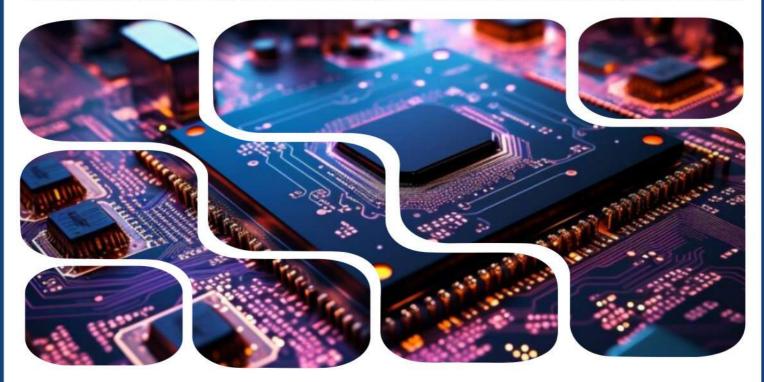


FUTURE INSTITUTE OF ENGINEERING AND MANAGEMENT

NanoNexus

NEWSLETTER || 2023 || VOLUME: 5 || ISSUE: 1

DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING



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-: ABOUT ISSUE :-





PROF. (DR.)
ALOKE KUMAR GHOSH
EXECUTIVE DIRECTOR
TEAM FUTURE

Message from the desk of Executive Director

It is with great pleasure and enthusiasm that I extend my warmest greetings to all the members of the Electronics and Communications Engineering Department as we embark on another exciting edition of our departmental newsletter "NanoNexus".

Our department has always been at the forefront of innovation and excellence, and this newsletter serves as a testament to the remarkable achievements, groundbreaking research, and collaborative efforts that define us. Let this newsletter serve as a source of inspiration, fostering collaboration and shared knowledge. Our department continues to thrive because of the passion and commitment each of you brings.

I convey my sincere thanks and gratitude to everyone for contributing to the success of our department and I look forward to witnessing our continued growth and achievements.

Message from the desk of Principal

It is a matter of pride and satisfaction to preface the first issue of the newsletter NanoNexus released Electronics and Communications department. This newsletter is meant for apprising all stakeholders about events organized by the department, insights on emerging and allied technologies, student and faculty achievements, message from industry persons, placement success record of the department. The wide gamut of articles in different sections is creative, interesting and stimulating as it provides a platform for students, alumni members and industry experts to share their thoughts on recent trends of technology and nostalgic college memories.

I congratulate the editorial team and HOD of ECE department for their praiseworthy effort in releasing this issue of newsletter within stipulated time.



PROF. (DR.)
ANIRBAN CHAKRABARTY
PRINCIPAL
FIEM

-: ABOUT ISSUE :-





PROF. (DR.)
ANIRBAN MANDAL
HOD
ECE DEPARTMENT

Message from the desk of HOD

Welcome to Department of Electronics and Communications Engineering. The very ECE is the perfect amalgamation of the Electronics, Communications and Information based Computing Science and Technology. The few revolutionary areas that enhance the impact of this stream are Modern VLSI Technology, Advanced 5G/6G Mobile Communications, Micro and Nano wave technology, IOT, Al and security based challenges etc. In coming days the ECE will be the main junction of the next generations of Industry Revolution i.e. IR 4.0/5.0.

I express my heartfelt gratitude to all my colleagues, students, alumni, respected mentors and those who are directly and indirectly associated to publish this newsletter "NanoNexus" which portrays the colorful events and glorious achievements of the department.

Message from the desk of Chief Editor

Future Institute of Engineering and Management is one of the famous and reputed engineering colleges in West Bengal. The Department of Electronics and Communications Engineering here has earned a solid reputation for education, job opportunities, and technology for more than two decades. As the demand for ECE engineers in both software industry and hardcore industry is equal, the need for studying this branch of engineering will increase from time to time.

The newsletter "NanoNexus" of Electronics and Communications Engineering department is the synergic effort of our current students, alumni, teachers, and industry experts. I pay sincere greetings and gratitude to all the students, esteemed colleagues and my esteemed team members for their unremitting efforts for the successful completion of this newsletter.



PROF. (DR.)
KOUSHIK SARKAR
CHIEF EDITOR
ECE DEPARTMENT



-: FOREWORD :-

The history of Electronics can be traced back to the late 19th century when the first electronic device, the vacuum tube, was invented. These developments have led to advanced communication and information processing systems that have transformed human lives and work. The ECE Department moved into its present building in 1951. It was inaugurated by the then Prime Minister; Pandit Jawaharlal Nehru. By the close of the decade of fifties, research had taken roots in the ECE Department in the areas of electronics, acoustics, microwaves and analog computers.

