

B.N.M. Institute of Technology

An Autonomous Institute under VTU

Internal Academic Audit-2024 report of AIML program:

Proceedings of the internal Academic Audit held on 30/08/2024 for the AIML program in the S-Building, BNMIT, Bengaluru.

Members Present:

SN	Name	Designation	Department
1	Dr. Venkatesha K	Professor and Head	EEE
2	Dr. B S Anil Kumar	Professor and Head	Mechanical
3	Dr. Swetha M D	Professor	CSE
4	Dr. Smitha Gayathri D	Assoc. Professor	ECE
5	Dr. Amith Shekhar	Assoc. Professor	CSE
6	Dr. Shubha Rao K	Assoc. Professor	EEE

Dr. Venkatesha K, Professor & Head, Department of EEE, BNMIT, allocated the internal academic audit work to all members to review the blue books/green books/softcopy scripts of IA, registers, course files, and marks sent to VTU and the CoE office, BNMIT. The course files to be checked include all courses from the academic years 2021-22, 2022-23, and 2023-24.


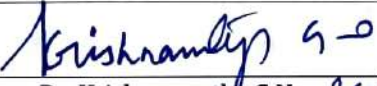
The NBA-related documents, including the Self-Assessment Report (SAR), 28 program-level files (P-files), 7 Criterion files (C-files), 74 typical files, and proof files, were meticulously reviewed by the internal academic audit members from 30/08/2024 and 10/09/2024.

Academic audit observations of the AIML program

- PO-PEO mapping and attainment calculations need to be completed, which involves sharing Google Sheets with alumni for their input.
- An academic achievers list needs to be prepared.
- Attendance registers, IA marks, IA marks sent to VTU, syllabus and lesson plan work diary, review of teaching process by HoD and QP scheme are available for all the courses of AY 2021-22, 2022-23 and 2023-24.
- CO-PO attainment calculations need to be completed by gathering SEA marks from the CoE office for all courses of the academic years 2021-22, 2022-23, and 2023-24.
- The new NBA Tier I formats need to be filled by gathering the faculty list and SFR table content from all IT branches, including CSE and ISE.
- The vision and mission statements need to be finalized, and signboards should be affixed in the department, classrooms and corridors to disseminate them to stakeholders.
- All the Criterion files and P files have been prepared according to the SAR formats.

Suggestions:

- i. Self Assessment Report (SAR) is required to be prepared as per Tier-I format and corresponding C files, P files and additional proof files need to be built.
- ii. CO-PO attainment calculations need to be completed by fetching the SEA data from the CoE, BNMIT.

Prepared by	Approved by
	
Dr. Venkatesha K Member Secretary	Dr. Krishnamurthy G N 29/10/2024 Deputy Director


Additional Director & Principal
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5	Dr. Amith Shekhar	Assoc. Professor	CSE
6	Dr. Shubha Rao K	Assoc. Professor	EEE

The internal academic audit committee members reviewed the following documents for the academic years 2022-23, 2023-24 and 2024-25.

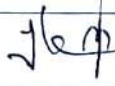
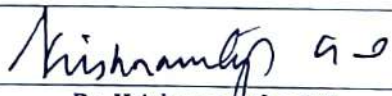
Academic audit Observations of AIML program:

1. The internal assessment blue books/green books/softcopy scripts, registers, course files, and marks submitted to VTU and the CoE office at BNMIT are well-maintained in the department.
2. The softcopy of the NBA Self-Assessment Report (SAR) is used as a reference and based on that all the criterion files are reviewed by the team. All the criterion files and P files have been prepared in accordance with the SAR formats.
3. Feedback is collected from all stakeholders to define the vision, mission, and PEOs of the department. The PEOs are mapped to the mission statements, and the justification is provided in the SAR.
4. The identification of curriculum gaps, their analysis, and mapping to the POs, along with the corresponding gap-filling process through organized events, have been done very efficiently.
5. The slow learners and bright students are effectively assisted to perform better in academics and extracurricular activities.
6. The student feedback mechanism for the teaching-learning process and the corresponding corrective actions are well-maintained.
7. The CO statements, CO-PO mapping, CO attainment, and corresponding PO attainment have been completed for all courses with respect to continuous internal assessment.

8. Rubrics for evaluating lab records, projects, and internships have been well established.
9. Process book of CO-PO attainment is available and the same is used for the CO-PO attainment calculations of the courses.
10. The success rate, including with and without backlog, and the academic performance for the third and second years have been calculated as per SAR formats.
11. Events are organized under professional bodies, and the documentation is well maintained.
12. Department Advisory board [DAB] and Program Assessment and Audit Committee [PAAC] files are available and well maintained.
13. Budget files, corresponding approvals, and utilization data are tabulated.
14. Parameters such as student-faculty ratio, faculty cadre proportion, qualifications, and faculty retention have been calculated, and the corresponding files are well maintained.
15. Records of faculty participation in faculty development programs, training activities, and short-term training programs are well maintained in the department.
16. The list of laboratories, equipment stock book, and timetable for laboratory utilization are maintained as per norms.
17. Program outcome gaps are calculated and actions have been taken to improve the PO gaps by conducting workshop/seminars/conference for the students.

Suggestions:

- PO-PEO mapping and attainment calculations need to be completed, which involves sharing Google Sheets with alumni for their input.
- An academic achievers list needs to be prepared.
- CO-PO attainment calculations need to be completed by gathering SEA marks from the CoE office for all courses of the batches 2020-24 and 2021-25.
- The Self-Assessment Report (SAR) needs to be prepared according to the Tier-I format, and the corresponding C files, P files, and additional proof files need be updated.

Prepared by	Approved by
	
Dr. Venkatesha K Member Secretary	Dr. Krishnamurthy G N Deputy Director

B.N.M. Institute of Technology

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Date: 25/10/2024

Dear Madam,

Please find enclosed report of the Internal Audit of your department held during August/September 2024. You are requested to take necessary steps to overcome the deficiencies reported (if any) and submit the Compliance report on or before 4th November 2024.

Krishnamurthy G. N.

Dr. Krishnamurthy G. N.
Deputy Director
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B.N.M. Institute of Technology

An Autonomous Institution under VTU, Approved by AICTE

Department of Artificial Intelligence and Machine Learning

Internal Audit Report – Action Taken

Internal Academic audit held on 30 September 2024 for the verification of the following documents as follows.

1. Verification of blue books hard/ soft copies, lab records, attendance registers and marks sent to VTU/Autonomous for the Odd & Even semester of the academic years 2021-22, 2022-23 and 2023-24
2. Course files
3. C and P-files of NBA
4. Supporting files


Committee members

SL. No.	Name of the Committee members	Designation and Department
1	Dr. Vankatesha K	Professor & Head, Dept of EEE
2	Dr. B S Anil Kumar	Professor & Head, Dept of Mech
3	Dr. Swetha M D	Professor, Dept of CSE
4	Dr. Smitha Gayathri D	Associate Professor, Dept of ECE
5	Dr. Amith Shekhar	Associate Professor, Dept of CSE
6	Dr. Shubha Rao K	Associate Professor, Dept of EEE

Sl.No	Remarks	Action Taken	Compiled / Not Compiled
1	PO-PEO mapping and attainment calculations need to be completed, which involves sharing Google Sheets with alumni for their input	Google Sheets floated to alumni and their inputs were collected. PO-PEO mapping and attainment calculations are done.	Compiled
2	An academic achievers list need to be prepared	Academic achievers list prepared	Compiled
3	CO-PO attainment calculations need to be completed by gathering SEA marks from the COE office for all the courses of the batches 2020-24 and 2021-25	CO-PO attainment calculations for all the courses of the batches 2020-24 and 2021-25 are completed.	Compiled
4	The SAR need to be prepared according to the Tier-I format, and the corresponding C-files, P-files and additional proof need to be updated.	SAR, C-files and P-files are updated according to new tier-I format.	Compiled


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External Academic Audit- November 2024

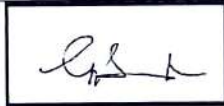
Academic audit is scheduled on 29th November, 2024 and the following events were held:

1. Verification of blue books hard/ soft copies, lab records, attendance registers and marks sent to VTU/Autonomous for the Odd & Even semester of the academic years 2021-22, 2022-23 and 2023-24
2. Course files
3. P-files of NBA
4. Additional proof/supporting files [Sl. No. 1 to 75, already circulated]

Department: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Date: 29th November 2024

Committee member/s

SL. No.	Name of the Committee members	Designation and Department	Signature
1.	Dr. Thippeswamy G	Professor & HoD Computer Science and Engineering BMS Institute of Technology	

File No.	Details	Remarks
P.1	NBA accreditation reports of past visits & list of actions taken based on weaknesses and deficiencies of latest NBA visit (if any)	Not Applicable
P.2	Evidences of program specific budget allocation and utilization in the last 3 years and sample bills	<ul style="list-style-type: none"> • Budget allocation process need to be improved; • Budget proposal must go with bottom-up-approach.
P.3	Records of process used in defining vision, mission, PEO and PSO statements.	<ul style="list-style-type: none"> • Vision & Mission statements of the department need to be revisited. • Faculty understanding of PEOs needs more clarity.
P.4	Publication and dissemination among stakeholders & awareness programs on vision, mission & PEO, PO, PSO statements.	<ul style="list-style-type: none"> • Vision and mission have been disseminated among all the stakeholders; • However, dissemination to employers and alumni needs improvement.
P.5	Justification of PEO matrix against department mission elements.	<ul style="list-style-type: none"> • Matrix of PEOs Vs Mission Elements available; • All the faculty / staff members must be able to justify the mapping of PEO and mission statements.
P.6	Records of program curriculum and process used to identify extent of compliance of curriculum for attaining POs & PSOs.	<ul style="list-style-type: none"> • Course coordinators & module coordinators must be involved in framing the curriculum. • Program Assessment Committee needs restructuring with appropriate composition. • The curriculum should be designed to ensure that all Program Outcomes (POs) are mapped, while also incorporating Sustainable Development Goals (SDGs) into the new curriculum. • Feedback from alumni, students and employers must be considered before framing the curriculum;
P.7	Records of delivery details of the content beyond the syllabus & list of activities/ events organized for past 3 years.	<ul style="list-style-type: none"> • Delivery details of the content beyond the curriculum observed but needs improvement; • Delivery details for some of the unmapped POs / gaps not found.

P.8	Records of instructional methods and pedagogical initiatives used in teaching and learning.	<ul style="list-style-type: none"> The records of instructional methods and pedagogical initiatives demonstrate commitment to innovative teaching practices and a student-centered approach; It has been advised to measure the impact of instructional methods and pedagogical initiatives used in teaching and learning.
P.9	Records of list of methodologies used to support weak students and encourage bright students and impact analysis.	<ul style="list-style-type: none"> The impact analysis of weak and bright students should include statistical data and be represented graphically.
P.10	Records of quality assessment in continuous internal evaluation-internal question paper, assignment, quiz, etc.	<ul style="list-style-type: none"> Quality assessment committee for CIE must have a course coordinator & a module coordinator, Program Coordinator (PAC) to scrutinize the internal question paper, assignment, quiz; Quality of Question papers needs improvement .
P.11	Evidences of quality students' projects & rubrics used to assess the student projects and its outcomes in the last 3 years.	<ul style="list-style-type: none"> Separate Project Review and Assessment Committee(PRAC) is not found. Projects allocation and types of projects must be based on verticals. Feasibility and optimality of Project proposals/synopsis need to be reviewed by PRAC. Projects must be categorized based on Research, Industrial, Applications and other domains.
P.12	Records of initiatives related to industry interaction & partial delivery of lectures by expert from Industry/research Institutes and its impact analysis in the last 3 years.	<ul style="list-style-type: none"> Some initiatives related to Industry interaction/partial delivery of curriculum found; Impact analysis must be done at the departmental level; Effective Utilization of existing CoE is suggested; Advised to analyze the impact of overall Industry Interaction.
P.13	Records of industry internships/summer training and its impact analysis in the last 3 years.	<ul style="list-style-type: none"> Student Internship policy (for the students of lower semesters) is advised; Quality of internships is a major concern; The impact analysis of the internship should be highlighted.
P.14	Records of course outcomes (COs) of all courses.	<ul style="list-style-type: none"> Faculty understanding of Outcomes Based Education is very minimal; Course outcomes of all the courses are listed but need proper justification from the Course Coordinators.

P.15	Records of CO-PO/PSO mapping of all courses as well as courses-PO/PSO mapping.	<ul style="list-style-type: none"> Records of CO-PO/PSO found for all courses Justification of CO-PO/PSO matrix is NOT satisfactory
P.16	Course file with plan of course delivery, question papers, answer scripts, assignments, reports of assignments, project reports, report of design projects, list of laboratory experiments, etc.	<ul style="list-style-type: none"> Contents of Course Files are appropriate; Single Course File must contain all the contents of last three years; Course Files must contain Open Ended Experiments and Quality Alternate Assessment Tools.
P.17	Records of list of assessment tools used for PO and PSO & attainment values. Observation and actions taken based on the results of POs /PSO in the last 3 years.	<ul style="list-style-type: none"> Target fixing is unscientific and illogical; Brainstorming sessions on overall CO-PO attainment among faculty members is suggested; Attainment is shown for all POs for all the three years which was not justified by the faculty members properly.
P.18	Evidences of number of seats filled under various quotas and quality of students (ranks/percentage of marks) admitted to the program in the last 3 years.	Verified
P.19	Evidences of program success rate (success rate without backlogs and success rate within the stipulated period) in the last 3 years.	<ul style="list-style-type: none"> Success rate is increasing year wise; However, average success rate needs improvement; All the faculty members in the department must be aware of success rate (Must be discussed in PAC meeting); Suggested to have action plan for improving the success rate without backlogs.
P.20	Evidences of academic performance of 2nd and 3rd year students in the last 3 years.	<ul style="list-style-type: none"> Academic performance is also increased year wise; All the faculty members in the department must be aware of academic performance; Suggested to have action plan for improving the academic performance.
P.21	Evidences of placement, higher studies and entrepreneurship details in the last 3 years.	<ul style="list-style-type: none"> Placement quantity is satisfactory, but quality of placement (Median Salary) needs heavy improvement; All the graduated students must be traced and their present status to be recorded; Higher Education Facilitation Cell at the Institute level is advised.

