

॥ अंतरी पेटवू ज्ञानज्योत ॥



1990  
'A' Grade  
NAAC Re-Accredited  
(3<sup>rd</sup> Cycle)

# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

## Academic Audit Report 2015-16 to 2017-18



February 22-23, 2019



## **Academic Audit Report**

**(for the academic year 2015-16 to 2017-18)**

### **INTRODUCTION:**

The NAAC (National Assessment and Accreditation Council, Bangalore as a Quality Assurance Body in Higher Education has evolved the mechanism for ascertaining and ensuring quality at different levels of Higher Education and for its continued sustenance. In tune with quality concept of NAAC, NMU has established Internal Quality Assurance Cell in the year 2006. It is also mentioned u/s 37 (j) of Maharashtra Public Universities Act, 2016 that every University should conduct Academic Audit of its Schools/Institute and affiliated colleges.

In continuation with this decision, the Hon'ble Vice-Chancellor, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon has constituted following Academic Audit Committee vide Note dtd. July 24, 2018 for conducting the academic audit of the various Schools/Institute of the University during the academic years 2015-16 to 2017-18.

<b>No.</b>	<b>Name of the Dignitaries</b>	<b>Position</b>
1.	Prof. N.J. Pawar, Former Vice Chancellor, Shivaji University, Kolhapur	Chairman
2.	Dr. A.D. Chaudhari, Retired Director, BCUD, RTM Nagpur University, Nagpur	Member
3.	Dr. D.R. Patil, Principal and Dean, Faculty of Science, R.C. Patel Arts, Commerce and Science College, Shirpur.	Member
4.	Mr. A.G. Rao, Retired Principal, M.J. College, Jalgaon	Member
5.	Prof. S.T. Ingle, Director, School of Environmental and Earth Sciences & IQAC, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.	Member Secretary

Prof. N.J. Pawar and Mr. A.G. Rao were absent during the academic audit due to some unavoidable circumstances. As Prof. N.J. Pawar and Mr. A.G. Rao communicated their inability to attend the visits of academic audit, Hon'ble Vice Chancellor has appointed Prof. A.D. Chaudhari as a Chairman and Prof. S.T. Ingle, Director, IQAC as a Member Secretary of the committee.

## **PURPOSE OF THE ACADEMIC AUDIT:**

The main objective of Academic Audit is to evaluate the teaching, learning, evaluation, research and extension activities of the University Schools/Institute and identify the issues that are to be attended in order to upgrade the overall academic quality. The following are the major objectives of Academic Audit:

1. To understand the existing system and assess the strengths and weaknesses of the Schools and to suggest the methods for improvement for overcoming the weaknesses while teaching, learning and evaluation, student support and progression.
2. To ascertain whether the schools/institute are functioning efficiently and effectively with proven records of capacity building, research projects, publications, consultancy and extension over a period of time or not.
3. To identify the bottlenecks in the existing setup, to identify the opportunities for academic and examination reforms in tune with vision and mission of the University and to face the challenges of Internationalization in Higher education.
4. To evaluate the optimum utilization of financial and other resources, issues concerning with leadership and organization, functional autonomy and financial management.
5. To identify the social outreach and inclusive growth practices related to academic upgradation of tribal and other socially disadvantaged groups.
6. To suggest the methods of improvement for sustaining quality in higher education.

