shirsath, N.B.,	Bulletin of Materials Science	2018	0	1	NMU, Jalgaon or

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intercalating complexation with nitro aromatic acceptor	Mahulikar, P.P., Meshram, J.S.					KBCNMU, Jalgaon
Preparation and Characterization of Microcapsules Containing Soybean Oil and Their Application in Self-Healing Anticorrosive Coatings	Shisode, P.S., Patil, C.B., Mahulikar, P.P.	Polymer - Plastics Technology and Engineering	2018	3	0	NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis and biological evaluation of new 2-aryl-4-((4-aryl-1H-1,2,3-triazol-1-yl)methyl)thiazole derivatives	Shinde, V., Mahulikar, P., Mhaske, P.C., Nawale, L., Sarkar, D.	Research on Chemical Intermediates	2018	7	3	NMU, Jalgaon or KBCNMU, Jalgaon
TiO <sub>2</sub> /polystyrene core-shell nanoparticles as fillers for LLDPE/PLA blend: development, and morphological, thermal and mechanical properties	Bhirud, JD; Mahulikar, PP; Narkhede, HP	INDIAN JOURNAL OF CHEMISTRY SECTION B-ORGANIC CHEMISTRY INCLUDING MEDICINAL CHEMISTRY	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Detoxification of toxic dyes using biosynthesized iron nanoparticles by photo-Fenton processes	Garole, V.J., Choudhary, B.C., Tetgure, S.R., Garole, D.J., Borse, A.U.	International Journal of Environmental Science and Technology	2018	8	3	NMU, Jalgaon or KBCNMU, Jalgaon
Ionic liquid: Green solvent for the synthesis of cellulose/guar gum/PVA biocomposite	Patil, C.M., Borse, A.U., Meshram, J.S.	Green Materials	2018	4	0	NMU, Jalgaon or KBCNMU, Jalgaon
Sorption and recovery of platinum from simulated spent catalyst solution and refinery wastewater using chemically modified biomass as a novel sorbent	Garole, D.J., Choudhary, B.C., Paul, D., Borse, A.U.	Environmental Science and Pollution Research	2018	3	2	NMU, Jalgaon or KBCNMU, Jalgaon
Surface functionalized biomass for adsorption and recovery of gold from electronic scrap and refinery wastewater	Choudhary, B.C., Paul, D., Borse, A.U., Garole, D.J.	Separation and Purification Technology	2018	29	0	NMU, Jalgaon or KBCNMU, Jalgaon
Viscosity, density and ultrasonic velocity studies of binary aqueous solutions containing amides	Patil, P.P., Patil, R.S., Patil, S.R., Borse, A.U.	Rasayan Journal of Chemistry	2018	0	5	NMU, Jalgaon or KBCNMU, Jalgaon
Chitosan-cu-salen/carbon nano-composite based electrode for the enzyme-less electrochemical sensing of hydrogen peroxide	Jirimali, H.D., Saravanakumar, D., Shin, W.	Journal of Electrochemical Science and Technology	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Ferrocene Tethered Polyvinyl Alcohol/Silica Film Electrode for Electrocatalytic Sulfite Sensing	Jirimali, H.D., Nagarale, R.K., Saravanakumar, D., Shin, W.	Electroanalysis	2018	0	7	NMU, Jalgaon or KBCNMU, Jalgaon

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Biocomposite formation using $\beta$ -cyclodextrin as a biomaterial in poly(acrylamide-co-acrylic acid): preparation, characterization, and salinity profile	Shirsath, N., Raghuvanshi, D., Patil, C., Gite, V., Meshram, J.	Iranian Polymer Journal (English Edition)	2018	2	1	NMU, Jalgaon or KBCNMU, Jalgaon
Generating a three-dimensional non-fullerene electron acceptor by combining inexpensive spiro[fluorene-9,90-xanthene] and cyanopyridone functionalities	Kadam, G., Anuradha, Agarwal, A., Puyad, A., La, D.D., Evans, R.A., Li, J., Gupta, A., Bhosale, S.V.	Materials Chemistry Frontiers	2018	11	13	NMU, Jalgaon or KBCNMU, Jalgaon
QFD for sustainability and improved product (spring) design	Patil, C.K., Husain, M., Halegowda, N.V.	AIP Conference Proceedings	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
A Hybrid Text Line Segmentation Approach for the Ancient Handwritten Unconstrained Freestyle Modi Script Documents	Manisha S. Deshmukh, Manoj P. Patil, Satish R. Kolhe	The Imaging Science Journal, Taylor & Francis	2018	0	2	NMU, Jalgaon or KBCNMU, Jalgaon
Effective Email Spam Filtering Using Origin based Information	P. P. Ghogrey, A. U. Surwade, M. P. Patil	International Journal of Computer Sciences and Engineering	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Empirical Evaluation for Hindi texttoscene generation system	Priyanka Jain, R. P. Bhavsar, B. V. Pawar, Hemant Darbari,	International Journal of Creative Research Thoughts (IJCRT)	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Feature Extraction of Colon and Rectum Cancer from MRI Images	R. Srivaramangai, Nita V. Patil, Ajay S. Patil	International Journal of Advanced Research in Computer Science	2018			NMU, Jalgaon or KBCNMU, Jalgaon
VRML for automatic generation of 3D Scene	Priyanka Jain, R. P. Bhavsar, B. V. Pawar, Hemant Darbari,	International Journal of Computer Application	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Multimodal of Face and Iris based on Local Binary Pattern and GaborZernike Moments	Akram Alsubari, R. J. Ramteke	International Journal of Advanced Research in Computer Science (IJARCS)	2018			NMU, Jalgaon or KBCNMU, Jalgaon
POS Tagging for Marathi Language using Hidden Markov Model	Nita V. Patil	International Journal of Computer Sciences and Engineering	2018			NMU, Jalgaon or KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Removing NonRelevant Links From Top Search Results Using Feature Score Computation	Swati P. Patil, B.V. Pawar	Bulletin of Pure and Applied Sciences	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Skew detection, skew correction, and shirorekha extraction of line segmented offline handwritten historical marathi documents written in modi script	Parag Anil Tamhankar, Satish Ramesh Kolhe	International Journal Of Latest Trends In Engineering and Technology	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Tree Adjoining Grammar Based Parser for a Hindi Text-to-Scene Conversion System	Jain, P., Bhavsar, R., Kumar, A., Pawar, B.V., Darbari, H., Bhavsar, V.C.	2018 3rd International Conference for Convergence in Technology, I2CT 2018	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Design and development of a dictionary based stemmer for marathi language	Patil, H.B., Mhaske, N.T., Patil, A.S.	Communication s in Computer and Information Science	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Automatic Sub Classification of Benign Breast Tumor	Bhale, A., Joshi, M.	Lecture Notes in Networks and Systems	2018	0	1	NMU, Jalgaon or KBCNMU, Jalgaon
Clustering to enhance network traffic forecasting	Aldhyani, T.H.H., Joshi, M.R.	Lecture Notes in Networks and Systems	2018	2	0	NMU, Jalgaon or KBCNMU, Jalgaon
Study of dimensionality reduction techniques for effective investment portfolio data management	Gadre-Patwardhan, S., Katdare, V., Joshi, M.	Smart Innovation, Systems and Technologies	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Use of Learning Style Based Approach in Instructional Delivery	Vaidya, R., Joshi, M.	Lecture Notes in Networks and Systems	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Agent-based architecture for developing recommender system in libraries	Shirude, S.B., Kolhe, S.R.	Knowledge Computing and its Applications: Knowledge Computing in Specific Domains	2018	1	0	NMU, Jalgaon or KBCNMU, Jalgaon
Classification of Library Resources in Recommender System Using Machine Learning Techniques	Shirude, S.B., Kolhe, S.R.	Communication s in Computer and Information Science	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Term co-occurrence based feature selection for sentiment classification	Sonawane, S.S., Kolhe, S.R.	Communication s in Computer and Information Science	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Designing and Evaluating Online Self Learning Material for English Grammar	Dr. Manisha Vinay Indani	PsychoLingua Publication, Agra	2018			NMU, Jalgaon or KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Evaluation of agricultural soil quality in Khandesh region of Maharashtra, India	S.T. Ingle, S.N.Patil, P.M.Kolhe, N.P.Marathe, N.R.kachate	Nature Environment and Pollution Technology	2018	2	0	NMU, Jalgaon or KBCNMU, Jalgaon