P.22	Evidences of list of professional societies and number of events organized by the Department in the last 3 years.	<ul style="list-style-type: none"> • An index showing the number of events conducted should be included; • Number and quality of club activities / professional body chapters must be improved; • Impact analysis not found; • Objectives / Vision for the club activities/ Professional chapters must be defined.
P.23	Records of technical magazines, newsletters, etc. & student participations in the inter-institute events & list of awards received by the students in the last 3 years.	<ul style="list-style-type: none"> • Sufficient student participation in inter-institute events; • Participation of students in events of Outside state and Outside the nation needs attention.
P.24	Details of faculty student ratio.	<ul style="list-style-type: none"> • Faculty student ratio is maintained.
P.25	Records of list of regular/contract/visiting faculty members with their appointment letters, designation, qualification, promotion, salary details, etc.	Verified
P.26	Evidences of short-term courses/workshops arranged, course-modules developed, faculty competencies and innovations done by the faculty in teaching and learning process.	<ul style="list-style-type: none"> • Faculty must be encouraged to participate in 5 day FDP organized by NIT, IIT's and other IoEs.
P.27	Evidences of faculty participation in the FDP/STTP/NPTEL/training activities in the last 3 years.	<ul style="list-style-type: none"> • Faculty participation in FDP/ STTP & NPTEL is satisfactory; • Policies for MOOC Courses must be disseminated for the faculty members
P.28	Evidences of faculty publications / books / chapters / citations/IPRs/awards/Ph.D. awarded and number of Ph.D scholars guided by faculty members in the last 3 years.	<ul style="list-style-type: none"> • Quality and Quantity of the publications must be improved (Q rated) • Effective Research Promotion Policy for Faculty members is suggested
P.29	List of R&D projects and consultancy projects along with approval letters & proof of working models/ products developed by faculty in the last 3 years.	<ul style="list-style-type: none"> • Sponsored Research is deficient; • Consultancy policy need to be disseminated to Faculty members


P.30	Records of student feedback on teaching learning process & faculty performance appraisal system and corrective measures taken in the last 3 years.	<ul style="list-style-type: none"> Processes are in place but NOT effective
P.31	Records of list of program specific laboratories and other computing facilities available within the department.	<ul style="list-style-type: none"> Sufficient program specific laboratories and other computing facilities are available within the department
P.32	Records of project laboratories, research laboratories, industry-supported laboratories and other additional facilities available within the department.	<ul style="list-style-type: none"> Project Lab and Research lab must be provided within the department; Additional facilities to be demonstrated effectively.
P.33	Records of lab maintenance and safety measures available within the department laboratories.	Satisfactory
P.34	Evidences of non-teaching staff members along with their appointment letters, degree, skill upgradation, etc.	<ul style="list-style-type: none"> Skill upgradation of technical staff of Labs is strongly advised to meet the needs of modern day student skills.
P.35	Records of academic audit and corrective measures taken in the last 3 years.	<ul style="list-style-type: none"> An internal and external academic audit should be conducted annually, and the implementation of the recommendations provided by the committee members must be documented and demonstrated.

External Audit by:
Dr. Thippeswamy G
Professor and HoD, CSE, BMSIT&M

PART-II: Academic Audit- November 2024

Criterion Number	SAR supporting files	Remarks
Criterion -1	P1-P6	<ul style="list-style-type: none"> • Vision & mission statements must be reframed. • Course coordinator & module coordinator must be involved in framing the curriculum. • The curriculum should be designed to ensure that all Program Outcomes (POs) are achieved, while also incorporating Sustainable Development Goals (SDGs) into the new curriculum. • Feedback from alumni on the framed curriculum should be collected.
Criterion -2	P7 – P13	<ul style="list-style-type: none"> • The impact analysis of weak and bright students should include statistical data and be represented graphically. • Projects must be categorized based on Research, Industrial, Application, Research and others domains. • Industry Institute details have been provided. Impact analysis must be represented in the form of a graph. • The impact analysis of the internship should be documented clearly, including the number of job offers received post-internship. Additionally, the opportunities for projects gained as a result of the internship should be outlined.
Criterion -3	P14 – P17	<ul style="list-style-type: none"> • Mapping of PO4 and PO12 to the courses must be rechecked. • PCC, PCI & PBL Courses has to set with same target levels. • SDG must be listed, the projects, courses, labs and internships are to be mapped with specific SDG's.
Criterion -4	P18 – P23	<ul style="list-style-type: none"> • Number of club activities must be improved • Policies for the club activities must be defined • All seats have been filled, and the admission rate is excellent. • Academic performance is improved consistently each year.
Criterion - 5 Criterion - 6	P24 – 30	<ul style="list-style-type: none"> • Faculty student ratio is maintained. • Policies for MOOC Courses must be disseminated for the faculties • Quality and Quantity of the publications must be improved

		<ul style="list-style-type: none"> • Consultancy projects should be undertaken • Policies for appraisal system & student feedback must be disseminated
Criterion - 7	P31- P34	<ul style="list-style-type: none"> • Sufficient program specific laboratories and other computing facilities are available within the department. • Project , Research lab must be provided within the department
Criterion - 8	P35	<ul style="list-style-type: none"> • An internal and external academic audit should be conducted annually, and the implementation of the recommendations provided by the committee members must be documented and demonstrated.


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Department of Artificial Intelligence and Machine Learning

Proceedings of external Academic audit held on 29th November, 2024 for AIML Program:

Committee member

SL. No.	Name of the Committee member	Designation and Department
1.	Dr. Thippeswamy G	Professor & HoD Computer Science and Engineering BMS Institute of Technology & Management

The External audit committee member reviewed the following documents for the academic Year: 2022-2023, 2023- 2024 and 2024-2025
Academic Audit Observations of Artificial Intelligence and Machine Learning Program:

Criterion Number	SAR supporting files	Remarks	Action Taken	Compiled / Not Compiled
Criterion -1	P1-P6	<ul style="list-style-type: none">• Vision & mission statements must be reframed.• Course coordinator & module coordinator must be involved in framing the curriculum.• The curriculum should be designed to ensure that all Program Outcomes(POs) are achieved, while also incorporating Sustainable Development Goals (SDGs) into the new curriculum.• Feedback from alumni on the framed curriculum should be collected.	Will be considered from the Next academic year	Not Complied

Criterion -2	P7 – P13	<ul style="list-style-type: none"> The impact analysis of weak and bright students should include statistical data and be represented graphically. Projects must be categorized based on Research, Industrial, Application, Research and others domains. Industry Institute details have been provided. Impact analysis must be represented in the form of a graph. The impact analysis of the internship should be documented clearly, including the number of job offers received post-internship. Additionally, the opportunities for projects gained as a result of the internship should be outlined. 	Has been documented	Complied
Criterion -3	P14 – P17	<ul style="list-style-type: none"> Mapping of PO4 and PO12 to the courses must be rechecked. PCC, PCI & PBL Courses has to set with same target levels. SDG must be listed, the projects, courses, labs and internships are to be mapped with specific SDG's. 	Has been documented	Complied
Criterion -4	P18 – P23	<ul style="list-style-type: none"> Number of club activities must be improved Policies for the club activities must be defined All seats have been filled, and the admission rate is excellent. Academic performance is improved consistently each year. 	Has been documented	Complied
Criterion - 5 Criterion - 6	P24 – 30	<ul style="list-style-type: none"> Faculty student ratio is maintained. Policies for MOOC Courses must be disseminated for the faculties Quality and Quantity of the publications must be improved 	Faculties are advised to publish in Q-rated journals	Complied

Criterion - 7	P31- P34	<ul style="list-style-type: none"> Sufficient program specific laboratories and other computing facilities are available within the department. Project , Research lab must be provided within the department 	-	Complied
Criterion - 8	P35	<ul style="list-style-type: none"> An internal and external academic audit should be conducted annually, and the implementation of the recommendations provided by the committee members must be documented and demonstrated. 	-	Complied



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Internal Academic Audit-2024 report of Mechanical Engineering program:

Proceedings of the internal Academic Audit held on 02/09/2024 for the Mechanical Engineering program in the Auditorium Building, Mechanical Engineering Department, BNMIT, Bengaluru.

Members Present:

SN	Name	Designation	Department
1	Dr. Yasha Jyothi M Shirur	Professor and Head	ECE
2	Dr. N Mukund Sharma	Professor and Head	MBA
3	Dr. D. Manjunath S	Professor	CSE
4	Dr. Rajashree	Assoc. Professor	CSE
5	Smt. Nagarathna C. R.	Assoc. Professor	AIML
6	Dr. Deepti Balaji Raykar	Assoc. Professor	CSE
7	Dr. A Kumar	Assoc. Professor	EEE

Dr. Yasha Jyothi M Shirur, Professor & Head, Department of ECE, BNMIT, allocated the internal academic audit work to all members to review the blue books/green books/softcopy scripts of IA, registers, course files, and marks sent to VTU and the CoE office, BNMIT. The course files to be checked include all courses from the academic years 2021-22, 2022-23, and 2023-24.

The NBA-related documents, including the Self-Assessment Report (SAR), 28 program-level files (P-files), 7 Criterion files (C-files), 74 typical files, and proof files, were meticulously reviewed by the internal academic audit members from 30/08/2024 to 12/09/2024.

Academic audit report of the Mechanical Engineering Program:

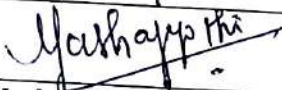
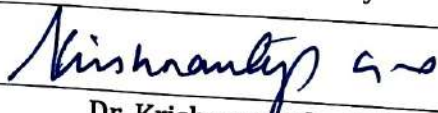
- The committee members verified the communication with stakeholders file for the revision of vision, mission, PSO, and PEOs, assess the process and activities involved in revision. The file was found to be intact with the evidence of communication with relevant stakeholders. documentation of changes made based on stakeholder inputs and adequacy of stakeholder involvement in the revision process.
- The Department Advisory Board (DAB) Department meeting files and PAAC files were verified for DAB meeting minutes, attendance sheets, board member lists, action items and all documents were present as per requirement.
- Alumni files was verified for List of Students (Batch wise), details of alumni contact lists, engagement records, newsletters, feedback forms and alumni achievers' details.
- The files related to calendar of events; curriculum gaps and gap filling through revision of syllabus and other activities, curriculum for all schemes, BOS and rubrics for all evaluations (BOE) were checked for completeness.
- The complete course files were verified for the class time table, individual staff timetable, syllabus, lesson plan, work done, quality of QPs (IA), schemes, attainment calculation and review by scrutiny members along with blue books (both hard and soft copy) and attendance register entry.
- The list of projects, list of working models of best and average projects was verified. The files also had the details of the projects done in association with industry to improve the quality of the project.
- The files related to student results, result analysis, list of repeaters, list of students with backlogs, slow learners, students' achievements, student participation in technical & non-technical events, club activities and student placement was thoroughly checked for all relevant documents.
- The details related to placement, internship & higher studies details and entrepreneurship.
- Mentor dairy documents related to AICTE activity points, minor and honor degree were verified.
- The files related to staff achievements, staff publications patents, funding, consultancy staff appraisal, documents related to MOUs were checked and found to be intact.
- Faculty participation in technical & non-technical events FDP & short-term training courses centers of excellence, R & D Activities checked and verified for the updation.
- The faculty related to innovative teaching practices documents related professional societies, newsletters were checked and verified.
- Non-Teaching staff details, list of laboratories with equipment's/software, new equipment's, stock ledgers, day books, log books were verified.
- All feedback files, updated website contents in all respects, budget files were checked and verified.
- The files related to NBA documents, NBA Tier-2 pre-qualifier, new coffee table books, sign boards faculty name plates and faculty boards, Parents Teachers meeting files Letter correspondence with VTU and others, IA marks submitted to VTU were checked and verified.
- The information related to HOD meeting resolution, Academic Review Meeting [ARM] Files were checked thoroughly and verified for completeness.

Academic audit observations of the Mechanical Engineering program

- Club activity event files have to be updated.
- Include results with and without backlogs in result analysis file.
- PO-PEO mapping and attainment calculations need to be completed, which involves sharing Google Sheets with alumni for their input.
- Website information need to be updated in college website. The information is already given to the college website in-charge.

Suggestions:

- i. CO-PO attainment calculations need to be completed by fetching the SEA data from the CoE, BNMIT.
- ii. All pending work mentioned in the observation need to be completed and get it verified by the committee members.

Prepared by	Approved by
	
Dr. Yasha Jyothi M Shirur Prof. and HoD-ECE	Dr. Krishnamurthy G N Deputy Director


Additional Director & Principal
BNM Institute of Technology
Bangalore-560 070

B.N.M. Institute of Technology

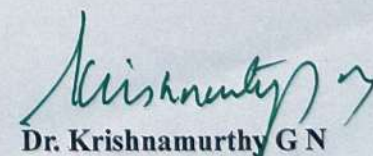
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Department: Mechanical Engineering

SN	Observations of Evaluators	Actions taken	Complied / Non-Complied
1	CO-PO attainment calculations need to be completed by fetching the SEA data from the CoE, BNMIT	Has been done	Complied
2	All pending work mentioned in the observation need to be completed and get it verified by the committee members.	Has been done	Complied



Dr. B S Anil Kumar¹
HoD & Professor
Dept. Of ME
BNMIT, Bangalore



Dr. Krishnamurthy G N
Deputy Director
BNMIT, Bangalore



Additional Director & Principal
BNM Institute of Technology
Bangalore-560 070

B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Mechanical Engineering

Observations of External Auditors on 13/11/2024

External Auditors:

1. Dr. Giridhara G
Professor & HoD, ME
BMS College of Engineering, Bengaluru.
2. Dr. N.S Narahari
Professor
Dept. of Industrial Engineering and Management,
RVCE, Bengaluru.

