

VOLUME 02 · 2023-24

Sanjog

THE EMBEDDED LOOP

When sensors, code and hardware have to agree before a system can be useful.

HOD
DR. MRINMOY CHAKRABORTY

CONVENER
DR. SOURAV MOITRA



Prof. (Dr.) Sanjay S Pawar

PRINCIPAL, DR. B.C. ROY ENGINEERING COLLEGE

INSTITUTE VISION

Creativity, innovation and discipline

The institute vision in the ME newsletter calls for a global centre of learning.

INSTITUTIONAL PERSPECTIVE

From the Principal's Desk

A department newsletter is a record of learning in motion. It brings together the questions raised in class, the work done in laboratories, and the conversations that continue through events and research.

The principal's message in the reference Mechanical Engineering newsletter encourages timely articles, more opportunities for contributors, and subjects that interest students and industry alike. Sanjog carries that editorial spirit into the Electronics and Communication Engineering record.

This issue gathers the documented activity of 2023-24 so that readers can follow the department's work and see where the next question might begin.

PRINCIPAL DURING THE REFERENCE PERIOD

Prof. (Dr.) Sanjay S Pawar

Principal identification and portrait: ME News Letter 2025-26, page 1. Text on this page is an editorial summary, not a direct quotation.

EDITORIAL DIRECTION

From the convener's desk

Sanjog is designed as a department record that can be read in more than one way. A student can open it at an event page, a faculty member can turn to the research record, and an external reader can see how the programme connects a laboratory question to a larger engineering context.

This volume gathers the documented activities and publication records for 2023-24. The short essays are written around those records so that the newsletter has a point of view without turning an event title into a claim it does not support.

The issue's editorial lens is **The embedded loop**. Its pages move from programme purpose to events, from faculty development to research, and then back to the people and cohorts that give the department its scale.

NEWSLETTER CONVENER

Dr. Sourav Moitra



Dr. Sourav Moitra

FACULTY OF ECE · BCREC

ISSUE AT A GLANCE

3 ECE events	**59** publication records
30 faculty activities	**231** students in represented cohorts

Issue theme

The embedded loop — When sensors, code and hardware have to agree before a system can be useful.

EDITORIAL RULE

Every record stays close to the supplied source data, no invented numbers.

VOLUME LENS

The embedded loop

A Record
Gather the supplied exports and photographs.

B Review
Check dates, names and counts against the source.

C Edit
Write the short pieces around the record.

D Publish
Release as an editable issue for the next revision.

SANJOG · DEPARTMENT OF ECE — DR. B.C. ROY ENGINEERING COLLEGE · DURGAPUR



Dr. Mrinmoy Chakraborty

FACULTY OF ECE · BCREC

DEPARTMENT LEADERSHIP

Dr. Mrinmoy Chakraborty

Head of the Department, ECE

DEPARTMENT NOTE

From the HOD's desk

The ECE department works across devices, circuits, communication links, embedded systems and the research methods that connect them. A newsletter is useful when it shows that range without losing the thread between the parts.

For 2023-24, that thread is visible in the record of events and publications. Industry-facing sessions, higher-study conversations, device workshops and research outputs give students several ways to meet the discipline beyond a single course unit.

The department's responsibility is to keep those encounters academic, documented and connected to the programme outcomes. This issue places the PSOs beside the activities so the record can be read as more than a calendar.

HEAD OF THE DEPARTMENT

Dr. Mrinmoy Chakraborty



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Department note

Laboratories, events and a measurable publication record give the 2023-24 volume its spine; the pages that follow keep those records close at hand.

01 / PROGRAMME PROFILE

Why Electronics and Communication Engineering?

The department connects mathematical foundations, electronic devices, communication systems, computation and project practice.

VISION OF THE INSTITUTE

To transform the institution into a global centre of learning through the synergic application of creativity, innovation and discipline.

MISSION OF THE INSTITUTE

01 Create an ideal ambience for learning and growth.

02 Help students inherit value systems and become creative, agile thinkers.

03 Build capabilities among students to lead and work as team players.

04 Develop a symbiotic relationship between institution, society and community.

05 Expand higher learning in technology and management.

Core language

Signals · devices · systems · communication · evidence

Department lens

Learn the fundamentals. Build the interface. Test the result.



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02 / EDUCATIONAL OBJECTIVES AND PSOS

Programme purpose

The programme outcomes are the bridge between a course, a project and the engineer who has to explain the result.

PEO 1

Core proficiency

Build professional competence through fundamentals in Electronics and Communication Engineering and deeper technological knowledge.

PEO 2

Professional development

Develop mathematics, science, management, teamwork, responsibility, professionalism and ethical values.

PEO 3

Lifelong learning

Adapt to a changing society through higher studies, quality research and careers in industry or entrepreneurship.