As the time approaches decade after decades the technology becomes smart and advance step by step. The outcome of this technology advancement leads to a huge growth and revolution in industry in electronics and communication sector. A few of the industries that are serving the nation in 21st century are Very Large Scale Integration(VLSI) and Embedded Systems, Microwave and Millimeter wave Technology, Digital Image Processing, Optical Communication, Signal Processing, Robotics and Automation, Internet of Things(IoT), Nanotechnology, Solar Energy, Machine learning, Artificial Intelligence, Python and other programming languages, Web technology, Biomedical signal processing, Cybersecurity and Blockchain, 5G/Wireless communication etc.

In near future the ECE will be the master key to solve the complex puzzles of hardware and software industries.

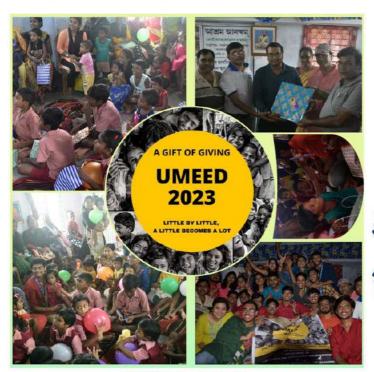


-: DEPARTMENTAL EVENTS :-



INCEPTION'23

The annual departmental programme where students showcase their talents by building innovative technical projects, competitive coding, technical quiz, photography, content writing and paintings.



UMEED 2023

Donating stationaries and foods along with sharing and spreading happiness by spending sweet time with the underprivileged children.



RUTHVIJ'23

The Teachers' Day celebration of ECE department, where students perform top-notch performances and teachers deliver inspiring speeches. It is a day that fills with gratitude and appreciation in every year.



ORSUS 2023

The farewell program for the batch 2019-2023.

An unforgettable college life of turning tassels and making memories for them.

PAGE 4



-: INDUSTRIAL & PRE-PLACEMENT TRAINING RECORDS 2023 :-

OUR TRAINING PARTNERS



AEONIX RESEARCH AND INNOVATIONS



ARDENT COMPUTECH
PVT LTD



CALCUTTA ELECTRIC SUPPLY CORPORATION



ARDENT COMPUTECH PVT LTD

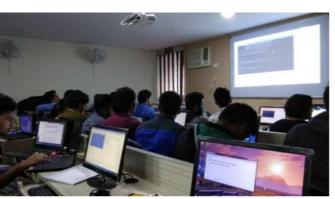




AEONIX RESEARCH AND INNOVATIONS







EUPHORIA GENX





-: FACULTY ACHIEVEMENTS 2023:-





PROF. (DR.) TARUN KUMAR DAS
AWARDED PHD IN CONVOCATION
FROM JADAVPUR UNIVERSITY AND
FELICITATED BY THE DEPARTMENT OF
ECE FOR DOCTOR OF PHILOSOPHY

PROF. (DR.) KOUSHIK SARKAR
FELICITATED FOR DOCTOR OF PHILOSOPHY BY
THE DEPARTMENT OF ECE







PROF. (DR.) SWAPAN DAS

AWARDED PHD IN CONVOCATION FROM JADAVPUR
UNIVERSITY AND FELICITATED BY THE DEPARTMENT
OF ECE FOR DOCTOR OF PHILOSOPHY



PROF. (DR.) SWAPAN DAS

GRANTED PATENT

FOR AN INVENTION ON

DEVICE AND PROCESS FOR LOW

COST SYNTHESIS OF GRAPHENE



-: RESEARCH ACTIVITIES OF SOME SENIOR FACULTIES :-



PROF. (DR.) ANIRBAN MANDAL

Study of microstrip antennas in 5G/6G applications with superstrate effect.

No. of FDP (2023) - 1 No. of Publications - 12



PROF. DEBOJYOTI GHOSH

Communication, Microcontroller based technology, Medical Instruments .

Entrepreneurship development program on 'Solar Energy' from MSME Government of India.

No. of FDP (2023) - 2 No. of Publication - 4



PROF. (DR.)SWAPAN DAS

Development and Implementation of Graphene - Zinc Oxide Nanohybrid Based Room Temperature Hydrogen Sensor

No. of FDP (2023) - 4 No. of Publications - 9 No. of Book Chapter - 2 No. of Patent = 1



PROF. (DR.) TARUN KUMAR DAS

Multispurious harmonics suppression for compact microwave filters applicable for modern wireless communication systems.

No. of FDP (2023) - 15 No. of Publications - 26



PROF.(DR.) DIPAK MONDAL

SAR Radar based on millimeter wave and Microwave.

No. of FDP (2023) - 3 No. of Publications - 18 No. of Book - 1



PROF. ANUPAM PATRA

Quantum Computing.

