

ECE MONTHLY NEWSLETTER - AUGUST, 2023

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Monthly Newsletter - August, 2023

ISSUE : 11 | Vol. 2

Monthly Updates

The Bulletin

A Newsletter from
Electronics & Communication Engineering Department.

RESEARCH INNOVATION NEW IDEAS PLACEMENTS GOALS EVENTS WORKSHOPS

6 ALUMNI WORKING AT ISRO!

KAUSHIK DAS
RAJ KUMAR
ARSHUL ARJARYA
RANJAN PATRAK
NISHU SHARMA
PURNANABHA

ECE ALUMNI ARE NOW MAKING US PROUD AT ISRO!

India is on the moon, and our dreams have no limits. Heartfelt Congratulations to our esteemed GLA University alumni at ISRO, and to the entire GLA community and India, on the triumphant success of Chandrayaan 3's soft landing on the lunar surface! Your dedication, hard work, and relentless pursuit of excellence have once again made our nation proud. Your contributions to this historic achievement resonate far and wide, inspiring generations to come. This success is a testament to the spirit of innovation and determination that runs through GLA University and our beloved nation.

As the tricolor unfurls on the lunar surface, we proudly declare: India is on the moon, and our alumni's brilliance lights up the sky!

Let the moon be a reminder that with unwavering passion and collaborative efforts, we can reach even the most distant dreams. Here's to the indomitable spirit of our alumni, ISRO, GLA, and India!

We extend our heartfelt congratulations to **Dr. Kaushik Das**, who serves as an assistant professor, for achieving the remarkable milestone of completing their PhD.

Early Placement

GLAdiators
Soaring For Excellence

Harshita Paul
Securing success
EMBRACING AN EARLY PLACEMENT OPPORTUNITY

Get Selected by HAVI DESIGN

We're excited to share the fantastic news of Harshita Paul, a final year B. Tech EC student at GLA University, securing an early placement at Havi Design!

Harshita, your journey from GLA University to Havi Design is an inspiration to us all. Your determination and passion have led you to this incredible milestone, and we can't wait to see all the amazing things you'll achieve in the future.

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ORIENTATION

Department of Electronics and Communication Engineering
Electrical Engineering
Orientation 2023-24
Academic Block - II
17 August, 2023 10:00 AM onwards



The Department of Electronics and Communication Engineering (ECE) hosted an orientation program tailored for first-year B.Tech students. This program was designed to introduce new students to the department, its faculty, and the academic environment they would be a part of during their undergraduate journey.

The orientation covered essential information such as course offerings, academic resources, faculty introductions, and an overview of the department's goals and expectations.

It aimed to provide a warm welcome to the incoming students, ensuring they started their academic journey well-informed and with a clear understanding of what to expect in the Department of ECE.

FACULTY ACHIEVEMENT



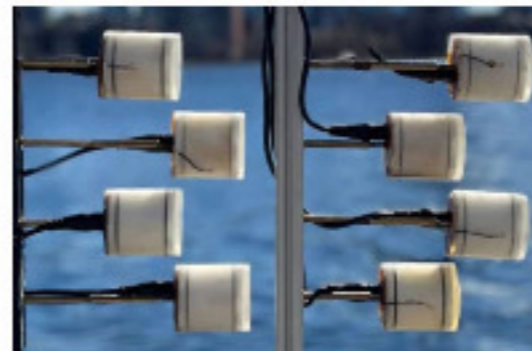
An Emotional Farewell: The ECE Department Bids Adieu to Dr. Jitendra Kumar, Assistant Professor

Innovative Underwater Communication For Long Distance Communication

MIT researchers have demonstrated the first system for ultra-low-power underwater networking and communication, which can transmit signals across kilometre-scale distances. It can transmit signals over several kilometres using a fraction of the power that existing methods demand. This innovation, which began years ago, stands to revolutionise sectors like aquaculture, hurricane prediction, and climate change modelling.

Despite initial testing limitations, the technology exhibited significant potential, vastly outperforming previous methods with over 15 times the communication range. Utilising underwater backscatter that encodes data in sound waves it promises more efficient and long-range communication. An analytical model, corroborated by experimental data, showcases the system's capability for kilometre-scale communications, heralding a promising trajectory towards practical deployment.

Courtesy: [electronicshub.org](https://www.electronicshub.org)



The system holds the potential to facilitate battery-free underwater communication over kilometre-scale distances, assisting in climate and coastal change monitoring.

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CONTO...

The researchers incorporated a Van Atta array that efficiently reflects energy back to its source, enhancing the connection range. They also introduced a transformer between connected nodes to maximise energy reflection and utilised cross-polarity switching to encode binary data in the reflected signals. Adjustments in node polarity facilitated data transmission back to the remote receiver. Moreover, a new staggered node design was developed to prevent signal interference, extending the communication range. Despite space constraints on the dock, truncating the experiments showcased a substantial increase in communication ranges, marking a significant stride in underwater communication technology.

Savita Baghel
#Students Testimonials

STUDENT SPEAKS

Lakshya
#Students Testimonials

Admission Open - 2023-24
www.gla.ac.in

OUR TOP RECRUITERS

EDITORIAL TEAM

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Editor : Mrs. Sweta, Assistant Professor
Creative Designer : Mr. Manojanjan Mahajan