111th MEETING OF THE
INTERNAL QUALITY ASSURANCE CELL (IQAC)

MINUTES

DATE &TIME: 06.06.2025, 11:00 a.m.

VENUE: Conference Hall, IQAC
Periyar Maniammai Institute of
Science & Technology
Thanjavur

**PERIYAR MANIAMMAI INSTITUTE OF
SCIENCE & TECHNOLOGY
Vallam, Thanjavur – 613403**

111th MEETING OF THE
INTERNAL QUALITY ASSURANCE CELL (IQAC)

ANNEXURE

PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY

111th MEETING OF THE
INTERNAL QUALITY ASSURANCE CELL

Held on 06.06.2025 at 11:00 a.m.

(Venue: Conference Hall, IQAC, Periyar Maniammai Institute of Science & Technology, Thanjavur)

MINUTES

The members as listed in the Annexure were present.

The Chairperson of the Internal Quality Assurance Cell and the Hon'ble Vice-Chancellor, Prof. V. Ramachandran, extended a warm welcome to the distinguished IQAC members in the beginning. The present meeting includes newly appointed members of IQAC, following the recommended composition and guidelines set by NAAC. Mr. V. Anburaj, Member of the Executive Council, welcomed the newly inducted external members and acknowledged their credentials for being part of the IQAC.

The Chairperson presented a summary of the key academic reforms implemented by PMIST such as

a) NBA Revised Program Outcomes.

b) AI tools and application in curriculum.

c) Introduction of modular-based credit banking scheme for awarding PG degrees in engineering, arts and science programmes.

d) Implementing multiple entry and exit options in all degree programmes in line with UGC guidelines.

e) Establishing a Centre for online education and its associated policies.

Chairperson explained the rationale for the academic reforms implemented.

During the 110th IQAC meeting, discussions were held regarding the launch of new programmes, the establishment of new departments, and a range of academic initiatives. Regulatory bodies are continually updating the framework of Outcome-Based Education. In its Graduate Attributes and Professional Competencies Version 4.0, NBA has recently reduced the number of Programme Outcomes from 12 to 11, aligning them with the Washington Accord's Knowledge and Attitude Profile (WKs) for undergraduate Engineering programmes. In the recent Board of Studies meetings conducted, all engineering programmes have incorporated the revised NBA's Programme Outcomes into their curriculum design and development.

Additionally, AICTE has proposed aligning of all courses in the curriculum with the Sustainable Development Goals (SDGs). Each syllabus is included with content mapped to Sustainable Development Goal (SDG) and indicates its corresponding SDG representative figure and number. AICTE has declared 2025 as the "Year of AI" to integrate AI into technical education across India. This initiative seeks to empower students and faculty with AI skills, foster research and innovation, and improve AI applications. Each course begins with specific activities that utilize AI tools. Thirty percentage of courses across all programs in Architecture, Engineering, Arts, Sciences, and Management studies will incorporate AI tools. Examples may be included such as a) Developing a neural network to solve mathematical equations and b) Creating a curriculum on how ChatGPT functions.

Another academic reform introduced "Modular credit banking system" involves the design of the curriculum at the postgraduate level. A new strategy has been created to attract students to postgraduate programs while complying with AICTE and UGC norms and regulations. Curriculum delivery will be provided in a flexible format across nine modules, with each module comprising of 10 credits taking into account the prerequisite courses. Faculty development program or Professional development program will be conducted for duration of 10 days which will cover the requirements of 4 credits of a course. Depending on the number of students enrolled, FDP/ PDP will be conducted either in campus or outside.

The chairperson detailed out on the curriculum of all undergraduate and post graduate programmes that has been developed with Multiple Entry and Multiple Exit options. The curriculum for both UG and PG programs is structured for either a three- or four-year duration, offering various exit options. Students can begin their studies in the I, II, III, or IV year, provided that they meet the entry-level educational qualifications set by the UGC.

The members were also informed about PMIST's credit transfer policy and the establishment of the Course Equivalence and Credit Transfer Committee. A total of 443 students have successfully completed SWAYAM-NPTEL online courses, with 29 students earning Elite and Gold Certifications for the even semester of 2025. Additionally, 21 selected courses have been made available as open electives on the ULektz online platform, and credits for 2,352 students have been transferred in accordance with the PMIST credit transfer policy.

The Chairperson then invited the Director of IQAC to present the agenda items for discussion and to get suggestions from the IQAC members. The Director of IQAC informed the members that the data will

be presented covering the time period from March 2025 to May 2025, that has been aligned with the NAAC's proposed draft transformative reforms. These reforms are designed to enhance the assessment and accreditation of higher education institutions in India and the revised credit framework is expected to be recommended in near future by NAAC for HEI assessment and accreditation.

IQAC111.01   **CONFIRMATION OF THE MINUTES OF THE 110TH MEETING OF THE INTERNAL QUALITY ASSURANCE CELL.**

RESOLVED TO CONFIRM the minutes of the 110th meeting of the Internal Quality Assurance Cell held on 27.02.2025.

The 110th meeting of the Internal Quality Assurance Cell was held on 27.02.2025 in the Conference Hall, IQAC Division and minutes were communicated to the members. No dissents or corrections have been received from the members. Hence, it is decided that the minutes have been confirmed.