PROGRAMME-SPECIFIC OUTCOMES

Three questions for every project

PSO 1

Engineering knowledge and analysis

Analyze engineering problems relevant to Electronics and Communication Engineering by applying basic sciences, engineering mathematics and engineering fundamentals.

PSO 2

System design

Design electrical, electronic and communication systems containing devices, software and hardware by applying analytical knowledge and modern tools.

PSO 3

Society, environment and professional practice

Apply contextual knowledge to assess societal, environmental, health, safety, legal and cultural issues with professional ethics and work effectively in multidisciplinary projects.

ASSESSMENT RULE

Every PSO is answered with coursework, project and laboratory evidence.

PROGRAMME LENS

Objectives, outcomes and activities are read together, not separately.

03 / CONTENTS AND YEAR AT A GLANCE

Inside Volume 02

This issue follows the reference newsletter's rhythm: leadership, programme purpose, events, faculty development, publication record, department profile and closing notes.

08 Events and academic engagements

11 Faculty development and professional activity

14 Publications, patents and research themes

20 Student and project context

22 Faculty desk and department profile

24 Sources and editorial credits

24

A system is intelligent when its decisions remain understandable under changed conditions.

3
ECE events

59
publication records

30
faculty activities

231
students in represented cohorts

Data sources: events (1).xlsx, PUBLICATIONS exports, faculty.csv, supplied student-batch workbooks and the Mechanical Engineering newsletter reference issue.



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04 / EVENTS

Academic year at a glance

The 2023-24 calendar includes a metamaterial and vacuum-electronic-devices workshop, a project-management session, soft-robotics and sensor-design awareness, and a VLSI training programme. Each event extends a classroom idea into a working system.

01

DEPARTMENT EVENT · 28 NOV 2023

Awareness Of The Innovation Opportunity In The Field Of Soft Robotics And Sensor Design.

Venue: ECE DEAPRTMENT-GF 02 SEMINER ROOM
Association: IIPC, IEEE Student Branch

PHOTO RECORD ↗

02

TALK / SESSION · 22 MAR 2024

Expert Talk & Career Counseling Session For Higher Studies Like GATE.

Venue: ALBERT EINSTEIN HALL OF DR. B.C.ROY ENGINEERING COLLEGE, DURGAPUR
Association: IIPC & Carrier Council Cell

PHOTO RECORD ↗

03

WORKSHOP · 15 APR 2024

Short Term Training Program On"VLSI & Its Recent Advancements

Venue: XILINX LAB, ECE DEPARTMENT, DR. B.C.ROY ENGINEERING COLLEGE, DURGAPUR
Association: AICTE

PHOTO RECORD ↗

3 ECE records

Dates, locations, associations and photo-record links are taken from the supplied event workbook.

How to read this calendar

Each card carries the venue, the hosting association and the photo record link; together they show the academic year as a sequence of encounters, not a list.



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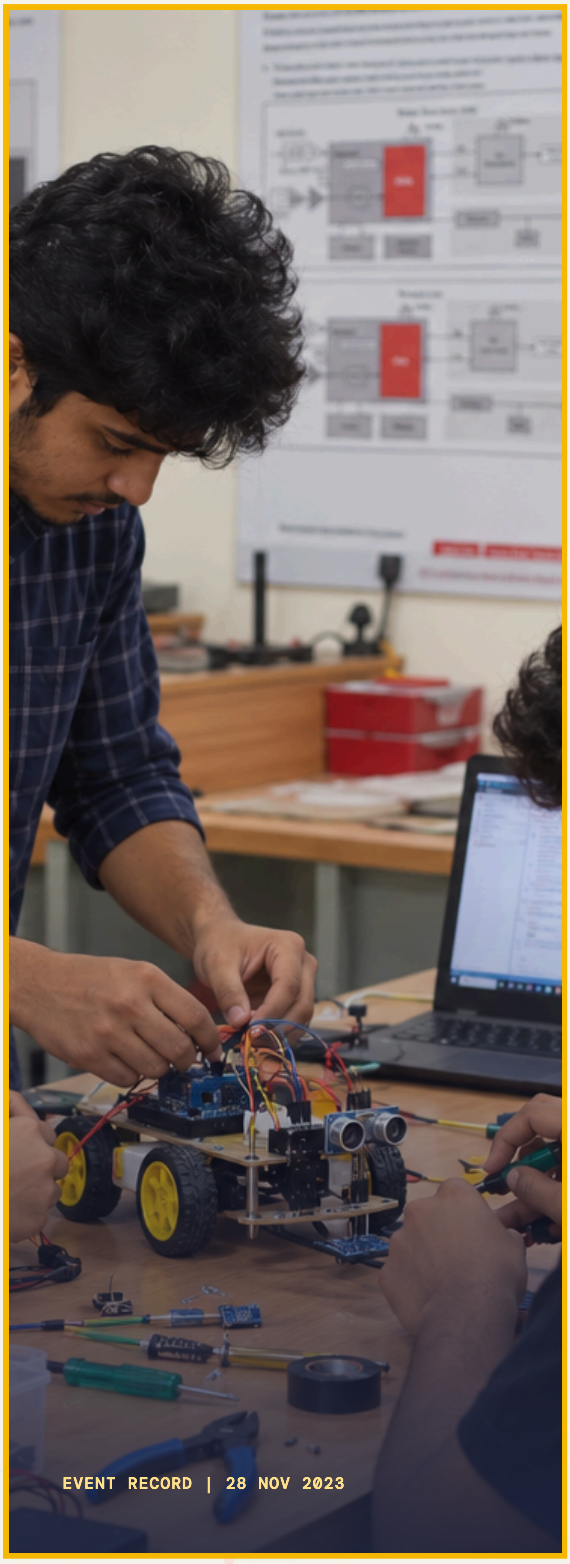
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EVENT RECORD | 28 NOV 2023

