

**NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI - 628 503**

(An Autonomous Institution Affiliated to Anna University, Chennai)

**INTERNAL QUALITY ASSURANCE CELL (IQAC)**

**Minutes of 21<sup>st</sup> IQAC Meeting**

18.09.2024

The 21st Internal Quality Assurance Cell (IQAC) meeting was held at the Alumni Chamber on September 14, 2024, at 10:00 AM. Dr. R. Harichandran, Professor of Mechanical Engineering, welcomed both internal and external members of the IQAC meeting. Dr. S. Shanmugavel, Director, delivered a special address. Dr. K. KalidasaMurugavel, Principal, presented the agenda for the meeting and discussed the Timed Vision plans for 2021-2024 and 2024-2027. He has highlighted the most significant quality parameters, including student outcomes, faculty development, and institutional recognition. The inclusion of design thinking and product development courses in the 2023 curriculum were addressed.

Dr. L. Kalaivani, the coordinator of IQAC, gave a briefing on the target attainment and gap analysis for the academic year 2023-2024 & strategy plan set for the year 2024-2025,

The following are the minutes from the 21<sup>st</sup> IQAC meeting:

**1.1 Academic Achievements:**

The IQAC Coordinator highlighted a significant improvement in undergraduate admissions for the academic year 2023–2024, particularly in terms of regional distribution.

Dr. Prashant R. Nair suggested enhancing the dissemination of institutional achievements across various social media platforms, including LinkedIn, Facebook, and Instagram, to attract high-quality students in the first round. The focus should be on publishing a magazine and increasing engagement by improving views and likes, on these platforms.

## 1.2 Students Potential Transformation

The IQAC Coordinator highlighted and discussed the percentage of participation and achievements in national and international events for the year 2023–2024. The gap analysis revealed a lack of awareness and hesitation to participate in events held in other states and countries.

- External expert Dr. Prashant R. Nair recommended organizing various activities for school students. Additionally, several online programs could be offered during vacation periods to increase engagement.
- It was also advised to ensure sustainability in all extracurricular activities. The importance of documentation was discussed, particularly for students pursuing higher studies abroad, who must provide their ID cards as proof. This documentation can be utilized for accreditation documentation purposes with bodies such as the NBA and NAAC.
- External expert Dr. N. Sendhil Kumar suggested planning activities in alignment with the Sustainable Development Goals and conducting various initiatives at both the institutional and village levels.
- External expert Dr. Prashant R. Nair suggested implementing safety awareness programs focused on health maintenance.
- Discussions were held regarding the gender ratio in student admissions. A strategic plan was recommended to maintain a 50-50 ratio of male to female students across all departments.
- External members questioned the institution's outreach and the regional distribution of student admissions. They provided advice on strategies to increase admissions from districts outside the immediate region of Tamil Nadu.
- External expert Mr. A. Ramalingam recommended that all patents be filed under the college's name. Additionally, students should be encouraged to apply for fellowships at foreign universities for internship opportunities. It was also advised to maintain signed internship reports from the respective industries.

- External expert Dr. Prashant R. Nair recommended initiating the establishment of an ACM Chapter at the institution. This would enable the organization of numerous events benefiting students and faculty, and allow for the invitation of various resource persons to deliver guest lectures.
- Encouraged students to apply for fellowships at foreign universities for internship opportunities. Additionally, he advised maintaining signed internship reports from the respective industries.
- During the discussion, a drop in PG admissions was addressed. The Principal noted that the primary reason for this decline is that many UG graduates are securing employment immediately after completing their degrees. The Principal requested each Head of Department to manage and improve PG admissions.

### **1.3 Carrier Settlement**

The target fixed as 85% for the academic year 2024-2025.

- External expert Mr. K. S. Venu appreciated the institution's placement record. He suggested identifying the career needs of students and coordinating with companies to bridge the gap between student requirements and placement preparation.
- The IQAC Coordinator noted that the median salary is currently set as 4.5 lakhs per annum, with an upper target of 20 lakhs per annum for the academic year 2024-2025.
- Expert member Mr. Sivaram Sundaram explained that fluctuations in target achievement may occur due to changes in industry demand.
- The Principal explained the company-specific and in-house training provided to students on campus itself.

### **1.4 Student's Publication and Industrial Collaboration:**

- Dr. N. Sendhil Kumar emphasized the importance of enhancing student journal publications.
- The Principal reinforced this by highlighting the key components of Curriculum R-2023, which is specifically designed to enhance experiential

learning and encourage students to conduct research and publish their findings in academic journals.

- Mr. A. Ramalingam suggested conducting a Learner Eligibility Awareness Programme (LEAP) for all students in collaboration with industry partners.