Criterion 1: Vision, Mission and program Educational Objectives (60)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
1.1	State the vision and mission of the Department and Institute	A. Availability of Statements of the Departments	<ul style="list-style-type: none">• Vision Statement of Institute has Country and Department has State	Has been included in the presentation	Complied
		B. Appropriateness/Relevance of the statements	-	-	-
		C. Consistency of the Department statements with the Institute statements	Mission Statement should be in broad way but vision statement should be in specific	Has been included in the presentation	-

1.2	State the Program Educational Objectives	Program Educational Objectives Appropriateness	-	-	-
1.3	Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders	A. Adequacy in respect of publication & dissemination	-	-	-
		B. Process of dissemination among stakeholders	<ul style="list-style-type: none"> Bigger display boards are to be made everywhere 	Has been displayed	Complied
		C. Extent of awareness of Vision, Mission & PEOs among the stakeholders	-	-	-
1.4	State the process for defining the Vision and Mission of the department and PEOs of the program	A. Description of process for defining the Vision, Mission of the Department	-	-	-
		B. Description of process for defining the PEOs of the program	<ul style="list-style-type: none"> Proofs for the brain storming sessions to be included 	Has been included	Complied
1.5	Establish consistency of PEOs with Mission of the department	A. Preparation of a matrix of mapping PEOs and elements of Mission statements	-	-	-
		B. Consistency/ justification of co-relation parameters of the above matrix	Bench marking with international, national institutions as base for C1.1 and C1.4	Has been included	Complied

Criterion 2: Program Curriculum and Teaching – learning Processes (120)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
2.1	Program Curriculum				
2.1.1	State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes (POs) & Program Specific Outcomes (PSOs), mention the identified curricular gaps, if any	A. Process used to identify extent of compliance of University curriculum for attaining POs & PSOs	<ul style="list-style-type: none"> Maintain the VTU guidelines and clause document regarding the curriculum for Autonomous 	Document has been included	Complied
		B. List the curricular gaps for the attainment of defined Pos & PSOs	<ul style="list-style-type: none"> Curriculum Gap identification Process-Action Plan has to be improved 	Done	Complied
2.1.2	State the delivery of the content beyond the syllabus for POs and PSOs	A. Steps taken to get gaps included in the curriculum (letter to the University)	-	-	-
		B. Delivery details of content beyond syllabus	-	-	-
		C. Mapping of content beyond syllabus with the POs and PSOs	-	-	-
2.2	Teaching-Learning Processes				
2.2.1	Describe the process followed to improve quality of Teaching Learning	A. Adherence to Academic Calendar	-	-	-
		B. Use of various instructional methods and pedagogical initiatives	-	-	-

		C. Methodologies to support weak students and encourage bright students	Identification of slow learners- Process and modification is required	Proof documents are included	Complied
		D. Quality of classroom teaching (observation in a class)	-	-	-
		E. Conduct of experiments (Observation in Lab)	-	-	-
		F. Continuous assessment in the Laboratory	-	-	-
		G. Student feedback on teaching learning process and actions taken	<ul style="list-style-type: none"> Students having attendance more than 70% can give staff feedback 	Discussed with the management	Complied
2.2.2	Quality of internal semester question papers, assignments and evaluation	A. Process for internal semester question paper setting, evaluation and effective process implementation	-	-	-
		B. Process to ensure questions from outcomes/ learning levels perspective	-	-	-
		C. Evidence of COs coverage in class test/ mid-term tests	-	-	-
		D. Quality of Assignment and its relevance to COs	-	-	-
2.2.3	Quality of student projects	A. Identification of projects and allocation methodology to Faculty	-	-	-
		B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs	-	-	-
		C. Process for monitoring and evaluation	-	-	-

		D. Process to assess individual and team performance	-	-	-
		E. Quality of completed projects/ working prototypes	-	-	-
		F. Evidences of papers published / awards received by projects etc	-	-	-
2.2.4	Initiatives related to industry interaction	A. Industry supported laboratories	-	-	-
		B. Industry involvement in the program design and partial delivery of any regular courses for students	-	-	-
		C. Impact analysis of industry institute interaction and actions taken thereof	-	-	-
2.2.5	Initiatives related to industry internship/ summer training	A. Industrial training/ tours for students	-	-	-
		B. Industrial/ internship/ summer training of more than two weeks and post training assessment	-	-	-
		C. Impact analysis of industrial training	-	-	-
		D. Student feedback on initiative	<ul style="list-style-type: none"> Evaluation to be done by the external guide also 	Has been done	Complied

Criterion 3: Course Outcomes and Programs Outcomes (120)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
3.1	Establish the correlation between the courses and the PO s and PSOs				
3.1.1	Course Outcomes	Evidence of CO s being defined for every course	<ul style="list-style-type: none"> • Course Outcome statements should not be module based, but could be cognitive skill based • Course outcomes order should be as per the increasing order of cognitive skills 	Will be considered from the current academic year	Complied
3.1.2	CO-PO/ PSO s matrices of courses selected in 3.1.1	Explanation of table to be ascertained	-	-	-
3.1.3	Program level course – PO/ PSO s matrix of all courses including first year courses	Explanation of tables to be ascertained	-	-	-
3.2	Attainment of Course Outcomes				
3.2.1	Describe the assessment processes used to gather the data upon which the evaluation of course outcome is based	A. List of assessment processes	-	-	-
		B. The quality / relevance of assessment processes & tools used	-	-	-
3.2.2	Record the attainment of course outcomes of all courses with	Verification attainment levels as per the bench mark set for all courses	-	-	-

	respect to set attainment levels				
3.3	Attainment of program outcomes and program specific outcomes				
3.3.1	Describe assessment tools and processes used for assessing the attainment of each of the PO s and PSOs	A. List of assessment tools and processes	-	-	-
		B. The quality / relevance of assessment tools/ processes used	-	-	-
3.3.2	Provide results of evaluation of each PO and PSO	A. Verification of documents, results and level of attainment of each PO/ PSO	<ul style="list-style-type: none"> All the staff should know the CO PO attainment process. Any of the staff may be asked to explain the process by the committee 	Meetings are done	Complied
		B. Overall levels of attainment	-	-	-

Criterion 4: Students' Performance (150)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
4.1	Enrolment Ratio	-	-	-	-
4.2	Success Rate in the stipulated period of the program	-	-	-	-
4.2.1	Success rate without backlogs in any semester/ year of study	-	-	-	-
4.2.2	Success rate in stipulated period (Total of with Backlog + without backlog)	-	-	-	-
4.3	Academic performance in Third year	-	-	-	-
4.4	Academic Performance in Second year	-	-	-	-
4.5	Placement, Higher studies and Entrepreneurship	-	-	-	-
4.6	Professional Activities				
4.6.1	Professional societies/ chapters and organizing engineering events	A. Availability & activities of professional societies/ chapters	<ul style="list-style-type: none"> • Student empowerment/ Volunteers for organizing events to be improved • Conduct /participate in more engineering activities 	New Student chapter initiation has been done	Complied


			<ul style="list-style-type: none"> • IEI full details to be provided and new chapter to be started soon 		
		B. Number, quality of engineering events (organized at institute level/ state/National/ International)	<ul style="list-style-type: none"> • Maintain document of students' involvement in the activities of the Centre of excellence • Industrial visit – Student should do the report and to be submitted 	Has been documented	Complied
4.6.2	Publication of technical magazines, newsletters, etc	A. Quality & relevance of the contents and print material	-	-	-
		B. Participation of students from the program	-	-	-
4.6.3	Participation in inter-institute events by students of the program of study	A. Events within the state	-	-	-
		B. Events Outside the state	Year of students to be shown for events	Has been documented	Complied
		C. Prizes/ awards received in such events	-	-	-

Criterion 5: Faculty Information and Contribution (200)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
5.1	Student- Faculty Ratio (SFR)		-	-	-
5.2	Faculty Cadre Proportion		-	-	-
5.3	Faculty Qualification		List of faculty based on specializations	Has been included	Complied
5.4	Faculty Retention				
5.5	Innovations by the faculty in Teaching and Learning	A. The work must be made available on Institute website	-	-	-
		B. The work must be available for peer review and critique	<ul style="list-style-type: none"> Measure impact of innovative teaching method through learning outcomes 	Has been included	Complied
		C. The work must be reproducible and developed further by other scholars	-	-	-
		D. Statement of clear goals, use of appropriate methods significance of results, effective presentation and reflective critique	-	-	-
5.6	Faculty as participants in faculty development / training activities/ STTPs		-	-	-
5.7	Research and Development		Faculty involvement in research activity to be highlighted better way	Has been implemented	Complied

5.7.1	Academic Research	Number of quality publications in refereed/ SCI -Journals, citations, Books/ book chapters etc	• Tabulate number of citations and impact factor	Has been implemented	Complied
		Ph. D guided /Ph. D awarded during the assessment period while working in the Institute	--	-	-
5.7.2	Sponsored Research		• Include the fund sanctioned for EEE department under IEDC	Has been documented	Complied
5.7.3	Development Activities	A. Product development B. Research laboratories C. Instructional materials D. Working models/ charts/ monograms etc	-	-	-
5.7.4	Consultancy		• Funding and consultancy to be improved	Applied for VGST funding	Complied
5.8	Faculty Performance Appraisal and Development system (FPADS)	A well-defined performance appraisal and development system instituted for all the assessment years	-	-	-
		Its implementation and effectiveness	-	-	-
5.9	Visiting/ Adjunct/ Emeritus Faculty etc	Provision of visiting / Adjunct / Emeritus faculty etc Minimum 50 hours per year interaction to obtain three marks	-	-	-

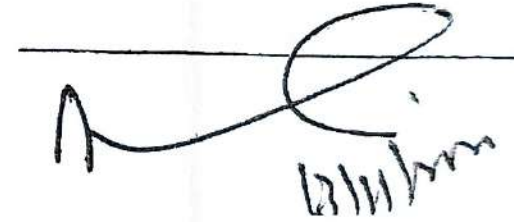
Criterion 6: Facilities and Technical Support (80)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
6.1	Adequate and well-equipped laboratories and technical manpower	Adequate well-equipped laboratories to run all the program-specific curriculum	Comparative table for lab equipment's for 3 years ODD/Even sem Lab list Investment details to be presented first	Has been documented	Complied
		Availability of adequate technical supporting staff	-	-	-
		Availability of qualified technical supporting facilities	-	-	-
6.2	Additional facilities created for improving the quality of learning experience in Laboratories	Availability and relevance of additional facilities	show C O E as research facility	Has been documented	Complied
		Facilities utilization and effectiveness	-	-	-
		Relevance of PO and PSO	-	-	-
6.3	Laboratories: Maintenance and overall ambience	Maintenance and overall ambience	-	-	-
6.4	Project laboratory	Facilities and Utilization	-	-	-
6.5	Safety measures in laboratories	Safety measures in laboratories	-	-	-

Criterion 7: Continuous Improvement (50)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
7.1	Actions taken based on the results of evaluation of each of the Pos and PSO s	A. Documentation of PO s and PSO s attainment levels	• Complete improvement process data from Criterion 1 to Criterion 6	Documents are maintained	Complied
		B. Identification of gaps/ short falls	-	-	-
		C. Plan of action to bridge the gap and its implementation	-	-	-
7.2	Academic Audit and actions taken during the period of assessment	Assessment shall be based on conduct and actions taken in relation to continuous improvement	Dab member list with details	Documents are maintained	Complied
7.3	Improvement in Placement, Higher studies and Entrepreneurship	A. Improvement in Placements numbers, quality, core hiring industry and pay packages	Quality improvement initiatives related to Teaching learning, Placement, Higher study, Research, Professional activity, society/Student chapter etc	Documents are maintained	Complied
		B. Improvement in Higher studies admissions			
		C. Improvement in number of Entrepreneurs			
7.4	Improvement in the quality of students admitted to the program	Assessment is based on improvement in terms of ranks/ score in qualifying state level/ national level entrances tests, percentage Physics, Chemistry and Mathematics marks in 12 th Standard and percentage marks of the lateral entry students	-	-	-



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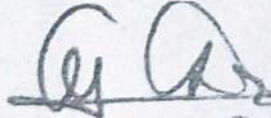
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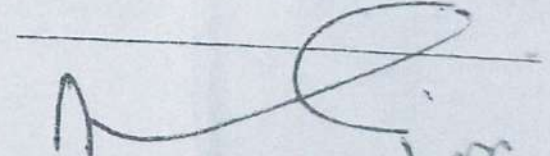
Dr. B S Anil Kumar
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BNMIT, Bangalore

Dr. Krishnamurthy G N
Deputy Director
BNMIT, Bangalore



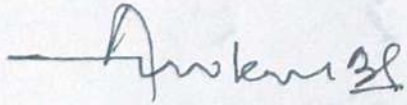
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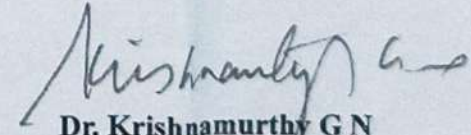


13/11/2024

Dr. N. S. Narahari
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Dr. Krishnamurthy G N
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Additional Director & Principal
BNM Institute of Technology
Bangalore-560 070

B.N.M. Institute of Technology

An Autonomous Institute under VTU

Internal Academic Audit-2024 report of CSE program:

Proceedings of the internal Academic Audit held on 31/08/2024 for the CSE program in the Main Building, BNMIT, Bengaluru.

Members Present:

SN	Name	Designation	Department
1	Dr. S Srividhya	Professor and Head	ISE
2	Dr. Divyashree B A	Professor	AIML
3	Dr. Jyoti R Munavalli	Professor	ECE
4	Dr. Bhuvana Suganthi D	Assoc. Professor	ECE
5	Dr. Jagruthi H	Assoc. Professor	ISE
6	Dr. S Sudalai Shunmugam	Assoc. Professor	EEE
7	Dr. Madhu S	Assoc. Professor	EEE
8	Dr. Bhavya Vikas	Assoc. Professor	MBA


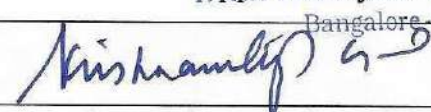
The above committee members conducted the internal audit from 31/08/2024 and 12/09/2024 with the following observations:

- All the members reviewed the blue/green books both hard copy and soft copy, registers, course files, marks sent to VTU and COE office BNMIT for the academic year 2021-22, 2022-23, and 2023-24.
- The SAR of all the 7 criteria files were checked with their respective criteria files. All the files are maintained neatly.
- The 28 program level P files were verified and the P7 file contains invitation, poster, attendance, feedback, CO-PO mapping and attainment for all the events conducted in the department.