IQAC111.02   **TO INFORM ABOUT THE RECONSTITUTION OF THE INTERNAL QUALITY ASSURANCE CELL (IQAC) FOR A TWO-YEAR TERM, FROM THE ACADEMIC YEAR 2025–2026 TO THE ACADEMIC YEAR 2026–2027.**

RESOLVED TO NOTE the reconstitution of the members for Internal Quality Assurance Cell (IQAC), from the AY 2025–2026 to the AY 2026–2027 for a two-year term.

The Internal Quality Assurance Cell (IQAC) has been newly reconstituted as per the recent guidelines and recommended composition for the creation of IQAC released by NAAC. The new members have been given a concise introduction about the PMIST-IQAC, including its roles and responsibilities, as well as an overview of previous accreditation cycles and the upcoming accreditation period of the institution (Fourth Cycle: 2022-2027).

RESOLVED TO RECORD institution's appreciation for the valuable contributions of the previous members of IQAC.

Expressions of gratitude have been officially communicated to the outgoing external IQAC members for their valuable contributions and dedicated service during their tenure.

RESOLVED TO SUGGEST that, due to the previous members familiarity with our assessment process, they may be invited as special invitees to oversee our procedures and offer valuable suggestions during upcoming meetings.

ACTION TAKEN REPORT BASED ON THE MINUTES OF
IQAC111.03   **THE 110TH MEETING OF THE INTERNAL QUALITY**
ASSURANCE CELL.

RESOLVED TO NOTE AND APPRECIATE the action taken by IQAC based on the suggestions received from the members during the 110th IQAC meeting.

The following steps have been taken by IQAC

- A committee was constituted, comprising senior faculty members and administrators as convenors, along with a supporting team for all the ten attributes to oversee NAAC-related activities and streamline the documentation and data compilation process.

- It has been initiated that faculty members who attend FDPs from reputed institutes are required to conduct a knowledge-sharing session within their department or institution. Faculty members about 16% attended FDPs with the financial support of Rs.2,60,000/- from the institution for the period March 2025 -May 2025.

- The institution has made it mandatory for faculty to attend FDPs or online courses. Faculty members are encouraged to choose programmes aligned with their subject specialization (vertical). Knowledge gained is shared through internal presentations and integrated into teaching practices.

- IQAC has organized periodic review meetings with relevant committees.

- All departments have reviewed the salient points highlighted in the External Academic and Administrative Audit conducted from on 29-11-2024 & 30-11-2024 and necessary actions have been taken based on the recommendations provided.

- In order to provide guidance in academics, innovation, and placement opportunities, Two Professors of Practice have been given mentorship for guiding the students.

  a) Dr. Marippan Vaithilingam, Director. Product Engineering, Brahmarsive Inc., Bengaluru and Professor of Practice in the Department of Computer Science and Engineering, has been allocated 20 B.Tech. CSE students from the 2023–2027 batch.

  b) Mr. Malaya Rout, Director of Data Science, Exafluence, Chennai and Professor of Practice in the Department of Informatics, has been allocated 19 M. Sc. Data Science students from the 2024–2026 batch.

RESOLVED TO SUGGEST appointing a greater number of Professors of Practice across all programme. Chairperson conveyed that identifying faculty at various cadre levels from the PoP portal is currently under process.

IQAC111.04 **TO INFORM THE MEMBERS ABOUT THE ACTION TAKEN REPORT ON THE SALIENT POINTS SUGGESTED BY THE EXTERNAL EXPERTS DURING THE ACADEMIC AND ADMINISTRATIVE AUDIT HELD ON 29-11-2024 AND 30-11-2024.**

RESOLVED TO NOTE the actions taken on the salient points suggested by the external experts during the Academic and Administrative Audit held from 29.11.2024 -30.11.2024.

- Regular Faculty Development Programmes (FDPs) are conducted to enhance faculty competency in innovative teaching methods and research, as recommended in the audit to increase the number of such programmes.

- To address misconceptions about Outcome-Based Education (OBE) among young faculty members, as highlighted by the audit, Six-day Faculty Development Programme was organized titled "Empowering Educators: Mastering OBE." This programme was conducted in two sessions, from December 26, 2024, to January 2, 2025, and from February 3, 2025, to February 8, 2025, to ensure young faculty members grasp the principles and implementation of OBE effectively.

- Seven domain-specific clubs are currently active, including the Aero Club, Robotics Club, Energy and Environment Club, Police Cyber Club, Standards Club, Citizen Consumer & Electoral Literacy Club, and Rationalist & Humanist Club. In response to the audit members' recommendations, it has been decided to establish additional domain-specific clubs in each department, such as the FinTech Club, Coders Club, and Biodiversity Club, to promote specialized knowledge and encourage peer collaboration.15 students and 5 faculty members have registered in IEEE Chapter, PMIST.

- Two mentoring training programmes for faculty members have been conducted on 01-02- 2025 and 01-03-2025.

- Faculty Development programme on "AI for Teachers: Enhancing Teaching Effectiveness with SMART Tools" was organized for faculty members to adopt ICT tools for teaching on 26-04-2025 for faculty members as per the suggestion given by the audit members to adopt more number ICT tools in teaching.