Analyzing rainfall seasonality and trends in the North Maharashtra region	S. T. Ingle, S. N. Patil, N.K Mahale, Y. J. Mahajan,	Environmental Earth Sciences	2018	0	3	NMU, Jalgaon or KBCNMU, Jalgaon
A Geographical Analysis of Organic Fertilizers Application in Shirpur Tehsil of Maharashtra (MS), India	Y.J.Mahajan, B.D. Patil, S. N. Patil	International Journal of Engineering, Science and Mathematics	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Impact of Irrigation with Sewage Water on Heavy Metal Content in Soil and Crops of Raver Area in Khandesh Region of Maharashtra, India	Harshad R. Kakade, Abhijit S. Thorat, S. R. Thorat	Asian J. Appl. Res.	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Morphometric Study of Amb Watershed from Nagpur District, Using GIS based Quantitative Spatial Analysis.	Kuldip P. Upasani, Rokade, V. M., Sujit S. Shimpi	Journal of Indian Geological Congress	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Water Quality Status of Jalna District of Marathwada Region, Maharashtra State: A Review	Kailas P. Dandge, Satish S. Patil	International Journal of Research in Advent Technology,	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Estimation of DarZarrouk parameters for groundwater exploration in parts of Chopda Taluka, Jalgaon district, Maharashtra (India)	S.N.Patil, N.R.Kachate, S.T. Ingle	Journal of Indian Geophysical Union	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Experimental investigation on phosphate adsorption, mechanism and desorption properties of Mn-Zn-Ti oxide trimetal alloy nanocomposite	Milind Kondalkar, Umesh Fegade, Sanjay Attarde, Sopan Ingle,	Journal of Dispersion Science and Technology, Taylor & Francis	2018	3	0	NMU, Jalgaon or KBCNMU, Jalgaon
Geochemical Investigation for Groundwater Quality and its Suitability for Drinking and Agricultural use of Shirpur Taluka in Dhule District, Maharashtra State, India	S.N.Patil, N.P.Marathe, S.T.Ingle	International Journal of Current Engineering and Scientific Research	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Geospatial Technology for Mapping Spatial Variations of Ground Water Quality Index in Erandol Area of Jalgaon District, Maharashtra State, India	Kailas P. Dandge, Ganpat B. More, Nitin S. Ghope	International Journal of Recent Scientific Research	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Macrocycl Adsorbed Hybrid Nanoparticles for Preconcentration and Atomic Absorption Spectrophotometric Estimation of Zinc from Acid Leached Rodenticide	Kundan C. Tayade, Sopan T. Ingle, Sanjay B. attarde	Journal Applicable Chemistry	2018			NMU, Jalgaon or KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
The status of sed. And heavy metal pollution in wagur river of jalgaon	Chavan T. B, Karshad R. Kakde, Abhijit thorat, S.R. Thorat,	Int. journal on Env. Sci	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Effect of copper on probiotic properties of Lactobacillus helveticus CD6	Paradeshi, J.S., Patil, S.N., Koli, S.H., Chaudhari, B.L.	International Journal of Dairy Technology	2018	3	4	NMU, Jalgaon or KBCNMU, Jalgaon
Atmcharitra: Manus honaychi va januan ghyenyachi prakriya	Dr. ASHUTOH PATIL	Nav Anushtubh	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Samkalin Manavi Jagnyachya Mulyatm Rahsparvache Bhedak Kavyatm Bhan	Dr. ASHUTOH PATIL	Mukta Shabdh	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Value Vs. Value: An Axiological Study of Sudha Murty's Dollar bahuEnglish language, literature and criticism	Mukta Jagannath Mahajan	Litrary Endeavour	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Subjective Information Extraction from Marathi Text	Neelima Mhaske, Ajay S. Patil, Nita V. Patil	International Journal of Information Systems	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Quercetin and silver nitrate modulate organogenesis in Carissa carandas (L.)	Bhusan S Bhadane, V. L. Maheshwari, R. H. Patil	In Vitro Cellular & Developmental Biology – Plant	2018	0	4	NMU, Jalgaon or KBCNMU, Jalgaon
Unveiling an unexpected potential of beetroot waste in green synthesis of single crystalline gold nanoplates: A mechanistic study	Girish K. Deokar, Arun G. Ingale	Arabian Journal of Chemistry	2018	2	0	NMU, Jalgaon or KBCNMU, Jalgaon
Ethnopharmacology, phytochemistry, and biotechnological advances of family Apocynaceae: A review	Bhusan S Bhadane, M P Patil, V. L. Maheshwari, R H Patil,	Phytotherapy Research (Wiley)	2018	8	0	NMU, Jalgaon or KBCNMU, Jalgaon
Phytosynthesized Gold Nanoparticles-Bacillus thuringiensis (Bt-GNP) Formulation: A Novel Photo Stable Preparation Against Mosquito Larvae	SV Patil, CD Patil, CP Narkhede, BV Mohite, SH Koli	Journal of Cluster Science (April 2018).	2018	1	0	NMU, Jalgaon or KBCNMU, Jalgaon
Extracellular red Monascus pigment-mediated rapid one-step synthesis of silver nanoparticles and its application in biomedical and environment	Koli, S. H.Suryawanshi, R. K, Patil, C. D.SV Patil,	Bioprocess Biosyst Eng.	2018	3	5	NMU, Jalgaon or KBCNMU, Jalgaon
Micropropagation and Agrobacterium rhizogenes mediated transformation studies in Mucuna pruriens (L.) DC	K S Vishwakarma, S I Mohammad, A R Chaudhari, N S Salunkhe, V. L. Maheshwari	Ind J Natural Products Resources	2018	4	17	NMU, Jalgaon or KBCNMU, Jalgaon
Assessment of InVivo Antioxidant, AntiInflammatory activities and GCMS analysis of callus extract of Cyclea peltata'	K.S.Patil, S.R.Bhalsing.	Contemporary Research in India	2018			NMU, Jalgaon or KBCNMU, Jalgaon

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Fabrication of Paper Sensor for Rapid Screening of Nanomaterial Synthesizing Potential of Plants	Patil, S.V., Borase, H.P., Patil, C.D., Suryawanshi, R.K., Koli, S.H., Patil, V.S., Mohite, B.V.	Journal of Cluster Science	2018	2	0	NMU, Jalgaon or KBCNMU, Jalgaon
A prospectus of microbial metabolites as ingredients in commercial sunscreens	Suryawanshi, R.K., Koli, S.H., Marathe, V., Mohite, B.V., Patil, V., Patil, S.V.	Sunscreens: Source, Formulations, Efficacy and Recommendations	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Heavy Metal Stress and Its Consequences on Exopolysaccharide (EPS)-Producing <i>Pantoea agglomerans</i>	Mohite, B.V., Koli, S.H., Patil, S.V.	Applied Biochemistry and Biotechnology	2018	10	0	NMU, Jalgaon or KBCNMU, Jalgaon
Operative utility of salt-stable proteases of halophilic and halotolerant bacteria in the biotechnology sector	Mokashe, N., Chaudhari, B., Patil, U.	International Journal of Biological Macromolecules	2018	4	0	NMU, Jalgaon or KBCNMU, Jalgaon
Zero-inflated models and estimation in zero-inflated Poisson distribution	Wagh Y.S., Kamalja K.K	Communications in Statistics Simulation and Computation	2018	6	0	NMU, Jalgaon or KBCNMU, Jalgaon
Estimation in zeroinflated Generalized Poisson distribution	Kamalja K.K, Wagh Y.S.	Journal of Data Science	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Basic results on nonlinear implicit fractional differential equation via successive approximations and integral inequality	H. L. Tidke , R. P. Mahajan	International Review of Pure and Applied Mathematics	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Energy, Wiener index and Line Graph of Prime graph of a Ring	S. S. Joshi, K. F. Pawar	Int. J. Mathematical Combinatorics	2018			NMU, Jalgaon or KBCNMU, Jalgaon
On Prime bikideals of a Ternary Semiring	Swapnil Wani, Kishor Pawar	Sohag Journal of Mathematics	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Reliability and Reliability Importance of Weighted-r-Within-Consecutive-k-outof- n : F System	Kamalja K.K, Amrutkar K.P.	IEEE Transactions on Reliability	2018	2	0	NMU, Jalgaon or KBCNMU, Jalgaon
Some results on Aradicals	Manohar Bhagirath, Kishor Pawar, Rajendra Deore	Adv. & Appl. in Math. Sci.	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Markov chain modeling of stochastic process defined on daily minimum temperature and its applications in weather based crop insurance scheme for banana	Shinde, R.L., Chavhan, R.N.	Mausam	2018	0	2	NMU, Jalgaon or KBCNMU, Jalgaon
Critical review of Pradhan Mantri Mudra yojana towards SC entrepreneurs	Sardar, R.J	International Journal of	2018			NMU, Jalgaon or

