# JIS COLLEGE OF ENGINEERING

# ANNUAL REPORT 2024



DEPARTMENT OF BIOMEDICAL ENGINEERING



#### DEPARTMENT OF BIOMEDICAL ENGINEERING

#### Vision:

To foster excellence in Biomedical Engineering Education and Research at both undergraduate and postgraduate levels, by producing globally competitive professionals to serve the mankind and society.

#### Mission:

**DM1:** To provide graduates with the knowledge and abilities needed for their professional development in biomedical engineering.

**DM2:** To create a learning environment that promotes excellence, equipping future professionals with the skills and expertise necessary to thrive in the rapidly evolving landscape of medical technology.

**DM3:** To instill in Biomedical Engineering graduates a sense of professionalism, ethics, values, and a drive for innovation, responsibility, commitment, and leadership.

#### **Program Specific Outcomes (PSOs)**

**PSO1:** Graduates will be able to design and develop indigenous medical devices that addresses the present societal healthcare problems by applying the concepts of Medical science, Engineering and Technology.

**PSO2:** Graduates shall use software expertise and information and communication technology (ICT) to innovate and resolve problems in the medical field.

**PSO3:** Graduates will be equipped with the skills and knowledge necessary to conduct research, use innovative medical technologies in a multidisciplinary setting with professionalism and ethics.

# **Annual Report 2023-24**

Department of Biomedical Engineering JIS College of Engineering, Kalyani

### 1. Faculty & Technical Staff:

The department has at present twelve nos. of full-time faculty members and one technical staff (TA). The faculty members are encouraged for R&D activity. As per the students' feedback, our faculty maintains an excellent standard of teaching, maintaining a harmonious and cordial relation with the students.

SL NO.	NAME OF FACULTIES	DATE OF JOINING	DESIGNATION	EDUCATIONAL QUALIFICATION
1	Dr. Sandip Bag	05/10/2005	Professor	Ph.D
2	Dr. Karabi Ganguly	21/07/2006	HOD-BME	Ph.D
3	Ms. Swati Sikdar	27/07/2015	Asst. Professor	M.Tech
4	Ms. Sayanti Guha	11/07/2017	Asst. Professor	M.Tech
5	Dr. Dibyendu Mandal	01/08/2020	Asst. Professor	Ph. D
6	Ms. Sumana Banerjee	16/01/2020	Asst. Professor	M.E.

Technical Assistant: Mr. Gourango Halder & Mr. Manoj Halder

### 2. Students:

BATCH	NO. OF STUDENTS
2020-2024	26
2021-2025	28
2022-2026	30
2023-2027	30

### 3. Laboratories:

The department has at present six laboratories namely

- i) Physiology & Materials Testing Laboratory (Room No. 222).
- ii) Biomedical Instrumentation Laboratory (Room No. 215).
- iii) Biomedical Signal & Image Processing Laboratory (Room No. 214 B).
- iv) Industry sponsored Laboratory (Room No. 214 A).
- v) X-ray & Imaging Laboratory (Room No. 129).
- vi) Project cum Seminar (Room No. 213 A).

### 4. Responsibilities of Faculty Members:

	Delegation of Responsibility (Departmental)						
Sl. No.	Nature of Responsibility	Name of the teacher assigned to that job					
1	Board of Studies in Biomedical Engineering	Dr. Karabi Ganguly (Chairperson) & All BME Faculty Members.					
2	In-Charge - Physiology & Materials Testing Laboratory	Dr. Karabi Ganguly Dr. Dibyendu Mandal					
3	In-Charge -Biomedical Instrumentation Laboratory	Dr. Sandip Bag Ms. Sumana Bnaerjee					
4	In-Charge - Biomedical Signal Processing & Image Processing Laboratory	Dr. Dibyendu Mandal Ms. Sumana Bnaerjee Ms. Mitul Chakraborty					
5	In Charge - X-ray & Imaging Laboratory	Dr. Dibyendu Mandal & Ms. Sayanti Guha					
6	Departmental Committee (DC) and related issues	Dr. Karabi Ganguly (Chairperson) & All BME Faculty Members.					
7	Time table preparation for lecture and lab classes	Dr. Sandip Bag					
8	Research & Development	Dr. Karabi Ganguly Dr. Sandip Bag Dr. Dibyendu Mandal					
9	Examination matters	Ms. Sumana Banaerjee (Intuitional Exam Cell member)					

