



DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082

(Accredited by NAAC with A+ Grade)

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Department of Electrical and Electronics Engineering

Event Name	External Academic Audit 2022 - 23
Theme	External Academic Audit as per Audit Manual based on NBA Criteria
Date	11-02-2023
Venue	Electrical and Electronics Engineering Department, DSATM

Objectives of the Event


The External Academic Audit was held on 11-02-2023 in the department to audit according to the audit manual based on NBA criteria.

Agenda

1. Assembly and welcome address by HoD
3. Introduction of staff members to the external expert
4. Presentation by HoD
5. Auditing of documents and verification of files as per the manual
6. Preparation of final report after auditing.
7. Exit Meeting with Principal

Coordinators

Sl. No	Name of the Faculty	Designation
1.	Dr. K. Shanmukha Sundar	Professor & HoD
2.	Sri Govindappa	Associate Professor
3.	Sri Gopal Sarkar	Associate Professor
4.	Dr. Kasi Viswanathan	Asst. Professor
5.	Ms Rashmi P	Asst. Professor
6.	Mr Kiran R	Asst. Professor
7.	Mr Renuka Prasad	Asst. Professor
8.	Mr Rajath	Asst. Professor
9.	Ms Ramya Rajan	Asst. Professor
10.	Ms Monica.M	Asst. Professor


Principal
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External Auditor

The external expert invited for auditing is **Dr Jayachandra Shenoy U. Chief Research Scientist; Indian Institute of Science, Bangalore.**

Proceedings

The Head of the department Dr.K Shanmukha Sundar greeted and extended a warm welcome to external expert Dr U.J.Shenoy from IISc and all the staff members. Later HoD introduced the staff members of the EEE department to the external expert. After the introduction the agenda points were taken for discussion.

The HoD has explained and highlighted the program details and criteria wise details through the PPT presentation. Later, requested the external expert to take up the audit process.

The suggestions /inputs/corrections given by the external expert for various criteria are furnished below.

Highlights of audit on different Criteria of NBA:

Criteria 1

1. The Vision and mission statements are well defined and disseminated.
2. PEOs are well displayed in the department, course files, lab manuals, collegeweb portals and classrooms
3. Feedback from all stake holders were taken to form Vision, Mission, POs and PEOs. However, feedback to be taken from the employers and industries.

Criteria 2

1. The processes for gap identification is well defined and analysis is done and is quite appreciated
2. Appreciated that the gaps identified were communicated to VTU.
3. Creative assessments are verified for each semester and the outcome from creative assessment is verified. The documentation done for creative assessment is well appreciated as a good practice.
4. The revised dates in academic calendar were questioned. The faculty incharge has explained the purpose of having revised dates in calendar of events.
5. The discrimination of slow learners is objected and advised not to have such cases. The course faculty has to take care of entire range of learning abilities of all the students in the class.



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6. The conduction of events through professional bodies by bright students and the financial support extended by the institution is well ascertained.
7. The CIE for laboratories and its documentation processes is verified and suggested to continue the process.
8. The processes for internal question paper setting and assessment is explained.
9. Appreciated for implementing OBE terms in CIE paper.
10. The publication of papers at the end of 7th semester itself is a point of question, as it is very difficult to understand the concepts itself in UG level. It's not advised to make that practice as it is not acceptable as a good practice. Since it's too early for an undergraduate level student to make a paper publication. However, suggested to have publications on successful completion of project only.
11. The industry supported labs is not available in the department, it is advised to look for opportunities, industries can be contacted for establishing laboratories with the support from institution.
12. The MoUs in the department needs to be improved. Suggested to have the industry-based projects during the final year.
13. The Industrial internship certificates and the impact through it is verified. Further, non-curriculum-based internships completed by students under Edu skills is appreciated and suggested to continue the same with increased in numbers.

Criteria 3

1. The processes of CO attainment and its relevant tools used for courses is explained and verified.
2. The attainment levels of courses of all courses has been asked for verification and the files were verified for graduated batches.
3. The PO attainment process is explained and the PO-PSO attainment levels were verified for the 2022 graduated batch.
4. The student feedback on completion of program to calculate PO indirect attainment is verified through google form hard copies
5. The quality of assessment tools used to calculate CO and POs are verified.

Criteria 4

1. The events organized under professional bodies were verified with the documentation proof. However, suggested to increase the number of professional bodies and events in the department.
2. The quality of technical content in the departmental technical magazine which is prepared by the technical club NATEECrats was well appreciated.


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3. Suggested to encourage the students to participate in more technical events which are organized outside the state.

Criteria 5


1. The pedagogical methods followed by faculty members for various courses for all odd semester courses has been validated and the reports maintained for the same is well appreciated.
2. The calculation and formulas for marks scored through FDPs has to be included in the file for NBA requirements.
3. The research facilities are not adequate to conduct research in the emerging fields of electrical engineering like smart grid, EVs and renewable energy sources. The department has to setup the basic infrastructure to carry out the research activities with the support of institution.
4. The quality of publication and citation in SCI journals are not adequate, and suggested that the publication count in the department has to be improved
5. The faculty members with Ph.D are not adequate. The faculty members exclusively with research background/culture with PhD needs to be recruited to improve the R&D activities in the department.
6. Suggested to have PG program in the department to strengthen the R&D activities.
7. Suggested the faculty members who have not registered for PhD to register for PhD.

After the lunch break, the expert has visited all the classrooms, laboratories and staff room. Appreciated the EV two-wheeler developed by our students. He suggested continuing the existing project models with extension. He also appreciated the space provided for the labs, classrooms and staff room.

Measurable Outcomes

(I) Strength of the Department:

1. The Teaching Learning Processes is good and is appreciated.
2. The NBA documentation process is followed regularly.
3. The student centric learning (OBE) is adopted.
4. The support provided for student participation in the activities of professional bodies is good.
5. The faculty members are committed to the work.


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Addressing the Gaps

(II) Weakness/ area of improvement in the Department:

1. The faculty to student ratio needs to be improved to meet NBA requirements.
2. Exclusive computer labs for various department courses is needed.
3. The basic research infrastructure facilities are lacking to carry on research on emerging technologies such as renewable/ EVs and smartgrids etc.
4. More faculty with PhD and research culture need to be recruited to strengthen R&D activities
5. Industry supported labs not existing and to be encouraged.
6. The quality of research publication has to be improved

(III) Deficiencies observed in the department

1. The computer simulation laboratory doesn't exist in the department.
2. The infrastructure to conduct microcontroller, DSP labs are to be established in EEE department.
3. The R&D activities in the department are lacking.
4. MoUs with industries to be improved

The auditing at department was concluded with thanks to the external expert and all staff members.

Photos




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Few photographs taken during the academic audit

(JShenoy)

Signature of External Auditor

Dr. Jayachandra Shenoy U.

Chief Research Scientist;

Indian Institute of Science, Bangalore.

11/2/2023

(Shanmukha Sundar)

Dr. K. Shanmukha Sundar

Professor & HOD

Department of EEE

Dayananda Sagar Academy Of Technology
And Management

HOD Department of Electrical & Electronics Engg.

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(R.S.S.)

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