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		Management and Economics				KBCNMU, Jalgaon
Digital learning platforms and technologies in Higher education	Sardar, R.J	University News	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Enhancing employability among the youth engaged in Higher educational Institutions in India.	Sardar, R.J	University News	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Study of saving pattern, investment awareness and preference: A case study of jalgaon district investors	Seema Joshi	International Journal of Emerging Technologies and Innovative Research(IJETIR)	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Anodic stripping voltammetry studies of electrochemically engineered silver nanoparticles over single polypyrrole nanowire device for tracing of arsenic(III): an environmental perspective	Salunke, Rahul S., Padmakar G. Chavan, Dhammanand J. Shirale.	Nanotechnology for Environmental Engineering	2018	0	1	NMU, Jalgaon or KBCNMU, Jalgaon
Enhanced field emission properties of V2O5/MWCNTs nanocomposite	Chandradip D. Jadhav, Bidhan Pandit, Swapnil S. Karade,, Babasaheb R. Sankapal, Padmakar G. Chavan,,	Appl. Phys. A	2018	5	0	NMU, Jalgaon or KBCNMU, Jalgaon
Sulfonated chitosan-encapsulated HAp@Fe3O4: an efficient and recyclable magnetic nanocatalyst for rapid eco-friendly synthesis of 2-amino-4-substituted-1,4-dihydrobenzo[4, 5]imidazo[1,2-a]pyrimidine-3-carbonitriles	Vilas Mahire, Girish P. Patil, Amol B. Deore, harishchandra Jirimali , Padmakar G. Chavan, Pramod Mahulikar, ,,	Res. on Chem Inter	2018	5	15	NMU, Jalgaon or KBCNMU, Jalgaon
SILAR controlled CdSe nanoparticles sensitized ZnO nanorods photoanode for solar cell application: Electrolyte effect	Pratibha R.Nikama, Prashant K.Baviskar, SutriptoMajumder, Jaydeep V.Sali, Babasaheb R.Sankapal	Journal of Colloid and Interface Science	2018	8	1	NMU, Jalgaon or KBCNMU, Jalgaon
Effect of film thickness on structural and optical properties of sol-gel spin coated aluminum doped zinc oxide (Al:ZnO) thin films	R K Pandey, Koushik Ghosh, Swati Mishra, Jaspal P Bange, P K Bajpai	Materials Research Express	2018	9	3	NMU, Jalgaon or KBCNMU, Jalgaon
Spectroscopic study of La2O3 thin films deposited by indigenously developed plasma-enhanced atomic layer deposition system	Barhate Viral, Agrawal Khushabu, Patil Vilas, Patil Sumit , Mahajan Ashok	International Journal of Modern Physics B	2018	0	7	NMU, Jalgaon or KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Atomic Layer Deposited HfO <sub>2</sub> Ultra-thin Films on Different Crystallographic Orientation Ge for CMOS Applications	Agrawal Khushabu, Patil Vilas, Mahajan Ashok	Thin Solid Film	2018	1	3	NMU, Jalgaon or KBCNMU, Jalgaon
2D porous ZnO nanosheets: One pot synthesis with low turn-on field	Prashant K. Baviskar, Girish P. Patil, Vivekanand S Bagal, Babasaheb R. Sankapal, Padmakar G. Chavan	J.of Nanostru	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Amorphization of SiO <sub>2</sub> Thin Films by Using 200 MeV Ag <sup>15+</sup> Ions	Anil S. Gaikwad, Ashok M. Mahajan, Yogesh S. Mhaisagar, Swati A. Gupta, Bhavana N. Joshi, Kandasami Asokan	Silicon (Springer)	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Field electron extraction from surface modified Cd(OH) <sub>2</sub> nanowires	Bagal, V.S., Patil, G.P., Jadhav, C., Sharma, M., Shivhare, S., Chavan, P.G.	AIP Conference Proceedings	2018	0	11	NMU, Jalgaon or KBCNMU, Jalgaon
Analytical Study of Effect of Channel Doping on Threshold Voltage of Metal Gate High-k SiGe MOSFET	Mahajan, R., Gautam, D.K.	Silicon	2018	1	0	NMU, Jalgaon or KBCNMU, Jalgaon
Avalanche effect based vertical handoff system for wireless communication	Mali, G.U., Gautam, D.K.	Advances in Intelligent Systems and Computing	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Shortest Path Evaluation in Wireless Network Using Fuzzy Logic	Mali, G.U., Gautam, D.K.	Wireless Personal Communications	2018	7	1	NMU, Jalgaon or KBCNMU, Jalgaon
Statistical Modeling of Combinational Circuits Using Path Based Delay Analysis	Patil, S.R., Gautam, D.K.	Silicon	2018	0	2	NMU, Jalgaon or KBCNMU, Jalgaon
Study of water transport characteristics of poly(o-ethylaniline) coatings: corrosion mechanism	Shinde, V.P.	Ionics	2018	3	4	NMU, Jalgaon or KBCNMU, Jalgaon
X-Ray Diffraction and Mössbauer Studies of the Structural Features of BiFe <sub>1-x</sub> Zn <sub>x</sub> O <sub>3</sub> Multiferroics	Amirov, A.A., Guseynov, M.M., Yusupov, D.M., Abdulkadirova, N.Z., Chaudhary, Y.A., Bendre, S.T.	Journal of Surface Investigation	2018	0	1	NMU, Jalgaon or KBCNMU, Jalgaon
Phase transitions and magnetoelectric coupling in BiFe <sub>1-x</sub> Zn <sub>x</sub> O <sub>3</sub> multiferroics	Amirov, A.A., Chaudhari, Y.A., Bendre, S.T., Chichay, K.A., Rodionova, V.V., Yusupov, D.M., Omarov, Z.M.	European Physical Journal B	2018	3	3	NMU, Jalgaon or KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Magnetocaloric Effect in BiFe <sub>1-x</sub> Zn <sub>x</sub> O <sub>3</sub> Multiferroics	Amirov, A.A., Makoed, I.I., Chaudhari, Y.A., Bendre, S.T., Yusupov, D.M., Asvarov, A.S., Liedienov, N.A., Pashchenko, A.V.	Journal of Superconductivity and Novel Magnetism	2018	3	3	NMU, Jalgaon or KBCNMU, Jalgaon
Physical properties of poly[(thiophene-2,5-diyl)-co-para-chloro benzylidene] doped with cobalt sulphate: synthesis and characterization	Mahashabde, J.P., Patel, S.N., Baviskar, P.K.	Polymer Bulletin	2018	3	1	NMU, Jalgaon or KBCNMU, Jalgaon
Morphological and optical study of Ag <sub>2</sub> Se quantum dots	Chand, S., Sharma, D., Sharma, V., Sharma, P.	AIP Conference Proceedings	2018	0	6	NMU, Jalgaon or KBCNMU, Jalgaon
Reservation in Researvation and Mehtar Cast's Condition	Mr. Umesh Ashok Gogadia	Printing Aria	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Preparation and characterization of miglitol-loaded Poly (d, l-lactide-co-glycolide) microparticles using high pressure homogenization-solvent evaporation method	Mrunal Waghulde, Rahul Rajput, Arun Mujumdar, Jitendra Naik,	International Journal of Polymeric Materials and Polymeric Biomaterials	2018	2	2	NMU, Jalgaon or KBCNMU, Jalgaon
Food fortification of soy protein isolate for human health	Parate Vishal. R., S. Sonawane Shiram, S. Munje Shyam	Research Journal of Chemistry and Environment	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Development of vildagliptin loaded Eudragit® microspheres by screening design: in vitro evaluation	MR Waghulde, Jitendra Naik	Journal of Pharmaceutical Investigation	2018	5	0	NMU, Jalgaon or KBCNMU, Jalgaon
Biodiesel Production in Tubular Microreactor: Optimization by Response Surface Methodology	Preena Shrimal, Himanshu Sanklecha, Pritam Patil, Arun Mujumdar, Jitendra Naik	Arabian Journal for Science and Engineering	2018	0	2	NMU, Jalgaon or KBCNMU, Jalgaon
Effect of multilayered nanostructures on the physico-mechanical properties of ethylene vinyl acetate-based hybrid nanocomposites	Prashant S. Khobragade, D. P. Hansora, Jitendra B. Naik, James Njuguna, Satyendra Mishra	Polymer Composites	2018	5	5	NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis and evaluation of gas sensing properties of PANI, PANI/SnO <sub>2</sub> and PANI/SnO <sub>2</sub> /rGO nanocomposites at room temperature	S Kulkarni, P Patil, A Mujumdar, J Naik,	Inorganic Chemistry Communications	2018	4	5	NMU, Jalgaon or KBCNMU, Jalgaon
Development of Soy Protein Isolate Fortified Cookies Variety Biscuits	Parate Vishal R. , Sonawane Shiram S.	Research Journal of Chemistry and Environment	2018	0	3	NMU, Jalgaon or KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Self-assembled 3D zinc borate florets via surfactant assisted synthesis under moderate pressures: Process temperature dependent morphology study	Dhiraj S Mahajan, Tushar Deshpande, Mahendra L Bari, UjwalDPatil, Jitendra S Narkhede	Material Reasearch Express	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Synthesis of nano CaCO <sub>3</sub> /acrylic co-polymer latex composites for interior decorative paints	Virendra J. Patil, Ujwal D. Patil, Ravindra D. Kulkarni, Nippon Ghosh,	Polymer Copmposites	2018	2	2	NMU, Jalgaon or KBCNMU, Jalgaon