No. of FDP (2023) - 2 No. of Publications - 2



PROF. DEBABRATA PANDIT

Microwave Passive Component.

No. of FDP (2023) - 1



PROF. (DR.)GARGI BHATTACHARYA

Study of Floating gate Nonvolatile Memory device in Nano-meter regime.

No. of FDP (2023) - 3 No. of Publications - 11



PROF. (DR.) KOUSHIK SARKAR

Thin film solar cell

No. of FDP (2023) - 2 No. of Publications -31 No. of Book Chapter - 1 No. of Book Review - 1



PROF. DIPANKAR MANDAL

Detection of adulterations in turmeric powder using machine vision.

No. of FDP (2023) - 4 No. of Publications - 7



PR OF. ABHIJIT KUMAR PAL

Spinel Nano Ferrite materials.

No. of FDP (2023) - 3 No. of Publications - 4 No. of Book Chapter - 1 No. of Book - 1



PROF. MILAN DHARA

Molecular Imprinted Polymer Based Electrochemical Sensors

No. of FDP (2023) - 1 No. of Publications - 5 No. of Book Chapter - 2



-: PLACEMENT RECORD FOR 2023 BATCH :-

COMPANY	COUNT	COMPANY	COUNT
ACCOPS SYSTEM PRIVATE LTS.	1	HCLTECHNOLOGY	2
AMAZON	4	iB ARTS PVT. LTD	1
ARODEK TECH CONSULTING PVT LTD	1	IBM INDIA PVT LTD	3
CODEYOUNG	1	LOGARHYTHM CONSULTANCY	1
COGNIZANT GenC (DNP – SFDC)	4	LTIMINDTREE	30
COGNIZANT GENC	29	REXNORD ELECTRONICS & CONTROLS LTD	1
CONIZANT GENC ELEVATE	1	ROYAL CONTENT RESEARCH	8
COGNIZANT DNP 2.0 PRO (SFDC)	3	SUTHERLAND GLOBAL SERVICES	8
COGNIZANT DNP 2.0 NEXT	1	TCS DIGITAL	2
DELOITTE	1	TCS NINJA	14
DHOOT TRANSMISSION	2	TEKION INDIA PRIVATE LIMITED	2
DCG DATACORE SYSTEMS	1	VODAFONE IDEA LIMITED	2
GETDEEAFULT AUTOMATION DEVELOPER	1		
	TOTAL :::	124*	· ·

ECE INTAKE: 120





















Rexnord Electronics & Controls Ltd.

ACADEMIC EXCELLENCE CLASS TOPPERS 2022-23



1ST YEAR 2ND YEAR



ABHRADEEP PAUL ECE 1, YGPA: 8.36



DEBOLINA SAU ECE 1, YGPA: 7.53



PRIYANKA BAL ECE 1, YGPA: 9.27



HIMESH BHATTACHARYA ECE 1, YGPA: 8.52



ECE 2, YGPA: 8.03



ECE 2, YGPA: 7.46



AGNISHWAR BANERJEE ECE 2, YGPA: 8.71

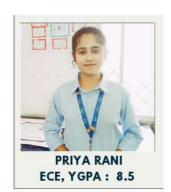


ECE 2, YGPA: 8.5

3RD YEAR



SAYAN PAUL ECE, YGPA: 8.92

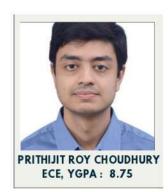




4TH YEAR



ECE 1, YGPA: 9.20



RISHIRAJ BASU ECE, YGPA: 8.80



Future EDUCATION WIDE ANGLE LEARNING

-: STUDENTS' ACHIEVEMENTS :-











NATIONAL STUDENTS' SPACE CHALLENGE 2023
from left:- RISHAV DAS (EE 3RD YEAR)

DEBARPITA PRAMANIK (ECE 3RD YEAR)

RATNADEEP MUKHERJEE (ECE 3RD YEAR)

SINJITA SAHA (ECE 3RD YEAR)

PUSHPENDU DEY (IT 3RD YEAR)



3RD POSITION AT HOVERPOD COMPETITION
AT IIT KHARAGPUR







SMART INDIA HACKATHON - 2023
from left: RUP PRATIM GHATAK (ECE 3RD YEAR)
BISWARUP CHOUDHURY (ECE 3RD YEAR)
SWARNALI DAS (ECE 3RD YEAR)
TANISHA HALDAR (ECE 3RD YEAR)
ISHAN ATHARTHI (ECE 3RD YEAR)
SWARNAVA CHATTERJEE (ECE 3RD YEAR)