### **1.5 Higher Education:**

- The Principal recommended that all Heads of Department make the necessary efforts to train interested students for competitive tests such as GATE, TANCET, GRE, GMAT, and CAT, and to encourage them to pursue higher studies at renowned universities.
- Expert Mr. Sivakumar J suggested incorporating the teaching of additional languages such as Hindi, Japanese, and German, which could be beneficial for students pursuing higher studies.

### **1.6 Faculty members and strengthening knowledge:**

- External expert Dr. Prashant R. Nair commended the efforts to encourage faculty members to gain industrial exposure through Industry-Know-How programs at industries and R&D organizations.
- Dr. S. Senthilkumar suggested conducting many programmes in emerging technologies such as AI, machine learning, data analytics, IoT, virtual reality, renewable energy, and digital twins.

### **1.7 Research and Development**

The IQAC Coordinator disclosed the goals and progress achieved by faculty members in upgrading their expertise during 2022–23.

The Coordinator also discussed the financial assistance and other benefits provided to faculty members for attending FDPs, seminars, workshops, and the Industrial Know-How Programme in reputed institutions and industries.

- External members appreciated the product patent filed in the year 2023-2024 and it was discussed how to encourage faculty members and students to build a culture of product development and patent filing.

- Expert Dr. Prashant R. Nair recommended establishing multiple specialized research laboratories with support from industry partners and external funding agencies, particularly noting that CSIR provides funds for research activities.
- Dr. Prashant R. Nair suggested that all faculty members engage in collaborative research with IITs and NITs. He commended the faculty who are currently pursuing fellowships at these institutions and participating in collaborative research projects.
- The Principal discussed the financial assistance available to full-time Ph.D. research scholars. Experts also appreciated the students who won prizes in the NAASA Competition and involved in collaborative research works.

### **1.8. Outreach Programmes**

The IQAC coordinator outlined the inter-institutional collaboration efforts undertaken by teachers and students both nationally and internationally. And also emphasized that all faculty members are encouraged to apply for funding from government or recognized bodies, provided they meet the relevant criteria, and to seek opportunities for collaborative research abroad.

- Expert Dr. Prashant R. Nair recommended that the institution aiming for a NAAC Level 4 (National Excellence) grade in the accreditation by highlighting student achievements and faculty contributions in academic and research activities.

### **Department wise presentation:**

- All department Heads of Departments (HoDs) presented their department's achievements, gap analysis for the year 2023-2024, and targets for the current year 2024-2025. Student members suggested that these department-level achievements be shared with all students and other stakeholders in the institution.

**CSE Department:**

- Dr. V. Gomathi, Professor and Head, presented an overview of student admissions and academic performance, highlighting pass percentages and grades for the 2023-2024 academic year.
- Mr. Sivakumar J, an expert, commended the students for their active participation and accomplishments at prestigious institutions.
- The HOD proudly announced that three students were selected as Top-Level Finalists in the NTF Hackathon contest, three students emerged as Grand Finale Winners, and 60 students took part in the IEEE-CS events, including the IEEE Xtreme 18.0 competition.
- Students have successfully published research papers and submitted numerous project proposals.
- In terms of career placement, a strategic plan has been established to help students secure positions in leading core companies such as Amazon, PayPal, Goldman Sachs, JusPay, Flipkart, Data Insights, and others.
- The shortage of SCI publications for the 2023-2024 academic year was addressed, with plans for targeted domain-specific training to improve this area.
- Dr. Prashant R. Nair, an expert, commended the department for signing four Memorandums of Understanding (MoUs) and organizing 15 activities through these partnerships.

**Mechanical Department:**

Dr. S. Iyahraja, Professor and Head of the Department, presented the following points:

- The shortfall in student admissions during Round 1 was discussed, with the identified gap being a lack of student awareness regarding the unique benefits and career opportunities available in the Mechanical Engineering program, particularly in the government sector and other organizations.
- Students grade in the range of CGPA 7.5 -8.5 have to be improved.

- Student participation and achievements in various events were commended. However, it was noted that student involvement and success in events held in other states and in Hackathon competitions need improvement.
- Expert Mr. A. Ramalingam recommended increasing the number of Scopus-indexed publications by students.
- The percentage of placement success and the salary range of offers require enhancement.
- An external expert suggested that efforts should be made to improve awareness of higher education opportunities for students after completing their UG degree, with plans to disseminate this information to students.
- The percentage of faculty members gaining industry exposure needs to be increased.