- The 74 files recommended by the management was verified by the team. Faculty name boards & Rank list are available.
- In P6 the offer letters of 2021-22, 2022-23 and 2023-24 are verified.
- Budget request and utilization has been verified.
- List of faculty publications available.
- MoUs are verified and are available.
- Faculty interaction with outside world available.
- List of classrooms and faculty rooms verified.
- Program specific labs and computing facility available.
- Non teaching staff appointment order and designation verified.
- Rubrics to validate PO available.
- Improvement in curriculum for mapping POs and PSOs available.
- Communication with stake holders data available.
- DAB, Alumni , PAAC files and its deliberations are available.
- BOS , BOE, ARM files available.
- Alumni file with the details of alumni series conducted was verified.
- List of projects with the working model of best, average projects are verified.
- Curriculum gaps and gap filling through revision of syllabus and other activities was verified.
- In P8 the student achievements are maintained.
- In higher studies file with the score cards and admission related documents are verified.
- Majority of the course files has to be updated with the ISO formats and its completed during the tenure.
- Mentor dairies of all the students are verified.
- Attendance registers, IA marks, IA marks sent to VTU, syllabus and lesson plan work diary, review of teaching process by HoD and QP scheme are checked for all the courses of AY 2021-22, 2022-23 and 2023-24.

SUGGESTIONS

- CO-PO attainment calculations need to be completed by fetching the SEA data from the COE , BNMIT
- Self Assessment Report to be prepared with latest updates of P files and C files

Prepared by	Additional Director & Principal Approved by Director of Technology Bangalore - 560 070
	
Dr. S. Srividhya Member Secretary	Dr. Krishnamurthy G N Deputy Director Bennett University of Technology 27th Cross, 12th Main, BSK II Stage, Bengaluru-560 070

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Department of Computer Science & Engineering

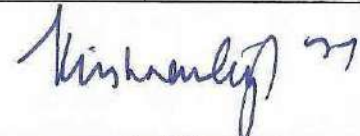
Observations of Internal Auditors on 31/08/2024


Internal Auditors:

1. Dr Srividhya
Professor & HoD, ISE
2. Dr. Divyashree B A
Professor, Dept. of AIML
3. Dr.Jyothi R Munavali
Professor, Dept. of ECE

SN	Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
1	Criteria 3 Course Outcomes and Programs Outcomes	Verification attainment levels as per the bench mark set for all courses	CO-PO attainment need to done	Attainment done with SEE data	Complied


Additional Director & Principal
BNM Institute of Technology
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Deputy Director
BNM Institute of Technology
27th Cross, 12th Main, BSK II Stage, Bengaluru -560 070


HOD
Head of the Department
Dept. of Computer Science & Engineering
BNM Institute of Technology
Bangalore - 560 070

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External Academic Audit-2024 report of CSE program:

Proceedings of the External Academic Audit held on 13/11/2024 for the CSE program in the Main Building, BNMIT, Bengaluru



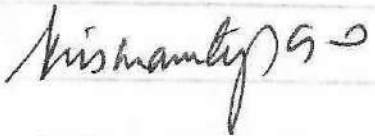
Members Present:

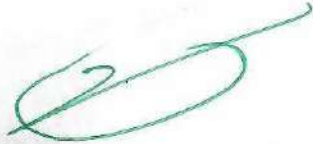
SN	Name	Designation	Department
1	Dr. RamakanthKumar P	Professor and Head	CSE, RVCE, BANGALORE
2	Dr. Thippeswamy G	Professor and Head	CSE, BMSIT, BANGALORE

The above committee members conducted the external audit with the following observations.

- Committee members reviewed and evaluated all the seven criterion with P files, criteria files, supporting documents for Academic Year 2022-23,2023-24,2024-25
- The SAR of all the 7 criteria files were checked with their respective criteria files. All the files are maintained neatly.
- All faculty members need to understand the consistency of PEO's with mission of the dept.
- Impact analysis of delivery of content beyond syllabus for POs & PSOs deliberated and the same documents need to be produced.
- Proofs to be maintained for various instructional methods & pedagogical initiatives.
- Table to be Provided for mapping of CBS with PO's & PSO's.
- Post assessment report to be showed for industry internship/summer training.
- Summary sheet need to be maintained for different industry internship/ summer training
- CO-PO Mapping needs better clarity with justification of bench mark.
- Innovations for the faculty in teaching & learning to be carried out further
- Funding and consultancy need to be improved.
- Summary sheet need to maintained for all subsections of Criteria 5.
- List of additional software need to be produced.
- Target setting requires more understanding and justification, action plan to be deliberated.

- Non-teaching Technical Staff to upgrade their skills.
- Non-teaching staff to be involved in maintenance process under the guidance of faculty members.

Prepared by		Approved by
		
Dr. Thippeswamy G Professor and Head. Dept of CSE BMSIT	Dr. Ramakanth Kumar P Professor and Head. Dept of CSE RVCE	Dr. Krishnamurthy G N Deputy Director BNM Institute of Technology 27th Cross, 12th Main, BSK II Stage, Bengaluru-560 070



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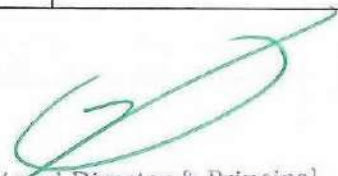
Observations of External Auditors on 13/11/2024


External Auditors:

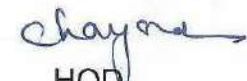
1. Dr.Ramakanthkumar P
Professor & HoD, CSE
RVCE.,Bangalore
2. Dr. Thippeswamy G
Professor & HoD, CSE
BNMSIT Bangalore

SN	Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
1	Criteria 1 Vision, Mission and Program Educational Objectives	Consistency/justification of PEO with mission	Consistency/justification of PEO with mission among all faculty needed	Consistency/justification of PEO with mission was explained and discussed among all faculty was executed	Complied
2	Criteria 2 Program Curriculum and Teaching-Learning Processes	Delivery details of content beyond syllabus	Impact analysis & documents of content beyond syllabus for PO & PSO's need to be produced	Impact analysis done and documents are in place	Complied

		Use of various instructional methods and pedagogical initiatives	Instructional methods and pedagogical initiatives need to submitted	Instructional methods and pedagogical initiatives are maintained and are available	Complied
		Mapping of content beyond syllabus with PO & PSO's	Table to be provided for mapping of content beyond syllabus with PO & PSO's	Table for mapping of content beyond syllabus with PO & PSO's is available	Complied
		Industrial /internship /summer training of more than two weeks and post training assessment	post training assessment report to be shown for Industrial /internship /summer training along with summary sheet	post training assessment report and summary sheet are available	Complied
3	Criteria 3 Course Outcomes and Programs Outcomes	Verification attainment levels as per the bench mark set for all courses	CO-PO mapping with justification of bench mark needed	CO-PO mapping with justification of bench mark is available	Complied
4	Criteria 5 Faculty Information and Contributions	Sponsored Research and consultancy	Funding and Consultancy need to be improved	Planning for apply for more funding and consultancy work	ongoing
5	Criteria 6 Facilities and Technical support	Availability and relevance of additional facilities	List of additional software need to be produced	List of additional software is available	Complied
6	Criteria 7 Continuous Improvement	Identification of gaps/shortfall	Target Setting requires understanding justification and action plan to be deliberated	Target setting process deliberated and action plan available	Complied


Additional Director & Principal
BNM Institute of Technology
Bangalore-560 070


Deputy Director
BNM Institute of Technology
27th Cross, 1st Main, BSK II Stage, Bengaluru-560 070


HOD
Head of the Department
Dept. of Computer Science & Engineering
BNM Institute of Technology
Bangalore - 560 070

B.N.M. Institute of Technology

An Autonomous Institute under VTU

Internal Academic Audit-2024 report of Information Science & Engineering program:

Proceedings of the internal Academic Audit held on 02/09/2024 for the ISE S-Block, BNMIT, Bengaluru.

Members Present:

SN	Name	Designation	Department
1	Dr. Chayadevi M L	Professor and Head	CSE
2	Dr. N Shesha Prasad	Professor and Head	Humanities
3	Dr. Raghavendra C K	Professor	CSE
4	Dr. Anitha N	Professor	CSE
5	Dr. Geetha S	Professor	CSE
6	Dr. Anitha C	Assoc. Professor	AIML
7	Dr. Harish A	Assoc. Professor	ME
8	Dr. Karthik S	Assoc. Professor	CSE
9	Smt.Sujaya B L	Assoc. Professor	ECE

Internal audit work allocated to all members to review the Criteria files / P files /blue books/green books/softcopy scripts of IA, registers, course files, and marks sent to VTU and the CoE office, BNMIT. The course files to be checked include all courses from the academic years 2021-22, 2022-23, and 2023-24.

The NBA-related documents, including the Self-Assessment Report (SAR), 28 program-level files (P-files), 7 Criterion files (C-files), 74 typical files, and proof files, were meticulously reviewed by the internal academic audit members from 02/09/2024 and 13/09/2024

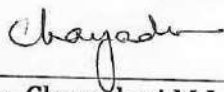

Academic audit observations of the ISE program


- The stakeholder's feedback for the existing vision and Mission statements are available.
- Consistency of PEOs with Mission matrix of the department is available
- Cr2 program curriculum and teaching learning process verified
- NBA accreditation report of the past visits available
- Department budget and allocation available
- Admissions seats filled details with cut of ranks available
- Number of students who cleared program in 4 years verified
- Placement and higher studies data available
- Professional society activities of all events available
- Student publication details available
- Project reports , its rubrics and data sheets available
- SFR details verified with faculty and students
- Faculty appointment orders, promotion letters available
- Faculty list with designation, qualification, date of joining, publications, research details verified
- List of faculty publications available
- MoUs are verified and are available
- Faculty interaction with outside world available
- List of classrooms and faculty rooms verified
- Program specific labs and computing facility available
- Non teaching staff appointment order and designation verified
- List of short term courses, workshop and reports available
- Program specific improvements with COE, innovative teaching methodology, phd pursuing and awarded, new technology usage, results , infrastructure , conduction of workshops and short term courses , student admission details available
- Curriculum PO,PEO,vision mission statements and its deliberations are available
- Mapping of course outcomes with program outcome available
- Course files are verified with lesson plan, work done, question papers, assignments, project reports, lab experiments and reports
- Rubrics to validate PO available
- Improvement in curriculum for mapping POs and PSOs available
- Communication with stake holders data available
- DAB, Alumni , Paac files and its deliberations available
- BOS ,BOE, ARM files available

- Course details with student list, Attendance registers, slow learners, mentor diaries available
- Result analysis details available
- Stock ledgers, Budget files, day books, list of lab equipments available
- IA marks submitted to VTU / COE available

SUGGESTIONS

- CO-PO attainment calculations need to be completed by fetching the SEA data from the COE, BNMIT
- Self Assessment Report to be prepared with latest updates of P files and C files

Prepared by	Approved by
	
Dr. Chayadevi M L Member Secretary	Dr. Krishnamurthy G N Deputy Director

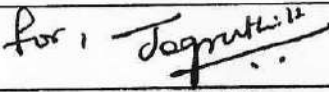
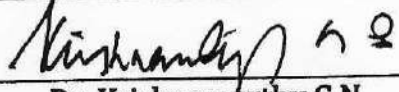

 Additional Director & Principal
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Academic Audit (Internal) September 2024

Department : Information Science & Engineering			
Sl. No.	Remarks	Action Taken	C/NC
1	CO-PO attainment calculations need to be completed by fetching the SEA data from the COE, BNMIT	CO-PO attainment calculations have been completed	C
2	Self Assessment Report to be prepared with latest updates of P files and C files	Self Assessment Report have been Updated for P files and C files	C

Prepared by	Approved by
	
Dr. S Srividhya HOD	Dr. Krishnamurthy G N Deputy Director

Head of the Department
Dept. of Information Science & Engineering
B.N.M. Institute of Technology
Bangalore - 560 070

Deputy Director
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27th Cross, 12th Main, BSK II Stage, Bengaluru-560 070


Additional Director & Principal
BNM Institute of Technology
Bangalore-560 070

B.N.M. Institute of Technology

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Department of Information Science & Engineering

Observations of External Auditors on 14/11/2024

External Auditors:

1. Dr. H S Guruprasad
Professor, Dept of ISE,
BMS College of Engineering, Bengaluru.
2. Dr B M Sagar
Professor & HOD ISE,
R V College of Engineering, Bengaluru.

Criterion 1: Vision, Mission and program Educational Objectives (60)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
1.1	State the vision and mission of the Department and Institute	A. Availability of Statements of the Departments		-	-
		B. Appropriateness/Relevance of the statements	-	-	-
		C. Consistency of the Department statements with the Institute statements	-	-	-
1.2	State the Program Educational Objectives	Program Educational Objectives Appropriateness	-	-	-

1.3	Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders	A. Adequacy in respect of publication & dissemination	-	-	-
		B. Process of dissemination among stakeholders	-	-	-
		C. Extent of awareness of Vision, Mission & PEOs among the stakeholders	-	-	-
1.4	State the process for defining the Vision and Mission of the department and PEOs of the program	A. Description of process for defining the Vision, Mission of the Department	-	-	-
		B. Description of process for defining the PEOs of the program	-	-	-
1.5	Establish consistency of PEOs with Mission of the department	A. Preparation of a matrix of mapping PEOs and elements of Mission statements	-	-	-
		B. Consistency/ justification of correlation parameters of the above matrix	-	-	-

Criterion 2: Program Curriculum and Teaching – learning Processes (120)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
2.1	Program Curriculum		-	-	-
2.1.1	State the process used to identify extent of compliance of the	A. Process used to identify extent of compliance of University curriculum for attaining POs & PSOs	-	-	-

2.2.2	Quality of internal semester question papers, assignments and evaluation	A. Process for internal semester question paper setting, evaluation and effective process implementation	-	-	-
		B. Process to ensure questions from outcomes/ learning levels perspective	-	-	-
		C. Evidence of COs coverage in class test/ mid-term tests	-	-	-
		D. Quality of Assignment and its relevance to COs	-	-	-
2.2.3	Quality of student projects	A. Identification of projects and allocation methodology to Faculty	-	-	-
		B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs	-	-	-
		C. Process for monitoring and evaluation	-	-	-
		D. Process to assess individual and team performance	-	-	-
		E. Quality of completed projects/ working prototypes	-	-	-
		F. Evidences of papers published / awards received by projects etc	-	-	-
2.2.4	Initiatives related to industry interaction	A. Industry supported laboratories	-	-	-
		B. Industry involvement in the program design and partial delivery of any regular courses for students	-	-	-

		C. Impact analysis of industry institute interaction and actions taken thereof	-	-	-
2.2.5	Initiatives related to industry internship/ summer training	A. Industrial training/ tours for students	-	-	-
		B. Industrial/ internship/ summer training of more than two weeks and post training assessment	-	-	-
		C. Impact analysis of industrial training	-	-	-
		D. Student feedback on initiative	-	-	-

