



SULLAMUSSALAM  
SCIENCE COLLEGE

# PROJECT PERFORMANCE ASSESSMENT REPORT (2023–24)

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Submitted by

**PROJECT QUALITY ASSURANCE COMMITTEE (PQAC)**

SULLAMUSSALAM SCIENCE COLLEGE, AREEKODE

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## **About PQAC**

In July 2022, Sullamussalam Science College, Areekode, took a major step toward enhancing research quality by forming the Project Quality Assurance Committee (PQAC), an initiative of the Research Consultancy and Extension Cell. Our journey began by engaging with every department to understand their project execution methods, challenges, best practices, and suggestions for improvement. From these discussions, we developed comprehensive PQAC guidelines aimed at standardizing projects and ensuring high-quality outcomes, such as publications, patents, and skill-oriented projects.

We also established a system to collect yearly progress and feedback from all stakeholders, which has significantly refined our approach. As a result, students have achieved remarkable milestones—presenting at national and international conferences, publishing in ISBN books and ISSN journals, and filing patents. The introduction of best project and presentation awards has further motivated students, and their achievements are now documented in annual research reports published with ISBNs.

These efforts have not only imparted a strong research culture within the college but have also underscored the importance of quality and impactful projects for students' academic and personal growth. Students now recognize how these practices contribute to their success, both academically and personally, laying a strong foundation for their future endeavors.

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## **PQAC – PROJECT PERFORMANCE ASSESSMENT REPORT (2023-24)**

This report provides a comprehensive assessment of project performance, dividing the analysis into UG (Undergraduate) and PG (Postgraduate) sections. Key indicator questions are used to evaluate conference participation, paper presentations, publications, patents, innovations, student engagement, and departmental practices. This analysis is purely based on the inputs submitted in the PQAC annual review form by respective project co-ordinators.

### **Consolidated Outcomes of UG/PG Project during 2023-24 academic year**

<b>Items</b>	<b>UG</b>	<b>PG</b>	<b>Total</b>
Participations National Seminar/ Conferences	4	82	<b>86</b>
Presentations National Seminar/ Conferences	1	48	<b>49</b>
Participations International Seminar/ Conferences	90	72	<b>152</b>
Presentations International Seminar/ Conferences	14	40	<b>54</b>
No. of Authors having ISSN/ISBN publications	86	13	<b>99</b>
No. of Authors having UGC Care/Scopus/ABDC/Peer-reviewed Journals	7	3	<b>10</b>
No of Patents(filed/applied)/ Innovations	0	1	<b>1</b>
No. of Best paper/presentation awards (Outside the College)	0	1	<b>1</b>
No. of Project related events conducted during the year	26	13	<b>39</b>
No. of Department Journal with/without ISBN	3	1	<b>4</b>
No. of departments have Project Repository (soft copy)	5	5	<b>10</b>

The outcomes show a strong engagement in academic activities, particularly at the postgraduate level, with significant participation in both national (86) and international (152) seminars/conferences. Presentation rates are also high, with 49 at national and 54 at international events. Publications are a notable achievement, with 99 authors having ISSN/ISBN publications and 10 authors in UGC Care/Scopus/ABDC/peer-reviewed journals. While one patent has been filed and a best presentation award received, the college has also been active in organizing 39 project-related events. Additionally, 10 departments maintain project repositories, and 4 have published journals, reflecting a strong emphasis on research and academic development.

## **UG (UNDERGRADUATE) SECTION ASSESSMENT**

### **✚ Participation in National and International Seminars/Conferences**

#### ▪ **National Seminars/conference:**

- Commerce and Computer Science lead with 2 students each attending national seminars.
- Other UG departments, including Physics, Economics, History, and Mathematics, show no participation, highlighting a need for greater encouragement and support.

#### ▪ **International Seminars/conference:**

- Commerce performed well, with 6 students participating in international seminars, leading the UG section.
- Mathematics saw a surprising 48 students attending international seminars, which is a commendable achievement for a UG department. However, other UG departments (Physics, Economics, History) had 0 participation.

### **✚ Paper Presentations at National and International Seminars/Conferences**

#### ▪ **National Presentations:**

- Computer Science and Commerce had one and zero students presenting papers, respectively. This is an area where UG departments should improve by encouraging more student engagement.

#### ▪ **International Presentations:**

- Commerce shows excellent participation, with 6 students presenting at international conferences. However, UG Physics, Economics, History, and Mathematics had no representation in this category, indicating that departments need to support and motivate students more actively to present their work.

### **✚ Publications (ISSN/ISBN and UGC-Care/Scopus/ABDC/Peer-reviewed)**

#### ▪ **ISSN/ISBN Publications:**

- UG Computer Science excelled in this category, with 32 authors having publications, followed by Economics with 30 publications. Other UG departments

such as History, Physics, and Mathematics had no publications, indicating a gap in research culture and output.