05 / EVENT FEATURE

Awareness Of The Innovation Opportunity In The Field Of Soft Robotics And Sensor Design.

The event record places this engagement in ECE DEAPRTMENT-GF 02 SEMINER ROOM, under DEPARTMENTAL SEMINAR WORKSHOP ORGANIZING COMMITTEE.

Its value in the newsletter is not a claim about outcomes that are not documented here. It is a clear marker of the department's working range: students and faculty met a topic, a tool or a professional context that sits beyond the routine lecture sequence.

Read beside the programme outcomes, the event becomes a prompt for the next question: what should a student be able to analyse, design or communicate after encountering this topic?

DATE
28 NOV 2023

ASSOCIATION
IIPC, IEEE Student Branch

PHOTO / EVIDENCE RECORD ↗

EVENT LENS

What motivated the session, what it used, what it left behind.

RECORD RULE

Only the supplied event workbook fields are printed.

06 / EVENTS CONTINUED

From the calendar to the lab

Three more records from the year, arranged as a visual event board.

01

TALK / SESSION · 22 MAR 2024

Expert Talk & Career Counseling Session For Higher Studies Like GATE.

Venue: ALBERT EINSTEIN HALL OF DR. B.C.ROY ENGINEERING COLLEGE, DURGAPUR
Association: IIPC & Carrier Council Cell

PHOTO RECORD ↗

02

WORKSHOP · 15 APR 2024

Short Term Training Program On"VLSI & Its Recent Advancements

Venue: XILINX LAB, ECE DEPARTMENT, DR. B.C.ROY ENGINEERING COLLEGE, DURGAPUR
Association: AICTE

PHOTO RECORD ↗

DATE	EVENT	LOCATION	CO-HOST / ASSOCIATION
28 NOV 2023	**Awareness Of The Innovation Opportunity In The Field Of Soft Robotics And Sensor Design.** Department event	ECE DEAPRTMENT-GF 02 SEMINER ROOM	IIPC, IEEE Student Branch
22 MAR 2024	**Expert Talk & Career Counseling Session For Higher Studies Like GATE.** Talk / session	ALBERT EINSTEIN HALL OF DR. B.C.ROY ENGINEERING COLLEGE, DURGAPUR	IIPC & Carrier Council Cell
15 APR 2024	**Short Term Training Program On"VLSI & Its Recent Advancements** Workshop	XILINX LAB, ECE DEPARTMENT, DR. B.C.ROY ENGINEERING COLLEGE, DURGAPUR	AICTE



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BOARD RULE

Every card repeats a row from the event table below it.

NEXT PAGE

Faculty development records continue the yearly activity calendar.

07 / FACULTY DEVELOPMENT AND PROFESSIONAL ACTIVITY

Faculty learning is part of the department record

The supplied professional-activities export records 30 ECE entries for this academic year. The list includes FDPs, seminars, workshops, short-term programmes and related learning activity.

30
RECORDED ACTIVITIES

11
FACULTY CONTRIBUTORS

4
ACTIVITY TYPES

24 JUN 2024

Exploring The Future Of Artificial Intelligence And Machine Learning

Department of Computer Science and Engineering

22 APR 2024

Machine Learning Application For Sustainable Society

Department of CSE, Dr. B. C. Roy Engineering College, Durgapur

15 APR 2024

Recent Advances And Future Trends In AI And Nlp

Global Institute of Science and Technology, Haldia

Why it belongs here

Faculty development changes what enters the classroom: a new tool, a sharper example, a better test or a question that deserves research time.



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08 / PROFESSIONAL ACTIVITY REGISTER

Selected faculty development records

Selected entries from the supplied professional_activities.csv export.