Criterion 3: Course Outcomes and Programs Outcomes (120)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
3.1	Establish the correlation between the courses and the PO s and PSOs				-
3.1.1	Course Outcomes	Evidence of CO s being defined for every course	The CO's are written unit wise which has to be relooked	This has been taken care in Autonomous syllabus	Complied
3.1.2	CO-PO/ PSO s matrices of courses selected in 3.1.1	Explanation of table to be ascertained	-	-	-
3.1.3	Program level course – PO/ PSO s matrix of all courses including first year courses	Explanation of tables to be ascertained	-	-	-
3.2	Attainment of Course Outcomes				-
3.2.1		A. List of assessment processes	-	-	-

	Describe the assessment processes used to gather the data upon which the evaluation of course outcome is based	B. The quality / relevance of assessment processes & tools used	-	-	-
3.2.2	Record the attainment of course outcomes of all courses with respect to set attainment levels	Verification attainment levels as per the bench mark set for all courses	-	-	-
3.3	Attainment of program outcomes and program specific outcomes				
3.3.1	Describe assessment tools and processes used for assessing the attainment of each of the PO s and PSOs	A. List of assessment tools and processes	-	-	-
		B. The quality / relevance of assessment tools/ processes used	-	-	-
3.3.2	Provide results of evaluation of each PO and PSO	A. Verification of documents, results and level of attainment of each PO/ PSO	-	-	-
		B. Overall levels of attainment	-	-	-

Criterion 4: Students' Performance (150)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
4.1	Enrolment Ratio	-	-	-	-
4.2	Success Rate in the stipulated period of the program	-	-	-	-

4.2.1	Success rate without backlogs in any semester/ year of study	-	-	-	-
4.2.2	Success rate in stipulated period (Total of with Backlog + without backlog)	-	-	-	-
4.3	Academic performance in Third year	-	-	-	-
4.4	Academic Performance in Second year	-	-	-	-
4.5	Placement, Higher studies and Entrepreneurship		Placement have gone down from 94% in 2021-22 to 68% in 2023-24. No improvement observed in the quality of placement (Average salary)	Placement support is extended up to 1 Year to improve the quality of placement	Complied
4.6	Professional Activities				-
4.6.1	Professional societies/ chapters and organizing engineering events	A. Availability & activities of professional societies/ chapters	-	-	-
		B. Number, quality of engineering events (organized at institute level/ state/National/ International)	-	-	-
4.6.2	Publication of technical magazines, newsletters, etc	A. Quality & relevance of the contents and print material	-	-	-

		B. Participation of students from the program	-	-	-
4.6.3	Participation in inter-institute events by students of the program of study	A. Events within the state	-	-	-
		B. Events Outside the state	-	-	-
		C. Prizes/ awards received in such events	-	-	-

Criterion 5: Faculty Information and Contribution (200)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
5.1	Student- Faculty Ratio (SFR)		-	-	-
5.2	Faculty Cadre Proportion		-	-	-
5.3	Faculty Qualification		-	-	-
5.4	Faculty Retention				-
5.5	Innovations by the faculty in Teaching and Learning	A. The work must be made available on Institute website	-	-	-
		B. The work must be available for peer review and critique	-	-	-
		C. The work must be reproducible and developed further by other scholars	-	-	-
		D. Statement of clear goals, use of appropriate methods significance of results, effective presentation and reflective critique	-	-	-

5.6	Faculty as participants in faculty development / training activities/ STTPs		-	-	-
5.7	Research and Development		-	-	-
5.7.1	Academic Research	Number of quality publications in refereed/ SCI -Journals, citations, Books/ book chapters etc	Even though the number of publications is ok, the quality of publication need improvement.	The quality of Publication is improved publishing the articles in Scopus indexed journals	-
		Ph. D guided /Ph. D awarded during the assessment period while working in the Institute	-	-	-
5.7.2	Sponsored Research		-	-	-
5.7.3	Development Activities	A. Product development B. Research laboratories C. Instructional materials D. Working models/ charts/ monograms etc	-	-	-
5.7.4	Consultancy		No consultancy. Even though there are good number of ATAL FDP funding and VGST project of Rs 20 Lakhs, there is scope for improvement	Samsung prism 3 worklets have received 86,400 each as a part of consultancy	Complied
5.8	Faculty Performance Appraisal and Development system (FPADS)	A well-defined performance appraisal and development system instituted for all the assessment years	-	-	-
		Its implementation and effectiveness	-	-	-

5.9	Visiting/ Adjunct/ Emeritus Faculty etc	Provision of visiting / Adjunct / Emeritus faculty etc Minimum 50 hours per year interaction to obtain three marks	-	-	Complied
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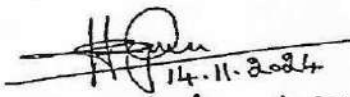
Criterion 6: Facilities and Technical Support (80)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
6.1	Adequate and well- equipped laboratories and technical manpower	Adequate well-equipped laboratories to run all the program-specific curriculum	-	-	-
		Availability of adequate technical supporting staff	-	-	-
		Availability of qualified technical supporting facilities	-	-	-
6.2	Additional facilities created for improving the quality of learning experience in Laboratories	Availability and relevance of additional facilities	-	-	-
		Facilities utilization and effectiveness	Tutorial rooms are required for Department. An exclusive project lab to foster the creativity of students is required for the Department No new program specific facility created in the department in the last 3 years	Tutorial rooms are identified and class will be conducted There ➤ Exclusive Project lab is established ➤ New Equipment s will be procured with modern tool facilities	Complied
		Relevance of PO and PSO	-	-	-


D. B. D. DIRECTOR

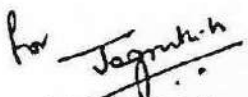
6.3	Laboratories: Maintenance and overall ambience	Maintenance and overall ambience	-	-	-
6.4	Project laboratory	Facilities and Utilization	Another lab with high end configuration computers is required to train the students with the skillset required by the Industry.	It will be established	Complied
6.5	Safety measures in laboratories	Safety measures in laboratories	-	-	-

Criterion 7: Continuous Improvement (50)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
7.1	Actions taken based on the results of evaluation of each of the Pos and PSO s	A. Documentation of PO s and PSO s attainment levels			-
		B. Identification of gaps/ short falls			-
		C. Plan of action to bridge the gap and its implementation			-
7.2	Academic Audit and actions taken during the period of assessment	Assessment shall be based on conduct and actions taken in relation to continuous improvement	-	-	-
7.3	Improvement in Placement, Higher studies and Entrepreneurship	A. Improvement in Placements numbers. quality, core hiring industry and pay packages	-	-	-

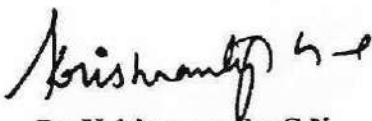
		B. Improvement in Higher studies admissions	-	-	-
		C. Improvement in number of Entrepreneurs	-	-	-
7.4	Improvement in the quality of students admitted to the program	Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage Physics, Chemistry and Mathematics marks in 12 th Standard and percentage marks of the lateral entry students	Even though 100 % seats are filled, the opening and closing ranks in CET and COMEDK are sliding down (this has to be focussed on)	Due to the upper cap relaxation of admissions, Students are admitted more into Tier 1 colleges due to which admissions ranks are getting extended.	Complied


 14.11.2024
[Dr. H.S. Guruprasad]
 BMSCE, Bangalore
Dr. H S Guruprasad
 Professor, Dept. of CSE
 BMS College of Engineering, Bengaluru.


 14/11/2024
Dr. B M Sagar
 HOD & HOD, Dept of ISE,
 R V College of Eng
Dr B M Sagar
 Professor & HOD ISE,
 R V College of Engineering, Bengaluru.


Dr. S. Srividhya
 HoD & Professor
 Dept. Of ISE
 BNMIT, Bangalore
 Head of the Department
 Dept. of Information Science & Engineering
 B.N.M Institute of Technology
 Bengaluru - 560 070




Dr. Krishnamurthy G N
 Deputy Director
 BNMIT, Bangalore
Deputy Director
 B.N.M Institute of Technology
 27th Cross, 12th Main, BSK II Stage, Bengaluru - 560 070


Additional Director & Principal
BNM Institute of Technology
 Bangalore-560 070

B.N.M. Institute of Technology
An Autonomous Institution under VTU

Date: 25/10/2024

Dear Madam,

Please find enclosed report of the Internal Audit of your department held during August/September 2024. You are requested to take necessary steps to overcome the deficiencies reported (if any) and submit the Compliance report on or before 4th November 2024.


Dr. Krishnamurthy J. N.
Deputy Director
BNM Institute of Technology
27th Cross, 12th Main, BSK II Stage, Bengaluru - 560 070


Additional Director & Principal
BNM Institute of Technology
Bangalore - 560 070


Director
BNM Institute of Technology
27th Cross, 12th Main, Banashankari II Stage
Bengaluru - 560 070

B.N.M. Institute of Technology

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Internal Academic Audit-2024 report of ECE program:

Proceedings of the internal Academic Audit held on 31/08/2024 for the ECE program in the Main Building, BNMIT, Bengaluru.

Members Present:

SN	Name	Designation	Department
1	Dr. Venkatesha K	Professor and Head	EEE
2	Dr. Sheba Selvam	Professor and Head	AIML
3	Dr. V Muralidhara	Professor	EEE
4	Dr. Sunitha R	Assoc. Professor	AIML
5	Dr. Santosh Reddy P	Assoc. Professor	SSE
6	Dr. Anitha C	Assoc. Professor	AIML
7	Dr. Laxmi V	Assoc. Professor	ISE
8	Dr. Charithra C M	Assoc. Professor	MBA

The internal academic audit committee members reviewed the following documents for the academic years 2022-22, 2023-24 and 2024-25.

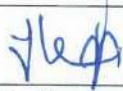
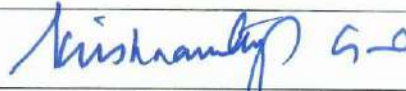
Academic audit observations of the ECE program

- Attendance registers, IA marks, IA marks sent to VTU, syllabus and lesson plan work diary, review of teaching process by HoD and QP scheme are available for all the courses of AY 2021-22, 2022-23 and 2023-24.

- The softcopy of the NBA Self-Assessment Report (SAR) is used as a reference and based on that all the criterion files are reviewed by the team. All the criterion files and P files have been prepared in accordance with the SAR formats.
- Feedback is collected from all stakeholders to define the vision, mission, and PEOs of the department. The PEOs are mapped to the mission statements, and the justification is provided in the SAR.
- The identification of curriculum gaps, their analysis, and mapping to the POs, along with the corresponding gap-filling process through organized events, have been done very efficiently.
- The slow learners and bright students are effectively assisted to perform better in academics and extracurricular activities.
- The student feedback mechanism for the teaching-learning process and the corresponding corrective actions are well-maintained.
- Process book of CO-PO attainment is available and the same is used for the CO-PO attainment calculations of the courses.
- The CO statements, CO-PO mapping, CO attainment, and corresponding PO attainment have been completed for all courses with respect to continuous internal assessment.
- Rubrics for evaluating lab records, projects, and internships have been well established.
- The success rate, including with and without backlog, and the academic performance for the third and second years have been calculated as per SAR formats.
- Events are organized under professional bodies, and the documentation is well maintained.
- Department Advisory board [DAB], Program Assessment and Audit Committee [PAAC] filed and academic review meeting files are available and well maintained.
- Budget files, corresponding approvals, and utilization data are tabulated.
- Parameters such as student-faculty ratio, faculty cadre proportion, qualifications, and faculty retention have been calculated, and the corresponding files are well maintained.
- Records of faculty participation in faculty development programs, training activities, and short-term training programs are well maintained in the department.
- The list of laboratories, equipment stock book, and timetable for laboratory utilization are well maintained as per norms.
- Program outcome gaps are calculated and actions have been taken to improve the PO gaps by conducting workshop/seminars/conference for the students.
- Placement offer letters of the students are collected and tabulated for the batches 2019-23 and 2020-24.

Suggestions:

- i. PO-PEO mapping and attainment calculations need to be completed, which involves sharing Google Sheets with alumni for their input.
- ii. Website information need to be updated in college website. The information is already given to the college website in-charge.
- iii. CO-PO attainment calculations need to be completed by fetching the SEA data from the CoE, BNMIT for AY 2021-22, 2022-23, and 2023-24.

