

Table A: Summary Performance Audit Evaluation Number-1/2/3/4

Name of Performance Auditor : Prof. K. C. Patel

Dates of Performance Audit : 17th to 19th Dec, 2013

**Name of Institution with location : University Institute of Chemical Technology
North Maharashtra University Jalgaon-425001**

S. No.	Area of Performance Audit	Remarks
1.	Project Implementation	Good
2.	Implementation of Institutional Reforms	Good
3.	Administrative and Managerial Efficiency Improvement	Good
4.	Qualitative Improvements related to Education and Research	Good
5.	Institutional Governance	Good
6.	Support to Weak UG Students	Good


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Note:

For Table A, the Summary of Performance Audit Evaluation, is to be filled in by the Performance Auditor from the overall qualitative assessment for the Tables 1 to 6 as given ahead in this format for Performance Audit Report.

1. As the institute is performing well, I recommended that the institute should have all possible help from NPIU & SPFU. Institute deserved for it and needs to excel further.
2. The TEQIP Grant of Rs.300/- Lakhs is allotted to institute in June 2013 eventhough institute has achieved utilization of more than 65% of grant.
3. This Institute is the University Institute of Chemical Technology of North Maharashtra University.
4. Very Good Consultancy and R & D activities are carried out by the institute.

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Performance Auditors Report

Table-1: Project Implementation

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Sl. No.	Aspect	Assessment Grade (1-3)	Supporting Evidence
1	Progress in securing Autonomous Institution status from the affiliating University & the UGC within 2 years of joining the Project OR Effectiveness of utilization of academic autonomy possessed/obtained	1.5	<ul style="list-style-type: none"> • Academic autonomy is given to the institute by University. • Financial autonomy for TEQIP-II is given by BoG.
2	Sufficiency and quality of academic buildings	1	<ul style="list-style-type: none"> • Total construction of institute building is 5328.36 sqm. as per the Assistant director of Town planning (Town planning and Valuation Department) Jalgaon. Letter no 2905 dated 10/9/2013. Rs 268 lakhs sanctioned from University fund and 50 lakhs from TEQIP grant for capacity expansion of building. 2763.50 sqm additional construction will be completed on or before June 2014.
3	Progress/achievement in starting new PG programs as evidenced by: <ul style="list-style-type: none"> • Securing AICTE 	1	<ul style="list-style-type: none"> • Two PG programme are started under TEQIP-II. Approval of AICTE is

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<p>approval</p> <ul style="list-style-type: none"> • Establishment of laboratories • Adequacy of student enrolments • Cumulative number of assistantships granted 		<p>under process.</p> <ul style="list-style-type: none"> • Four Laboratories are established with cost of Rs 57.60 lakhs and procurement of equipment costing of Rs-59.4/- lakhs are in progress. • 100% enrollment in two new PG programme. • Assistantship given to 8 students for 2 PG programme, approved in BoG meeting held on 16/9/2013. 	
<p>Progress/achievement in strengthening existing PG programs as evidenced by:</p> <ul style="list-style-type: none"> • Establishment of proposed laboratories • Adequacy of student enrolments • Cumulative number of assistantships granted 	1	<ul style="list-style-type: none"> • Proposed five Laboratories under TEQIP-II for existing PG programme and Procurement of Equipments will be completed up to 31/03/2014 with the total cost of Rs 158.45/- Lakhs • 100% enrollment • Assistantship given to 42 PG students, approved in BoG meeting held on 15/7/2013 	
<p>Progress/achievement in strengthening existing UG programs in Govt funded and aided institutions only as evidenced by:</p> <ul style="list-style-type: none"> • Establishment of proposed laboratories • Adequacy of student enrolments 	1	<ul style="list-style-type: none"> • Purchase order of Equipments for five Labs costing Rs- 71.60 lakhs is already placed under TEQIP and purchase of Rs 73.28/- lakhs under process. • 100% enrollment 	