The committee visited the Schools/Institute as per following schedule :

<b>Date</b>	<b>Period</b>	<b>Name of the School/Institute</b>
22.02.2019	10.00 – 10.50	School of Life Sciences
	11.00 – 11.50	School of Environmental and Earth Sciences
	12.00 – 12.50	School of Physical Sciences
	01.00 – 02.00	Lunch Break
	02.00 – 02.50	School of Computer Sciences
	03.00 – 03.50	School of Mathematical Sciences
	04.00 – 04.50	School of Social Sciences
	05.00 – 05.30	School of Thoughts
23.02.2019	10.00 – 10.50	School of Chemical Sciences
	11.00 – 11.50	Institute of Chemical Technology
	12.00 – 12.50	School of Management Studies
	01.00 – 02.00	Lunch Break
	02.00 – 02.50	School of Education
	03.00 – 03.50	School of Languages Studies and Research Center
	04.00 – 04.50	School of Arts and Humanities
	05.00 – 05.30	Committee Meeting & Report Submission

During the visit of School of Thoughts, the committee also visited to Knowledge Resource Center, Gandhi Museum and Resource Center for Inclusive Education.

At the beginning, the committee has observed the healthy, studious and pleasant atmosphere conducive for growth of first-generation graduate learners in the University Campus. During the visit to the various schools, the Directors of the Schools/Institute presented various activities in brief and progress made during the academic years 2015-16 to 2017-18. The committee interacted with the Directors, Heads of Departments, teaching faculty, students, visited various laboratories/sections and discussed about the progress made by the Schools/Institute and the constraints experienced by them. The committee noted the cohesiveness and enthusiasm among the faculties of the schools/institute. The detailed observations made by the committee about each school along with the suggestions are given below.

### **1. School of Life Sciences :**

Prof. V.L. Maheshwari and staff offered warm welcome to the committee. Prof. V.L. Maheshwari made Power Point Presentation of the school before the committee in the presence of the teaching staff of the school. In his presentation, the Director, presented the information about the physical and laboratory infrastructure, academic programmes, admission and progression of M.Sc. students, various research programmes along with the advanced research activities, co-curricular activities, extension programmes of societal relevance of the school.

The committee observed that the school is very strong in research activities and running academic and research programmes very efficiently and effectively. The school has advanced infrastructural facilities which are being used for teaching, research as well as extension activities. The school has obtained the research grants to the tune of about 7.00 Crores from various funding agencies including the UGC-SAP and DST-FIST. The school has also undertaken the extension programmes of agricultural importance in the rural areas. The school is involved in the consultancy services and generated an amount little above Rs. 10.00 lakhs. However, the school should make more efforts to strengthen the consultancy services to generate more revenue in future. The research carried out in the school is of importance which is indicated by grants of 01 patent and filling of 04 patents applications. The faculties of the school are also active in presenting their research outcomes in different conferences/workshops/seminars at National and International level. Students of the school have been granted the fellowships from different funding agencies and some like - INSPRE Fellowship is noteworthy. The school has strong collaborative national and international linkages. In addition to this, school on their own have initiated good practices for supporting students. Important of them is the scholarships from the funds generated by the faculty, alumni and donors.

In spite of the strong performance of the school, committee has noted the following weaknesses, which needs to be addressed immediate future such as - increase in number of student failures and drop out of students.

### **2. School of Environmental and Earth Sciences:**

In school of Environmental and Earth Sciences, the presentation was made by Prof. S.R. Thorat. Before the presentation, Prof. S.T. Ingle and staff offered warm welcome to the committee. Prof. Thorat presented the profile of the school, admissions and progressions of the students, academic and research activities conducted, consultancy services provided, distinction earned by faculty and students, placement of the students, publications and research collaborations and co-curricular and extra-curricular activities of the school before the committee.

The committee observed that the school is conducting M.Sc., M.Tech. and Ph.D. programmes in the subjects such as – Environmental Science, Applied Geology, Applied Geography and Environmental Technology. In addition to this, the school is conducting Career Oriented Certificate course in Industrial Safety and Management sponsored by UGC. In addition to the academic programmes, the school has strong research and development activities leading to the award of Ph.D. degrees, good quality national and international publications. The school has obtained the research grants from State Funding Agencies and Industries to the tune of about Rs. 90.00 lakhs. In addition to this, the school has received a grant of about Rs. 2.0 Crores from UGC-SAP and DST-FIST. The school is also conducting online outreach programme in RS & GIS of Indian Institute of Remote Sensing, Dehradun on regular basis. The school has contributed in the society-oriented extension activities like – Total Sanitary Campaign and Rajiv Gandhi Clean Drinking Water Mission. The school is providing technical services to the local industries and Government Departments like – Irrigation Department, Department of Water Supply and Sanitation and Municipal Corporation. Through these services, the school has earned about Rs. 30.00 lakhs as a consultancy charges. The faculty is very active in presenting their output on the different platform of national and international conferences/seminars and workshops. Recognizing the activities of the school, U.G.C. and DST have supported the school by funding SAP and FIST.