DATE	ACTIVITY	ORGANIZER	LOCATION
19 MAR 2024	**Etstai** FDP	DR. B. C. Roy Engineering College, Durgapur.	Durgapur
11 MAR 2024	**Emerging Frontiers: Navigating The Convergence Of Technology & Science For Present Progress & Future Innovation** FDP	BCREC	International
19 FEB 2024	**Pedagogy** FDP	SST Cell, BCREC	Durgapur
16 DEC 2023	**Additive & Subtractive Manufacturing** FDP	AIDTE IDEA LAB, BCREC	BCREC
28 NOV 2023	**My Story-Motivational Session By Successful Innovators** SEMINAR	IIPC & ECE Dept. BCREC	BCREC
21 AUG 2023	**Cloud Infrastructure** FDP	Dept. of CSE, JNTUK University College of Engineering Narasaraopet , Andhra Pradesh	Dept. of CSE, JNTUK University College of Engineering Narasaraopet , Andhra Pradesh
21 AUG 2023	**One Week National Level FDP On "Cloud Infrastructure (Aws)** FDP	Dept. of CSE, JNTUK University College of Engineering Narasaraopet , Andhra Pradesh in collaboration with Brainovision Solutions India Pvt.Ltd and AICTE	Durgapur
11 AUG 2023	**FDP On "Latex Typesetting Software** FDP	ME Department, Dr. B. C. Roy Engineering College, Durgapur in association with the Nodal Centre of Spoken Tutorial, IIT Bombay	Durgapur
01 AUG 2023	**Introduction To Adaptive Signal Processing** FDP	IIT, MADRAS	IITKGP

Records are listed as supplied. Dates and organizer names are not expanded beyond the export.



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A Collect — Take the professional-activity records as supplied.

B Match — Map each record to this academic year.

C Print — Keep organizer and location fields unchanged.

D Check — Recount before the issue is released.

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09 / PROFESSIONAL ACTIVITY REGISTER

More learning outside the timetable

The second register page keeps the year visible as a sequence of people, topics and institutions.

DATE	ACTIVITY	ORGANIZER	LOCATION
24 JUN 2024	**Exploring The Future Of Artificial Intelligence And Machine Learning** FDP	Department of Computer Science and Engineering	IEM Newtown
22 APR 2024	**Machine Learning Application For Sustainable Society** FDP	Department of CSE, Dr. B. C. Roy Engineering College, Durgapur	DURGAPUR
05 FEB 2024	**FDP On "Data Science And Its Applications (Dsca 2024)** FDP	Department of Computer Application, Dr. B. C. Roy Academy of Professional Courses	Durgapur
19 DEC 2023	**From Engineering Electromagnetics To Electromagnetic Engineering** WORKSHOP	IEEE APS Joint Section Chapter-Silchar, IEEE MTT-S Student branch Chapter @ NIT Silchar and IEEE Silchar Subsection in Association with Department of Electronics and Communication Engineering, National Institute of Technology Silchar	NIT Silchar (Online Mode)
16 DEC 2023	**FDP On " Additive & Subtractive Manufacturing** FDP	AICTE IDEA LAB, BCREC	IDEA LAB, BCREC
16 DEC 2023	**Additive And Subtractive Manufacturing** FDP	AICTE IDEA LAB, BCREC	Dr. B. C Roy Engineering College, Durgapur
07 DEC 2023	**Webinar On "Non-Ionizing Electromagnetic Wave Interactions With Human Tissue** SEMINAR	IEEE IISc MTT/AP-S Student Branch Chapter	IISC Bengaluru
28 AUG 2023	**Use Of AI/MI In Real World** SEMINAR	Computer Science and Technology Department of Dr. B. C. Roy Polytechnic	Dr. B. C. Roy Polytechnic
24 JUL 2023	**Bio-Medical Engineering** FDP	NITTTR, Kolkata	NITTTR, Kolkata

ACTIVITY LENS

Tools, pedagogy, emerging technology and professional practice.

EDITORIAL RULE

Only records present in the supplied export are counted.

Register rule

The second register page keeps the year visible as a sequence of people, topics and institutions; short lists stay short rather than padded.

10 / PUBLICATION RECORD

Research in print

The publication exports give this issue a measurable research section. The cards below count ECE records by category for 2023-24.

JOURNAL ARTICLES	CONFERENCE PAPERS	BOOK CHAPTERS	ARTICLES	PATENTS
14 RECORDS	14 RECORDS	01 RECORDS	00 RECORDS	00 RECORDS

What the numbers contain

Across the four categories, the record moves between antennas, signal processing, embedded systems, AI, healthcare instrumentation, VLSI, communications and related engineering applications. The titles are varied; the common discipline is the need to state a problem clearly and defend a method.

A system is intelligent when its decisions remain understandable under changed conditions.



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INDEX NOTE

Counts come from the publication export, grouped by the field supplied with each record.