- **UGC-Care/Scopus/ABDC/Peer-reviewed Journals:**

- Computer Science led with 7 authors publishing in high-quality journals. Other departments had no contributions, which signifies a need to emphasize higher-tier research publication.

- ✚ **Patents/Innovations**

- UG departments had no patents or innovations recorded, which highlights the need for UG sections to foster innovation, guide students in intellectual property, and conduct patent-awareness workshops.

- ✚ **Best Paper/Presentation Awards (Outside the College)**

- UG departments did not receive any external awards, suggesting a need to promote participation in competitive academic platforms and encourage students to excel beyond institutional levels.

- ✚ **Project-related Events and Best Practices**

- Commerce conducted 5 project-related events, leading the UG section. Other departments such as History and Mathematics had only 2 events, while Computer Science led the way with 4 events.

- **Best Practices in UG departments:**

- Commerce focuses on frequent evaluations and seminar participation, while History emphasizes project presentation skills.
- Computer Science implemented research-level projects and publications, which is a commendable practice for UG students.

- ✚ **Challenges and PQAC Implementation**

- Commerce reported facing challenges in coordinating projects, particularly in managing guides or facilities. This department may require additional administrative support.

- All UG departments except Computer Science implemented PQAC recommendations, indicating that Computer Science needs to align with the quality assurance guidelines.

#### **Student Approach and Skills**

- Commerce was rated 4 for student engagement and skills, reflecting strong project performance. Computer Science and other departments like History were rated 3, indicating that there is room for improvement in guiding students toward better project execution and skill development.

## ➤ Major Findings and Remedial Actions for UG Section:

### # Major Findings:

- High Seminar Participation in Computer Science and Commerce: Commerce and Computer Science departments showed higher participation in national and international seminars compared to other UG departments.
- Limited Paper Presentations: Most UG departments, except Commerce and Computer Science, showed little to no student participation in presenting papers at conferences, especially internationally.
- Low ISSN/ISBN Publications: Except for Commerce and Economics, the number of ISSN/ISBN publications across the UG section was significantly low, indicating a need for enhanced research output.
- No Patents Filed: None of the UG departments reported patents filed or innovations, showing a lack of focus on intellectual property and practical application of research.
- Inconsistent Best Practices: Best practices like frequent project evaluations, research paper conversions, and journal reading were found in a few departments, but not uniformly across all UG sections.

### # Remedial Actions:

- **Increase Paper Presentation Opportunities:** Encourage all UG departments to actively engage students in national and international conferences through workshops on research and presentation skills.
- **Foster Research-Oriented Culture:** Introduce mentorship programs where experienced faculty guide students in research, writing, and ISSN/ISBN publication processes.
- **Innovation and Patent Awareness:** Organize patent awareness workshops and innovation boot camps to motivate students to apply their research in practical, patentable projects.
- **Standardize Best Practices Across Departments:** Implement and monitor the adoption of best practices, such as frequent progress evaluations, department journals, and research paper mentoring in all UG departments.
- **Facilitate External Collaborations:** Establish partnerships with industries and research bodies to provide UG students with real-world research experience and increased project opportunities.

## **Summary**

The assessment of the UG section reveals both strengths and areas for improvement across various departments.

- Computer Science and Commerce have demonstrated commendable performance in seminar participation, international conference presentations, and ISSN/ISBN publications, indicating a growing engagement with academic and research activities.
- Other UG departments like Physics, Economics, History, and Mathematics show limited participation in these areas, particularly in presenting papers, publishing research, and attending seminars. This suggests a need for these departments to adopt strategies that can foster a research-oriented culture, encouraging students to actively engage in academic events and seek publication opportunities.
- Additionally, the absence of any patents or innovations at the UG level points to a gap in fostering creativity and practical applications of knowledge, which could be addressed through workshops, mentorship programs, and partnerships with industry experts.
- Despite the solid foundation laid by departments such as Computer Science and Commerce, the UG section as a whole would benefit from a more unified approach to encouraging external academic recognition, such as best paper awards, and fostering a competitive spirit in research dissemination.
- Efforts should also be directed towards integrating best practices across all UG departments, especially in aligning with PQAC standards and focusing on student engagement, project quality, and the development of research skills.
- With consistent efforts, the UG departments can build upon their current strengths and create an environment that nurtures academic excellence, creativity, and innovation among undergraduate students.

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## **PG (POSTGRADUATE) SECTION ASSESSMENT**

### **✚ Participation in National and International Seminars/Conferences**

- **National Seminars/conference:**
  - Commerce had 22 students participating, while Physics led with 25 students, both performing excellently. English stood out with 35 students, showing a strong academic presence at the national level.
- **International Seminars/conference:**
  - Commerce and Physics had 9 and 25 students participating, respectively, while PG English again excelled with 38 students attending international seminars.