Production of aceclofenac-loaded sustained release micro/nanoparticles using pressure homogenization and spray drying	R Deshmukh, A Mujumdar, J Naik	Drying Technology	2018	7	5	NMU, Jalgaon or KBCNMU, Jalgaon
Segmented microfluidics for synthesis of BaSO <sub>4</sub> nanoparticles	Nirvik SenV Koli, KK Singh, L Panicker, R Sirsam	Chemical Engineering and ProcessingProce ss Intensification	2018	5	5	NMU, Jalgaon or KBCNMU, Jalgaon
Preparation and Characterization of Glipizide Loaded Eudragit Microparticles	Rutuja Deshmukha, S. Mishra , Jitendra Naik	Micro and Nanosystems	2018	1	3	NMU, Jalgaon or KBCNMU, Jalgaon
Solution spray synthesis and surface modification of SiO <sub>2</sub> nanoparticle for development of UV curable concrete coatings	Hatkar, V. M, V. J. Patil, Y. E. Bhoge, J. S. Narkhede, U. D. Patil	Vacuum	2018	1	1	NMU, Jalgaon or KBCNMU, Jalgaon
Preparation and characterization of artemether loaded solid lipid nanoparticles: a 32 factorial design approach	Jayesh Patil, Rahul Rajput, Rupali Nemade, Jitendra Naik,	Materials Technology	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Value Added Bakery Products from Low Cost Raw Materials by using Chemical Interesterification	Subodh Ghule, G. A. Usmani	International Journal of Creative Research Thoughts (IJCRT)	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Carrier Based Oral Nano Drug Delivery Framework: A Review	JS Patil, JB Naik	Current Nanomaterials	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Development of Biodegradable Glimepiride Loaded Chitosan Nano Particles: A Factorial Design Approach	Umakant Verma, Jitendra B Naik, Rutuja Deshmukh, Satyendra Mishra,	Current Environmental Engineering	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Development of Heat Processed Tomato Salsa and its ShelfLife Extension Using HDPE and Retort Packaging	Ravina V. Solunke, Vinay Oswal , Pavankumar R. More, Vishal R. Parate, M.I. Talib	Intl. J. Food. Ferment. Technol	2018			NMU, Jalgaon or KBCNMU, Jalgaon

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Monoethanolamide Based Nonionic Gemini Surfactant from Renewable Sources: Synthesis, Characterization and Anticorrosion Study	Ishwar T. Gawali, G. A. Usmani	International Educational Journal of Science and Engineering (IEJSE)	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Studies on effects of different processing methods on nutritional qualities of hydrolyzed starch resistant from rice industry Byproduct (Paddy straw)	V.M Nirwal, VR Parate, MI Talib	International Journal of Chemical Studies	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Thermodynamics of adsorption of C. I. Basic Violet 3 by Cordia myxa	Fakir Akhtar Sattar Shah, G. A. Usmani	Journal of Research and Development	2018			NMU, Jalgaon or KBCNMU, Jalgaon
Green synthesis of nanocapsules for self-healing anticorrosion coating using ultrasound-assisted approach	Bagale, U.D., Sonawane, S.H., Bhanvase, B.A., Kulkarni, R.D., Gogate, P.R.	Green Processing and Synthesis	2018	3	26	NMU, Jalgaon or KBCNMU, Jalgaon
Development of antimicrobial LDPE/Cu nanocomposite food packaging film for extended shelf life of peda	Lomate, G.B., Dandi, B., Mishra, S.	Food Packaging and Shelf Life	2018	14	1	NMU, Jalgaon or KBCNMU, Jalgaon
Comparative Investigation of Dynamic Foam Behavior of Air-Water and CO <sub>2</sub> -Water Systems	Bathe, G.A., Bhagat, M.S., Chaudhari, B.L.	Journal of Surfactants and Detergents	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Development and characterization of Fast Dissolving Film of Chitosan embedded Famotidine Using 32 Full Factorial Design Approach	Verma, U., Rajput, R., Naik, J.B.	Materials Today: Proceedings	2018	2	0	NMU, Jalgaon or KBCNMU, Jalgaon
Development and validation of analytical method for vildagliptin encapsulated poly- $\epsilon$ -caprolactone microparticles	Waghulde, M., Naik, J.	Materials Today: Proceedings	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Biodegradation of Isotactic Polypropylene (iPP)/Poly(lactic acid) (PLA) and iPP/PLA/Nano Calcium Carbonates Using Phanerochaete chrysosporium	Shimpi, N., Borane, M., Mishra, S., Kadam, M., Sonawane, S.S.	Advances in Polymer Technology	2018	1	3	NMU, Jalgaon or KBCNMU, Jalgaon
High-performance polyimide film based hybrid nanostructures: Synthesis, characterization, and properties investigation	Shimpi, N., Hansora, D.P., Mishra, S.	Polymer Composites	2018	0	0	NMU, Jalgaon or KBCNMU, Jalgaon
Ilmenite phase nickel titanate nanowhiskers as highly sensitive LPG sensor at room temperature	Chaudhari, P., Mishra, S.	Journal of Materials Science: Materials in Electronics	2018	1	0	NMU, Jalgaon or KBCNMU, Jalgaon
Polyaniline/zinc oxide nanocomposite as room-temperature sensing layer for methane	Sen, T., Mishra, S., Sonawane, S.S., Shimpi, N.G.	Polymer Engineering and Science	2018	4	0	NMU, Jalgaon or KBCNMU, Jalgaon

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Preparation and analysis of polypropylene composites with maleated tea dust particles	Lanjewar, S.R., Bari, P.S., Hansora, D.P., Mishra, S.	IEEE Journal of Selected Topics in Quantum Electronics	2018	4	2	NMU, Jalgaon or KBCNMU, Jalgaon
RGO–MWCNT–ZnO based polypyrrole nanocomposite for ammonia gas sensing	Mahajan, C., Chaudhari, P., Mishra, S.	Journal of Materials Science: Materials in Electronics	2018	7	0	NMU, Jalgaon or KBCNMU, Jalgaon
Fortification of wheat flour with ragi flour: Effect on physical, nutritional, antioxidant and sensory profile of noodles	Kudake, D.C., Bhalerao, P.P., Chaudhari, N.S., Muley, A.B., Talib, M.I., Parate, V.R.	Current Research in Nutrition and Food Science	2018	4	0	NMU, Jalgaon or KBCNMU, Jalgaon
Fully biobased polyester polyols derived from renewable resources toward preparation of polyurethane and their application for coatings	J. C. Khanderao V V Gite*	Journal of Applied Polymer Science	2019	3	0	KBCNMU, Jalgaon
Biginelli Reaction: Polymer Supported Catalytic Approaches	Rajendra Patil, Jagdish Chavan, Dipak S. Dalal, Vaishali S. Shinde, Anil Beldar	ACS Combinatorial Science	2019	5	0	KBCNMU, Jalgaon
Functional antimicrobial and anticorrosive polyurethane composite coatings from algae oil and silver doped egg shell hydroxyapatite for sustainable development	C K Patil H D Jirimali,, J S Paradeshi,, B L Chaudhari V V Gite *	Progress in Organic Coatings	2019	2	2	KBCNMU, Jalgaon
Highly Efficient, Combinatorial and Catalyst-Free Approach for the Synthesis of 2-Benzylidenehydrazono-3-phenyl-4-thiazolidinone-5-acetates in Ethanol	Asha D. Jangale, Dipak S. Dalal*	ChemistrySelect	2019	1	0	KBCNMU, Jalgaon
Synthesis, photophysical, solvatochromic and DFT studies of (Z)-2-(2-Phenyl-4H-benzo[4,5]thiazolo[3,2-a]pyrimidin-4-ylidene)acetonitrile derivatives	Patil, R.S., Patil, A.S., Patil, V.S., Jirimali, H.D., Mahulikar, P.P.	Journal of Luminescence	2019	1	1	KBCNMU, Jalgaon
Unprecedented exploration of ionic liquids as additives which astonishes the thermal stability of PVC formulations	Gupta, G.R., Nevare, M.R., Patil, A.M., Gite, V.V.	Bulletin of Materials Science	2019	0	0	KBCNMU, Jalgaon
Waste Eggshells for the Decoration of Carbon Nanotubes and Graphene Nanosheets with Hydroxyapatite for Preparation of LLDPE Nanocomposites	Chaudhari, B.C., Khanderao, J., Patil, C., Patil, A.M., Joshi, S.A., Singh, V., Palodkar, K.K., Sesha Sainath, A.V., Gite, V.V., Jirimali, H.D.	Journal of Polymers and the Environment	2019	0	0	KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Exploration of highly selective fluorogenic 'on-off' chemosensor for H <sub>2</sub> PO <sub>4</sub> <sup>-</sup> ions: ICT-based sensing and ATPase activity profiling	Wagh, Y.B., Tayade, K.C., Kuwar, A., Sahoo, S.K., Mayank, Singh, N., Dalal, D.S.	Luminescence	2019	0	0	KBCNMU, Jalgaon
CsF promoted rapid synthesis of spirooxindole-pyran annulated heterocycles at room temperature in ethanol	Wagh, Y.B., Padvi, S.A., Mahulikar, P.P., Dalal, D.S.	Journal of Heterocyclic Chemistry	2019	0	0	KBCNMU, Jalgaon