The committee feels that the school should make more efforts to generate financial resources through the consultancy as well as research projects. Although, the school has taken feedbacks from the students, the issues of the students were not addressed even after due analysis.

### **3. School of Physical Sciences:**

Prof. S.T. Bendre and staff offered warm welcome to the committee. Prof. A.M. Mahajan made Power Point Presentation before the committee. In the presentation, he had given information about the courses taught, faculty profile, conferences conducted and organized, distinctions earned by faculty, infrastructure, student feedback of the school. He has also elaborated the mode of examination, student's placement, thrust areas of research and research profile of the school before the committee. The extension, Extra-curricular and Co-curricular activities of the school were also highlighted in the presentation.

On conclusion of presentation, the committee is of the view that this school is also running various strong M.Sc. and Ph.D. programmes in Materials Science, Energy Studies and Electronics. The Post-graduate student's performance was found to be better, but it needs the further improvement so that the students will be benefitted. The physical and laboratory infrastructure of the school was observed to be excellent. One of the unique features of the school is the fabrication of the advanced equipment for the research purpose. The faculty members told that one of the instruments fabricated by them is to be patented in future. The school is doing excellent research work of applied value which is indicated by filling 02 patents applications and the good quality publications in the reputed national and international journals. The school has obtained the research grants to the tune of little less than Rs. 4.5 crores including the UGC-SAP and DST-FIST. The faculty have also attended several national and international conferences/workshops and seminars. The strong research activities of the school are also reflected in the number of Ph.D. scholars which is at present 40.

Although the school has strong academic and research activities as well as advanced laboratory infrastructure, the committee observed that the school is not providing the consultancy services. Another weakness is that the school has not analyzed the students' feedback which is essential for remedial action.

#### **4. School of Computer Sciences:**

Prof. B.V. Pawar and staff offered warm welcome to the committee. He has also made Power Point Presentation of the school. He has given information about school profile, available infrastructure, academic and research programmes, distinction earned by faculty and students, consultancy, patents, publications, research collaborations and services provided to the University.

This school is running M.Sc. (Computer Science and Information Technology) and M.C.A. as well as Ph.D. courses. The school is performing very strongly in academic and research programmes. It has received a grant of about Rs. 1.40 Crores through the research funding including UGC-SAP and DST-FIST. Faculty of the school is active in research and has presented their research work in several conferences/seminars/workshops and also published their research findings in several national and international journals. The school is also providing the consultancy and generated a revenue of Rs. 1.95 lakhs. The committee is of the opinion that the school should make more efforts to generate more revenue through consultancy. The school also has the collaborations with national and international Universities/Industries like – IIT, IISC, C-DAC, Microsoft etc. The faculty members and the students have been awarded with different awards at State, National and International level. One of the noteworthy features of this school is the establishment of Pandit Deen Dayal Upadhyaya Chair. The school also has a good placement for their M.Sc., and M.C.A. students. The school has well established Computer Center and providing various services to the University in the examination and administrative set-up. The school also has nice feedback mechanism which also addresses the problem suggestions made by the students.

The school is performing very well but it must address the following two points.