- To enhance international collaborations, as noted by the audit members, three Memoranda of Understanding (MoUs) have been signed with global institutions.
    a) Taylor's University, Malaysia
    b) Southern Methodist University, USA
    c) Cape Breton University, Canda (Renewed for five years form February 2025)

- The institution has developed incentive policies to motivate faculty members toward academic publishing and e-content development. Faculty will be rewarded with Rs. 15,000 for authoring books with reputed publishers and Rs. 3,000 per book chapter (up to five chapters per book). Additionally, Rs. 15,000 will be provided for developing e- content for their courses, promoting digital learning and academic excellence.

- Emphasis is given to map the Course Outcomes (COs) of higher semester courses of undergraduate programmes, courses of postgraduate programmes, and research programmes in alignment with Bloom's Taxonomy and included in courses of Regulation 2024. COs and mapping with POs were revisited during the recent Board of studies conducted for all programmes.

- CO attainment for the odd semester courses of the academic year 2024–2025 has been analyzed by each department across all programmes, and initiatives for continuous quality improvement have been undertaken.

- Industry experts have been included as members of the Board of Studies for all programmes to strengthen the Outcome-Based Education (OBE) framework.

- As per the suggestion given to obtain 12B status, the institution has taken proactive steps to fill all sanctioned teaching posts in accordance with UGC norms. Recruitment processes have been initiated through advertisements, adhering strictly to prescribed eligibility criteria.

- As per the suggestion of the audit members, Low-demand programmes such as B.Sc. Mathematics, B. Sc. Chemistry, B.Sc. Physics, B.A. Journalism and Mass Communication, B.A. Tamil, M.A. History and M.A. Tamil have been identified, and a decision has been made to defer these programmes for the academic year 2025–2026. Measures have also been initiated to reallocate faculty from these departments to enhance faculty retention.

- As per the recommendations included upgrading research facilities, Laboratory and research facilities have been enhanced through the procurement of key equipment and software, including a Lyophilizer instrument, FTIR, MATLAB, and LabVIEW software. Upcoming additions include an electrospinning instrument, Water Distillation Unit, and the establishment of a dedicated Food Technology Laboratory.

- The number of library books (212 volumes) has been significantly increased to support academic needs.

- Necessary improvements have been implemented based on the Feedback received from hostel

- It is proposed to expand research facilities in AI, Cybersecurity and renewable energy in phased manner, ensuring sustainable campus practices aligned with SDG goals.

	TO INFORM THE MEMBERS ABOUT THE PROPOSAL FOR IMPLEMENTING MULTIPLE ENTRY AND EXIT OPTIONS IN ALL DEGREE PROGRAMMES IN LINE WITH UGC GUIDELINES
IQAC111.05	

RESOLVED TO NOTE AND APPRECIATE the proposal taken for implementing multiple entry and exit options in all degree programmes in line with UGC guidelines.

The students can enter into the programme of study in I / II / III / IV year after satisfying the entry level educational qualification requirements given by UGC.

The curriculum of UG and PG programmes are designed with either three or four- year duration with the following exit options.

The following tables were presented to the members

Table 1: Undergraduate Exit Options for Science, Humanities, and Management Programmes

Sl. No.	Exit Option (after)	Minimum Credits to be Earned	Additional Credits Requirement	Certification
1	I Year	44	6 - 8	UG Certificate
2	II Year	90	6 - 8	UG Diploma
3	III Year	140	-	UG Degree
4	IV Year	180	-	UG Degree (Honours)
5	IV Year	180 credits out of which 12 credits from Project / Dissertation	-	UG Degree (Honours with Research)

Table 2: Undergraduate Exit Options for Engineering and Technology Programmes

Sl. No.	Exit Option (after)	Minimum Credits to be Earned	Additional Credits Requirement	Certification
1	I Year	45	8 - 10	UG Certificate
2	II Year	90	8 - 10	UG Diploma
3	III Year	140	8 - 10	B. Tech. Voc.
4	IV Year	180	-	B. Tech.
5	IV Year	180	18 - 20	B. Tech. (Honours)
6	IV Year	180	18 - 20	B. Tech. with Specialization Minor

Table 3: Postgraduate Exit Options for Science, Humanities, and Management Programmes

Sl. No.	Entry Qualification	Exit Option (after)	Minimum Credits to be Earned	Certification
1	3 Year UG Degree	I Year	40	PG Diploma
2	3 Year UG Degree	II Year	80	PG Degree
3	4 Year Honours / Honours with Research	I Year	40	PG Degree

Table 4: Postgraduate Exit Options for Engineering and Technology Programmes

Sl. No.	Entry Qualification	Exit Option (after)	Minimum Credits to be Earned	Certification
1	4 Year UG Degree	I Year	40	PG Diploma
2	4 Year UG Degree	II Year	80	PG Degree

RESOLVED TO NOTE AND APPRECIATE the proposed amendment for academic flexibility in Clause R16 (Eligibility for the Award of Degree) in the Regulations 2024 by incorporating the Multiple Entry and Multiple Exit Options at defined stages of the undergraduate and postgraduate programmes (e.g., after the first / second / third / fourth year) as recommended by the UGC.

RESOLVED TO SUGGEST to include the Multiple entry and exit in the examination e governance modules

RESOLVED TO NOTE AND APPRECIATE the proposal for offering Single Major / Double Major / Minor Degree. The Major / Minor degree may be awarded in undergraduate programmes in the Science, Humanities, and Management streams. The credit requirements for undergraduate programmes in Science, Humanities, Commerce, and Management to award major and minor degrees are provided in Table 5.