10	In Charge - Departmental Library	Dr. Sandip Bag
11	Laboratory & Infrastructure Development	Dr. Karabi Ganguly Dr. Sandip Bag Dr. Dibyendu Mandal
12	Social service and related affairs	Dr. Karabi Ganguly Ms. Mitul Chakraborty
13	Preparation of the annual report & Newsletter	Dr. Karabi Ganguly Dr. Sandip Bag Dr. Dibyendu Mandal Ms. Sumana Bnaerjee
14	Students' mentorship	All Faculty Members of the Department

# **5. Training of Students Details:**

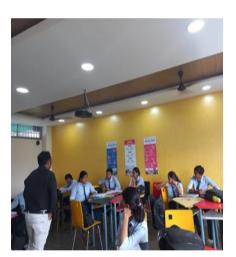
SL NO	NAME OF STUDENT	NAME OF THE ORGANIZATION
1	AGNIV DASGUPTA	INSTITUTE OF CHILD HEALTH
2	ANKAN RISHAB MAITY	WOODLANDS MULTISPECIALITY HOSPITAL
3	ANKAN SHIT	WOODLANDS MULTISPECIALITY HOSPITAL
4	DIBYENDU GHOSH	WOODLANDS MULTISPECIALITY HOSPITAL
5	NIKITA SAHA	FORTIS HEALTHCARE LTD
6	PAYEL KAPAT	INSTITUTE OF CHILD HEALTH
7	PRITTHIJIT MAZUMDER	INSTITUTE OF CHILD HEALTH
8	RHIDDHI BISWAS	INSTITUTE OF CHILD HEALTH
9	SAHANOWAJ MALITYA	WOODLANDS MULTISPECIALITY HOSPITAL
10	SANJIBAN SANTRA	WOODLANDS MULTISPECIALITY HOSPITAL
11	SHATABHISA PAUL	INSTITUTE OF CHILD HEALTH
12	SHEIKH RASHEL	WOODLANDS MULTISPECIALITY HOSPITAL
13	SHRESHTHA ROY	INSTITUTE OF CHILD HEALTH
14	SNEHA DAS	INSTITUTE OF CHILD HEALTH
15	SOUMIK HORE	WOODLANDS MULTISPECIALITY HOSPITAL
16	SOUVAGHYA HORE	WOODLANDS MULTISPECIALITY HOSPITAL

17	SUJAY KUMAR ROY	WOODLANDS MULTISPECIALITY HOSPITAL
18	UMESH MONDAL	INSTITUTE OF CHILD HEALTH
19	SREYA NANDY	INSTITUTE OF CHILD HEALTH
20	SOHANA PARVIN	INSTITUTE OF CHILD HEALTH
21	MANOJ HALDER	INSTITUTE OF CHILD HEALTH

### 6. Industry Institute Interaction Activity:

Department of Biomedical Engineering organizes Industry Institute Interaction which provides betterment of teaching-learning processes, creates awareness among the students about the environment of the industry, provides practical knowledge to students and develops self-confidence of students to become an entrepreneur. Mr. Anirban Basu (Regional Manager-East, Ultrasound Business, Philips) Imparting Exposure on Medical Device Design and Development, Clinical Engineering, Biomedical research, Business Development and Management Discussing the prospect of promising engineering at PHILIPS as well as Introduction to Medical Device Design Testing takes place respectively. Industry Institute Interaction Activity with Students Session Coordinated by Dr. Karabi Ganguly HOD & Associate Professor Dept. of BME, JISCE, Conducting session on Medical Device Design and Development.