Studies of Volumetric and Viscosity Properties in Aqueous Solutions of Imidazolium Based Ionic Liquids at Different Temperatures and at Ambient Pressure	Patil, P.D., Shaikh, V.R., Gupta, G.R., Hundiwale, D.G., Patil, K.J.	Journal of Solution Chemistry	2019	1	0	KBCNMU, Jalgaon
Studies of the Effect of Urea on PEG-4000 Polymer-Water Interactions at 298.15 K	Kushare, S.K., Shaikh, V.R., Dagade, D.H., Patil, K.J.	Journal of Chemical and Engineering Data	2019	0	2	KBCNMU, Jalgaon
Thermodynamic studies of aqueous solutions of ammonium based nitrate protic ionic liquids at different temperatures (288.15 K to 303.15 K) and 101.325 kPa: A volumetric approach	Patil, K.R., Shaikh, V.R., Patil, S.K., Dagade, D.H., Patil, K.J.	Journal of Molecular Liquids	2019	0	0	KBCNMU, Jalgaon
Eco-friendly waterborne coating from bio-based polyester amide resin	Gaikwad, M.S., Kusumkar, V.V., Yemul, O.S., Hundiwale, D.G., Mahulikar, P.P.	Polymer Bulletin	2019	4	1	KBCNMU, Jalgaon
Colorimetric sensor for detection of trace level Al(III) in aqueous medium based on organic-inorganic nanohybrid	Kaur, R., Kaur, N., Kuwar, A., Singh, N.	Chemical Physics Letters	2019	2	0	KBCNMU, Jalgaon
High Performance Fluorescent Turn-On Probe for Amitriptyline Based on Hybrid Nanoassembly of Organic-Inorganic Nanoparticles	Saini, A., Kaur, R., Singh, N., Kuwar, A., Kaur, N.	ACS Applied Bio Materials	2019	1	2	KBCNMU, Jalgaon
Rhodamine based NIR and ratiometric fluorescent sensor for selective identification of potassium ion: application in biological sample	Kaur, R., Sahoo, S.K., Kuwar, A., Kaur, N., Singh, N.	Supramolecular Chemistry	2019	0	1	KBCNMU, Jalgaon
Electrochemical investigations of thymine and thymidine in 1-butyl-3-methyl imidazolium tetrafluoroborate ionic liquids at room temperature	Tayade, S., Patil, K., Sharma, G., Patil, P., Mane, R.M., Mahulikar, P., Sharma, K.K.K.	Chemical Papers	2019	0	0	KBCNMU, Jalgaon
Impact of synergism of LDH with PNCC on the thermal and mechanical properties of polyester nanocomposites	Patil, A.A., Patil, C.B., Mahulikar, P.P.	Polymer-Plastics Technology and Materials	2019	0	0	KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Recent Advances in Safe Synthesis of Energetic Materials: An Overview	Badgajar, D.M., Talawar, M.B., Zarko, V.E., Mahulikar, P.P.	Combustion, Explosion and Shock Waves	2019	0	0	KBCNMU, Jalgaon
Synthesis and antimycobacterial evaluation of new 5-(1-benzyl-1H-1,2,3-triazol-4-yl)-4-methyl-2-arylthiazole derivatives	Shinde, V., Mahulikar, P., Mhaske, P.C., Chakraborty, S., Choudhari, A., Phalle, S., Choudhari, P., Sarkar, D.	Medicinal Chemistry Research	2019	1	3	KBCNMU, Jalgaon
Synthesis and biological evaluation of new 4-(4-(1-benzyl-1H-1,2,3-triazol-4-yl)phenyl)-2-phenylthiazole derivatives	Shinde, V., Mhaske, P.C., Singh, A., Sarkar, D., Mahulikar, P.	Journal of Heterocyclic Chemistry	2019	0	0	KBCNMU, Jalgaon
Column and batch sorption investigations of nickel(II) on extractant-impregnated resin	Tetgure, S.R., Choudhary, B.C., Borse, A.U., Garole, D.J.	Environmental Science and Pollution Research	2019	0	0	KBCNMU, Jalgaon
Green reduction of graphene oxide and its applications in band gap calculation and antioxidant activity	Tayade, U.S., Borse, A.U., Meshram, J.S.	Green Materials	2019	0	0	KBCNMU, Jalgaon
Palladium nanocatalyst: green synthesis, characterization, and catalytic application	Garole, V.J., Choudhary, B.C., Tetgure, S.R., Garole, D.J., Borse, A.U.	International Journal of Environmental Science and Technology	2019	2	0	KBCNMU, Jalgaon
Synthesis, characterization, and antioxidant activity of thymol-based paracetamol analogues	Sathe, P.S., Rajput, J.D., Gunaga, S.S., Patel, H.M., Bendre, R.S.	Research on Chemical Intermediates	2019	0	0	KBCNMU, Jalgaon
Improved Hybrid Approach of Filtering using Classified Library Resources in Recommender System	Shirude S. B., Satish Kolhe	Intelligent Computing Paradigms: Recent Trends, Studies in Computational Intelligence Series	2019	0	0	KBCNMU, Jalgaon
Automatic Speech Recognition (ASR) System for Isolated Marathi Words: using HTK	Sunil Patil, Nita Patil, Ajay Patil	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	0	0	KBCNMU, Jalgaon
Feature Optimization in Sentiment Analysis by Term Co-occurrence Fitness Evolution (TCFE)	Sudarshan S. Sonawane, Satish Kolhe	International Journal of Information Technology and Web Engineering (IJITWE)	2019	0	0	KBCNMU, Jalgaon

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A Conceptual Framework of Expert Finding System for Academic Events and Committees	Shirude Snehalata B., Satish Kolhe	International Journal of Computer Sciences and Engineering	2019			KBCNMU, Jalgaon
An Efficient Camera Identification Technique using Krawtchouk Moment Invariants	Megha Borole, Satish Kolhe	Journal of Mechanics of Continua and Mathematical Sciences	2019			KBCNMU, Jalgaon
Automatic Marathi Text Classification	Rupali P. Patil, R. P. Bhasvar, B. V. Pawar	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019			KBCNMU, Jalgaon
Composite Feature Extraction and Classification for Fusion of PalmPrint and Iris Biometric Traits	Akram Alsubari, Shaikh Abdul Hannan, M. Alzahrani, R. J. Ramteke,	Engineering, Technology & Applied Science Research	2019			KBCNMU, Jalgaon
Conceptual Architecture of Automatic Medicinal Plants Identification System for Manudevi Region	S. B. Shirude	International Journal of Advanced Research In Science, Engineering and Technology (IJARSET)	2019			KBCNMU, Jalgaon
Development of Isolated Malvani Spoken Word ASR System based on Hidden Markov Model	Sunil Patil, Nita Patil , Ajay Patil	International Journal of Computer Research & Technology (IJCRT)	2019			KBCNMU, Jalgaon
Effectiveness of Use of Spoken Tutorial Implementing ICT based Learning for Computer Science Students	S. B. Shirude	International Journal of Advanced Research In Science, Engineering and Technology (IJARSET)	2019			KBCNMU, Jalgaon
Implementation of Basic and Fuzzy CAN Communication in Context with Automotive Application(s)	Umesh B. Pawar, Sunil G. Bhirud, Satish R. Kolhe	International Journal of Control and Automation	2019			KBCNMU, Jalgaon
TCSD: Term Co-occurrence Based Sarcasm Detection from Twitter Trends	Sudarshan S. Sonawane, Satish R. Kolhe	Procedia Computer Science	2019			KBCNMU, Jalgaon
The Future of Farming Through the IoT Perspective	Chetan N Kulkarni , Dr. Ajay U Surwade	International Research Journal of	2019			KBCNMU, Jalgaon

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		Engineering and Technology				
Use of Web Page Tag Information for Efficient Information Retrieval	S. S. Bhamare	International Journal of Research in Advent Technology (IJRAT) UGC Approved	2019			KBCNMU, Jalgaon
Near Duplicate Web Page Detection for Efficient Web Crawling: A Survey	S. S. Bhamare	International Journal of Advanced Scientific Research and Management	2019			KBCNMU, Jalgaon
Phishing e-mail is an increasing menace	Dr. Ajay U Surwade, NA, NA, NA, NA	International Journal of Information Technology	2019			KBCNMU, Jalgaon
Comparison with Evaluation of Intra Ocular Pressure Using Different Segmentation Techniques for Glaucoma Diagnosis	Patil, D.D., Manza, R.R., Ramteke, R.J., Rajput, Y., Harke, S.	Communications in Computer and Information Science	2019	0	1	KBCNMU, Jalgaon
Fuzzy-Based Classification for Fusion of Palmprint and Iris Biometric Traits	Alsubari, A., Lonkhande, P., Ramteke, R.J.	Advances in Intelligent Systems and Computing	2019	0	0	KBCNMU, Jalgaon
Reader System for Transliterate Handwritten Bilingual Documents	Zinjore, R.S., Ramteke, R.J.	Communications in Computer and Information Science	2019	0	0	KBCNMU, Jalgaon
Clustering with polar coordinates system: Exploring possibilities	Patil, Y.S., Joshi, M.R.	Smart Innovation, Systems and Technologies	2019	0	0	KBCNMU, Jalgaon
Relevance feedback mechanism for resolving transcription ambiguity in SMS based literature information system	Pathak, V.M., Joshi, M.R.	Smart Innovation, Systems and Technologies	2019	0	0	KBCNMU, Jalgaon
Material Classification Using Color and Texture Features	Sapkale, S.S., Patil, M.P.	Communications in Computer and Information Science	2019	0	0	KBCNMU, Jalgaon