Table 5: Major and Minor Degree Options for UG Programmes

Sl. No.	Completion Year	Certificate / Diploma / Degree	Credit Requirements
1.	Three / Four years	UG Degree in Single Major	Minimum of 50% of credits from the major discipline
2.	Three / Four years	UG Degree in Double Major	Minimum of 50% of credits in the first major discipline and 40% of credits in second major discipline
3.	Three / Four years	UG Degree with Major in One Discipline and Minor in another Discipline	Minimum of 50% of credits in Major discipline and 10% of credits in another discipline

IQAC111.06	**TO INFORM THE MEMBERS ABOUT THE PROPOSED MODULAR-BASED CREDIT BANKING SCHEME FOR AWARDING PG DEGREES IN ENGINEERING, ARTS AND SCIENCE PROGRAMMES.**

RESOLVED TO NOTE AND APPRECIATE the proposed modular credit banking scheme for awarding PG degrees in Engineering, Arts and Science programmes.

Periyar Maniammai Institute of Science & Technology proposes to introduce a Modular-Based Credit Banking Scheme for selected Postgraduate Degree Programmes in the domains of:

- Computer Science and Engineering (M. Tech.)
- Renewable Energy (M. Tech.)
- Environmental Engineering (M. Tech.)
- Wireless Communication (M. Tech.)
- Nanotechnology (M. Tech.)
- Power Electronics and Drives (M. Tech.)
- Data Science (M.Sc.)
- Computer Science (Immersive Technologies) (M.Sc.)
- Computer Science (M.Sc.)

This initiative aims to provide a flexible academic structure that allows learners to accumulate credits earned over time, thereby enabling them to obtain a PG degree upon fulfilling the minimum academic requirements.

Salient Features of the Scheme:

- Admission to the modular PG programmes shall follow the eligibility norms prescribed by AICTE and UGC.
- Candidates with appropriate undergraduate qualifications in the relevant disciplines will be eligible to register for these modular programmes.

- A total of 80 to 90 credits must be accumulated by the candidate to be eligible for the award of the PG Degree.

- Each module will consist of 10 to 12 credits, allowing flexibility in choosing, sequencing, and completing modules. The modular curriculum will help students to learn in a clear and organized way.

- Each module will have specific prerequisites to ensure academic standards are maintained. Candidates must fulfil the required prerequisites to register for any specific advanced module.

This programme will be offered in three modes:

- Physical contact hours (offline)
- Online mode (through SWAYAM Plus or other approved online platforms)
- FDP mode (ranging from a minimum of 15 hours to a maximum of 45 hours per module).

The online mode of study will adhere to the permissible limits prescribed by AICTE / UGC. Up to 40% of the total credits can be earned through approved online platforms (e.g., SWAYAM, NPTEL, or equivalent).

For both the online mode and FDP, continuous assessments and end-semester examinations will be conducted as per the PG regulations.

Instructional sessions for each module will be conducted in a flexible time format - 2 physical hours per day, either in the morning or evening - to enable candidates to attend online courses and Faculty Development Programmes, thereby enabling lifelong learning. This approach will also promote research activities on campus by providing more time for innovative thinking and further exploration.

Continuous Internal Assessments and End Semester Examinations will be conducted as per the prevailing norms of PMIST. Evaluation methods and grading patterns shall remain the same as that of the regular PG programmes.

Faculty Development Programmes and Professional Development Programmes will be conducted periodically.

Experts from reputed academic institutions and industry will be invited to deliver lectures and share insights with learners and faculty.

Apart from the mode of delivery and flexible modular structure, all academic regulations, policies, and degree awarding conditions shall be in line with the regular PG programmes offered at PMIST.

The modular credit banking scheme will ensure academic equivalence and recognition as per UGC guidelines.

Credit Requirement for PG Degree Completion:

- To be eligible for the award of the PG Degree, a candidate must successfully accumulate a minimum of 90 credits through sequential module registrations, internal assessments, and end-semester examinations.
- Candidates may register for one or more courses in a module, subject to fulfilling the prerequisites. All fees are to be paid in accordance with the academic schedule and payment instructions issued by the Institute. Upon approval, this scheme will be implemented from the forthcoming academic year 2025 - 2026.

IQAC111.07 **TO INFORM THE MEMBERS ABOUT THE PROPOSAL TO ESTABLISH A CENTRE FOR ONLINE EDUCATION AND ITS ASSOCIATED POLICIES.**

RESOLVED TO NOTE AND APPRECIATE the proposal to establish a Centre for online education and its associated policies.

UGC has introduced guidelines that promote self-directed learning through online education, enabling students to earn up to 40% of their total course credits via online platforms. PMIST has adopted online courses from SWAYAM and other MOOC platforms of reputed institutions for credit transfer, in accordance with UGC's Credit Framework Regulations and PMIST Academic Regulations 2024.To facilitate seamless credit transfer from MOOCs like SWAYAM and NPTEL, and promote self-directed learning, the establishment of a **"Centre for Online and Blended Learning"** at PMIST is essential. The centre will streamline course equivalency verification, provide student and faculty support, ensure quality assurance, and enhance blended learning. By serving as a dedicated hub for online education, the centre will strengthen PMIST's digital learning ecosystem and align with emerging academic trends.

