REGENT EDUCATION & RESEARCH FOUNDATION&
(Group of Institutions)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

NEWSLETTER



Academic Year : 2026-2027
Month: SEPTEMBER



MR.SUKDEB SAHA

Head of the Department, ECE

It gives me immense pleasure to present the newsletter for the September 2026, the nucleus of innovative thoughts and ideas.
“All students can learn and succeed, but not on the same day in the same way.”
The news letter is a platform to exhibit the student’s potential and their hidden talents, making them to think innovatively and build their ideas in a creative way. I am extremely happy to share that the department regularly organizes professional development activities for students to enhance their employability skills. I would like to express my heartfelt congratulations to all the students and faculty for putting their efforts into this newsletter. A special thanks goes to the editorial crew for all of their tremendous efforts!.

- **NEWSLETTER – SEPTEMBER 2026**

Title : Teacher's Day Celebration

Date: 16.09.2026

Time: 11.00 A.M Onwards



The Department of Electronics and Communication Engineering (ECE), Regent Education and Research Foundation, celebrated Teacher's Day with great enthusiasm and respect on 16 September 2026. The programme was organized by the students of the ECE Department to express their heartfelt gratitude and appreciation to the teachers for their continuous guidance, encouragement, and contribution towards the academic and personal development of students. The celebration began with a warm welcome to the faculty members. The students presented flowers and tokens of appreciation to their teachers as a gesture of respect and gratitude. The programme also highlighted the significance of Dr. Sarvepalli Radhakrishnan's contribution to education and his enduring legacy as an eminent teacher, philosopher, and former President of India. A variety of cultural and engaging activities were organized by the students, creating a joyful and memorable atmosphere. Faculty members also actively participated in the celebration, making the occasion interactive and enjoyable. Their encouraging words motivated the students and reinforced the importance of the teacher-student relationship in achieving academic excellence and overall development.





- **NEWSLETTER - SEPTEMBER 2026**

Title : TECHNICAL QUIZ

Date: 26.09.2026

Time: 3.00 p.m Onwards





The Department of Electronics &;Communication Engineering (ECE),Regent Education&Research Foundation, successfully organized a Technical Quiz on 26 September 2026 with the objective of promoting technical knowledge, analytical thinking, teamwork, and a spirit of healthy competition among students.The quiz covered a broad range of topics related to Electronics and Communication Engineering,along with questions from general engineering, science, technology, and emerging areas. The questions were designed to assess students; conceptual clarity, technical aptitude, logical reasoning,and ability to respond accurately under time constraints.Students participated with great enthusiasm and demonstrated commendable technical awareness and competitive spirit. The different rounds of the quiz created an energetic and intellectually stimulating environment.