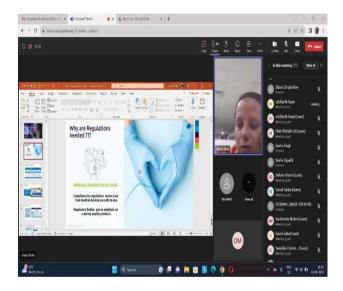


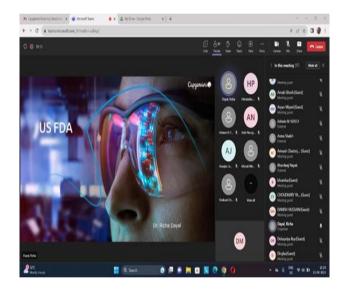




# 7. Seminar/Conference/Workshop Organized:

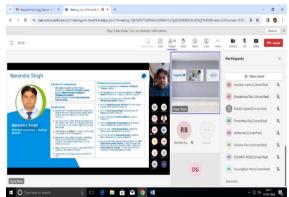
Name of Visitor / Guest Speaker	Designation/ Occupation	Seminar/ Workshop/ Conference Topic	Total Participant	Date
Dr. Richa Dayal	Subject Expert SPOC-Medical & Healthcare Solution-Capgemini	Capgemini Orientation Program as a part of the MOU execution activity	41	11.08.2023
Dr. Richa Dayal	Subject Expert SPOC-Medical & Healthcare Solution-Capgemini	Capgemini Wrap-up session on Requirement Engineering (as a part of the MOU execution activity)	40	18.08.2023
Dr. Richa Dayal	Subject Expert SPOC-Medical & Healthcare Solution-Capgemini	Webinar on Recent Trends in Medical Imaging	41	25.08.2023





Name of Visitor / Guest Speaker	Designation/ Occupation	Seminar/ Workshop/ Conference Topic	Total Participant	Date
Mr. Narendra Singh	Principal Consultant, Medical Device, Capgemini	Session on Requirement Engineering: QMS/QSR for pre final year BME students	28	15.03.2024
Mr. Narendra Singh	Mr. Narendra Singh  Principal Consultant, Medical Device, Capgemini  Entrepreneurship in session on Requirem Engineering: Health Insurance Portability and Accountability (HIPAA) Compliance		28	22.03.2024
Mr. Nikhil Hande	Manager, Capgemini.	Session on Requirement Engineering.	28	29.03.2024
Dr. Richa Dayal	Subject Expert SPOC-Medical & Healthcare Solution-Capgemini	Session-1 on Regulation and Standards in Medical Device Orientation Program (as a part of the MOU execution activity)	28	05.04.2024
Dr. Richa Dayal	Subject Expert SPOC-Medical & Healthcare Solution-Capgemini	Session-2 on Regulation and Standards in Medical Device Orientation Program (as a part of the MOU execution activity)	28	30.04.2024
Dr. Richa Dayal  Subject Expert SPOC-Medical & Healthcare Solution-Capgemini		Session-3 on Regulation and Standards in Medical Device Orientation Program (as a part of the MOU execution activity)	28	03.05.2024





Name of Visitor/ Guest Speaker	Seminar/ Workshop/ Conference Topic	Total Participant	Date	Outcome
Dr. Karabi Ganguly (HOD-BME) and Faculty Members, BME-JISCE	Vigyan – Jyoti DST-GOI	29	29.01.2024	Girl Students of JNV Kalyani got exposure of various Physiological Parameter measurement and identification during Physiology & Materials Testing Lab visit in Science Camp at Dept. BME.

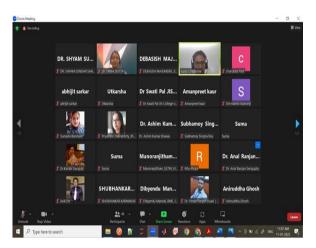


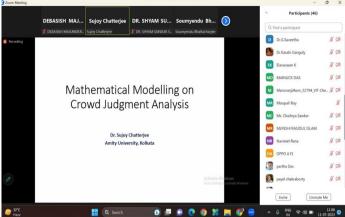




# 8. Achievement of Faculty:

Name of the Faculty	Year	Achievement	Date
Dr. Sandip Bag			
Dr. Karabi Ganguly		Completed FDP on Mathematical Modelling in science and Technology.	10/07/2023- 14/07/2023
Mrs. Swati Sikdar	2023		
Dr. Dibyendu Mandal			
Mrs. Sumana Banerjee			