To provide a structured and consistent approach to online education, PMIST has developed a dedicated policy on online learning. This policy ensures the quality and fairness of course design, delivery, and assessment. It also supports students and faculty in adapting to digital learning environments, addressing key areas such as academic integrity, student participation, faculty development, and online evaluations.

IQAC111.08 **TO INFORM THE MEMBERS ABOUT THE INITIATIVES TAKEN TO PROMOTE ACADEMIC ACTIVITIES.**

RESOLVED TO NOTE AND APPRECIATE the Establishment of a separate division for exploring Indian Knowledge System (IKS).

UGC has issued guidelines for the incorporation of Indian Knowledge Systems (IKS) into the curriculum at all levels of education. UGC emphasizes that a few immersive sessions on Yoga, Meditation, Ayurveda, Classical Music, Indian Craft traditions, etc., should be organized to provide students with experiential grounding in various aspects of IKS.

Establishing a division for promoting Indian Knowledge Systems in our institute is essential for integrating IKS into modern education and fostering a more holistic, culturally grounded learning experience. The division will be called as the Division of Indigenous Knowledge and Cultural Studies (DIKCS) and will function under the Department of Foundation Courses.

Responsibilities of the DIKCS are to:

- Work with academic departments to design interdisciplinary courses and content related to Indian Knowledge Systems.
- Provide training for faculty to incorporate IKS themes into teaching.
- Conduct national and international conferences, seminars, and publications.
- Develop MOOCs and e-content to make IKS accessible to a wider audience.
- Host programmes to revive traditional practices in agriculture, crafts, and health within local communities.
- Provide consultancy for cultural and traditional knowledge integration in projects.

- Develop archives, libraries, and physical infrastructure to support IKS education and research.
- Maintain collaborations and funding for sustaining and expanding the Centre's activities.
- Identify key areas of research and support scholars through funding, mentorship, and publication assistance.

RESOLVED TO NOTE AND APPRECIATE the framing of Programme Outcomes (POs) for PG Programmes – Academic Year 2025–2026.

The proposed Programme Outcomes for the PG programmes were presented to the members. Programme Outcomes (POs) for all Postgraduate (PG) programmes to be offered during the academic year 2025–2026 across various disciplines are being framed, ensuring alignment with statutory guidelines and national academic frameworks. These POs are structured to reflect the academic objectives, professional competencies, and research capabilities expected at the postgraduate level. Each group of PG programmes - Engineering programmes, M.Com. and M.B.A. programmes, M. Arch. Programme, M.Sc. Programmes under the Faculty of Computing Science and Applications, other M.Sc. Programmes under Faculty of Science and Humanities, and MA programmes - has its distinct set of POs tailored to the specific educational and professional outcomes pertinent to the field, while maintaining consistency with national regulatory standards and quality benchmarks.

IQAC111.09   **TO INFORM THE MEMBERS ABOUT THE INITIATIVES TAKEN TO PROMOTE THE RESEARCH AND INNOVATION ACTIVIITES**

RESOLVED TO NOTE AND APPRECIATE the initiatives taken to promote the research and innovation activities.

a) Recognizing the vital role of research in academic and institutional development, research incentives amounting to Rs. 2 lakhs were provided in February 2025 to faculty members for 54 Web of Science publications, 11 book chapters, and 2 granted patents published in the year 2024.

b) A Memorandum of Understanding (MoU) with the premier institution, Cape Breton University, Canada, has been renewed for five years, with effect from 28-02-2025.

c) The institution has procured AICTE approved DrillBit Plagiarism Detection Software as part of its continuous efforts to enhance academic and research integrity for a period of one year from April 2025 – March 2026. This supports the institution's commitment to upholding ethical standards in research and academic writing. DrillBit will be made accessible to faculty members, research scholars, postgraduate, and undergraduate students.

RESOLVED TO SUGGEST organizing a greater number of hackathons The third edition of the Tamil Nadu Women in Science and Engineering (TNWISE) 2025 Hackathon, an exclusive event for women in STEM, was organized by the Tamil Nadu Centre of Excellence for Advanced Manufacturing (TANCAM) in collaboration with PMIST and Periyar TBI on 21-03-2025. Over 900 students from more than 80 institutions across Tamilnadu participated enthusiastically in 367 teams under the theme 'Water and Agriculture' marking World Water Day 2025.

RESOLVED TO NOTE the process of strengthening research and innovation, PMIST is in the process of submitting data for Scientific and Industrial Research Organization (SIRO) recognition by the Department of Scientific and Industrial Research (DSIR), Government of India. This initiative will enhance the institution's research credibility and open up opportunities for various benefits, including eligibility for customs duty exemption on research equipment, access to government- sponsored research grants, and increased industry collaboration. SIRO recognition will further empower PMIST to foster a robust research ecosystem aligned with national development goals.

IQAC111.10	**TO INFORM THE MEMBERS ABOUT THE PROGRESS MADE ACROSS VARIOUS METRICS OF THE TEN ATTRIBUTES IN THE PROPOSED NAAC REFORMS 2024.**

RESOLVED TO NOTE the progress made across various metrics of the ten attributes in the proposed NAAC reforms 2024.

a. Curriculum Design

As part of initiative to introduce online and blended learning, following 34 courses from recognized platforms have been integrated into the curriculum.