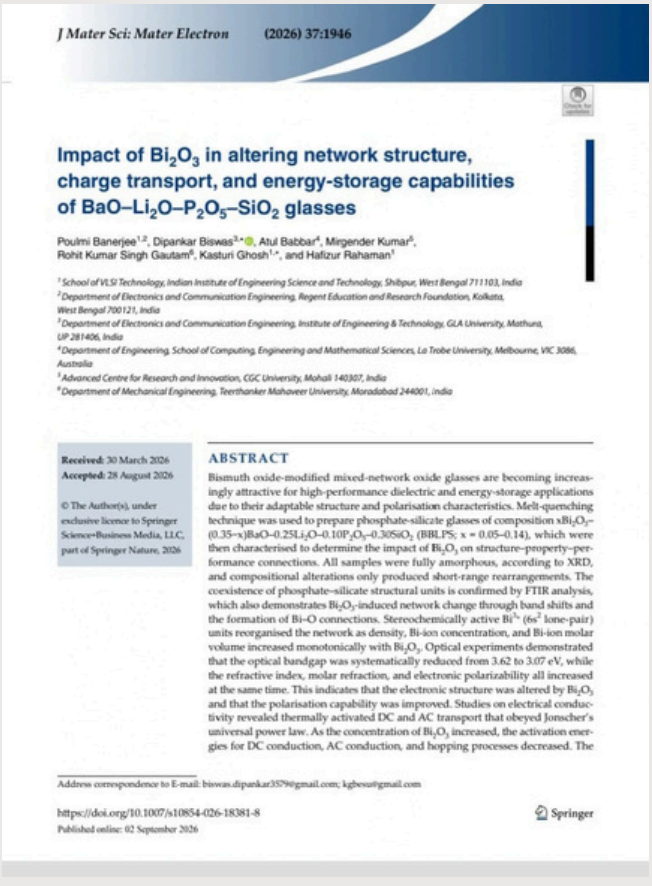
- **NEWSLETTER - SEPTEMBER 2026**

Title :- Research Paper Publication

Author: Poulmi Banerjee

The Department of Electronics and Communication Engineering (ECE), Regent Education & Research Foundation, proudly announces a significant research achievement by Ms. Poulmi Banarjee, faculty member of the ECE Department, who has published a research paper entitled:
"Impact of Bi_2O_3 in Altering Network Structure, Charge Transport, and Energy Storage Capabilities of $BaO–Li_2O–P_2O_5–SiO_2$ Glasses"The research has been published IN Springer, reflecting the faculty member's contribution to advanced materials research and its potential relevance to electronic, dielectric, and energy-storage technologies.





J Mater Sci: Mater Electron (2026) 37:1946

Impact of Bi_2O_3 in altering network structure, charge transport, and energy-storage capabilities of $BaO–Li_2O–P_2O_5–SiO_2$ glasses

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Received: 30 March 2026
Accepted: 28 August 2026

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ABSTRACT

Bismuth oxide-modified mixed-network oxide glasses are becoming increasingly attractive for high-performance dielectric and energy-storage applications due to their adaptable structure and polarisation characteristics. Melt-quenching technique was used to prepare phosphate-silicate glasses of composition xBi_2O_3–$(0.35–x)BaO–0.25Li_2O–0.10P_2O_5–0.30SiO_2$ (BBLPS; x = 0.05–0.14), which were then characterised to determine the impact of Bi_2O_3 on structure–property–performance connections. All samples were fully amorphous, according to XRD, and compositional alterations only produced short-range rearrangements. The coexistence of phosphate–silicate structural units is confirmed by FTIR analysis, which also demonstrates Bi_2O_3-induced network change through band shifts and the formation of Bi-O connections. Stereochemically active Bi^{3+} ($6s^2$ lone-pair) units reorganised the network as density, Bi-ion concentration, and Bi-ion molar volume increased monotonically with Bi_2O_3. Optical experiments demonstrated that the optical bandgap was systematically reduced from 3.62 to 3.07 eV, while the refractive index, molar refraction, and electronic polarizability all increased at the same time. This indicates that the electronic structure was altered by Bi_2O_3 and that the polarisation capability was improved. Studies on electrical conductivity revealed thermally activated DC and AC transport that obeyed Jonscher's universal power law. As the concentration of Bi_2O_3 increased, the activation energies for DC conduction, AC conduction, and hopping processes decreased. The

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https://doi.org/10.1007/s10854-026-18381-8
Published online: 02 September 2026

Springer

- **NEWSLETTER - SEPTEMBER 2026**

Title :- RESULT PUBLISH

The Department of Electronics & Communication Engineering congratulates all students for their academic efforts and appreciates the dedicated contribution of the faculty members. With continued collaboration and a commitment to excellence, the department looks forward to achieving stronger academic outcomes in the coming years.

YEAR: 2ND



DEBARUN BISWAS

SCORE:

SGPA: 8.73

YEAR: 3RD



PRADIP SARKAR

SCORE:

SGPA: 7.42

YEAR: 4TH



RITUSHREE DHARA

SCORE:

SGPA:8.71



SHAKIR HUSSAIN

SCORE:

SGPA: 8.71

CONGRATULATIONS TO ALL OF YOU

THANK YOU