READING RULE

Titles stay as exported; no venue or index is added where the record has none.

11 / JOURNAL ARTICLES

Journal record

14 journal-article records are mapped to 2023-24 in the supplied export.

DATE	TITLE / CONTRIBUTOR	VENUE
16 JUN 2024	**Speed-Power Efficient Novel Cmos Unary-To-Ternary Encoder** Dr. Aloke Saha · SCI	IETE Journal of Research
14 JUN 2024	**A Dense Sub-Graph-Based Approach For Automatic Detection Of Optic Disc** Dr. Tribeni Prasad Banerjee · Scopus	International Journal of Bioinformatics Research Appllication
25 APR 2024	**Novel Single-Step 32Nm-Cmos Hardware T-Encryptor/Decryptor** Dr. Aloke Saha · SCI	IETE Journal of Research
15 MAR 2024	**Efficient 3'S Complement Circuit For Ternary-Alu** Dr. Anup Kumar Das · Scopus	Journal of Integrated Circuits and Systems
15 MAR 2024	**Efficient 3'S Complement Circuit For Ternary-Alu** Dr. Aloke Saha · Scopus	Journal of Integrated Circuits and Systems
06 MAR 2024	**Compact Antenna For Higher Order Harmonic Reduction Using Efficient Defected Ground Structure** Sri Surajit Batabyal · SCI	Physica Scripta
06 MAR 2024	**Compact Antenna For Higher Order Harmonic Reduction Using Efficient Defected Ground Structure** Smt. Subhadra Debroy · SCI	Physica Scripta

JOURNAL ARTICLES **14** ECE FACULTY RECORDS



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INDEX TYPES

SCI, SCIE, Scopus and ESCI labels are printed exactly as exported.

COVERAGE

Journal records mapped to this academic year only; earlier years stay in their own volume.

12 / CONFERENCE PAPERS

Conference record

Conference entries show where ECE research meets peer discussion, technical communities and applied problems.

DATE	TITLE / CONTRIBUTOR	VENUE
08 JUN 2024	**Power Efficient Novel Cmos Double-Base To Binary Encoder (Dbe)** Dr. Aloke Saha · Scopus	IEEE International Conference on Integrated Circuits, Communication, and Computing Systems (ICIC3S)
03 APR 2024	**Review On Ultra-Wideband Multi-Input And Multi-Output Antennas Withnotched Band Characteristics** Dr. Mrinmoy Chakraborty · Scopus	International IOT, Electronics and Mechatronics Conference
03 APR 2024	**Srijita Chakraborty , Wrishav Das , Deeptapol Datta , Dipta Chaudhuri , Aditi Raj & Mrinmoy Chakraborty** Dr. Mrinmoy Chakraborty · Scopus	International IOT, Electronics and Mechatronics Conference
18 DEC 2023	**Novel Ultrawide Band Multi Input/Multi Output Antenna Design With Single Notch Characteristics And Investigation With Improved Isolation** Sri Samujjwal Ray · SCI	7th International Conference on Electronics, Materials Engineering & Nano-Technology (IEMENTech)
18 DEC 2023	**Novel Ultrawide Band Multi Input/Multi Output Antenna Design With Single Notch Characteristics And Investigation With Improved Isolation** Sri Moloy Mukherjee · SCI	2023 7th International Conference on Electronics, Materials Engineering & Nano-Technology (IEMENTech)
11 DEC 2023	**A Compact Wideband Crp Antenna For Advanced Wireless Communication,** Sri Surajit Batabyal · SCI	2023 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON),
11 DEC 2023	**A Compact Wideband Crp Antenna For Advanced Wireless Communication,** Smt. Subhadra Debroy · Other	2023 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON),
10 DEC 2023	**Robust Decoupled Periodic Compensation For Continuous-Time Multi-Input And Multi-Output System** Sri Tapas Roy · SCI	2023 IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC)
06 DEC 2023	**Mutual Coupling Reduction Of A Multiband And Broadband Mimo Antenna Using Truncation Of The Patch** Dr. Aritra Bhowmik · Other	9th International Conference of Sabaragamuwa University of Sri Lanka

CONFERENCE OUTPUT IN THIS ISSUE

14 records

Venue, index and contributor fields are retained where present in the supplied publication export.

A Collect — Take the conference records from the export.

B Match — Map each record to this academic year.

C Print — Keep venue and index fields as supplied.

D Check — Recount before the issue is released.

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13 / BOOK CHAPTERS AND ARTICLES

Long-form contributions

Book chapters and article records add another scale to the department's research presence.

Book chapters · 01

DATE	TITLE / CONTRIBUTOR	VENUE
28 JUL 2023	**Novel Cmos 1-Digit Bcd-Adder Correction Circuit** Dr. Aloke Saha	Lecture Notes in Electrical Engineering

Articles · 00

DATE	TITLE / CONTRIBUTOR	VENUE

A blank title or incomplete venue field has not been replaced with invented copy.