Prepared by	Approved by
	
Dr. Venkatesha K Member Secretary	Dr. Krishnamurthy G N Deputy Director


Additional Director & Principal
BNM Institute of Technology
Bangalore-560 070

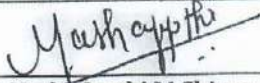
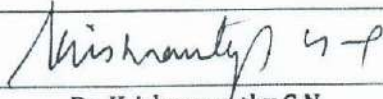
B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electronics and Communication Engineering

Internal Audit Committee Suggestions and Action Taken and Remarks

SL. No.	Suggestions	Action Taken	Remarks
1.	PO-PEO mapping and attainment calculations need to be completed, which involves sharing Google Sheets with alumni	Has been done	Complied
2.	Website Information need to be updated in college website. The information is already given to the college website in-charge.	Has been updated	Complied
3.	CO-PO attainment calculations need to be completed by fetching the SEA data from the CoE. BNMIT for AY 2021-22, 2022-23 and 2023-24	Data collected and SAR has been updated accordingly	Complied

Prepared by	Approved by
	
Dr. Yashajyothi M Shirur Prof. and HoD-ECE Head of the Department	Dr. Krishnamurthy G N Deputy Director

Electronics & Communication Engineering

B.N.M. Institute of Technology
Bangalore - 560 070

Deputy Director

B.N.M. Institute of Technology
27th Cross, 12th Main, BSK II Stage, Bengaluru-560 070


Additional Director & Principal
BNM Institute of Technology
Bangalore-560 070

B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Electronics and Communication Engineering

Observations of External Auditors on 6/11/2024

External Auditors:

1. Dr. Prashanth C. R.
Professor,
Controller of Examinations,
SJBIT, Bengaluru
2. Dr. Manjula V. K.
Associate Professor,
Dept. of ECE,
RNSIT, Bengaluru

Criterion 1: Vision, Mission and program Educational Objectives (60)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
1.1	State the vision and mission of the Department and Institute	A. Availability of Statements of the Departments	Process in place	-	Complied
		B. Appropriateness/Relevance of the statements			
		C. Consistency of the Department statements with the Institute statements			

1.2	State the Program Educational Objectives	Program Educational Objectives Appropriateness	Process in place	-	Complied
1.3	Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders	A. Adequacy in respect of publication & dissemination	Process in place	-	Complied
		B. Process of dissemination among stakeholders			
		C. Extent of awareness of Vision, Mission & PEOs among the stakeholders			
1.4	State the process for defining the Vision and Mission of the department and PEOs of the program	A. Description of process for defining the Vision, Mission of the Department	Process in place	-	Complied
		B. Description of process for defining the PEOs of the program			
1.5	Establish consistency of PEOs with Mission of the department	A. Preparation of a matrix of mapping PEOs and elements of Mission statements	Process in place	-	Complied
		B. Consistency/ justification of co-relation parameters of the above matrix			

Criterion 2: Program Curriculum and Teaching – learning Processes (120)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
2.1	Program Curriculum				
2.1.1	State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes (POs) & Program Specific Outcomes (PSOs), mention the identified curricular gaps, if any	<p>A. Process used to identify extent of compliance of university curriculum for attaining POs & PSOs</p> <p>B. List the curricular gaps for the attainment of defined Pos & PSOs</p>	Process is in place	-	Complied
2.1.2	State the delivery of the content beyond the syllabus for POs and PSOs	<p>A. Steps taken to get gaps included in the curriculum (letter to the University)</p> <p>B. Delivery details of content beyond syllabus</p> <p>C. Mapping of content beyond syllabus with the POs and PSOs</p>	Process is in place	-	Complied
2.2	Teaching-Learning Processes				
2.2.1	Describe the process followed to improve quality of Teaching Learning	A. Adherence to Academic Calendar	Include academic calendar in course file	Has been done	Complied
B. Use of various instructional methods and pedagogical initiatives		Include innovative teaching methodology reports in course file	Has been done	Complied	
C. Methodologies to support weak students and encourage bright students		-	-	-	

		D. Quality of classroom teaching (observation in a class)	-	-	-
		E. Conduct of experiments (Observation in Lab)	-	-	-
		F. Continuous assessment in the Laboratory	-	-	-
		G. Student feedback on teaching learning process and actions taken	-	-	-
2.2.2	Quality of internal semester question papers, assignments and evaluation	A. Process for internal semester question paper setting, evaluation and effective process implementation	-	-	-
		B. Process to ensure questions from outcomes/ learning levels perspective	-	-	-
		C. Evidence of COs coverage in class test/ mid-term tests	-	-	-
		D. Quality of Assignment and its relevance to COs	Assignments and AAT can be utilized to address the POs and improvement of its attainment	Has been included	Complied
2.2.3	Quality of student projects	A. Identification of projects and allocation methodology to Faculty	-	-	-
		B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs	-	-	-
		C. Process for monitoring and evaluation	-	-	-
		D. Process to assess individual and team performance	-	-	-

		E. Quality of completed projects/ working prototypes	-	-	-
		F. Evidences of papers published / awards received by projects etc	List of published papers to be displayed in project labs	Incorporated	Complied
2.2.4	Initiatives related to industry interaction	A. Industry supported laboratories			
		B. Industry involvement in the program design and partial delivery of any regular courses for students	-	-	-
		C. Impact analysis of industry institute interaction and actions taken thereof	-	-	-
2.2.5	Initiatives related to industry internship/ summer training	A. Industrial training/ tours for students	-	-	-
		B. Industrial/ internship/ summer training of more than two weeks and post training assessment	-	-	-
		C. Impact analysis of industrial training	-	-	-
		D. Student feedback on initiative	-	-	-

Criterion 3: Course Outcomes and Programs Outcomes (120)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
3.1	Establish the correlation between the courses and the PO s and PSOs				
3.1.1	Course Outcomes	Evidence of CO s being defined for every course	Course Outcome statements should not be module based, but could be cognitive skill based.	Will be considered from the current academic year	Complied

3.1.2	CO-PO/ PSO s matrices of courses selected in 3.1.1	Explanation of table to be ascertained	CO PO mapping master sheet to be maintained.	Has been done	Complied
3.1.3	Program level course – PO/ PSO s matrix of all courses including first year courses	Explanation of tables to be ascertained	-	-	-
3.2	Attainment of Course Outcomes				
3.2.1	Describe the assessment processes used to gather the data upon which the evaluation of course outcome is based	A. List of assessment processes	-	-	-
		B. The quality / relevance of assessment processes & tools used	-	-	-
3.2.2	Record the attainment of course outcomes of all courses with respect to set attainment levels	Verification attainment levels as per the bench mark set for all courses	-	-	-
3.3	Attainment of program outcomes and program specific outcomes				
3.3.1	Describe assessment tools and processes used for assessing the attainment of each of the PO s and PSOs	A. List of assessment tools and processes	-	-	-
		B. The quality / relevance of assessment tools/ processes used	-	-	-
3.3.2	Provide results of evaluation of each PO and PSO	A. Verification of documents, results and level of attainment of each PO/ PSO	<ul style="list-style-type: none"> All the staff should know the CO PO attainment process. Any of the staff may be asked to explain the process by the committee 	Meetings are done	Complied
		B. Overall levels of attainment	-	-	-

Criterion 4: Students' Performance (150)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
4.1	Enrolment Ratio	-	-	-	-
4.2	Success Rate in the stipulated period of the program	-	-	-	-
4.2.1	Success rate without backlogs in any semester/ year of study	-	-	-	-
4.2.2	Success rate in stipulated period (Total of with Backlog + without backlog)	-	-	-	-
4.3	Academic performance in Third year	-	-	-	-
4.4	Academic Performance in Second year	-	-	-	-
4.5	Placement, Higher studies and Entrepreneurship		<ul style="list-style-type: none"> • Collect more offer letters • Comparative study to be carried out • Maintain document of minimum and maximum salary package • Measure the outcome of the Internships in the form of placements. If any, highlight it 	Has been documented	Complied
4.6	Professional Activities				

4.6.1	Professional societies/ chapters and organizing engineering events	A. Availability & activities of professional societies/ chapters	-	-	-
		B. Number, quality of engineering events (organized at institute level/ state/National/ International)	Maintain document of students' involvement in the activities of the Centre of excellence	Has been documented	Complied
4.6.2	Publication of technical magazines, newsletters, etc	A. Quality & relevance of the contents and print material	-	-	-
		B. Participation of students from the program	-	-	-
4.6.3	Participation in inter- institute events by students of the program of study	A. Events within the state	-	-	-
		B. Events Outside the state	-	-	-
		C. Prizes/ awards received in such events	-	-	-

Criterion 5: Faculty Information and Contribution (200)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
5.1	Student- Faculty Ratio (SFR)		-	-	-
5.2	Faculty Cadre Proportion		-	-	-
5.3	Faculty Qualification		-	-	-

5.4	Faculty Retention				
5.5	Innovations by the faculty in Teaching and Learning	A. The work must be made available on Institute website	-	-	-
		B. The work must be available for peer review and critique	-	-	-
		C. The work must be reproducible and developed further by other scholars	-	-	-
		D. Statement of clear goals, use of appropriate methods significance of results, effective presentation and reflective critique	-	-	-
5.6	Faculty as participants in faculty development / training activities/ STTPs		-	-	-
5.7	Research and Development				
5.7.1	Academic Research	Number of quality publications in refereed/ SCI -Journals, citations, Books/ book chapters etc	-	-	Complied
		Ph. D guided /Ph. D awarded during the assessment period while working in the Institute	Separate file may be maintained for each registered guide	Has been done	Complied
5.7.2	Sponsored Research		Include the fund sanctioned for ECE department under IEDC	Has been documented	Complied
5.7.3	Development Activities	A. Product development B. Research laboratories C. Instructional materials D. Working models/ charts/ monograms etc	-	-	-

5.7.4	Consultancy		Funding and consultancy to be improved		Complied
5.8	Faculty Performance Appraisal and Development system (FPADS)	A well-defined performance appraisal and development system instituted for all the assessment years	-	-	-
		Its implementation and effectiveness	-	-	-
5.9	Visiting/ Adjunct/ Emeritus Faculty etc	Provision of visiting / Adjunct / Emeritus faculty etc Minimum 50 hours per year interaction to obtain three marks	-	-	-

Criterion 6: Facilities and Technical Support (80)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
6.1	Adequate and well-equipped laboratories and technical manpower	Adequate well-equipped laboratories to run all the program-specific curriculum	-	-	-
		Availability of adequate technical supporting staff	-	-	-
		Availability of qualified technical supporting facilities	List of major software with technical specification to be maintained.	Has been done	Complied
6.2	Additional facilities created for improving the quality of learning experience in Laboratories	Availability and relevance of additional facilities	-	-	-
		Facilities utilization and effectiveness	-	-	-
		Relevance of PO and PSO	-	-	-

6.3	Laboratories: Maintenance and overall ambience	Maintenance and overall ambience	-	-	-
6.4	Project laboratory	Facilities and Utilization	-	-	-
6.5	Safety measures in laboratories	Safety measures in laboratories	-	-	-

Criterion 7: Continuous Improvement (50)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
7.1	Actions taken based on the results of evaluation of each of the Pos and PSO s	A. Documentation of PO s and PSO s attainment levels	Comparison of last 3 batches to be done	Documents are maintained	Complied
		B. Identification of gaps/ short falls	-	-	-
		C. Plan of action to bridge the gap and its implementation	-	-	-
7.2	Academic Audit and actions taken during the period of assessment	Assessment shall be based on conduct and actions taken in relation to continuous improvement	-	-	-
7.3	Improvement in Placement, Higher studies and Entrepreneurship	A. Improvement in Placements numbers, quality, core hiring industry and pay packages	-	-	-
		B. Improvement in Higher studies admissions	-	-	-
		C. Improvement in number of Entrepreneurs	-	-	-

7.4	Improvement in the quality of students admitted to the program	Assessment is based on improvement in terms of ranks/ score in qualifying state level/ national level entrances tests, percentage Physics, Chemistry and Mathematics marks in 12 th Standard and percentage marks of the lateral entry students	-	-	-
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Dr. Prashanth C. R.
Professor,
Controller of Examinations,
SJBIT, Bengaluru

Additional Director & Principal
BNM Institute of Technology
Bangalore-560 070

Dr. Manjula V. K.
Associate Professor,
Dept. of ECE,
RNSIT, Bengaluru

Dr. Yasha Jyothi M. Shirur
HoD & Professor, Dept. of ECE
BNMIT, Bangalore
Head of the Department
Electronics & Communication Engineering
BNM Institute of Technology
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Dr. Krishnamurthy G N
Deputy Director
BNMIT, Bangalore
Deputy Director
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27th Cross, 12th Main, BSK II Stage, Bengaluru-560 070

B.N.M. Institute of Technology

An Autonomous Institute under VTU

Internal Academic Audit-2024 report of EEE program:

Proceedings of the Internal Academic Audit held on 30/08/2024 for the EEE program in the New Building, Electrical and Electronics Department, BNMIT, Bengaluru.

Members Present:

SN	Name	Designation	Department
1	Dr. Yasha Jyothi M Shirur	Professor and Head	ECE
2	Dr. Bindu S	Professor	ECE
3	Dr. D. Shivalingappa	Professor	ME
4	Dr. Anusha Preetham	Assoc. Professor	AIML
5	Dr. Ashwini S Savanth	Assoc. Professor	ECE
6	Dr. Vrunda Kusanur	Assoc. Professor	ECE
7	Dr. Mahendra Kumar C	Assoc. Professor	ECE

Dr. Yasha Jyothi M Shirur, Professor & Head, Department of ECE, BNMIT, allocated the internal academic audit work to all members to review the blue books/green books/softcopy scripts of IA, registers, course files, and marks sent to VTU and the CoE office, BNMIT. The course files to be checked include all courses from the academic years 2021-22, 2022-23, and 2023-24.

The NBA-related documents, including the Self-Assessment Report (SAR), 28 program-level files (P-files), 7 Criterion files (C-files), 74 typical files, and proof files, were meticulously reviewed by the internal academic audit members from 30/08/2024 to 12/09/2024.

Academic audit report of the EEE Program:

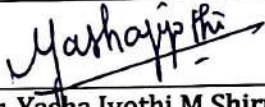
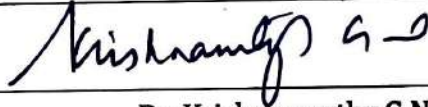
- The committee members verified the communication with stakeholders file for the revision of vision, mission, PSO, and PEOs, assess the process and activities involved in revision. The file was found to be intact with the evidence of communication with relevant stakeholders. documentation of changes made based on stakeholder inputs and adequacy of stakeholder involvement in the revision process.
- The Department Advisory Board (DAB) Department meeting files and PAAC files were verified for DAB meeting minutes, attendance sheets, board member lists, action items and all documents were present as per requirement.
- Alumni files was verified for List of Students (Batch wise), details of alumni contact lists, engagement records, newsletters, feedback forms and alumni achievers' details.
- The files related to calendar of events; curriculum gaps and gap filling through revision of syllabus and other activities, curriculum for all schemes, BOS and rubrics for all evaluations (BOE) were checked for completeness.
- The complete course files were verified for the class time table, individual staff timetable, syllabus, lesson plan, work done, quality of QPs (IA), schemes, attainment calculation and review by scrutiny members along with blue books (both hard and soft copy) and attendance register entry.
- The list of projects, list of working models of best and average projects was verified. The files also had the details of the projects done in association with industry to improve the quality of the project.
- The files related to student results, result analysis, list of repeaters, list of students with backlogs, slow learners, students' achievements, student participation in technical & non-technical events, club activities and student placement was thoroughly checked for all relevant documents.
- The details related to placement, internship & higher studies details and entrepreneurship.
- Mentor dairy documents related to AICTE activity points, minor and honour degree were verified.
- The files related to staff achievements, staff publications patents, funding, consultancy staff appraisal, documents related to MOUs were checked and found to be intact.
- Faculty participation in technical & non-technical events FDP & short-term training courses centers of excellence, R & D Activities checked and verified for the updation.
- The faculty related to innovative teaching practices documents related professional societies, newsletters were checked and verified.
- Non-Teaching staff details, list of laboratories with equipment's/software, new equipment's, stock ledgers, day books, log books were verified.
- All feedback files, updated website contents in all respects, budget files were checked and verified.
- The files related to NBA documents, NBA Tier-2 pre-qualifier, new coffee table books, sign boards faculty name plates and faculty boards, Parents Teachers meeting files Letter correspondence with VTU and others, IA marks submitted to VTU were checked and verified.
- The information related to HOD meeting resolution, Academic Review Meeting [ARM] Files were checked thoroughly and verified for completeness.