Challenges Of teachers in Multicultural Society	Dr. Manisha Vinay Indani, NIL, NIL, NIL, NIL	Review of research	2019			KBCNMU, Jalgaon
बहुसांस्कृतिक सोसाइटी में शिक्षा: भारतीय शिक्षक के सामने एक चुनौती	Dr. Manisha Vinay Indani	Review of Research International Online Multidisciplinary Journal	2019			KBCNMU, Jalgaon

<b>Title of the Paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of Publication</b>	<b>Number of citations in Scopus</b>	<b>Number of citation in web of Science</b>	<b>Institutional affiliation as mentioned in the publication</b>
Phosphate removal, mechanism, and adsorption properties of Fe-Mn-Zn oxide trimetal alloy nanocomposite fabricated via coprecipitation method	Milind Kondalkar, Umesh Fegade, Sanjay Attarde, Sopan Ingle,	Separation Science & Technology (Taylor & Francis)	2019	1	0	KBCNMU, Jalgaon
Exploration of the adsorption capability by doping Pb@ZnFe <sub>2</sub> O <sub>4</sub> nanocomposites (NCs) for decontamination of dye from textile wastewater	Ganesh Jethave, Umesh Fegade, Sanjay Attarde, Sopan Ingle, Meharorang Ghaedi	Heliyon	2019	0	0	KBCNMU, Jalgaon
Application Of Remote Sensing And GIS For Groundwater Potential Zonation: A Case Study Of Girna Watershed, Maharashtra, India.	Rokade, V. M.,	Journal of Geosciences Research	2019			KBCNMU, Jalgaon
Comparative Drainage Morphometric Evaluation Of Lithologically Varied Sub-Watersheds Of Bori-Chikli Watershed, Jalgaon District, Maharashtra.	Rokade, V. M., Shimpi S. S., -	Journal of Indian Water Works Association.	2019			KBCNMU, Jalgaon
Comparison of MBBR and ASP for Treatment of Cardiovascular and AntiEpileptic Bulk Drugs Industry Wastewater	Mahesh S. Pathak, P. R Patil	Journal of Applicable Chemistry	2019			KBCNMU, Jalgaon
The adsorption of hexavalent chromium from wastewater synthesized by aloe vera plant extract via solvothermal route.	Gayatri Joshi, Nilesh Mahale, Sopan Ingle, Sanjay Attarde,	Pollution Research	2019			KBCNMU, Jalgaon
Decontamination study of Organic Pollutants from wastewater for Sustainable Clean Environment	Ganesh Jethave, Umesh Fegade, Sanjay Attarde, Sopan Ingle,	Journal of Water and Environmental Nanotechnology	2019			KBCNMU, Jalgaon
Development of a novel submerged membrane Bioreactor (SMBR) for treatment of textile waste water	Ganpat B. More, Shridhar K Jadhav, S. R. Thorat	International journal of research in advanced technology	2019			KBCNMU, Jalgaon
Evaluation of Ground Water Quality Index of Piedmont Plain of Jalgaon District Using Geo-Informatics Technology	Nitin S. Ghope, Kailas P. Dandge, M. B. Chavan, S. T. Ingle,	International Journal of Research in Advanced Technology	2019			KBCNMU, Jalgaon
GIS Application for Assessment and Mapping of Irrigation Water Quality in Piedmont Plain of Jalgaon District, Maharashtra, India	Nitin S. Ghope, Kailas P. Dandge, Sopan T. Ingle, Vishaishwar M. Rokade,	International Journal of Advanced Remote Sensing and GIS	2019			KBCNMU, Jalgaon
Molasses Based spentwash decolorization by coagulation and flocculation	Hrushikesh Mendole, Prashant Jolhe, Sanjaykumar Patil, Nilesh Wagh, Sopan Ingle	International Research Journal of Engineering and Technology	2019			KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Pre-treatment techniques in Reverse Osmosis Membrane system for well water to improve performance and reduce scale formation	Pratapsinh S Jadhav, Kailas P Dandge, Sanjay Gade	International Journal of Research in Advent Technology	2019			KBCNMU, Jalgaon
Spatial Distribution Analysis of Surface Water Quality Index Using Remote Sensing and GIS : A Case Study of Erandol ( Maharashtra , India)	Ganpat B. More, Dandge, K. P., S. R. Thorat	International Journal of Advanced Remote Sensing and GIS	2019			KBCNMU, Jalgaon
Spatial Distribution of Groundwater Qualitative Parameters in lithologically diversified Amb Watershed, Nagpur District, Maharashtra.	Upasani, K. P., Rokade, V. M.	Journal of Geosciences Research	2019			KBCNMU, Jalgaon
Statistical analysis for establishing of Decadaltain all data and variation in GW Level: A case study of PTW1 watershed, Buldhana Distrct of M.S	Rokade, V. M., Naitam S.S	Journal of Research in Advent Techology	2019			KBCNMU, Jalgaon
Treatment Tech. in RO member system for well watch to imprater performance and zedus scale formance	pratap s Jadhav, Kailas P. Dandge, sanjay gade	journal of research in advent Technology	2019			KBCNMU, Jalgaon
‘गांधीवाद आणि मराठी कविता’	Dr. Ashutosh Patil,	Pratishthan	2019			KBCNMU, Jalgaon
भारतीय स्त्रीजीवनाचा चिकित्सक अभ्यास	Prof. M. S. Pagare,	Research Journal	2019			KBCNMU, Jalgaon
The Life & Mission of Mahatma Phule,	PROF.DR.M.S.PA GARE	U ni Researech	2019			KBCNMU, Jalgaon
Process-intensified extraction of phycocyanin followed by $\beta$ -carotene from Spirulina platensis using ultrasound-assisted extraction	MB Bachchhav, Mohan V. Kulkarni, Arun G. Ingale	Separation Science and Technology	2019	0	0	KBCNMU, Jalgaon
Functional anti-corrosive and anti-bacterial surface coatings based on mercaptosuccinic and thiodipropionic acids and algae oil as renewable feedstock	Patil CK, Jirimali HD, Paradeshi JS, Chaudhari BL, Gite* VV	Reactive and Functional Polymers	2019	1	1	KBCNMU, Jalgaon
Steroidal fraction of Carissa carandas L. inhibits microbial hyaluronidase activity by mixed inhibition mechanism	Patil Sandip, Bhadane Bhushan, Shirsath Leena, Patil Ravindra , Chaudhari* Bhushan	Preparative Biochemistry & Biotechnology	2019	0	0	KBCNMU, Jalgaon
Finding out potent probiotic cultures from ayurvedic formulation Takrarishta through in-vitro probiotic characterization and principal component analysis	Chopade Lalit R, Paradeshi Jayasinh S, Amrutkar Kalpesh P	LWT	2019	1	0	KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Bioprocess optimization of laccase production through solid substrate fermentation using <i>Perenniporia tephropora</i> -L168 and its application in bioremediation of triaryl-methane dye	Patil, N. D, Chopade, L. R, Narkhede*, K. P, Chaudhari, B. L., Mahajan, R. T	Biotechnology Progress	2019	0	0	KBCNMU, Jalgaon
Application of ICTs in Life science courses: Issues and Challenges from Students Perception	Navin Dandi, Bhushan Chaudhari, NA, NA, NA	Slovakian journal from TUKE	2019			KBCNMU, Jalgaon
Inclusion of $\alpha$ amylase inhibitor in processing improves the quality of potato chips.	Sainath S. Kasar, A P Giri, P K Pawar, V. L. Maheshwari,	Food and Bioprocess Technology (Springer)	2019			KBCNMU, Jalgaon
A novel screening method for potential naringinase-producing microorganisms	Patil, S.V., Koli, S.H., Mohite, B.V., Patil, R.P., Patil, R.R., Borase, H.P., Patil, V.S.	Biotechnology and Applied Biochemistry	2019	0	2	KBCNMU, Jalgaon
Production and characterization of multifacet exopolysaccharide from an agricultural isolate, <i>Bacillus subtilis</i>	Mohite, B.V., Koli, S.H., Rajput, J.D., Patil, V.S., Agarwal, T., Patil, S.V.	Biotechnology and Applied Biochemistry	2019	0	0	KBCNMU, Jalgaon
<i>Moina macrocopa</i> as a non-target aquatic organism for assessment of ecotoxicity of silver nanoparticles: Effect of size	Borase, H.P., Patil, S.V., Singhal, R.S.	Chemosphere	2019	0	0	KBCNMU, Jalgaon
Nano-eco toxicity study of gold nanoparticles on aquatic organism <i>Moina macrocopa</i> : As new versatile ecotoxicity testing model	Borase, H.P., Muley, A.B., Patil, S.V., Singhal, R.S.	Environmental Toxicology and Pharmacology	2019	1	1	KBCNMU, Jalgaon
Synthesis of 2-methyl-5-(5-phenyl substituted-1,3,4 oxadiazole-2-yl) quinazolin-4-one fluorescent brightening agent: Computational and experimental comparison of photophysical structure	Patil, V., Padalkar, V.S., Sekar, N., Patil, S.V., Rajput, J.	Journal of Molecular Structure	2019	1	0	KBCNMU, Jalgaon
A Protein $\alpha$ -Amylase Inhibitor from <i>Withania Somnifera</i> and its Role in Overall Quality and Nutritional Value Improvement of Potato Chips during Processing	Kasar, S.S., Giri, A.P., Pawar, P.K., Maheshwari, V.L.	Food and Bioprocess Technology	2019	1	1	KBCNMU, Jalgaon
Protease Inhibitors and Their Applications: An Overview	Marathe, K.R., Patil, R.H., Vishwakarma, K.S., Chaudhari, A.B., Maheshwari, V.L.	Studies in Natural Products Chemistry	2019	0	1	KBCNMU, Jalgaon