Table 6 ULektz Online Courses

Sl. No.	Name of the Course	No. of Credits
1	Landscape and Gardening	3
2	Introduction to Interior Design	3
3	Elements of Aeronautics	3
4	Human Resource Management	3
5	Biosafety Management	3
6	Remote Sensing and GIS	3
7	Building Services	3
8	Sustainable Engineering	3
9	Fundamentals of Web Designing	3
10	Introduction to Artificial Intelligence	3
11	Display Systems	3
12	Human Assist Devices	3
13	Renewable Energy Technology	3
14	Electrical Vehicle and Power Management	3

15	Strengthening Your Communication Skills	3
16	Product Design and Development	3
17	Renewable Energy Sources	3
18	Electrical and Home Appliances	3
19	Gender Issues and Development	3
20	Life Coping Skills	3
21	Introduction to Entrepreneurship Development	1

Table 7 NPTEL Online Courses

Sl. No.	Name of the Course	No. of Credits
1	Remote Sensing and GIS for Rural Development	3
2	Artificial Intelligence (AI) for Investments	3
3	Strategies for Sustainable Design	3
4	Management of Inventory Systems	3
5	Principles of Industrial Engineering	3
6	Introduction to Large Language Models	3
7	Sensors and Actuators	3
8	Forest and Their Management	3
9	Basic Constructions Materials	3
10	Chemistry of Main Group Elements	3
11	Data Science for Engineers	3
12	Modern Computer Vision	3
13	A Study Guide in Organic Retrosynthesis Problem Solving Approach	3

b. Faculty resources

Total number of Full-time teachers as on 20-05-2025	283

Cadre-wise faculty strength:
- Number of Professors - 25
- Number of Associate Professors - 37
- Number of Assistant Professors - 221

Number of Professors of Practice in position	06
Number of Full-time teachers with Ph.D.	141

c. Infrastructure

Establishment of Food technology laboratory and purchase of laboratory equipment	Rs. 25,75,833/-
Purchase of DrillBit plagiarism check software	Rs. 85,000/-
Purchase of Books (212 volumes) by Library	Rs. 2,50,196/-
Membership – DELNET	Rs. 13,570/-

d. Learning and Teaching

No. of students completed online certificate courses through NPTEL / SWAYAM (Jan. 2025 – May 2025)	263
No. of e-content modules developed by faculty members in 4 Quadrants	22
Number of online open elective courses offered by faculty members in ULektz online learning platform	21
Number of faculty members completed NPTEL – AICTE FDPs	26
Number of lectures delivered by industrial experts	14
Number of Collaborative workshops / seminars / conferences organized with industry and stakeholders	03
Number of Field / Industrial visits	03

e. Extended Curricular Engagements

Number of Domain clubs	06
Number of activities organized through Domain clubs	04
Number of Cultural clubs	07
Number of activities organized through Cultural clubs	07
Student Mentoring activities Training programme organized for faculty members to identify student psychological issues	01
Number of courses offered on Value Education • Universal Human Values • Professional Ethics • Business Ethics • Professional practice	04
Number of students participated in the sports events organized by other institutions at State level (Sri Ramachandra Iyer Tournament 2025 organized by SASTRA University, Kumbakonam)	54
Number of community focused activities organized • NSS – 7 activities • NCC – 3 activities • Centre for Rural Development – 10 activities in the five UBA adopted villages	19

f. Governance and administration

Number of training programmes conducted for placement • Soft skills training – 01 • Aptitude Development – 01 • Mentoring / Career Counseling for Employability – 01 • Pooled Job fair – 01	04
Number of programmes organized by Gender Champion Club	02

ABC Implementation

Total ABC Accounts created	6184
Degree certificates uploaded	3360
ABC IDs seeded with credit data	6938
Total marksheets uploaded	10634

e-Governance Modules developed

- Course registration for Redo
- Admission Counselling Call letter
- Extension of Examination and Evaluation system module as per Regulations 2024

Number of National and International Collaborations • National – 23 (research collaboration) • International – 12 (research collaboration)	35
Percentage of Full-time teachers retained during the last three years (124 / 283)	44

g. Student Outcomes

No. of students qualified GATE Examination 2025 • Mr. K. Deekshad (121012016251) Aerospace (2021-2025) • Mr. Akash Selvam (122012101448) Biotechnology (2022-2026) • Ms. S. Shama Anzum (121011001911) Architecture (2021-2026) • Mr. R. Nandagopal (120012001865) Architecture (2020-2025)	04
Number of external academic awards and recognitions received by the students	20
Number of external awards / medals received by students for outstanding performance in sports	54
No. of students Placed through 23 placement drives (March 2025 to May 2025)	313

h. Research and innovation outcomes

Number of research project proposals submitted to various funding agencies for external research grants	04
Number of research projects funded by TNSCST (Total Rs. 80,000/-) • For organizing Workshop – 01 (Rs. 50, 000/-) • Student Project – 04 (Rs. 7,500/- each)	05
Number of research publications • WOS – 19 • Scopus – 12	31
Number of Books published	10
Number of Book chapters published	234
Average h-index from Scopus + WOS (last three years)	14
Average citation index from Scopus + WOS (2024)	136
Number of research scholars completed Ph.D.	02
Number of research scholars submitted thesis	01
Number of research scholar submitted synopsis	02
Number of patents published	01

Revenue generated through consultancy and training – Rs. 11,69,693/-

i. Sustainability Outcomes and Green Initiatives

Number of community activities conducted	19
Number of students participated in community activities	602

RESOLVED TO NOTE AND RECORD the steps taken to adhere the Institutional Compliance with Government Order on Student Safety and Safe Campus Initiatives.