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5	<ul style="list-style-type: none"> Improvements in Faculty Development as evidenced by: Percentage/ increase in percentage of faculty benefiting from the Core Module of pedagogical training Percentage of / increase in percentage of faculty benefiting from the Advanced Module of pedagogical training Percentage of faculty with UG qualification registered/deputed for improving their qualification Percentage of faculty deputed for subject domain training, seminars, etc. <i>(faculty benefiting from subject domain training are required to share their gains with peers and also put their report on training on institution's web site)</i> 	<p>1.5</p> <ul style="list-style-type: none"> 100% faculty benefitted for core module. 25% faculty benefitted from advance module 100% PG faculty and hence no need of deputing faculty for improving master degree qualification. 5 faculty undergone subject domain training program conducted under STTP & QIP 	
7	<p>Generation, retention and utilization of the non-tuition fee revenue generated through various activities</p>	<p>1</p>	<ul style="list-style-type: none"> Total revenue generation of Rs 267.15 lakhs in the year 2012-13 and Rs 7,53,810 up to December 2013

8	Engineering faculty positions in terms of:	1	<ul style="list-style-type: none"> • Reduction in vacancies • Increase in faculty appointed on regular basis • Increase in the number of faculty with at least a Masters degree 	<ul style="list-style-type: none"> • 100% sanctioned posts are filled and additional required posts as per AICTE norms are filled up by 50 Teaching Assistantship • 100% sanctioned post is filled on regular basis. • All the faculties are with master degree.
9	Improvements in placement rate of UG pass outs	1		<p>Yes.</p> <ul style="list-style-type: none"> • 68 placement 2011-2012 + 7 higher studies 2011-2012 • 78 placement 2012-2013+ 24 higher studies 2012-2013
10	Enhanced interaction with industry as evidenced by:	1	<ul style="list-style-type: none"> • Increase in industry personnel registered for Masters & Doctoral programs • Increase in industry personnel trained by the institution in knowledge and/or skill areas • Increase in the number of consultancy assignments secured by the institution • Increase in the number of students' and faculty visits to and/or training in industry • Increase in involvement of industry experts in curricula & syllabi improvements, laboratory improvements, 	<ul style="list-style-type: none"> • Yes. 1 person from Wipro Pvt. LTD. Amalner. • Yes. 4 industry persons participated in nano technology workshop from different industries. • Yes. In 2011-2012 5,02,540 and up to December 2013 Rs-7,53,810/- • 5 Industrial visits for 55 students during the academic year. 60 student undergone industrial training in each semester of final year. <p>Yes.</p> <ul style="list-style-type: none"> • 25 expert lectures are arranged from the industries. • 40 experts from industries for student evaluation.

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	<p>evaluation of students and delivering expert lectures</p> <ul style="list-style-type: none"> • Increase in the number of sandwich programs between industries and the institution 		<ul style="list-style-type: none"> • 24 experts for curriculum & lab improvement from industries. • 7 MoU signed with industries. • All students of UG and PG programs undergone sandwich program for six month and 1 year, respectively.
Average		1.1	

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Table 2. Performance Audit - Implementation of Institutional Reforms

Name of Performance Auditor : Prof. K. C. Patel

Dates of Performance Audit : 17th to 19th Dec, 2013

**Name of Institution with location : University Institute of Chemical Technology
North Maharashtra University Jalgaon-425001**

Sl. No.	Aspect	Assessment Grade (1-3)	Supporting Evidence
1.	Effectiveness of faculty evaluation by students as evidenced by: • Percentage/ increase in percentage of faculty evaluated by students in one or more subjects • Are results of evaluation properly used for teacher improvement? If yes, is the procedure adopted for teacher improvement including counseling appropriate and effective? Establishment of four funds and their sizes	1	<ul style="list-style-type: none"> • All faculties are evaluated by prescribed feedback format filled up by students. • Yes. Feedback analysis is carried out for corrective measures of improvements. Guidance & Counseling of the faculty is carried by Director & HOD for improvement in academic work.
2.		2	<ul style="list-style-type: none"> • Four Bank A/c are opened in Central Bank of India Bamboori, NMU Branch. A/c no are as follows Establishment of Corpus fund (CF) - 3268913946 Faculty Development fund (FDF)- 3268914292 Equipment replacement fund (ERF)- 3268914430 Maintenance Fund (MF)- 3268914598
3.	Offer of incentives to faculty for participation in consultancy, R&D and	1	<ul style="list-style-type: none"> • Incentive to the faculty for the participation as per north Maharashtra university circular no-