#### **IT Department:**

Dr. K. G. Srinivasagan, Professor & Head/IT and Dean (TCP), presented the following points:

- The goal is to improve the grade range of 7.5-8.5 among students.
- Expert Dr. N. Sendhil Kumar recommended enhancing student performance and success in Hackathon events.
- Mr. Sivaram Sundaram suggested increasing student publications in SCI and Scopus journals by identifying and encouraging high-achieving students to pursue SCI publications.
- Expert suggested to improve career outcomes, the focus is on increasing the number of students securing salary packages above 10 LPA. This will be achieved by promoting contest-based placements and offering more skill-oriented training by industry experts.
- Mr. Sivaram Sundaram also recommended providing training for competitive exams and guidance for pursuing higher studies at foreign universities.
- It was presented that two products have been recommended for copyright, with one product under consideration for a patent extension.
- A plan is in place to offer technical expertise to industries, aimed at fostering consultancy opportunities.
- It is suggested improving international collaboration for publication and project work.

### **ECE Department:**

Dr. S. Tamilselvi, Professor and Head of the Department, presented the following points:

- Expert Dr. S. Senthilkumar commended the department for its admissions and the achievement of a strong average cut-off mark.
- It was noted that student participation in national and international events in other states needs improvement. To address this, all students are being encouraged to actively participate in such events.
- Student achievements in areas such as Hackathon events need improvement. To address this, alumni and in-house industry experts will be engaged to mentor student teams, helping them secure prizes in Hackathons.
- Expert Dr. Prashant R. Nair recommended increasing student publications in SCI and Scopus journals. In response, the department has developed a strategic plan to motivate and train UG students to submit proposals for product development through initiatives such as New Gen IEDC, TNSCST, and IEI.
- The department was commended for achieving a 98.49% placement record.
- It was suggested that students be identified and encouraged to participate in entrepreneurial activities.
- From the department it is planned to improve the number of SCI publications, by organizing various domain-specific training programs.
- External expert Mr. K. S. Venu praised the department for its submission of project proposals, establishment of special labs, and the number of patents filed.
- Additionally, the department was recognized for its efforts in fostering international and inter-institutional collaborations related to paper publications and project work.

### **EEE Department:**

Dr. M. Willjuice Iruthayarajan, Professor and Head of the Department, presented the following points:



- It was suggested to enhance student attraction during Round 1 admissions by leveraging testimonials from high-ranking alumni and improving dissemination through LinkedIn forums.
- The CGPA range of 7.5-8.5 needs improvement, which can be addressed through consistent monitoring of student performance.
- Experts Dr.S.Senthilkumar recommended increasing student participation in Hackathons and events in other states. To achieve this, plans are in place to raise awareness about recruitment opportunities through Hackathons.
- The department was commended for achieving an 86.15% placement record, with a recommendation to further motivate students to secure salary packages above 10 LPA.
- Students are also encouraged to apply for higher education at foreign universities and to engage in entrepreneurial activities.
- It was noted that the number of patents filed and funded programs need improvement. To address this, the department plans to motivate Special Interest Group (SIG) heads to organize at least one funding event per semester.
- The department was also praised for its involvement in an ongoing project with funding of Rs. 18.9 lakhs.

#### **CIVIL Department:**

Dr.I. Padmanaban, Professor & Head were presented the following points.

- Dr.Prashant R. Nair, was suggested to attract more students in round 1 admission. It is planned to organize outreach programs and competitions at school level periodically disseminating newsletter periodically.
- Student's participation in other states activities and hackathon events is lacking.
- Expert Mr.A.Ramalingam appreciated for having good placement record in the year 2023-2024. But the median salary needs to be improved. And create awareness among students about government available opportunities.


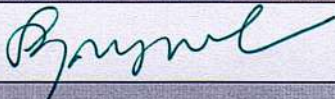
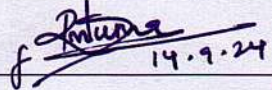
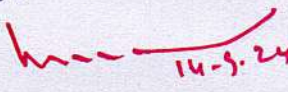
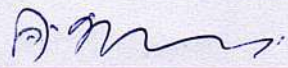
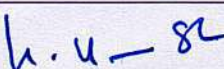


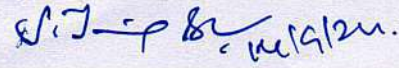

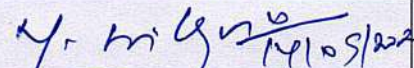
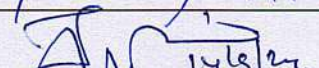
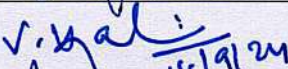
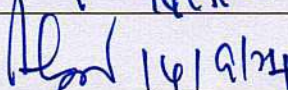
- Student's achievement in higher education at foreign universities and entrepreneur activities is appreciated by the external experts.
- It is suggested to improve the number of SCI paper publications, project proposal and number of MoU signed.
- Expert Mr.Sivaram Sundaram recommended involving in the multi disciplinary activities.
- External expert Dr.N.Sendhil Kumar, appreciated to getting Anna University research centre and consultancy with the cost of 7 Lakhs.