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Register note

A thin table is a real count, not a layout failure: only records mapped to this academic year are printed.

COVERAGE

Book chapters appear here; journal and conference records stay on their own register pages.

NEXT VOLUME

New chapters enter the register as the supplied export provides them.

3
ECE events

59
publication records

30
faculty activities

231
students in represented cohorts

A Question
Name the real problem.

B Method
Choose evidence that can answer it.

C Result
Show what changed.

D Limit
State where it stops working.

14 / PATENTS AND APPLIED RESEARCH

Ideas that leave the paper

Patent records in the supplied export point to applied work across healthcare, IoT, energy, safety and assistive systems.

00 patent records mapped to this academic year in the supplied ECE export.



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No patent record

The supplied ECE export contains no patent record mapped to this academic year; the empty grid is printed as found.

COVERAGE

Patent records appear only where the export supplies a date, title and status.

NEXT VOLUME

Granted and registered designs enter the register as the export provides them.

3
ECE events

59
publication records

30
faculty activities

231
students in represented cohorts

A Read
Read the applied problem each patent names.

B Status
Take the status exactly as the export records it.

C Compare
Set the count beside the journal and conference tables.

D Check
Recount before the issue is released.

15 / RESEARCH THEMES

Four research lanes

The publication titles form a readable map of the department's research interests. The lanes below are an editorial grouping of the records, not a new institutional classification.

01

VLSI and devices

Circuits, filters, adder design, metamaterials and device-level questions.

02

Antennas and communication

Microstrip antennas, GNSS, wireless systems, phased arrays and connected mobility.

03

AI, signal and data

Signal fusion, prediction, image compression, reinforcement learning and analytics.

04

Healthcare and society

Biomedical signals, monitoring, assistive devices, safety and human context.

A Question
Name the real problem.

B Method
Choose evidence that can answer it.

C Result
Show what changed.

D Limit
State where it stops working.

Research rule

The four lanes are an editorial grouping of the exported titles; they help a reader find a thread without inventing a new department classification.

EVIDENCE LENS

Every lane above resolves to records printed on the register pages of this issue.

NEXT STEP

New records enter the register first; the lanes are revised only after that.

16 / STUDENT CONTEXT

The cohort is part of the story

Student names are not printed as a public roll list here. The supplied batch workbooks are used to keep the issue anchored to the size and progression of the student community.

BATCH REGISTER

2019-2023

STUDENTS REPRESENTED

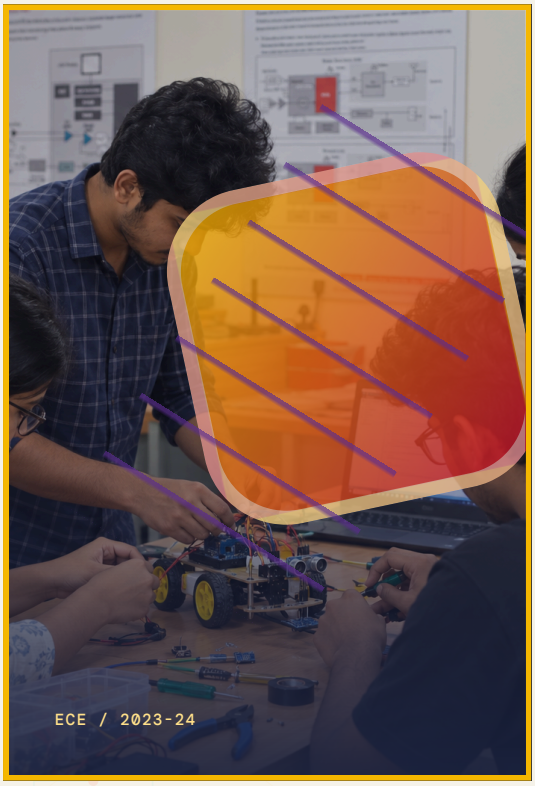
125

BATCH REGISTER

2020-2024

STUDENTS REPRESENTED

106



ECE / 2023-24

STUDENT-FACING EDITORIAL

Learning becomes visible when a project has a boundary.

A project gives a student a boundary: a sensor to read, a signal to clean, a link to stabilise or a device to explain. The boundary makes decisions visible. It also makes teamwork necessary, because the circuit, the code, the report and the demonstration cannot be separated for long.

The event and publication records in this volume provide different routes into that practice. A workshop can supply a new tool; a visit can add context; a paper can show how a narrow question is defended.

Cohort note

The counts above come from the supplied batch workbooks: they describe who the issue is written for, not a ranking of any student or batch.

A Read
Start from the supplied batch workbook.