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continuing education programs offered by the institution		<p>NMU/11/action/1146/2013 dated 17/05/2013 as below-</p> <ul style="list-style-type: none"> Supporting staff/operator- 15% Concerned faculty member- 30% Department development fund -25% University- 30% Duty Leave, T.A /D.A and registration fees are given by institute.
Average	1.3	

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Table-3 Performance Audit - Improvement in Administrative and Managerial Efficiencies

Name of Performance Auditor : Prof. K. C. Patel

Dates of Performance Audit : 17th to 19th Dec, 2013

Name of Institution with location : University Institute of Chemical Technology
North Maharashtra University Jalgaon-425001

S. No.	Aspect	Assessment Grade (1-3)	Supporting Evidence
	Modernization and decentralization of administration and financial management	1.2	<ul style="list-style-type: none">Decentralized approached is adopted.Fund is allocated to all the HOD's by the office order dated- 15 June 2013.Fund allocation is approved on 15 July 2013 by SPFU & NPIU.
	Responsiveness to students academic and non-academic requirements	1.2	<ul style="list-style-type: none">Class co-coordinator is appointed and mentor for batch of 20 students is appointed which look after logistics and academic requirement/ difficulties of the students.
	Responsiveness to faculty requirements	1.2	<ul style="list-style-type: none">Faculty requirement is first discuss by the concerned HOD and then HOD recommends to the Director for justified requirement of the faculty. Director fulfills the requirements.
	Utilization of institutional resources	1	<ul style="list-style-type: none">Utilization of institutional resources at fullest extent.


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<p>5. Maintenance of academic and non-academic infrastructure and facilities</p>	<p>1.4</p>	<ul style="list-style-type: none"> Budget allocation 2013-2014 of the university on page no -58 item no-13 is published. Adequate cares are taken for maintenance and repair of equipments to keep it in working condition. Building and furniture maintenance is looked after by Civil & Construction department of the University.
<p>6. Extent of delegation of administrative and financial decision making powers to senior functionaries</p>	<p>1.4</p>	<ul style="list-style-type: none"> HOD's and Conveners of different committee are fully empowered to take financial and administrative decision, however more will be explore.
<p>Average</p>	<p>1.2</p>	

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Table 4. Performance Audit - Quality of Education and Research

Name of Performance Auditor : Prof. K. C. Patel
Dates of Performance Audit : 17th to 19th Dec, 2013
Name of Institution with location : University Institute of Chemical Technology
North Maharashtra University Jalgaon-425001

S. No.	Aspect	Assessment Grade (1-3)	Supporting Evidence
1.	Improvements in curricula and /or syllabi	1	<ul style="list-style-type: none">• Credit based curriculum is in existence.• Revision of the curricula and syllabi carried out after completion of cycle of 4 years.• Revision of the curricula and syllabi of outcome basis is under process & will be completed up to 31st March 2014 which will be implemented from July 2014.
2.	Relevance of curricula and syllabi	1	<ul style="list-style-type: none">• Revision of the curricula and syllabi is being done from time to time by considering the needs of stockholders and industrial needs as per fruitful interaction with faculty, alumina and industry personnel's.