1. Increasing number of failure percentage of students.
2. should have a greater number of research publications.

#### **5. School of Mathematical Sciences:**

Prof. R.L. Shinde and staff offered warm welcome to the committee. He has presented the various activities and academic programmes conducted by the school. He has also emphasized on the distinction earned by the faculty, student feedback mechanism, learning resources and examinations and the research profile of the school. In SWOC analysis, the extension activities as well as extra-curricular and co-curricular activities are identified as strength of the school. The faculty of the school is actively engaged in the research and published good number of research papers in the national and international reputed journals. However, the fund generated in the form of research projects are less. The school has organized conference/workshops and seminars on regular basis during the assessment period. The faculty also engage in participating in the Faculty Development Programme, Orientation and Refresher courses as well as resource persons at various forums. The school has developed nice student feedback mechanism. The feedback is analyzed properly, and the appropriate actions are taken. The school has started skill based unique graduate course in Actuarial Science.

However, the school should make efforts to increase the number of full-time Ph.D. scholars, increase research grants and start consultancy services.

## **6. School of Social Sciences:**

In the absence of Director, Dr. Jagatrao Dhangar has made Power Point Presentation of the school before the committee. He has given information regarding courses taught, number of teaching and non-teaching staff, various activities conducted like – conferences/workshops organized and the extension services of the school. In addition to this, he has highlighted distinctions earned by faculty, infrastructure, student feedback analysis, learning resources and examination, publication of research papers, extension, Co-curricular and extra-curricular activities and SWOC etc. in the presentation.

The committee observed that the school is conducting master's Academic Programmes in Psychology, Sociology, History, Economics, Political Science, Philosophy, Social Work, Ambedkar Thoughts, Women Studies. In addition to this, the school is offering certificate course in Gender Sensitization, Museology and Modi Script. In the school, students are enrolled from the parent University as well as other Universities of the state and outside the state reflecting the student diversity.

The student's progression in the academic career is average and the number of failures is more. The school should take the remedial measures to reduce the number of failures. In the school, there are only two permanent faculty members and therefore, the performance of the school is average at academic and research level. Therefore, the school should make more efforts with existing limited faculties to enhance the academic and research output.

## **7. School of Thoughts :**

Prof. A.P. Dongre offered warm wel-come to the committee and made the power point presentation of the school. This school is established in the year 2012-13. School of Thoughts is a novel concept. Students will get acquainted with the thoughts of six epoch making Thinkers. The school is planning to construct building on the Gandhi Hill. The school organizes on regular basis the popular lectures on the great thinkers. The various study centers of the school are Buddhist Study and Research Center, Chhatrapati Shivaji Maharaj Study and Research Center, Mahatma Jyotiba Phule Study and Research Center, Swami Vivekananda Study and Research Center, Mahatma Gandhi Study and Research Center, Sane Guruji Study and Research Center and Kavayitri Bahinabai Chaudhari Study and Research Center. The committee also visited the museum, Mahatma Gandhi Research Center and Sane Guruji Research Center and the committee was very much impressed by these centers and the museum. The Director has also given information of various courses conducted by the school such as P.G. Diploma in Guiding Heritage Studies and Tourism Management and Certificate Course in Buddhist Heritage. The school is also conducting enrichment programmes to inculcate the social values.

The school is merely organizing some awareness activities. Hence, the committee suggested to start some academic programmes in the above centers.

## **8. Knowledge Resource Center and Resource Center for Inclusive Education:**

In the evening, the committee also visited the Resource Center for Inclusive Education and Knowledge Resource Center of the University and appraised itself the activities conducted so far in these centers. The noteworthy feature is the facilities available for visually impaired persons for computer operation and computer related services.

## **9. School of Chemical Sciences:**

Prof. D.H. More and staff offered warm welcome to the committee. Prof. (Smt.) R.S. Bendre has presented the academic and research profile of the school. She has given information regarding courses taught, number of teaching and non-teaching staff,

conferences conducted, distinctions earned by faculty, laboratory infrastructure and learning resources, feedback analysis, student's placement, research projects, patents, award and achievements of the faculty and students, research publications, collaborations, participation in conferences/seminars, extension, Co-curricular and extra-curricular activities, in the presentation.