B Count
Take the cohort size the workbook states.

C Context
Set the count beside events and publications.

D Revise
Update only when the workbook changes.

17 / FEATURE ARTICLE

Sensors do not think; systems do

A sensor delivers a measurement. The engineering begins when a system decides what that measurement is allowed to mean.

A temperature sensor can report a number with impressive precision and still be wrong for the application. It may be too slow for a control loop, too exposed to local heat, too power-hungry for a battery or too fragile for the enclosure. The data sheet is a beginning, not a design review.

Embedded work becomes clearer when the path from environment to decision is drawn explicitly. What is sensed? How is it sampled? What happens when the value is missing? How does the decision reach an actuator or a person? These questions turn a collection of modules into a system with behaviour that can be tested.

The best prototype is not the one with the most components. It is the one that makes the important failure visible early. A deliberate test for timing, power, noise and recovery can reveal more than a polished demonstration that only works in ideal conditions.

PROJECT TRANSLATION

Four ways to begin

01 **Measure**
Start with a signal, a reference and a question.

02 **Connect**
Define the source, channel and context around the message.

03 **Compute**
Make the algorithm answer a physical requirement.

04 **Account**
Test the edge case and state the limitation.

> **A system is intelligent when its decisions remain understandable under changed conditions.**

DESIGN LENS

Purpose, power, enclosure and test plan are design decisions, not afterthoughts.

EDITORIAL RULE

Interpretive essays are labelled; the record pages stay with the source data.

18 / FACULTY DIRECTORY

The people at the desk

Faculty names and designations are taken from the supplied faculty.csv file. Contact details are kept out of this public layout.

	Dr. Tapas Mondal	Associate Professor
	Smt. Moutusi Mondal	Assistant Professor
	Smt. Keka Hajra	Assistant Professor
	Sri Samujjwal Ray	Assistant Professor
	Sri Pradipta Sarkar	Assistant Professor
	Sri Surajit Batabyal	Assistant Professor
	Sri Moloy Mukherjee	Assistant Professor
	Sri Tapas Roy	Assistant Professor
	Dr. Aritra Bhowmik	Assistant Professor
AS	Dr. Aloke Saha	Professor
	Dr. Mrinmoy Chakraborty	Associate Professor
	Dr. Sourav Moitra	Associate Professor
	Sri Nilkamal Bhunia	Assistant Professor
	Dr. Tribeni Prasad Banerjee	Associate Professor
KM	Dr. Khondekar Mofazzal Hossain	Vice Principal & Professor
	Dr. Anup Kumar Das	Assistant Professor
	Smt. Subhadra Debroy	Assistant Professor
SP	Sri Soumendra Pain	Assistant Professor
DC	Smt. Dipta Chaudhuri	Assistant Professor
	Dr. Anirban Chattopadhyay	Assistant Professor
	Dr. Abhijit Banerjee	Associate Professor
RR	Dr. Ramkrishna Rakshit	Assistant Professor

HOD Dr. Mrinmoy Chakraborty CONVENER Dr. Sourav Moitra DEPARTMENT Electronics & Communication Engineering

DIRECTORY RULE

Designations follow the supplied faculty export; photographs are the official BCREC portraits.

OFFICE HOURS

Departmental contact details are shared through the college office, not printed here.

19 / DEPARTMENT PROFILE

How the record is assembled

The event and activity exports show a department working through committees, co-hosts, labs, seminar rooms, industry sites and higher-study conversations.

Event committees

03	DEPARTMENTAL SEMINAR WORKSHOP ORGANIZING COMMITTEE

Associations and co-hosts

01	IIPC, IEEE Student Branch
01	IIPC & Carrier Council Cell
01	AICTE

3 documented ECE events

Each event card in this issue points back to the supplied workbook. The newsletter keeps the record human-readable without changing the source fields.



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Assembly rule

Committee and co-host fields are counted as exported; where a field is blank the issue prints a note instead of a guess.

WHERE RECORDS LIVE

Events, activities, publications and cohorts each keep their own supplied export.

WHAT CHANGES NEXT

Verified photographs and captions can be added without touching the counts.

20 / EDITORIAL RECORD

Sources and credits

This volume is designed to be revised as verified photographs, student project notes and approved departmental messages become available.

PRIMARY SOURCES

Records used in this issue

- events (1).xlsx, filtered to Department = ECE.
- PUBLICATIONS exports: journal articles, conferences, book chapters, articles, patents and professional activities.
- faculty.csv, filtered to Department = ECE.
- Student batch workbooks used only for cohort counts.
- Mechanical Engineering newsletter PDF used as the structural and page-rhythm reference.
- Official BCREC ECE webpage images used as visual references for the generated project imagery.

EDITORIAL METHOD

What has been kept visible

Dates, titles, venues, contributors, counts and source links remain close to the records that supplied them. Interpretive articles are labelled as editorial pieces. Missing fields are not replaced with invented details.