Academic audit observations of the EEE program

- Course Exit Survey and Alumni Survey need to be updated.
- Website information need to be updated in college website. The information is already given to the college website in-charge.
- CO-PO attainment calculations need to be completed by gathering SEA marks from the CoE office for all courses of the academic years 2021-22, 2022-23, and 2023-24.

Suggestions:

- i. CO-PO attainment calculations need to be completed by fetching the SEA data from the CoE, BNMIT.
- ii. All pending work mentioned in the observation need to be completed and get it verified by the committee members.

Prepared by	Approved by
	
Dr. Yasha Jyothi M Shirur Prof. and HoD-ECE	Dr. Krishnamurthy G N Deputy Director



Additional Director & Principal
BNM Institute of Technology
Bangalore - 560 070

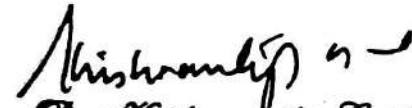
B.N.M. Institute of Technology


An Autonomous Institution under VTU

Date: 25/10/2024

Dear Sir,

Please find enclosed report of the Internal Audit of your department held during August/September 2024. You are requested to take necessary steps to overcome the deficiencies reported (if any) and submit the Compliance report on or before 4th November 2024.


Dr. Krishnamurthy G. N.
Deputy Director
BNM Institute of Technology
27th Cross, 12th Main, BSK II Stage, Bengaluru - 560 070


Additional Director & Principal
BNM Institute of Technology
Bangalore - 560 070


Director
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27th Cross, 12th Main, Banashankari II Stage
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B.N.M. Institute of Technology
An Autonomous Institution under VTU

Department of Electrical and Electronics Engineering
Academic Internal Audit Observations

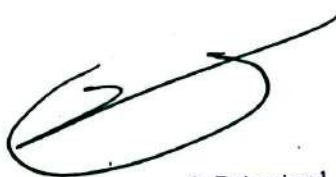
SN	Observations of Evaluators	Actions taken	Complied/ Non-Complied
1	Course Exit Survey and Alumni Survey need to be updated	Surveys are completed and included in SAR	Complied
2	Website information need to be updated in college website	Website details are updated	Complied
3	CO-PO attainment calculations need to be completed	CO-PO attainment calculations are completed and included in SAR	Complied



Dr. Venkatesha K
HoD & Professor
Dept. Of EEE
BNMIT, Bangalore



Dr. Krishnamurthy G N
Deputy Director
BNMIT, Bangalore



Additional Director & Principal
BNM Institute of Technology
Bangalore-560 070

B.N.M. Institute of Technology
An Autonomous Institution under VTU

Department of Electrical and Electronics Engineering

Observations of External Auditors on 14/11/2024

External Auditors:

1. Dr. C Lakshminarayana
Professor & HoD, EEE
BMS College of Engineering, Bengaluru.
2. Dr. S Vasudevamurthy
Professor & Head, Dept. of EEE
Dr. Ambedkar Institute of Technology, Bengaluru.

Criterion 1: Vision, Mission and program Educational Objectives (60)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
1.1	State the vision and mission of the Department and Institute	A. Availability of Statements of the Departments	• Updated new statements can be included in the HoD's presentation	Has been included in the presentation	Complied
		B. Appropriateness/Relevance of the statements	-	-	-
		C. Consistency of the Department statements with the Institute statements	-	-	-
1.2	State the Program Educational Objectives	Program Educational Objectives Appropriateness	-	-	Complied

1.3	Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders	A. Adequacy in respect of publication & dissemination	-	-	-
		B. Process of dissemination among stakeholders	<ul style="list-style-type: none"> • Bigger display boards are to be made everywhere 	Has been displayed	Complied
		C. Extent of awareness of Vision, Mission & PEOs among the stakeholders	<ul style="list-style-type: none"> • Check the awareness of statements among the stakeholders • All the staff and the students should know the statements 	Awareness has been created	Complied
1.4	State the process for defining the Vision and Mission of the department and PEOs of the program	A. Description of process for defining the Vision, Mission of the Department	-	-	-
		B. Description of process for defining the PEOs of the program	<ul style="list-style-type: none"> • Proofs for the brain storming sessions to be included 	Has been included	Complied
1.5	Establish consistency of PEOs with Mission of the department	A. Preparation of a matrix of mapping PEOs and elements of Mission statements	<ul style="list-style-type: none"> • PEO attainment is not required 	-	-
		B. Consistency/ justification of co-relation parameters of the above matrix	-	-	-

Criterion 2: Program Curriculum and Teaching – learning Processes (120)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
2.1	Program Curriculum				
2.1.1	State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes (POs) & Program Specific Outcomes (PSOs), mention the identified curricular gaps, if any	A. Process used to identify extent of compliance of University curriculum for attaining POs & PSOs	<ul style="list-style-type: none"> • Maintain the VTU guidelines and clause document regarding the curriculum for Autonomous 	Document has been included	Complied
		B. List the curricular gaps for the attainment of defined Pos & PSOs	<ul style="list-style-type: none"> • Maintain all the relevant proofs 	Done	Complied
2.1.2	State the delivery of the content beyond the syllabus for POs and PSOs	A. Steps taken to get gaps included in the curriculum (letter to the University)	<ul style="list-style-type: none"> • Maintain the letter communicated to VTU regarding the curricular gap, if any 	-	Complied
		B. Delivery details of content beyond syllabus	<ul style="list-style-type: none"> • Maintain documents of Innovative teaching methods 	Documents are included	Complied
		C. Mapping of content beyond syllabus with the POs and PSOs	<ul style="list-style-type: none"> • Maintain the proofs of Course outcomes and CO-PO mapping for the content beyond the syllabus 	Proof documents are included	Complied
2.2	Teaching-Learning Processes				
2.2.1		A. Adherence to Academic Calendar	-	-	-

Describe the process followed to improve quality of Teaching Learning	B. Use of various instructional methods and pedagogical initiatives	-	-	-
	C. Methodologies to support weak students and encourage bright students	<ul style="list-style-type: none"> Define the process of identifying weak students and maintain the documents Action taken to support the weak students Improvements can be shown in the form of Bar charts/ Pie charts/ display boards for both weak and bright students Peer learning can be used to address both the categories and maintain the proof 	Documents are included Charts are made	Complied
	D. Quality of classroom teaching (observation in a class)	-	-	-
	E. Conduct of experiments (Observation in Lab)	-	-	-
	F. Continuous assessment in the Laboratory	-	-	-
	G. Student feedback on teaching learning process and actions taken	<ul style="list-style-type: none"> Students having attendance more than 70% can give staff feedback 	Discussed with the management	Complied
	2.2.2 Quality of internal semester question papers, assignments and evaluation	A. Process for internal semester question paper setting, evaluation and effective process implementation	-	-
B. Process to ensure questions from outcomes/ learning levels perspective		-	-	-

		C. Evidence of COs coverage in class test/ mid-term tests	-	-	-
		D. Quality of Assignment and its relevance to COs	<ul style="list-style-type: none"> • Assignments and AAT can be utilized to address the POs and improvement of its attainment 	Has been included	-
2.2.3	Quality of student projects	A. Identification of projects and allocation methodology to Faculty	-	-	-
		B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs	-	-	-
		C. Process for monitoring and evaluation	<ul style="list-style-type: none"> • Exclusive project lab can be proposed and maintain a log book 	N104 and AB004 are available in the department and log books are maintained	Complied
		D. Process to assess individual and team performance	-	-	-
		E. Quality of completed projects/ working prototypes	<ul style="list-style-type: none"> • Students should be made to exhibit their project works during the committee visit 	Students will exhibit their projects	Complied
		F. Evidences of papers published / awards received by projects etc	<ul style="list-style-type: none"> • Highlight the outcomes of the projects executed • To be included in HoD's presentation 	Documents are made	Complied
2.2.4	Initiatives related to industry interaction	A. Industry supported laboratories			
		B. Industry involvement in the program design and partial delivery of any regular courses for students	<ul style="list-style-type: none"> • Maintain details of Industry in Campus, Industry driven lab, Industry Set-up lab and evaluate the placements through that 	Documents are included	Complied

			<ul style="list-style-type: none"> Adjunct faculty should be from an Industry 		
		C. Impact analysis of industry institute interaction and actions taken thereof	<ul style="list-style-type: none"> Outcomes of the Industry driven projects and funded projects 	Documents are included	Complied
2.2.5	Initiatives related to industry internship/ summer training	A. Industrial training/ tours for students	<ul style="list-style-type: none"> Measure outcomes of Industrial visits 	Outcomes are measured	Complied
		B. Industrial/ internship/ summer training of more than two weeks and post training assessment	<ul style="list-style-type: none"> Measure outcomes of Internships 	Outcomes are measured	Complied
		C. Impact analysis of industrial training	<ul style="list-style-type: none"> Placements through Internships to be indicated 	Documents are made	Complied
		D. Student feedback on initiative	<ul style="list-style-type: none"> Evaluation to be done by the external guide also 	Has been done	Complied

Criterion 3: Course Outcomes and Programs Outcomes (120)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
3.1	Establish the correlation between the courses and the PO s and PSOs				
3.1.1	Course Outcomes	Evidence of CO s being defined for every course	<ul style="list-style-type: none"> Course Outcome statements should not be module based, but could be cognitive skill based Course outcomes order should be as per the increasing order of cognitive skills 	Will be considered from the current academic year	Complied

3.1.2	CO-PO/ PSO s matrices of courses selected in 3.1.1	Explanation of table to be ascertained	-	-	-
3.1.3	Program level course – PO/ PSO s matrix of all courses including first year courses	Explanation of tables to be ascertained	-	-	-
3.2	Attainment of Course Outcomes				-
3.2.1	Describe the assessment processes used to gather the data upon which the evaluation of course outcome is based	A. List of assessment processes	-	-	-
		B. The quality / relevance of assessment processes & tools used	-	-	-
3.2.2	Record the attainment of course outcomes of all courses with respect to set attainment levels	Verification attainment levels as per the bench mark set for all courses	-	-	-
3.3	Attainment of program outcomes and program specific outcomes				
3.3.1	Describe assessment tools and processes used for assessing the attainment of each of the PO s and PSOs	A. List of assessment tools and processes	-	-	-
		B. The quality / relevance of assessment tools/ processes used	-	-	-
3.3.2	Provide results of evaluation of each PO and PSO	A. Verification of documents, results and level of attainment of each PO/ PSO	<ul style="list-style-type: none"> All the staff should know the CO PO attainment process. Any of the staff may be asked to explain the process by the committee 	Meetings are done	Complied
		B. Overall levels of attainment	-	-	-

Criterion 4: Students' Performance (150)					Complied/ Non-Complied
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	
4.1	Enrolment Ratio	-	-	-	-
4.2	Success Rate in the stipulated period of the program	-	-	-	-
4.2.1	Success rate without backlogs in any semester/ year of study	-	-	-	-
4.2.2	Success rate in stipulated period (Total of with Backlog + without backlog)	-	<ul style="list-style-type: none"> Action plan taken to improve the success rate 	Has been documented	Complied
4.3	Academic performance in Third year	-	-	-	-
4.4	Academic Performance in Second year	-	-	-	-
4.5	Placement, Higher studies and Entrepreneurship		<ul style="list-style-type: none"> Collect more offer letters Maintain document of minimum and maximum salary package Measure the outcome of the Internships in the form of placements. If any, highlight it 	Has been documented	Complied
4.6	Professional Activities				
4.6.1	Professional societies/ chapters and organizing engineering events	A. Availability & activities of professional societies/ chapters	-	-	-

		B. Number, quality of engineering events (organized at institute level/ state/National/ International)	<ul style="list-style-type: none"> Maintain document of students' involvement in the activities of the Centre of excellence Maintain document of management support to the students 	Has been documented	Complied
4.6.2	Publication of technical magazines, newsletters, etc	A. Quality & relevance of the contents and print material	-	-	-
		B. Participation of students from the program	-	-	-
4.6.3	Participation in inter-institute events by students of the program of study	A. Events within the state	-	-	-
		B. Events Outside the state	-	-	-
		C. Prizes/ awards received in such events	-	-	-

Criterion 5: Faculty Information and Contribution (200)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
5.1	Student- Faculty Ratio (SFR)		-	-	-
5.2	Faculty Cadre Proportion		-	-	-
5.3	Faculty Qualification		-	-	-
5.4	Faculty Retention				
5.5		A. The work must be made available on Institute website	-	-	-

	Innovations by the faculty in Teaching and Learning	B. The work must be available for peer review and critique	• Collect samples of peer review and critique	Has been included	Complied
		C. The work must be reproducible and developed further by other scholars	-	-	-
		D. Statement of clear goals, use of appropriate methods significance of results, effective presentation and reflective critique	-	-	-
5.6	Faculty as participants in faculty development / training activities/ STTPs		-	-	-
5.7	Research and Development		-	-	-
5.7.1	Academic Research	Number of quality publications in refereed/ SCI -Journals, citations, Books/ book chapters etc	• Exhibit all the top-rated journal first in the table	Has been implemented	Complied
		Ph. D guided /Ph. D awarded during the assessment period while working in the Institute	--	-	-
5.7.2	Sponsored Research		• Include the fund sanctioned for EEE department under IEDC	Has been documented	Complied
5.7.3	Development Activities	A. Product development B. Research laboratories C. Instructional materials D. Working models/ charts/ monograms etc	-	-	-
5.7.4	Consultancy		• Funding and consultancy to be improved	Planning to execute training consultancy	Not Complied

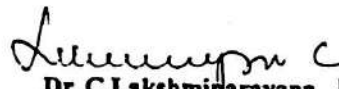
5.8	Faculty Performance Appraisal and Development system (FPADS)	A well-defined performance appraisal and development system instituted for all the assessment years	-	-	-
		Its implementation and effectiveness	-	-	-
5.9	Visiting/ Adjunct/ Emeritus Faculty etc	Provision of visiting / Adjunct / Emeritus faculty etc Minimum 50 hours per year interaction to obtain three marks	<ul style="list-style-type: none"> • Proofs to be maintained and exhibited • Adjunct faculty should be from the Industry 	Industry Expert is visiting the department to share their skill and knowledge	Complied