Effect of Dietary Probiotic <i>Lactobacillus helveticus</i> on Growth Performance, Antioxidant Levels, and Absorption of Essential Trace Elements in Goldfish ( <i>Carassius auratus</i> )	Ahire, J.J., Mokashe, N.U., Chaudhari, B.L.	Probiotics and Antimicrobial Proteins	2019	1	0	KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Pyrrolnitrin from Rhizospheric <i>Serratia marcescens</i> NCIM 5696: Optimization of Process Parameters Using Statistical Tools and Seed-Applied Bioprotectants for <i>Vigna radiata</i> (L.) Against <i>Fusarium oxysporum</i> MTCC 9913	Pawar, S., Chaudhari, A.	Applied Biochemistry and Biotechnology	2019	0	0	KBCNMU, Jalgaon
Microbial pyrrolnitrin: Natural metabolite with immense practical utility	Pawar, S., Chaudhari, A., Prabha, R., Shukla, R., Singh, D.P.	Biomolecules	2019	1	0	KBCNMU, Jalgaon
Zero Divisor Graph of a Lattice and Its Unique Ideal	Deore, R., Tayade, P.	Journal of Mathematics	2019	0	0	KBCNMU, Jalgaon
Sustainable Drug Delivery of Famotidine Using Chitosan-Functionalized Graphene Oxide as Nanocarrier	Koli, SH; Suryawanshi, RK; Mohite, BV; Patil, SV	NATURAL PRODUCT COMMUNICATIONS	2019	0	0	KBCNMU, Jalgaon
Study of Prime Graph of a Ring	Kishor F. Pawar, Sandip S. Joshi,	Thai Journal of Mathematics	2019	0	2	KBCNMU, Jalgaon
A study of fixed points of mappings satisfying E.A like property on dislocated quasi b-metric spaces	P. G. Golhare, C. T. Aage	Applied Mathematics ENotes,	2019	0	0	KBCNMU, Jalgaon
On Characterizations of The Fully Rational Fuzzy Choice Functions	S. S. Desai, S. R. Chaudhari	Iranian Journal of Fuzzy Systems	2019	0	0	KBCNMU, Jalgaon
Dislocated quasi rectangular b-metric spaces and related fixed-point theorems	P. G. Golhare, C. T. Aage	Electronic Journal of Mathematical Analysis and Applications	2019			KBCNMU, Jalgaon
Fixed point theorems satisfy property P in metric spaces	D. R. Nhavi, C. T. Aage	Electronic Journal of Mathematical Analysis and Applications	2019			KBCNMU, Jalgaon
On Radicals for Ternary Semirings	Swapnil P. Wani, Kishor F. Pawar,	International J. Math. Combin	2019			KBCNMU, Jalgaon
Some fixedpoint theorems on dislocated bmetric and dislocated quasi bmetric spaces	P. G. Golhare, C. T. Aage	International Journal of Advances in Mathematics	2019			KBCNMU, Jalgaon
The Prime Graph of a Ring	Kishor Pawar, Sandip Joshi,	International J. Math. Combin	2019			KBCNMU, Jalgaon
Estimation of scale parameter of Morgenstern type Bivariate Generalized uniform distribution by ranked set sampling	Kamalja K.K., Koshti R.D.	Journal of Data Science	2019			KBCNMU, Jalgaon
On regular $\Gamma$ -semihyperring and idempotent $\Gamma$ -semihyperring	Kishor F. Pawar, Jitendra J. Patil, Bijan Davvaz	Kyungpook Mathematical Journal	2019	0	2	KBCNMU, Jalgaon
Some results on certain Volterra integral and integrodifferential	H. L. Tidke	International Journal of	2019			KBCNMU, Jalgaon

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functional equations with finite delay		Mathematical Sciences				
Anchoring of gold nanoparticles into aligned TiO <sub>2</sub> nanotube: Improved supercapacitive performance	Girish P Patil, Shrikant S.Raut, Babasaheb R. Sankapal, Padmakar G Chavan	Nano-Structures & Nano-Objects	2019	0	1	KBCNMU, Jalgaon
Reduced turn-on field through solution processed MoS <sub>2</sub> nanoflakes anchored MWCNTs	Chandradip D.Jadhav, Swapnil S.Karade, Babasaheb R. Sankapal, Girish P Patil, Padmakar G Chavan	Chemical Physics Letters	2019	1	0	KBCNMU, Jalgaon
A new approach for preparation of ternary bulk-heterojunction using dual-feed ultrasonic spray for organic solar cells	Swapnil Tak, Hemant Tarkas, Gauri Bisen, Sanjay Ghosh, Jaydeep V. Sali	Optical Materials	2019	0	0	KBCNMU, Jalgaon
Role of polyaniline thickness in polymer-zinc oxide based solid state solar cell	Faisal MA Almontaser,, Prashant K BaviskarSutripto Majumder, Babasaheb R Sankapal, Hemant S Tarkas,, Jaydeep V Sali,	Materials Science and Engineering: B	2019	0	0	KBCNMU, Jalgaon
Structural, optical and electrical properties of post annealed K-doped ZnO films for optoelectronics applications	L.M. Mahajan, D.S.Patil	Materials Research Express	2019	0	1	KBCNMU, Jalgaon
XPS study of homemade plasma enhanced atomic layer deposited La <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> bilayer thin films	Patil Vilas,Agrawal Khushabu,Barhate Viral,Patil Sumit ,Mahajan Ashok	Semiconductor science and Technology	2019	0	0	KBCNMU, Jalgaon
Investigation of optical and electrical properties of lithium doped ZnO nano films	L.M. Mahajan, C.K.Kasar, D.S. Patil	Materials Research Express	2019	2	0	KBCNMU, Jalgaon
Influence of Process Variables on Morphology and Field Emission Properties of Aligned 2D Cd(OH) <sub>2</sub> Nanosheets	Vivekanand S Bagal , Girish P. Patil, Padmakar G. Chavan	J.Nanoele Optoele	2019	0	0	KBCNMU, Jalgaon
Ultra Low Turn-On and Photo-Sensitive Field Emission from CdSe Nanotubes	Girish P Patil, Baviskar, Prashant K, Chavan, Padmakar G., ,	Journal of Nanoelectronics and Optoelectronics,	2019	0	4	KBCNMU, Jalgaon
Reduced turn-on voltage field emission through solution processed MoS <sub>2</sub> nanoflakes anchored MWCNTs,	Chandradip D. Jadhav, Swapnil S. Karade,, Babasaheb R. Sankapal, Girish P. Patil, Padmakar G. Chavan,,,	Chem. Phys. Letts.	2019			KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Effect of thermal annealing and cooling rate on CBD grown CdS thin films	Raees A. Gani Shaikh, Sagar A. More, Gauri G. Bisen, Sandesh R. Jadkar, Jaydeep V. Sali	Journal of Materials Science: Materials in Electronics	2019			KBCNMU, Jalgaon
Development of atmospheric pressure glow discharge plasma assisted CVD system for the deposition of SiO <sub>x</sub> coatings	Pardeshi, H., Patil, P.P., Bange, J.	Journal of Instrumentation	2019	0	0	KBCNMU, Jalgaon
Effect of thermal annealing and cooling rate on CBD grown CdS thin films	Shaikh, R.A.G., More, S.A., Bisen, G.G., Jadkar, S.R., Sali, J.V., Ghosh, S.S.	Journal of Materials Science: Materials in Electronics	2019	0	0	KBCNMU, Jalgaon
Analysis of Encoder and Decoder by using Multiple Valued (MV) Hybrid SETMOS	Chaudhari, J.R., Gautam, D.K.	Silicon	2019	1	0	KBCNMU, Jalgaon
Analysis of Hybrid SETMOS T-Gate using Quaternary Multiple Valued (MV) Logic	Chaudhari, J.R., Gautam, D.K.	Silicon	2019	0	0	KBCNMU, Jalgaon
Cu(OH) <sub>2</sub> @Cd(OH) <sub>2</sub> core-shell nanostructure: Synthesis to supercapacitor application	Patil, S.L., Raut, S.S., Sankapal, B.R.	Thin Solid Films	2019	0	0	KBCNMU, Jalgaon
Sensitization of TiO <sub>2</sub> by chemically deposited Cu <sub>2</sub> S for solar cell: Effect of deposition time on photoelectrochemical performance	Baviskar, V., Salunkhe, D., Tarkas, H., Wagh, R., Baviskar, P., Patil, R.	Optik	2019	0	0	KBCNMU, Jalgaon
A remarkable enhancement in photocatalytic activity of facilely synthesized Terbium@Zinc oxide nanoparticles by flash combustion route for optoelectronic applications	Shkir, M., Chandekar, K.V., Alshehri, B.M., Khan, A., AlFaify, S., Hamdy, M.S.	Applied Nanoscience (Switzerland)	2019	1	0	KBCNMU, Jalgaon
Acetaldehyde sensing properties using ultrafine CuO nanoparticles	Patil, P., Nakate, U.T., Nakate, Y.T., Ambare, R.C.	Materials Science in Semiconductor Processing	2019	4	0	KBCNMU, Jalgaon
Room temperature LPG sensing properties using spray pyrolysis deposited nano-crystalline CdO thin films	Nakate, U.T., Patil, P., Ghule, B., Nakate, Y.T., Ekar, S., Ambare, R.C., Mane, R.S.	Surfaces and Interfaces	2019	1	1	KBCNMU, Jalgaon
Synthesis, experimental and computational spectroscopic investigations of third-order nonlinear optical material (E)-N'-(benzo[d][1,3]dioxol-5-ylmethylene)benzohydrazide	Uthayakumar, M., Jeyakumari, A.P., Dhandapani, A., Shinde, V., Arivanandhan, M.	Journal of Physics D: Applied Physics	2019	0	2	KBCNMU, Jalgaon

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Quantum chemical studies on synthesis, characterization and third order nonlinear optical properties of (E)-2-(benzo[d][1,3]dioxol-5-ylmethylene) hydrazine carboxamide single crystal	Uthaya Kumar, M., Pricilla Jeyakumari, A., Anbalagan, G., Shinde, V., Sriram, S.	Journal of Materials Science: Materials in Electronics	2019	0	0	KBCNMU, Jalgaon