The State Government of Tamil Nadu has issued Government Order (G.O. (Ms) No. 7, Higher Education (K2) Department, dated 10.01.2025), providing instructions regarding comprehensive measures for students' safety within the premises of Higher Educational Institutions under the aegis of the Higher Education Department, along with safe campus initiatives aimed at improving safety, security, and transparency in the respective campuses. Accordingly, action has been initiated to ensure strict implementation.

RESOLVED TO RECOMMEND the following suggestions after reviewing the data presented pertaining to various attributes.

- Emphasized that data should be presented in three dimensions, specifically in terms of percentages. Criteria-wise details be displayed as "targeted" versus "achieved" to provide members with a clear view of the progress made and to facilitate providing suggestions. It is a type of quality audit designed to assess the transformations that have occurred within the higher education institution (HEI).

- Suggested that Deans may plan for sending the faculty members to Faculty Development Programmes and also to ensure that 100% of faculty members attend the Programme;

- Hackathons to be organized by inviting students from outside and also students are to be encouraged to participate in the Hackathons organized by Ministries.

- Actions must also be implemented to reduce the retraction rate of faculty members' publications by ensuring a high-quality publication process.

- Recommended to improve the International MoUs, through faculty visits and faculty and student exchange to happen periodically.

- The number of enrolled students for each student club, and the activities conducted by the club to be specified.

- It is recommended to present the number of beneficiaries alongside each activity for community engagement activities.

- Regarding misconception of OBE by young faculty members suggestion given to train Six Deans on OBE who in turn will educate their faculty. The Deans will attend to the minor details to ensure the smooth operation of the Outcome-Based Education (OBE) system.

- Emphasized that the syllabus should be designed to accommodate the higher order cognitive level K6 if we are truly prepared to develop content at that level.

- Suggested implementing open book examinations. The Chairperson responded that faculty members need to be trained in developing complex questions before adopting the open book examination system.

- Advised to develop AI policy.

- Suggested that each department prepare a comprehensive report covering all relevant metrics.

- Suggested that faculty may involve students to give oral presentations when submitting assignments to assess level of their content preparation.

- Suggested to keep the UGC NET exam syllabus as a model during revision of curriculum.

- Referred to a course titled "Irumbin Thonmai" on the Indian Knowledge System, which could be offered as part of the Mechanical Engineering programme.
- For the course on Vedic Mathematics, suggestions provided for inviting professors from other universities who are experienced in teaching that specific subject.
- Internet usage of students may also be measured and reported.
- The status of availability of AI infrastructure and licensed AI tools may be improved.
- Suggested that faculty members may need training on the AI model to effectively integrate it into the teaching process.

  The current practice of "mastery to slavery" highlights how AI has the ability to change from a tool that improves human capabilities to a system that exerts control, influences decision-making and may even cause dependence. AI can occasionally make conceptual errors; therefore, a search query may refer to combination of words that entered in search engines for gather information. AI infrastructure contains plenty of guard rails. The guard rails are crucial to the responsive use of AI. Faculty must be trained on communicating with AI safely and effectively. Both consumer and learner engagement with Generative AI is increasing. It offers numerous benefits for learners ranging from personalized learning experiences. Teachers can enhance their teaching sessions in creative ways.
- Suggested to provide training to educate them on the company's methodology. Adopting situations and reaching the employer by the students must be the main goals of the training.
- Suggested that students may be guided for further studies. Members were informed that at present Mentors are guiding them for both placement and higher education.

- Suggestion given that display may be kept for making the students aware of PG programmes.

- The institution may invite Panchayat Presidents and Councilors to participate in community engagement events. Institution may jointly organize community engagement activities with Clean Thanjavur Movement and Periyar Providing Urban amenities in Rural Areas (Periyar PURA) apart from curriculum.

- Suggested that open book and closed book examinations may be used to compare students' performance.

- Training for GATE examination, Competitive examination should be conducted.

- Suggested to promote Prompt Engineering in order to effectively use Language Models for a wide range of teaching applications.

IQAC111.11 **TO INFORM THE MEMBERS ABOUT THE QUALITY INITIATIVE PROGRAMMES ORGANIZED BY IQAC FOR THE FACULTY MEMBERS AND STUDENTS FROM FEBRUARY 2025 TO MAY 2025**

RESOLVED TO NOTE that quality initiative programmes organized by IQAC for the faculty members and students from February 2025 to May 2025.

The IQAC, in association with Departments of Mechanical Engineering, Civil Engineering and Electrical and Electronics Engineering, conducted a special lecture programme on Behavior Based Safety for students on 07-04-2025. The session, led by Mr. A. K. Ananthan, Retired Engineer, BBS & QMS System, Petroleum Projects, Chennai, aimed to promote awareness of safe practices, instill personal responsibility, and equip students to identify and correct unsafe behaviors, thereby minimizing risks in academic and future workplace settings.

As part of ongoing quality assurance efforts, the IQAC organized a workshop series on *"NAAC New Reforms 2024"* for the newly inducted attribute convenors. Workshops were conducted on 17-04-2025, 23-04-2025 and 25-04-2025, with the objective of familiarizing faculty members with the revised NAAC framework and updated assessment protocols. The sessions focused on key changes in the 2024 reforms, including the outcome-based metric system, data validation procedures, and enhanced documentation practices. Special emphasis was placed on aligning departmental activities with the metrics mentioned in the new reforms to enhance preparedness for future assessments.