SIH-23 HARDWARE EDITION FINALIST

NATIONAL STARTUP DAY CELEBRATION

BY TEAM OPTIMISTS



-: STUDENTS' ACHIEVEMENTS :-



HACKATHON IN TECH FEST OF
CIEM CELSIUS
CHAMPION
BIHAN BANERJEE (LEADER)
AYUSH MITRA
PRIYANKSHU DEY
PRITHIS DUTTA
SHREYA BHATTA CHARYA



ANURAG SINGHA
ADRIJA BHATTACHARYA
RAHUL JANA
PROKRITI KUNDU
2ND POSITION AT
EXHIBIT2023,
ORGANISED BY XPLORICA



PRIYANKSHU DEY
ECE, 3RD YEAR
2ND POSITION
INTER COLLEGE CODING COMPETITION
"CODEDRIFT 3.0"
IN CELSIUS'23
THE TECH FEST OF
CALCUTTA INSTITUTE OF
ENGINEERING AND MANAGEMENT



SUDIPTA PAUL SUPRATIK BHATTACHARYA SOHAM NATH

SUDIPTA PAUL
SUPRATIK BHATTACHARYA
SOHAM NATH
AKASH BISWAS
OF ECE 4TH YEAR
1ST RUNNERS UP
INVITARE, INCEPTION
2023

S OHOM DAS
BUDHADITYA MUKHERJEE
RISHITA BISWAS
KOMAL JHA
1ST RUNNERS UP
AT THE
PROJECT PRESENTATON ON
THE WORKSHOP ON
INTELLECTUAL PROPERTY
RIGHT



-: STUDENTS' ACHIEVEMENTS :-



SAYAN SINHA ROY
(ECE 1ST YEAR)
(1ST RUNNER-UP)
ARATRIKA CHATTERJEE
(ECE 1ST YEAR)
(2ND RUNNER-UP)
OF THE EVENT SOLO SONG
SWAGATAM 2023
ORAGNISED BY CULRAV





SOHOM DAS
RISHITA BISWAS
BUDHADHITYA MUKHERJEE
KOMAL JHA
OF ECE 2ND YEAR,
WINNERS
INVITARE, INCEPTION
2023



SUMAN KUMAR PANDA ECE 4TH YEAR 1ST RUNNER UP PAPYRUS, INCEPTION 2023



DEBOLINA SAU
NILESH PAUL
TANMAYEE GOUDA
SAYAN DAS
OF ECE 2ND YEAR
2ND RUNNERS UP
INVITARE, INCEPTION
2023



-: ALUMNI ACHIEVEMENTS:-



AZAD ALI MUFTI BATCH: 2010-2014

Achieved Degree of International Masters of Science in Electrical Engineering and information technology with major in Communication from Darmstadt college of applied sciences, Darmstadt, Germany.



DR.BUDHADITYA BHATTACHARYYA BATCH: 2008-2012

Received the VIT research award for excellence in research and currently working as Senior Associate Professor, School of Electronics Engineering, VIT Vellore.



SHRIYA GHOSH BATCH: 2015-2019

Received the degree of Master of business Administration in Operations Management from Symbiosis Institute of Operations Management, Nashik. She also received the gold medal for the girls topper of her institute.



DR. SUDIPTA BOSE BATCH: 2008-2012

~~**~~~~~~~**

Achieved Degree of Doctor of Philosophy in Signal Processing Architecture for Real Time Earthquake Early Warning System from Indian Institute of Technology, Kharagpur





-: LABORATORY FACILITIES :-



SOME OF THE SENIOR LABORATORY TEACHERS WITH OVER FIFTEEN YEARS OF ACADEMIC AND INDUSTRY EXPERIENCE ARE WORKING TIRELESSLY IN THE RESEARCH AND INNOVATION CELL OF THE DEPARTMENT:

from left:- MR. DAYAL DOLUI

MR. ANUP GHOSH

MR. MANASH MUKHERJEE MRS. KANIKA CHOUDHURY

MR. KHURSHID ALAM MS. DALIA SANYAL

MR. SNEHAJIT SEN



SMART CLASS USING DIGITAL BOARD



RESEARCH AND INNOVATION PROJECT DEVELOPMENT



DIGITAL ELECTRONICS
LAB



ANALOG ELECTRONICS LAB



ANALOG AND DIGITAL COMMUNICATION LAB



MICROPROCESSOR LAB



DSP AND CONTROL
SYSTEM LAB



PROGRAMMING LANGUAGE LAB



MICROWAVE LAB



EDITORIAL BOARD

PROF. (DR.) KOUSHIK SARKAR, ECE, FIEM, CHIEF EDITOR PROF. (DR.) TARUN KUMAR DAS, ECE, FIEM PROF. (DR.) GARGI BHATTACHARYA, ECE, FIEM MRS. KANIKA CHOWDHURY, ECE, FIEM RATNADEEP MUKHERJEE, 3RD YEAR, ECE, FIEM



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