3.	<p>Improvement in teaching-learning processes as evidenced by:</p> <ul style="list-style-type: none"> • Use of teaching aids • Continuous evaluation through quiz, assignments or mid-semester examinations etc. Sharing of answer scripts with students and explanation of the evaluation carried out • Introduction of flexibility in program offerings • Increased availability of adequate electives 	1	<ul style="list-style-type: none"> • ICT Based teaching learning is adopted. • Continuous assessment of the term work & assignments. 2 internal tests per each semester. • Answer books are shown to the students & discussed with students about suggestions of their improvements. • Technical tests are arranged on regular basis. • Inter disciplinary subjects can be opted instead of project in final year UG courses. • Total 43 electives are offered out of which any 4 electives can be opted by student.
4.	<p>Progress in securing accreditation of eligible UG & PG programs (<i>institutions are to achieve target of 60% of eligible UG & PG programs accredited and/or applied for within 2 years of joining the Project</i>)</p>	2	<ul style="list-style-type: none"> • It was decided in the BoG meeting held on 16-09-2013 for application of NBA accreditation of the 5 UG programs and amount of Rs-2.0 lakhs per program is sanctioned by BoG. • Prof. G.A.Usmani appointed as co-ordinator for NBA accreditation process.
5.	<p>Increased collaboration with industry in R&D as evidenced by:</p> <ul style="list-style-type: none"> • Increase in number of joint and industry sponsored R&D work undertaken • Increase in financial contribution by industry for R&D 	1	<p>Yes</p> <ul style="list-style-type: none"> • Savita Oil Industries, Mumbai • Yes. Financial contribution of Rs-7.54/- lakhs from 12 industries in the year 2012-2013 and Rs- 05.03/- lakhs from 07 industries in 2011-2012.



6	Increase in percentage of revenue from externally funded R&D projects and consultancies in the total revenue of the institution from all sources	1	<p>Yes.</p> <ul style="list-style-type: none"> • 2011-2012- Rs- 82.12 lakhs. • 2012-2013- Rs- 88.42 lakhs. 										
7	Increase in the number of publications in refereed journals	1	<p>Yes.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>No of Publications</th> </tr> </thead> <tbody> <tr> <td>2010</td> <td>31</td> </tr> <tr> <td>2011</td> <td>37</td> </tr> <tr> <td>2012</td> <td>44</td> </tr> <tr> <td>2013</td> <td>74 (in progress)</td> </tr> </tbody> </table>	Year	No of Publications	2010	31	2011	37	2012	44	2013	74 (in progress)
Year	No of Publications												
2010	31												
2011	37												
2012	44												
2013	74 (in progress)												
8	Increase in the number of patents filed	1.2	<p>Yes.</p> <ul style="list-style-type: none"> • 04 patents filed in 2012. • 03 patents filed and 01 patent granted in 2013. 										
	Average	1.1											

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Table 5. Performance Audit - Performance in the Governance of Institutions

Name of Performance Auditor : Prof. K. C. Patel

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**Name of Institution with location : University Institute of Chemical Technology
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The objective of an Institutional Governance Review is to assist institutions, using an evidence-based approach, in their self assessment of current Governance Practice. A thorough review will indicate the level of effectiveness of institutional governance and the Governing Body, and identify action points for improvement. It will also indicate that:

- The conduct of the Governing Body is in accordance with the standards of behavior that the public should rightfully expect.
- The Governing Body and the individual Governors are exercising their responsibilities in the interest of the institution as a whole.
- The Review has been undertaken by a Group who have internal and external credibility to undertake such exercise.

	Assessment Grade (1-3)	Supporting Evidence
<p align="center">INSTITUTIONAL GOVERNANCE REVIEW TEMPLATE</p> <p>A. PRIMARY ACCOUNTABILITIES</p> <ul style="list-style-type: none"> • Has the Governing Body approved the institutional strategic vision, mission and plan – identifying a clear development path for the institution through its long-term business plans and annual budgets? 	<p align="center">1.5</p>	<p>Yes.</p> <ul style="list-style-type: none"> • Vision & mission of the institute are clearly prepared and placed on the website of the university. Preparation and approval of long term strategic plans of TEQIP are approved in BoG.