### **✚ Paper Presentations at National and International Seminars/Conferences**

- **National Presentations:**
  - Commerce had an impressive 39 students presenting papers at national conferences, indicating an active engagement in research dissemination. Physics had 2 students, while English had 7 students presenting at the national level.
- **International Presentations:**
  - Commerce maintained good performance with 9 students, while PG Physics had only 1 student presenting. English led with 30 students presenting internationally, showcasing the department's strong academic output.

### **✚ Publications (ISSN/ISBN and UGC-Care/Scopus/ABDC/Peer-reviewed)**

- **ISSN/ISBN Publications:**
  - Physics produced 10 authors with publications, while Commerce had 3 authors publishing. English and other PG departments showed no ISSN/ISBN publications, indicating an opportunity to convert research into published output.
- **UGC-Care/Scopus/ABDC/Peer-reviewed Journals:**
  - Computer Science had 3 authors publishing in high-impact journals. Other PG departments, including Commerce, did not contribute, highlighting a gap in aiming

for higher-tier journals.

#### **Patents/Innovations**

- PG Physics was the only department across UG and PG levels to file a patent, demonstrating innovation and practical application of research. Other departments did not file any patents, signalling the need to foster a culture of innovation across disciplines.

#### **Best Paper/Presentation Awards (Outside the College)**

- PG Commerce received one award for best paper presentation, an indication of high academic quality. Other departments did not receive any awards, suggesting that while there is strong participation, recognition at external events needs to be encouraged.

#### **Project-related Events and Best Practices**

- Physics conducted 4 project-related events, similar to Commerce.  
English also conducted 3 events, showing consistent project-related activities.
- **Best Practices in PG departments:**
  - Commerce encourages research-oriented projects, particularly through SPSS analysis and department journals with ISBN.
  - Physics emphasizes hands-on research and patent awareness.
  - English promotes workshops on research methodology and MLA documentation.

#### **Challenges and PQAC Implementation**

- No PG departments reported any significant difficulties in coordinating projects, suggesting efficient project management. All the departments implemented PQAC guidelines, showing compliance with institutional standards.

#### **Student Approach and Skills**

- PG Commerce and Physics were rated highly for student approach and skills, both receiving 5. English was rated 4, indicating strong student engagement but room for improvement in project execution quality.

## ➤ **Major Findings and Remedial Actions for PG Section:**

### # Major Findings:

- High Seminar and Paper Presentation Engagement: PG Commerce, Physics, and English showed significant participation in both national and international seminars, as well as a high number of paper presentations.
- Strong Publication Record in PG Commerce and English: These departments had a healthy number of publications, although contributions to high-impact journals like UGC-Care and Scopus were limited.
- Patent Filed in PG Physics: PG Physics led in innovation with one patent filed, demonstrating a potential for cutting-edge research in the department.
- Limited Best Paper Awards: Despite high research output, there were few instances of best paper awards or external recognition for students' work.
- Best Practices Widely Implemented: Most PG departments have successfully implemented best practices, such as research methodology workshops and journal reading sessions, which have positively influenced project quality.

### # Remedial Actions:

- **Enhance High-Impact Journal Publications:** Provide additional support, such as workshops on academic writing and journal selection, to help students publish in peer-reviewed, high-impact journals like UGC-Care and Scopus.
- **Promote Interdisciplinary Projects:** Encourage collaboration between departments to foster interdisciplinary projects, enhancing students' exposure to diverse research fields and increasing innovation potential.
- **Expand Recognition through Competitions:** Create more opportunities for students to compete for best paper awards and external recognition by participating in national and international research competitions.
- **Encourage More Patent Filings:** Given the success in PG Physics, other departments should be encouraged to explore innovative projects with patent potential, with additional resources provided for patent filing processes.
- **Continue and Expand Best Practices:** Continue successful best practices across all PG departments, while also focusing on mentorship and advanced research tools like AI and statistical software to improve research outcomes further.

## Summary

- The PG section exhibits a strong academic and research performance, particularly in departments like Commerce, Physics, and English, which lead in seminar participation, paper presentations, and research publications.
- PG Physics stands out with a patent filed, setting a benchmark for innovation that other departments can aspire to.
- Additionally, English and Commerce have shown consistent participation in both national and international seminars, alongside substantial paper presentations, indicating a vibrant research culture.
- However, despite these achievements, there is still room for improvement in certain areas, such as increasing the number of publications in high-impact journals like UGC-Care and Scopus.
- This could be achieved through encouraging students to publish their work in peer-reviewed journals and providing guidance on advanced research methodologies and writing skills.
- The PG section has largely succeeded in implementing best practices and adhering to PQAC recommendations, with departments focusing on fostering a positive academic environment through regular project-related events and workshops.
- The challenge moving forward will be to sustain this momentum and expand the scope of innovation, particularly by encouraging more students to engage in patentable research and interdisciplinary projects.

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