Sanjog

Department of Electronics & Communication Engineering
Dr. Sourav Moitra · Convener
Dr. Mrinmoy Chakraborty · HOD

Prepared as an editable HTML newsletter layout. Add approved event photographs, student project captions and final institutional messages before public release.

NEXT REVISION

Verified photographs, project captions and approved messages can be added without changing the layout.

CONTACT

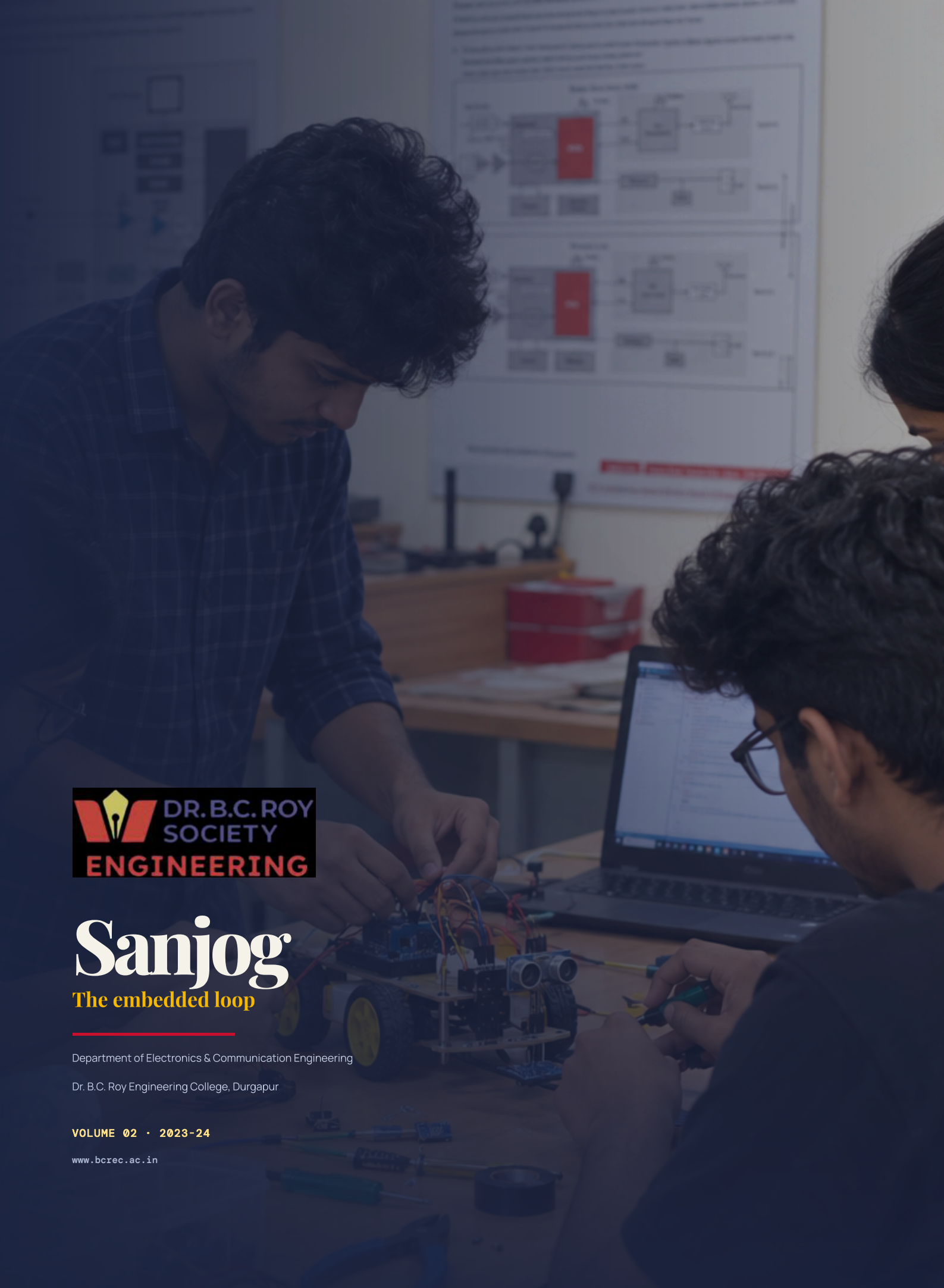
Department of Electronics & Communication Engineering, Dr. B.C. Roy Engineering College, Durgapur.

A Collect
Gather photographs and captions as they are approved.

B Verify
Check each record against its source file.

C Credit
Name the source beside every printed figure.

D Revise
Rebuild the issue; the layout keeps its structure.



DR. B.C. ROY SOCIETY ENGINEERING

Sanjog

The embedded loop

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