

PRELUDE



Department of Electronics and Communication Engineering JIS College of Engineering, Kalyani, WB

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FORM THE DESK OF THE EDITORIAL BOARD!

It gives us immense joy and satisfaction to publish our very own Electronics and Communication Engineering (ECE) Departmental new-sletter "PRELUDE" at the JIS College of Engineering, Kalyani, Nadia, west Bengal for its 1st issue, volume no. 20 of 2021.

This issue places the interest of the achievements, activities, events and more in which all members have enthusiastically contributed. All the members played an energetic role in issuing this newsletter. Thank all who helped directly or indirectly to make this issue a grand success. We thank the Management of the JIS College of Engineering, particularly Prof. (Dr.) P. Sarkar, Principal, for their ongoing support and inspiration.

vol 20, 1st issue, July-October, 2021

DEPARTMENTAL MISSION AND VISSION

VISION

To excel in Electronics & Communication Engineering in order to meet the challenges of modern Industrial society through quality technical education, research, innovation and team work.

MISSION

To educate students from the foundations to the state of art knowledge in the development to electronic devices and communication systems with design optimizations and to carry out research through constant interaction with research organizations and industry. To nourish the mind of growing engineers through qualitative evaluations, internal assessments, corporate trainings, efficient technical communication skills and creative project assignments. To motivate the engineers of the future through competition in communication skill, seminar presentation, project, and group discussion. To encourage the intended engineers in kind, humble and moral behavior with ignition in mind to Contribute for the welfare of society.

Program Educational Objectives(PEOs)

PEO1:

To provide the students with a solid foundation in mathematical, scientific and electronics and communication engineering fundamentals required to solve related problems;

PEO2:

To train the students with scientific and electronics and communication engineering application knowledge to comprehend, analyze, design & create novel products and solutions for real life problems.

PEO3:

To inculcate leadership in the students professional/ ethical attitude, effective team work skills, multidisciplinary approach and to relate electronics and communication engineering issues to a broader context;

PEO4:

To motivate the students to excel in various educational programs or to Succed in industry/technical profession through further educational/training such as seminars, workshops, conferences etc;

PEO5:

To provide the students with academic environment of excellence, leadership, ethical guidelines and to encourage with achievement awards for productive career.

THE DEPARTMENT AT A GLANCE

The Department of Electronics and Communication Engineering started its journey with the establishment of JIS College of Engineering in the year of 2000. In 2011 the institution received approval of the Autonomous Institution. From inception, this department has maintained updated experimental laboratories and experienced faculty members. At present the department runs one undergraduate program (B. Tech in ECE) and one postgraduate program (M. Tech in MCNT) under MAKAUT. These courses are accredited by NBA (National Board of Accreditation), NAAC (National Assessment and Accreditation Council). The curriculum and syllabus have been updated under an autonomous institutional framework. Online courseware established for each course is available on the institutional website. In view of the growing need in modern education JISCE has started FLIP learning from 2017. This new approach of teaching learning is focused to motivate students in Group discussion on sub topics, Digital content building, Presentation of the digital content on the smart board. In addition to the institutional library, the departmental library provides reference books, previous project report, NPTEL repository, previous year semester questions, and faculty publication repository for the benefit of students. The department has a strong focus in students mentoring through creative idea building linked to the benefit of society. Involvement of the students in various ongoing projects sponsored by the central government instills deep research ideas. During the days at JISCE students are going through Industrial Visit, Vocational training at reputed industry, Industry partnered project, Academic visit to foreign Universities etc. Being a member of the department for a long time I feel proud to sharethat good cooperation among faculty members' results in overall accomplishments.



Contributed talk by the faculty

SI	Name /Title of the	Date	Name of the	Category of the	Venue
	Lecture/Talk		Faculty Speaker	Participants	
1.	"Robotic complexes for	27/08/2021	Dr.Biswarup	Invited Speaker	Federal
	mining of steeply-inclined		Neogi	(Online Skype	Research
	thick seam with the top coal			Call)	Institute
	caving"				

Faculty Achievements

i)Mr.Anirban Patra: Enrolled for PhD at University of Calcutta (Dept. of Applied Optics and Photonics)

in July, 2021.

ii) Dr.Biswarup Neogi was selected as a Mentor of Atal Tinkering Lab (ATL), NITI Aayog on July 24, 2021.

Publications of faculty

SI Title of the paper		Author	Publication Details/Vol.No./ISSN		
			No./Page No.		
1.	"Scholastic Approach towards	Anirban Ghosal,	Devices for Integrated Circuits (DevIC		
	Economic Digital Mileage	Dr. Indranath Sarkar,	2019,IEEE),KGEC, Kalyani, 23rd -24th		
	Meter		September, 2021		
	with GPS",				
2.	"Body Area Network using	Dr. Indranath Sarkar,	IJRAR July 2021,		
	Cluster Based Energy Efficient		http://doi.one/10.1729/Journal.20477,		
	Routing"		Volume 6, Issue		
			2, pp 1-4, Impact Factor 5.75		
3.	"New Approach to Invisible	Anirban Patra	Published in IEEE Xplore on July 2021		
	Water Marking of Color Images				
	using Alpha Blending"				
4.	"Encryption of Optically	Anirban Patra	Presented in RAICMHAS- 2021 at		
	Compressed Satellite Image		Brainware,03/08/2021,University;		
	using Random Phase"		Published in IJIKC , Vol - 7		
5.	Control System Based	Dr. Biswarup Neogi	Journal of Mechanics of Continua and		
	Modeling and Simulation of		Mathematical Sciences, ISSN PRINT :		
	Cardiac Muscle With		0973-8975 ISSN ON LINE : 2454-7190,		
	Optimization using		Volume 4 Issue 6, E-SCI		
	Performance Index		Web of Science, 28/07/2021		
6.	An Application of Pade	Dr. Biswarup Neogi	International Journal of Advanced		
	Approximation and		Scientific Research and		
	PID Tuning Technique to		Management, ISSN 2455-6378		
	Improve the System		274, Volume 4, Issue 5 Page No. 274-		
	Performance of Electric		280, UGC Approved 31/07/2021		
	Ventricular Assist Device				

Book Chapter Publication

SI	Authors	Title	Book Chapter	ISSN/ISBN	Vol.	Indexing	Year
					Page		
					no		
1.	S.	Real-Time Cardio	Advanced				
	Bhattacharya ,	Monitoring and	Classification				October
	S. Ghosh	Characterization	Techniques for	Vol 1	182-	Scopus	2021
	, B. Neogi	of Diseases	Healthcare		205		
		Introducing	Analysis,				
		Statistical and	(Publisher: IGI				
		Spectrogram	Global)				
		Analysis					

THANKS

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