Multi-Objective Optimization of Solid State Fermentation Process	Bagal, VS; Patil, GP; Sharma, M; Chavan, PG	JOURNAL OF NANO ELECTRONICS AND OPTOELECTRONICS	2019	0	0	KBCNMU, Jalgaon
A Study of america iran Relation and its impact on india	Dr. Umesh Ashok Gogadiya	Aayushi International Interdisciplinary Reaserch Journal	2019			KBCNMU, Jalgaon
Changing Trends And Issues Before Indian Politics:Language Conflicts Another Option To Discriminate	Dr. Umesh Ashok Gogadiya	Aayushi International Interdisciplinary Reaserch Journal	2019			KBCNMU, Jalgaon
Generation of sustained release chitosan nanoparticles for delivery of ketorolac tromethamine: a tubular microreactor approach	Jayesh Patil, Rahul Rajput, Pritam Patil, Arun Mujumdar, Jitendra Naik	International Journal of Polymeric Materials and Polymeric Biomaterials	2019	0	7	KBCNMU, Jalgaon
Synthesis, surface active properties and applications of cationic gemini surfactants from triethylenetetramine	Ishwar T. Gawali, G. A. Usmani	Journals of Dispersion Science and Technology	2019	0	0	KBCNMU, Jalgaon
Preparation and characterization of ketorolac tromethamine-loaded ethyl cellulose micro-/nanospheres using different techniques	Pankaj Wagh, Arun Mujumdar, Jitendra Naik	Particulate Science and Technology	2019	5	6	KBCNMU, Jalgaon
Preparation of Efavirenz resinate by spray drying using response surface methodology and its physicochemical characterization for taste masking	Umakant Verma, Arun Mujumdar, Jitendra Naik	Drying Technology	2019	1	1	KBCNMU, Jalgaon
Development of Enriched Yoghurt With Cabbage (Brassica oleraceae L.var capitato) Powder and Its Antimicrobial Property	Ashwini B.Bangar, M.I.Talib, Vishal R.Parate	International Journal of Management, Technology and Engineering	2019			KBCNMU, Jalgaon
Development of Fibre Rich Biscuits from Corn Bran	Vishal Parate, Snehal Kale, M.I. Talib	International Journal of Management, Technology and Engineering	2019			KBCNMU, Jalgaon
Development of Mushroom Cake By Incorporation of Button Mushroom (Agricus Bisporus) Powder	Mohammed I. Talib, Chaitanya S. Rathod, Vishal R. Parate	International Journal of Management, Technology and Engineering	2019			KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Development of the Process for Banana Beer by Innovative Approach with Process Optimization	Vaishali N. Ingale, Vishal R. Parate, Mohammed I. Talib,	International Journal of Management, Technology and Engineering	2019			KBCNMU, Jalgaon
Multi Enzyme Assisted Retention of Vitamins in Fruit Juice Clarification with Indirect Heating	Swapnil V. Deshmukh, Asaram M. Darade, Akshay B. Thange, Amesh V. Pawar, Vishal R. Parate,	International Journal of Management, Technology and Engineering	2019			KBCNMU, Jalgaon
Surface Active Performance & Biological Properties of Monoethanolamine based NonIonic Gemini Surfactants	Ishwar T. Gawali, G. A. Usmani	International Education Journal of Science & Engineering (IEJSE)	2019			KBCNMU, Jalgaon
Isotherm, kinetics and trickling flow studies for removal of chromium from synthetic effluent by using mixed fruit peels (MFP)	Kulkarni, S.J., Goswami, A.K.	International Journal of Innovative Technology and Exploring Engineering	2019	0	5	KBCNMU, Jalgaon
Thermal, mechanical and morphological study of carbon nanotubes-graphene oxide and silver nanoparticles based polyurethane composites	Gedam, S.S., Chaudhary, A.K., Vijayakumar, R.P., Goswami, A.K., Bajad, G.S., Pal, D.	Materials Research Express	2019	0	0	KBCNMU, Jalgaon
Dynamic adsorption of Cd <sup>2+</sup> from aqueous solution using biochar of pine-fruit residue	Meshram, P.D., Bhagwat, S.S.	Indian Chemical Engineer	2019	0	0	KBCNMU, Jalgaon
Inclusion of Aceclofenac in Mesoporous Silica Nanoparticles: Drug Release Study and Statistical Optimization of Encapsulation Efficiency by Response Surface Methodology	Patil, L.D., Verma, U., Patil, U.D., Naik, J.B., Narkhede, J.S.	Materials Technology	2019	0	0	KBCNMU, Jalgaon
Optimization of roller burnishing process parameters on surface roughness using response surface methodology	Ulhe, P.N., Patil, U.D., Patil, C.R.	Materials Today: Proceedings	2019	0	0	KBCNMU, Jalgaon
Development of nateglinide loaded graphene oxide-chitosan nanocomposites: Optimization by box behnken design	Deshmukh, R.V., Paraskar, P., Mishra, S., Naik, J.	Micro and Nanosystems	2019	0	0	KBCNMU, Jalgaon
Continuous microchannel precipitation to enhance the solubility of telmisartan with poloxamer 407 using Box-Behnken design approach	Shrimal, P., Jadeja, G., Naik, J., Patel, S.	Journal of Drug Delivery Science and Technology	2019	2	0	KBCNMU, Jalgaon
Development of nanoparticulate sustained release oral drug delivery system for the antihyperglycemic with antihypertensive drug	Khairnar, G., Mokale, V., Mujumdar, A., Naik, J.	Materials Technology	2019	0	0	KBCNMU, Jalgaon

Title of the Paper	Name of the author	Title of the journal	Year of Publication	Number of citations in Scopus	Number of citation in web of Science	Institutional affiliation as mentioned in the publication
Production and evaluation of vildagliptin-loaded poly(dl-lactide) and poly(dl-lactide-glycolide) micro-/nanoparticles: Response surface methodology approach	Waghulde, M., Rajput, R., Mujumdar, A., Naik, J.	Drying Technology	2019	1	0	KBCNMU, Jalgaon
Effect of functionalized multi-walled carbon nanotubes on physicochemical properties of silicone rubber nanocomposites	Tamore, M.S., Ratna, D., Mishra, S., Shimpi, N.G.	Journal of Composite Materials	2019	2	2	KBCNMU, Jalgaon
Enriched mechanical, UV shielding and flame retarding properties of cotton fabric coated with graphite nano platelets filled polyaniline-gum arabic nanocomposites	Bharadiya, P., Mahajan, C., Sharma, A.K., Mishra, S.	Cellulose	2019	0	2	KBCNMU, Jalgaon
Functionalization, Uptake and Release Studies of Active Molecules Using Halloysite Nanocontainers	Ghodke, S.A., Sonawane, S.H., Bhanvase, B.A., Mishra, S., Joshi, K.S., Potoroko, I.	Journal of The Institution of Engineers (India): Series E	2019	0	1	KBCNMU, Jalgaon
Graphene oxide-wrapped polyaniline nanorods for supercapacitor applications	Bharadiya, P., Jain, R., Chaudhari, V., Mishra, S.	Polymer Composites	2019	4	0	KBCNMU, Jalgaon
High-Performance Supercapacitor Electrode of HNO <sub>3</sub> Doped Polyaniline/Reduced Graphene Oxide Nanocomposites	Jain, R., Sharma, D.K., Mishra, S.	Journal of Electronic Materials	2019	0	0	KBCNMU, Jalgaon
Influence of Graphene Oxide on Mechanical and Hydrophilic Properties of Epoxy/Banana Fiber Composites	Bharadiya, P.S., Singh, M.K., Mishra, S.	JOM	2019	1	3	KBCNMU, Jalgaon
Influence of Reduced Graphene Oxide on Epoxy/Carbon Fiber-Reinforced Hybrid Composite: Flexural and Shear Properties under Varying Temperature Conditions	Jenkins, P., Siddique, S., Khan, S., Usman, A., Starost, K., MacPherson, A., Bari, P., Mishra, S., Njuguna, J.	Advanced Engineering Materials	2019	1	0	KBCNMU, Jalgaon
Investigation of thermal and mechanical properties of styrene-butadiene rubber nanocomposites filled with SiO <sub>2</sub> -polystyrene core-shell nanoparticles	Khan, M., Mishra, S., Ratna, D., Sonawane, S., Shimpi, N.G.	Journal of Composite Materials	2019	0	0	KBCNMU, Jalgaon
Synthesis of B doped graphene/polyaniline hybrids for high-performance supercapacitor application	Jain, R., Mehrotra, R., Mishra, S.	Journal of Materials Science: Materials in Electronics	2019	4	0	KBCNMU, Jalgaon
Direct precipitation of uranium from loaded organic in a microreactor	Sen, N., Ekhande, S., Thakur, P., Singh, K.K., Mukhopadhyay, S., Sirsam, R., Patil, N., Shenoy, K.T.	Separation Science and Technology (Philadelphia)	2019	0	0	KBCNMU, Jalgaon

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Synthesis of 4-(2-(sub stituted phenyl) diazenyl)-1-phenylpyrazolidine-3,5-dione catalyzed by L-proline and their biological activity	Mahajan, CR; Joshi, LB; Varma, U; Naik, JB; Chaudhari, VR; Mishra, S	GLOBAL CHALLENGES	2019	0	0	KBCNMU, Jalgaon

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