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	<ul style="list-style-type: none"> • Has the Governing Body ensured the establishment and monitoring of proper, effective and efficient systems of control and accountability to ensure financial sustainability? 		<p>Yes.</p> <ul style="list-style-type: none"> • BoG chairman has appointed Dr D.G.Hundiwale (Director B.C.U.D) as academic nodal officer and Dr.A.M.Mahajan (Registrar) as Monitoring & Evaluation officer.
	<ul style="list-style-type: none"> • Is the Governing Body monitoring institutional performance and quality assurance arrangements? 		<p>Yes.</p> <ul style="list-style-type: none"> • Internal Quality Assurance Cell of University appointed by Vice Chancellor and Chairman of the BoG.
	<ul style="list-style-type: none"> • Has the Governing Body put in place suitable arrangements for monitoring the head of the institution's performance? 		<p>Yes.</p> <ul style="list-style-type: none"> • The performance is monitored regularly by the Committee appointed by Vice Chancellor of the university.
	<p>B. OPENNESS & TRANSPARANCY IN THE OPERATION OF GOVERNING BODIES</p>	<p>1.0</p>	
	<ul style="list-style-type: none"> • Does the Governing Body publish an annual report on institutional performance? 		<p>Yes.</p> <ul style="list-style-type: none"> • Annual report on institutional performance is published by university every year.
	<ul style="list-style-type: none"> • Does the Governing Body maintain, and publicly disclose, a register of interests of members of its governing body? 		<p>Yes.</p> <ul style="list-style-type: none"> • Minutes of the meeting of BoG are circulated to all the members and it is finalized after the incorporating the comments of the members.

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<p>• Is the Governing Body conducted in an open a manner, and does it provide as much information as possible to students, faculty, the general public and potential employers on all aspects of institutional activity related to academic performance, finance and management?</p>		<p>Yes.</p> <ul style="list-style-type: none"> • 5 BoG meetings were held in 2013 and the minutes of the meetings are uploaded on the website. • The minutes of the meeting of BoG are sent to all BoG members, AICTE, SPFU, DTE of the State and all HOD's. • The Mandatory Disclosure of the information is uploaded on website.
<p>C. KEY ATTRIBUTES OF GOVERNING BODIES</p>	<p>1.0</p>	
<p>• Are the size, skills, competences and experiences of the Governing Body, such that it is able to carry out its primary accountabilities effectively and efficiently, and ensure the confidence of its stakeholders and constituents?</p>		<p>Yes.</p> <ul style="list-style-type: none"> • BoG is constituted of Eminent personalities from academic institute and industries and Representative of Directorate of Technical education and UGC and 2 senior faculties of the institute as per the guidelines of AICTE and TEQIP.
<p>• Are the recruitment processes and procedures for governing body members rigorous and transparent? Does the Governing Body have actively involved independent members and is the institution free from direct political interference to ensure academic freedom and focus on long term educational objectives?</p>		<p>Yes.</p> <ul style="list-style-type: none"> • Recruitment process and procedure of Governing body is rigorous and transparent. • No political interference. • Two senior faculties of the

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			institute are incorporated in BoG.
<ul style="list-style-type: none"> • Are the role and responsibilities of the Chair of the institution and the Member Secretary serving the Governing Body clearly stated? 			Yes. <ul style="list-style-type: none"> • Director Dr.S.Mishra is the Member Secretary of the BoG.
<ul style="list-style-type: none"> • Does the Governing Body meet regularly? Is there clear evidence that members of the governing body attend regularly and participate actively? 			Yes. <ul style="list-style-type: none"> • BoG Meetings are held regularly, 5 times till December 2013. • Members attended meeting regularly.
D. EFFECTIVENESS AND PERFORMANCE REVIEW OF GOVERNING BODIES		1.2	
<ul style="list-style-type: none"> • Does the Governing Body keep their effectiveness under regular review and in reviewing its performance, reflect on the performance of the institution as a whole in meeting its long-term strategic objectives and its short-term indicators of performance/success? 			Yes. <ul style="list-style-type: none"> • Vice Chancellor Dr.S.U.Meshram who is the chairman of BoG, takes keen interest in performance and development of the institution as a whole. • Vice Chancellor has instructed to the Registrar (Dr. A.M.Mahajan) for surprise inspection of the institute frequently. • BoG regularly reviews the progress from the presentation of the institute.