After interacting with the Director and other faculty members of the school, the committee is of the view that this school has very strong academic and research programmes. The school has P.G. Programmes in Analytical Chemistry, Physical Chemistry, Organic Chemistry, Industrial Chemistry, Polymer Chemistry, Pesticide and Agro-chemicals. The faculty members are actively engaged in their academic and research activities which reflected in good progression of P.G. students and the research outcome. The school has generated the funds to the tune of about Rs. 4.10 Crores through various research projects through various funding agencies including UGC-SAP and DST-FIST. The school also has undertaken industrial consultancy project to the tune of Rs. 4.50 lakhs. The school has quite a good number of international research publications numbering 179 along with the publications in national journals. The research outcome of the school has been applied for patenting in 02 cases. The faculty members have also attended the conference/seminars/workshops of national and international levels. The good number of students have been awarded Ph.D. degree. Many students of the school are recipient of research fellowships. Several students and faculty members have received academic/research awards. The school also has entered MoUs with various institutions/Universities.

However, the committee is of the view that the school should make the efforts to address the followings:

1. Should prepare and analyze the student's feedback and action taken report be maintained.
2. The faculty should make more efforts to generate revenue through consultancy services.
3. Proper care should be taken towards reducing the number of drop out students.

#### **10. University Institute of Chemical Technology:**

Prof. J.B. Naik and staff offered warm welcome to the committee. Prof. Sunil Raut has made Power Point Presentation of the Institute before the committee. In his presentation, the information about the physical and laboratory infrastructure, academic programmes, admission and progression of B. Tech. and M. Tech. students, various research programmes along with the advanced research activities, co-curricular activities, extension programmes of the Institute was given.

The committee observed that the Institute is very strong in research activities and running academic and research programmes very efficiently and effectively. The Institute has very advanced instrumental (FESEM and TEM) and infrastructural facilities which are being used for teaching, research as well as consultancy services. The Institute has obtained the research grants to the tune of about 9.00 Crores through the research funding from various funding agencies including TEQIP and DST-FIST. The Institute is involved in the consultancy services and generated an amount little above Rs. 2.70 lakhs. However, the school should make more efforts to strengthen the consultancy services to generate more revenue in future. The research carried out in the school is of importance which is indicated by grants of 04 patent applications. The faculties of the Institute are also active in presenting their research outcomes in different conferences/workshops/seminars at National and International level. Students of the Institute have been granted the fellowships from different



funding agencies. The Institute has strong collaborative national and international linkages. The faculty of the Institute has attended appreciable number of faculty development programmes, orientation and refresher courses.

In spite of the strong performance of the Institute, committee has noted the following weaknesses, which needs to be addressed in immediate future such as -

1. Should take students feedback and remedial measures.
2. Should reduce the drop outs of students.

#### **11. School of Management Studies :**

In the absence of Director, Prof. Anil Dongre has made Power Point Presentation of the school before the committee. He has given information regarding courses taught, number of teaching and non-teaching staff, various activities conducted like – conferences/workshops organized by the school. In addition to this, he has highlighted distinctions earned by faculty, infrastructure, student feedback analysis, learning resources and examination, publication of research papers, Co-curricular and extra-curricular activities and SWOC etc. in the presentation.

The committee observed that the school is conducting Post-graduate programme in Bachelor and Master's in Business Studies. In the school, students are enrolled from the parent University as well as other Universities of the state and outside the state (Jammu and Kashmir) reflecting the student diversity. The students-teacher ratio is maintained as per the AICTE norms (1 : 20). The school received funding from UGC and ICSSR in terms of research projects to the faculty. The students are placed in the industries as well as government sector. The school is also carrying out the students mentoring activities. The school has signed MoU with CETYS University, Mexico and the faculty and students are benefitted from this collaboration.