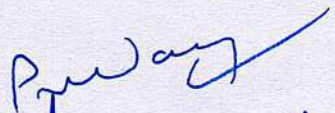
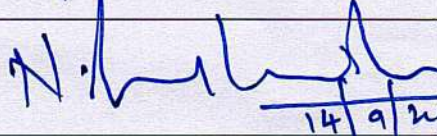
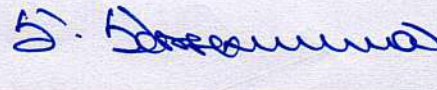
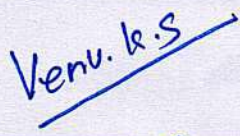


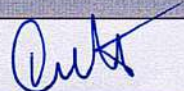

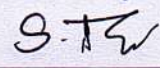

The expert committee praised the institution's efforts to enhance quality and recommended holding regular internal meetings to ensure continued progress. The management and IQAC Committee members adopted the recommendations made by the external committee.

The discussion ended after Dr. S.Chidambaram, Associate Professor/IT, acknowledged all who had attended the meeting. The 21st IQAC meeting's discussions on every topic were documented. The members of the IQAC team decided to inform and direct all the departments in order to accomplish the short-term objectives. Additionally, it was decided by the IQAC team to monitor department-level success in the accomplishment of each short-term goal every quarter in order to ensure institution quality.



The following members were present for the meeting:

Members	Signature
<b>Chair Person</b>	
Dr.K.Kalidasa Murugavel, Principal	
<b>Member from Management</b>	
Dr.S.Shanmugavel, Director	
<b>Senior Teachers &amp; Administrators</b>	
Dr.D.Manimegalai, Controller of Examination	
Dr.M.A.Neelakandan, Sr.Dean(IF&A) , Dean(R&D) & HOD/(S&H)	
Dr.A.Shenbagavalli, Dean(ACD & FDS)	
Dr.K.Manisekar, Dean(I&ED)	
Dr.B.Paramasivan, Dean(SA&IR)	
Dr.K.G.Srinivasagan, Dean(TCP) & HOD/IT	
Dr.S.Tamilselvi, HOD/ECE	
Dr.V.Gomathi, HOD/CSE	
Dr.M.Willjuice Iruthayarajan, HOD/EEE	
Dr.S.Iyarajah, HOD/Mech	
Dr.V.Kalaivani, HOD/AI&DS	
Dr.I. Padmanaban, HOD/Civil	

<b>Alumni Members</b>	
Mr.Sivaram Sundaram, Senior Director, Comcast India Engineering Center, Chennai	
<b>Academic Members</b>	
Dr.Prashant R. Nair, Director/IQAC, Amritha Vishwa Vidhyapeetham, Coimbatore	
Dr.N.Sendhil Kumar, Dean, Research & Consultancy, NIT, Karaikal	 14/9/24
Dr.S.Senthilkumar, Professor/EEE, NIT, Trichy	
<b>Members from Industry</b>	
Mr.K S Venu, Senior Manager, Mahindra & Mahindra Ltd Mahindra City, Chengalpattu	
Mr.Sivakumar J, Head-HR, SPIC, Tuticorin	 14/05/2024
Mr.A.Ramalingam, Senior Technical Manager, Renaul Nissan Technology India Pvt Ltd, Chennai	 14/09/2024
<b>Expert Members</b>	
Dr.G.Vinoth, CEO, Pongu Ventures, Tirunelveli	
<b>Administrative Members</b>	
Mr.P.Jeevanandham, Admin Manager	
Mr.Prabhakaran, HR Manager	
Dr.K.Karunai Raghavan, Librarian	

<b>Student Members</b>	
Benial Raven D, III Mech	<i>Benial Raven D.</i>
A.Vimalraja, IV ECE	<i>A.Vimalraja</i>
S.Iyappa Kumaran, III AI&DS	<i>S. Iyappakumaran</i>
G.Soma Sandhya, III Civil	<i>G. Soma Sandhya</i>
Lohesh R S, III CSE	<i>R.S. Lohesh</i>
M.Aarthi, III EEE	<i>M. Arthi</i>
M.Rajesh, III IT	<i>M. Rajesh</i>
<b>Head SPQAC</b>	
Dr.L.Kalaivani, Professor/EEE	<i>L. Kalaivani</i> 19/9/2014
<b>IQAC Members</b>	
Dr.R.Harichandran, Professor/MECH	<i>R. Harichandran</i> 14.8.21
Dr.S.Chidambaram, Asso. Prof/IT	<i>S. Chidambaram</i>
Dr.M.Gengaraj, AP(SG)/EEE	<i>M. Gengaraj</i>

*[Signature]*  
PRINCIPAL 14/9