As part of its continuous quality enhancement efforts, the IQAC organized a Faculty Development Programme titled "AI for Teachers: Enhancing Teaching Effectiveness with SMART Tools" for faculty

members. The session was facilitated by Dr. TKS Lakshmipriya, Academic Consultant, Coimbatore, on 26-04-2025. The FDP included hands-on sessions, allowing participants to explore and apply AI-based teaching tools in real-time, fostering practical learning and immediate implementation. The programme aimed to equip faculty with AI-powered tools to enhance classroom engagement and instructional efficiency. It also focused on integrating SMART technologies into pedagogy to align with evolving educational trends and learner expectations.

	TO INFORM THE MEMBERS ABOUT THE
IQAC111.12	**IMMEDIATE PROPOSALS PLANNED FOR QUALITY ENHANCEMENT**

RESOLVED TO NOTE the following proposals planned for quality enhancement.

a) Fourier Transform Infrared (FTIR) Spectroscopy system has been purchased and installed in the Central Instrumentation Laboratory. It will help to enhance research capabilities in material characterization and chemical analysis. This equipment will support interdisciplinary research in science and technology. Additionally, the availability of FTIR is expected to open avenues for consultancy and testing services, thereby contributing to institutional revenue and collaboration.

b) Physical infrastructure development is planned over the next six months to enhance institutional facilities. Construction of additional floor at PKC Extension Block and Architecture Block will commence shortly to support academic and administrative needs. As part of this initiative, two state-of-the- art computer laboratories will also be established for the Department of Computer Science and Engineering. These developments aim to strengthen the learning environment and technological resources on campus.

c) Twelve Faculty members will attend industrial training by TANCAM for a period of 30 days from 09.06.2025 to 04.07.2025. The areas of training are Product Design modeling, Wiring Harness Design Engineering, Advance Simulation, Product Life Cycle Management using ENOVIA.

d) IQAC has planned to conduct programmes for Faculty Sensitization on NAAC Reforms and Outcome-Based Education.

e) Community engagement activities have been planned in collaboration with industries, NGOs, and professional bodies to create social awareness on key societal and environmental issues.

QAC111.13   **OTHER ITEMS IF ANY WITH THE PERMISSION OF THE CHAIR.**

RESOLVED TO APPRECIATE the quality initiatives and academic reforms taken by the Institution.

RESOLVED TO ENCOURAGE the faculty members to attend industrial training for 2 months periods in two slots.

RESOLVED TO SUGGEST admitting a greater number of fulltime research scholars in order to increase number of quality publications.

IQAC111.14	**TO FIX THE DATE AND TIME FOR THE NEXT MEETING OF THE INTERNAL QUALITY ASSURANCE CELL.**

RESOLVED TO CONDUCT the next meeting of the Internal Quality Assurance Cell tentatively on 13.09.2025 (Saturday) at 11:00 am.

DIRECTOR /IQAC

Copy to members of IQAC

PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY

111th MEETING OF THE
INTERNAL QUALITY ASSURANCE CELL

Held on 06.06.2025 at 11:00 a.m.
(Venue: Conference Hall, IQAC, PMIST)

ANNEXURE I - MEMBERS PRESENT

Sl. No.	Name	Designation
1.	Dr. V. Ramachandran	Vice-Chancellor
2.	Mr. V. Anburaj	Executive Council Member
3.	Dr. R. Malliga	Pro - Vice Chancellor
4.	Dr. P. K. Srividhya	Registrar
5.	Dr. R. Jayanthi	Director (i/c) / IQAC
6.	Dr. V. Violet Juli	Dean (Academic Courses)
7.	Dr. J. Jeyachidra	Dean (Learning and Development)
8.	Dr. D. Jeyasimman	Director, Academic Research
9.	Dr. S. Arumugam	Controller of Examinations
10.	Dr. P. Guru	Director (i/c) CIII
11.	Dr. N. Jayanthi	Associate Professor / Commerce

Sl. No.	Name	Designation
12.	Dr. P. Ilangovan	IQAC Co-coordinator
13.	Dr. G. Sundarambal	IQAC Co-coordinator
14.	Dr. M. Jayakumar Former Professor, Bharathiyar University, Coimbatore	Academic Representative
15.	Dr. B. Radhika Michael Secretary, Clean Thanjavur Movement, Thanjavur	Local Society Representative
16.	Dr. S. Margaret Anouncia, Professor, School of Computer Science and Engineering Director, Faculty-Staff Welfare, VIT, Vellore	Alumni Representative
17.	Dr. Ravikumar Ramadoss Co-Founder& CTO, Pix Monk Solutions Pvt Ltd, Thanjavur	Employers Representative
18.	Mr. Kennithraj Anbu Founder & CEOTRNASEN Dynamics Chennai	Industry Representative
19.	Mr. S. Alagiri (F/o A. Chakaravarthini IV B. Arch) Teacher, Veeraraghava Higher Secondary School, Thanjavur	Parent Representative
20.	Mr.M.Udayakumar (F/o U.R.Harishkumar, I - B.Tech ECE (2025-2029)), No.7, Selva Complex, Victoria Nagar, Thanjavur	Parent Representative