However, the committee has noted the following weaknesses, which needs to be addressed in immediate future such as -

1. The student's enrollment is less than the intake capacity. Efforts should be made to increase the student's admission.
2. The research activities should be enhanced so that the research publications and grants will be increased.
3. Should take students feedback and take appropriate remedial measures.
4. Should reduce the drop outs of students.

#### **12. School of Education:**

Dr. Manisha Indani offered warm wel-come to the committee and made the power point presentation of the school. The school offers Master's and Ph.D. courses in Education. The faculty of the school has received research projects from the U.G.C. and under VCRMS. The faculty has published few numbers of research papers at national and international level. In addition to this, the faculty has published some text books for the use of students. The school has organized appreciable number of conferences/seminars and workshops. The faculty of the school is working in the various committees of the University. The regular feedback of the students is obtained by the school. The faculty members have received award at the University level Avishkar.

However, the committee has noted the following weaknesses, which needs to be addressed in immediate future such as –

1. The student's enrollment is less than the intake capacity. Efforts should be made to increase the student's admission.
2. The research activities should be enhanced so that the research publications and grants will be increased.
3. Should take students feedback and take appropriate remedial measures.
4. Efforts should be made to start the consultancy services.

### **13. School of Arts and Humanities:**

Dr. Raysing has offered warm welcome to the committee and made the power point presentation of the school. The school offers Master's in Mass Communication and Journals, Performing Arts and Defense and Strategic Studies in addition to Bachelor of Arts in Performing Arts. The faculty has published few numbers of research papers at national and international level. In addition to this, the faculty has published some text books for the use of students. The school has organized appreciable number of conferences/seminars and workshops. The faculty of the school is working in the various committees of the University. The school publishes the UMAVIVARTA on regular basis. The school has also conducted one national seminar for the benefit of University and other students. The renowned personality in the field of performing arts and defense studies has visited and delivered talks in the school.

However, the committee has noted the following weaknesses, which needs to be addressed in immediate future such as -

1. The student's enrollment is less than the intake capacity. Efforts should be made to increase the student's admission.
2. The research activities should be enhanced so that the research publications and grants will be increased.
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4. Efforts should be made to start the consultancy services.

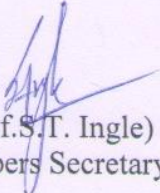
### **14. School of Language Studies and Research Center :**

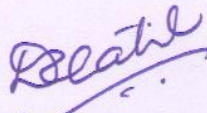
The Director, Prof. M.S. Pagare has offered warm welcome to the committee made Power Point Presentation of the school before the committee. He has given information regarding courses taught, number of teaching and non-teaching staff, various activities conducted like – conferences/workshops organized and the extension services of the school. In addition to this, he has highlighted distinctions earned by faculty, infrastructure, publication of research papers, extension, Co-curricular and extra-curricular activities and SWOC etc. in the presentation.

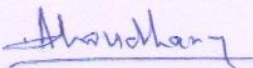
The committee observed that the school is conducting master's Academic Programmes in Marathi, English and Hindi Languages. The school has developed good library infrastructure and appreciable number of books are available donated from students, alumni and faculty. The dialectic laboratory is unique feature of the school. The faculty is adopting the students and provide the financial help by themselves. The faculty has published good number of books and received generous funding from various funding agencies in the form of research projects.

However, the committee has noted the following weaknesses, which needs to be addressed in immediate future such as –

1. The student's enrollment is less than the intake capacity. Efforts should be made to increase the student's admission.
2. The research activities should be enhanced so that the research publications and grants will be increased.
3. The proper feedback mechanism should be developed.
4. Efforts should be made to start the consultancy services.

  
(Prof. S.T. Ingle)  
Members Secretary

  
(Dr. D.R. Patil)  
Member

  
(Prof. A.D. Chaudhari)  
Chairman

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