Criterion 6: Facilities and Technical Support (80)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
6.1	Adequate and well-equipped laboratories and technical manpower	Adequate well-equipped laboratories to run all the program-specific curriculum	-	-	-
		Availability of adequate technical supporting staff	-	-	-
		Availability of qualified technical supporting facilities	<ul style="list-style-type: none"> • Support for the non-teaching staff by the management to be included 	Trainings are conducted every year	Complied
6.2	Additional facilities created for improving the quality of learning experience in Laboratories	Availability and relevance of additional facilities	-	-	-
		Facilities utilization and effectiveness	-	-	-
		Relevance of PO and PSO	-	-	-


6.3	Laboratories: Maintenance and overall ambience	Maintenance and overall ambience	-	-	-
6.4	Project laboratory	Facilities and Utilization	-	-	-
6.5	Safety measures in laboratories	Safety measures in laboratories	-	-	-


Criterion 7: Continuous Improvement (50)					
SN	Sub Criteria	Evaluation Guidelines	Observations of Evaluators	Actions taken	Complied/ Non-Complied
7.1	Actions taken based on the results of evaluation of each of the Pos and PSO s	A. Documentation of PO s and PSO s attainment levels	• Maintain proofs of action plan	Documents are maintained	Complied
		B. Identification of gaps/ short falls	-	-	-
		C. Plan of action to bridge the gap and its implementation	• Measure the Outcome of the action plans	Documents are maintained	Complied
7.2	Academic Audit and actions taken during the period of assessment	Assessment shall be based on conduct and actions taken in relation to continuous improvement	-	-	-
7.3	Improvement in Placement, Higher studies and Entrepreneurship	A. Improvement in Placements numbers, quality, core hiring industry and pay packages	-	-	-
		B. Improvement in Higher studies admissions	-	-	-
		C. Improvement in number of Entrepreneurs	-	-	-


7.4	Improvement in the quality of students admitted to the program	Assessment is based on improvement in terms of ranks/ score in qualifying state level/ national level entrances tests, percentage Physics, Chemistry and Mathematics marks in 12 th Standard and percentage marks of the lateral entry students			
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Dr. C Lakshminarayana 12/12/24
 Professor & HoD, EEE
 BMS College of Engineering, Bengaluru.


Dr. S Vasudevamurthy
 Professor & Head, Dept. of EEE
 Dr. Ambedkar Institute of Technology, Bengaluru


Dr. Venkatesha K
 HoD & Professor
 Dept. Of EEE
 BNMIT, Bangalore


Dr. Krishnamurthy G N
 Deputy Director
 BNMIT, Bangalore


 Additional Director & Principal
BNM Institute of Technology
 Bangalore-560 070

B.N.M. Institute of Technology

An Autonomous Institute under VTU

Internal Academic Audit-2024 report of Basic Sciences and humanity sciences

Proceedings of the internal Academic Audit held on 02/09/2024 for the Basic Sciences and humanity sciences in the physics lab and respective departments, Auditorium Building, BNMIT, Bengaluru.

Members Present:

SN	Name	Designation	Department
1	Dr. Venkatesha K	Professor and Head	EEE
2	Dr. Chayadevi M L	Professor and Head	CSE
3	Dr. L Venkata Reddy	Professor and Head	Maths
4	Dr. Mahanthesha U	Assoc. Professor	AIML
5	Dr. C. Swetha M D	Assoc. Professor	CSE
6	Dr. M Rajani Shree	Assoc. Professor	CSE
7	Dr. Manjunath G Asuthi	Assoc. Professor	ECE

The internal academic audit committee members reviewed the following documents for the academic years 2022-22, 2023-24 and 2024-25.

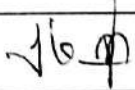
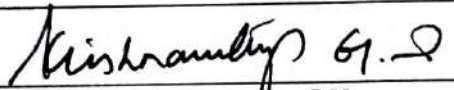
Academic audit observations of the Basic Sciences and humanity sciences

- The NBA Criterion-8 (C8) file has been prepared as per the SAR format, with supporting files created as proof for the C8 document.
- Parameters such as student-faculty ratio, qualifications and first year academic performance have been calculated, and the corresponding files are well maintained.
- Attendance registers, IA marks, IA marks sent to VTU, syllabus, lesson plan, work diary, review of teaching process by HoD and QP scheme are available for all the courses of AY 2021-22, 2022-23 and 2023-24.
- The CO statements, CO-PO mapping, CO attainment, and corresponding PO attainment have been completed for all courses with respect to continuous internal assessment.

- Process book of CO-PO attainment is available and the same is used for the CO-PO attainment calculations of the courses.

Suggestions:

- i. CO-PO attainment calculations need to be completed by fetching the SEA data from the CoE, BNMIT.
- ii. All the course files need to be updated in humanities department.
- iii. A training program on CO-PO attainment calculations needs to be arranged for new faculty members.

Prepared by	Approved by
	
Dr. Venkatesha K Member Secretary	Dr. Krishnamurthy G N Deputy Director



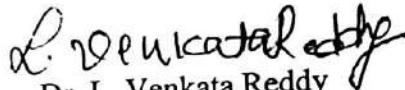
Additional Director & Principal
BNM Institute of Technology
Bangalore-560 070

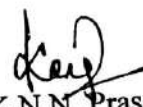
B.N.M. Institute of Technology

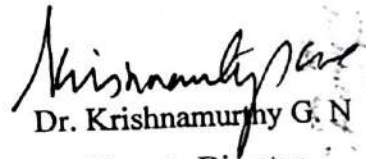
An Autonomous Institute under VTU

Academic Audit (Internal) - September 2024


Criteria VIII			
Department: Basic Sciences & Humanities			
Sl. No.	Remarks	Action Taken	C/NC
1	CO-PO attainment calculations need to be completed by fetching the SEA data from the CoE, BNMIT	CO-PO attainment calculations have been completed	C
2	All the course files need to be updated in humanities department.	Course files of Humanities department have been updated	C
3	A training program on CO-PO attainment calculations needs to be arranged for new faculty members.	Training program has been conducted	C


Dr. L. Venkata Reddy
Prof. & Head, Mathematics


Dr. K.N.N. Prasad
Prof. & Head, Physics


Dr. Krishnamurthy G. N.
Deputy Director

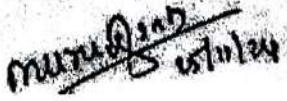
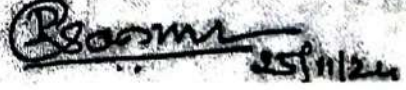
Deputy Director
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BNM Institute of Technology
Bangalore-560 070

B.N.M. Institute of Technology

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Academic Audit (External) - November 2024

Criteria VIII				
Department: Basic Sciences & Humanities				
Name of the Committee members:				
1) Dr. Murugendrappa M. V., Associate Prof., Dept. of Physics BMSCE, Bengaluru				
2) Dr. Raviraj Kusanur, Associate Prof. & Head, Dept. of Chemistry RVCE, Bengaluru				
File No.	Details	Remarks	Action Taken	C/NC
8.1	First year Student - Teacher Ratio (FYSFR)	FYSFR is less than 20:1, meets the criteria	-	C
8.2	Qualification of Faculty teaching First year common courses	Meets the criteria	-	C
8.3	First year Academic performance	Calculated as per the format and result is 8.11/10	-	C
8.4	Attainment of CO of FY courses	Calculation has been done as per the guidelines. In all the courses the attainment is above 85%.	-	C
8.5	Attainment of PO of all FY courses	PO attainment has been done for all the courses and attainment is above 85%.	-	C
SAR supporting files for all the criteria 8.1 to 8.5		All the supporting files are in order except Course files of IDT, Kannada and LACA	Course files of IDT, Kannada and LACA are in order	C
Signature of the Committee members		 (Dr. Murugendrappa M. V)	 (Dr. Raviraj Kusanur)	

Criteria VIII

Department: Basic Sciences & Humanities

Name of the Committee members: Dr. MURUGENDRAPPAN, M.V. BMSLE & Dr. Ramraj Kumar, RICE

File No.	Details	Remarks
8.1	First year Student - Teacher Ratio (FYSFR)	FYSFR is less than 20:1, meets the criteria
8.2	Qualification of Faculty teaching First year common courses	Meets the criteria
8.3	First year Academic performance	calculated as per the format and result is 80.11/10.
8.4	Attainment of CO of FY courses	calculation has been done as per the guidelines In all the courses the attainment is above 85%. 85%.
8.5	Attainment of PO of all FY courses	PO attainment has been done for all the courses and attainment is above 85%.

B.N.M. Institute of Technology

An Autonomous Institute under VTU

Academic Audit- September 2024

Criterion Number	SAR supporting files	Remarks
Criterion 08	SAR supporting files for all the criteria 8:1 to 8-5	All the supporting files are in place
Signature of the Committee members		
1) <u>Murugesh</u> 25/11/24 2) <u>Raghu</u> 25/11/24		

* Following course files are not submitted

1. Kannada
2. Liberal arts and creative art;

* Course file of IDT is not in proper order.

Raghu

Murugesh

MBA-Int


B.N.M. Institute of Technology

An Autonomous Institution under VTU

Date: 25/10/2024

Dear Sir,

Please find enclosed report of the Internal Audit of your department held during August/September 2024. You are requested to take necessary steps to overcome the deficiencies reported (if any) and submit the Compliance report on or before 4th November 2024.


Dr. Krishnamurthy S. N.
Deputy Director
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27th Cross, 12th Main, BSK II Stage, Bengaluru-560 070


Additional Director & Principal
BNM Institute of Technology
Bangalore - 560 070


Director
BNM Institute of Technology
27th Cross, 12th Main, Banashankari II Stage
Bengaluru - 560 070

B.N.M. Institute of Technology

An Autonomous Institute under VTU

Internal Academic Audit-2024 report of Master of Business Administration program:

Proceedings of the internal Academic Audit held on 02/09/2024 for the MBA program in the MBA boardroom, Auditorium Building, BNMIT, Bengaluru.

Members Present:

SN	Name	Designation	Department
1	Dr. Venkatesha K	Professor and Head	EEE
2	Dr. Chayadevi M L	Professor and Head	CSE
3	Dr. L Venkata Reddy	Professor and Head	Maths
4	Dr. Mahanthesha U	Assoc. Professor	AIML
5	Dr. C. Swetha M D	Assoc. Professor	CSE
6	Dr. M Rajani Shree	Assoc. Professor	CSE
7	Dr. Manjunath G Asuthi	Assoc. Professor	ECE

The internal academic audit committee members reviewed the following documents for the academic years 2022-22, 2023-24 and 2024-25.

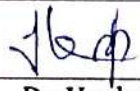
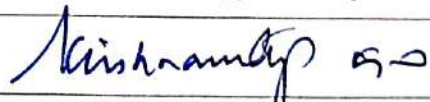
Academic audit observations of the MBA program

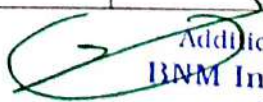
- Academic related documents such as answer booklets [Blue books hard/ soft copies], attendance registers, Course files and marks sent to VTU for the odd and even semesters of academic year 2021-22, 2022-23 and 2023-24 are well maintained.
- The identification of curriculum gaps, their analysis, and mapping to the POs, along with the corresponding gap-filling process through organized events, have been done very efficiently.
- CO-PO attainment calculations have been completed for all courses with respect to continuous internal assessments.

- The stakeholder's feedback is available for the proposed vision and mission statements of the program.
- The student feedback mechanism for the teaching-learning process and the corresponding corrective actions are well-maintained.
- Data on students' participation in technical and non-technical events, along with their certificates, is sorted and filed year wise.
- List of repeaters, backlog students and non placed students are filed and arranged year wise.
- Rubrics for evaluating lab records, projects, and internships have been well established.
- Process book of CO-PO attainment is available and the same is used for the CO-PO attainment calculations of the courses.
- Files for DAB, PAAC, BoS and Academic Review meetings are well maintained
- Parameters such as student-faculty ratio, faculty cadre proportion, qualifications, and faculty retention have been calculated, and the corresponding files are well maintained.
- Records of faculty participation in faculty development programs, training activities, and short-term training programs are well maintained in the department.
- Records of MoUs, corresponding activities organized under MoUs, and consultancy work carried out by faculty members are well maintained.

Suggestions:

- i. The identification of curriculum gaps, their analysis, and mapping to the POs, along with the corresponding gap-filling process through events, needs to be completed.
- ii. Industrial reports must be collected from students who attend industrial visits. Documents for technical workshops need to be prepared, covering everything from the brochure to the CO-PO attainment calculations.
- iii. Self Assessment Report (SAR) is required to be prepared as per Tier-I formats and corresponding C files, P files and proof files need to be updated.
- iv. CO-PO attainment calculations need to be completed by fetching the SEA data from the CoE, BNMIT for the batches 2021-23, 2022-24 and 2023-25.

Prepared by	Approved by
	
Dr. Venkatesha K Member Secretary	Dr. Krishnamurthy G N Deputy Director


 Additional Director & Principal
 BNM Institute of Technology
 Bangalore-560 070

B.N.M. Institute of Technology

An Autonomous Institute under VTU

Academic Audit (Internal) - October 2024

Department: Business Administration			
Sl. No.	Remarks	Action Taken	C/NC
1	Identification of curriculum gaps, analysis and mapping to the POs, along with corresponding gap-filling process through events, needs to be completed	Curriculum gaps have been identified and analysis and mapping of POs has been completed	C
2	Industrial reports must be collected from students who attend industrial visits. Documents for workshops need to be prepared	Has been completed with attainment calculation	C
3	Self Assessment Report is required to be prepared as per Tier-1 formats and corresponding C files and Pfiles and proof files need to be updated	Has been updated	C
4	CO-PO attainment calculations need to be completed by fetching the SEA data from the CoE, BNMIT for the batches 2021-23, 2022-24 and 2023-25	Completed for the batches 2022-24 and 2023-25	C



Dr. Mukund N Sharma

Prof. & Head, Dept. of Business Administration

Professor & Head, Dept. of MBA

B.N.M. Institute of Technology

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Dr. Krishnamurthy G. N.

Deputy Director



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