<p>• Does the Governing Body ensure that new members are properly inducted, and existing members receive opportunities for further development as deemed necessary?</p>		Yes.
<p>E. REGULATORY COMPLIANCE</p>		
<p>• Does the Governing ensure regulatory compliance* and, subject to this, take all final decisions on matters of fundamental concern of the institution.</p>	1.2	<p>Yes.</p> <ul style="list-style-type: none"> • BoG chairman/Vice Chancellor has sanctioned amount of Rs-2.68 Cr for the extension of the building apart from TEQIP grant of Rs 50.00/- lakhs from the university fund.
<p>• Does the regulatory compliance include demonstrating compliance with the 'not-for-profit' purpose of education institutions?</p>		Yes.
<p>• Has there been accreditation and/or external quality assurance by a national or professional body? If so, give details: name, status of current accreditation etc</p>		<ul style="list-style-type: none"> • No NBA accreditation of the UG programs. • University is accredited by NAAC, Bangalore. • Application for NBA accreditation of the 5 UG courses is in process.
<p>Average</p>	1.1	

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Performance Auditors Report

Table 6. Performance Audit - Support to Weak Students

Name of Performance Auditor : Prof. K. C. Patel

Dates of Performance Audit : 17th to 19th Dec, 2013

Name of Institution with location : University Institute of Chemical Technology
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S. No.	Aspect	Assessment Grade (1-3)	Supporting Evidence
1.	Percentage of students that complete the full first year and transit successfully to Second Year	1	51.56%
2.	Effectiveness of techniques used for identifying weak students	1	<ul style="list-style-type: none">• On the basis of the result of the internal examinations and the interaction with the students.• On the basis of university examination.
3.	Conduct of remedial teaching throughout academic session	1	<ul style="list-style-type: none">• Remedial classes in the subject of mass transfer, chemical engineering thermodynamics, mathematics and project engineering economics are conducted.• The time table for the remedial classes is notified in advance.• Weak students are indentified before university examination.
4.	Conduct of specialized soft skills and professional skills training	1	<ul style="list-style-type: none">• Soft Skill training on Workshop on Communication Skills, Six Month Certificate


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5.	Increase in the number of campus interviews	1	<p>Course on 'Industrial Safety and Management', In House GD Guidance and Practice Workshops, In House Attitude, Aptitude and Technical Tests, Mock HR and Technical Interviews, Soft skill development programme (Employability Enhancer).</p> <p>Yes.</p> <ul style="list-style-type: none"> • 2011-2012 - 44 campus interview • 2012-2013 - 51 campus interview • This shows the increase in campus interview. • Uni-Sim software training for PG student. • Planning to arrange the online certification on piping-engineering course by IIT Bombay in the month of January 2014. • Majority of final year students have been benefited.
6.	Establishment and functioning of a Finishing School	2	
7.	Increase in the number of internal and external students that attend high intensity training conducted by the Finishing School	2	
Average		1.2	

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Comments:-

1. Improvements noticed on shortcomings reported during earlier Performance Audits.
 - a. As this is the first performance audit, report of the earlier performance audit is not available.
2. Brief statements on continuing shortcomings and reasons thereof
 - a. Institute has not applied for autonomy to UGC. As per discussion of registrar of university with Mr. Sachin Gupta, Consultant NPIU, there is no need of autonomy from UGC for the university institute.
 - b. Faculty sanctioned by the government is not as per AICTE norms. Deficit of faculty as per AICTE norms is fulfilled by appointing 50 teaching assistants.
3. Recommendations for Mentors
 - a. Training Need analysis of the faculty is not carried out.
 - b. Numbers of training programs conducted under finishing school are very less.
 - c. Faculties should be deputed for training in specific area as per training need analysis.