Dept.	Name of the Faculty	Year	Achievement	Certifying Body	Date
	Dr. Karabi Ganguly		Invited talk as Resource Person at CN Calcutta News Live Panel Discussion on JISCE Campus: Scope of Biomedical Engineering & Mechanical Engineering.	JIS Group & CN Calcutta News	14.07.2023
BME	Dr. Karabi Ganguly	2023	Invited talk at JNV KALYANI VIGYAN JYOTI PROJECT under DST.GOVT. of India on Unraveling the Genetic Tapestry: Exploring Human Heredity'	DST.GOVT. of India	26.07.2023





Dept.	Name of the Faculty	Year	Achievement	Certifying Body	Date
ВМЕ	Dr. Karabi Ganguly	2023	Invited as Resource Person and Speaker in Regional Science Congress-2023 organized by Regional Navodaya Vidyalaya Samiti	JISCE	20.09.2023





Dept.	Name of the Faculty	Year	Achievement	Date
	Dr. Karabi Ganguly	2023	Exposure of Dept. of BME & JISCE in Induction Program for 2023 admission batch	04.09.2023
	Dr. Karabi Ganguly	2023	Exposure of Expert Talk on 'Teaching Learning Practice at JISCE' in 1ST YEAR INDUCTION PROGRAM 2023 at JISCE	7.09.2023
ВМЕ	Mrs. Sumana Banerjee	2023	Project coordinator for JIS Tech2k23.	20.11.2023
	Dr. Karabi Ganguly	2023	PROGRAM HOST and coordinator of AMRIT-KAL VIMARASH VIKASIT BHARAT @2047 AICTE & Ministry of Education	20.09.2023
	Dr. Karabi Ganguly	2023	Took the initiative to Interactive session on Women's health Myth & Misconceptions by Dr. G.Vishnu Vandana	23.12.2023
	Dr. Karabi Ganguly	2023	Invited as Resource Person at DD Bangla Live Panel Discussion on JISCE Campus: Scope &Carrier of Biomedical Engineering.	09.02.2024
	Dr. Karabi Ganguly 2022		Invited as Resource Person at CN Calcutta News Live Panel Discussion on JISCE Campus: Uchcho Sikhkhar Sera Thikana.	23.06.2024





Name of the Faculty	Year	Achievement	Date
Dr. Karabi Ganguly		Invited as Judge in 31st Cluster Level NCSC-2023, Govt. of India	17.09.2023
	2023	Invited as a Judge for Smart India Hackathon at JISCE Intra College Phase	26.09.2023
		Invited as a Judge at JISCE on Engineers Day Celebration: 'Innovation and Creativity'	15.09.2023











Dept.	Name of the Faculty	Year	Achievement	Date
BME	Dr. Karabi Ganguly	2023	Invited talk as Resource Person at CN Calcutta News Live Panel Discussion on JISCE Campus: Scope of Biomedical Engineering & Mechanical Engineering.	14.07.2023



Dept.	Name of the Faculty	Year	Achievement	Date
BME	Dr. Karabi Ganguly	2024	Invited talk as Resource Person at DD Bangla Live Panel Discussion on JISCE Campus: Scope & Carrier of Biomedical Engineering.	09.02.2024





Name of the Faculty	Year	Achievement	Date
Dr. Karabi Ganguly	2024	Invited talk as Resource Person at CN Calcutta News Live Panel Discussion on JISCE Campus: Uchcho Sikhkhar Sera Thikana.	23.06.2024





# $9. \ Journal \ Publications \ of \ Faculty:$

Sl. No.	Faculty Author(s)	Title of the Paper	Journal Name (including Vol., Issue, Page No., Year)	National/ International	ISSN No.
1	Sandip Bag & Dibyendu Mandal	Revolutionizing Healthcare: The Role of Biosensors in Modern Medicine.	Journal of Engineering and Technology Management. Vol- 72; pp 2088-2097: June, 2024	International (SCOPUS)	1879-1719

2	Karabi Ganguly	Implementation of AI for Subsequent Gender Detection and Inclusive Approaches for Representation	Journal of Engineering and Technology Management. Vol- 72; pp 2078-2087: June, 2024	International (SCOPUS)	1879-1719
3	Sumana Banerjee & Dibyendu Mandal	EMG Signal Acquisition and Processing for Feature Extraction And Detection of Disease	Journal of Engineering and Technology Management. Vol- 72; pp 1637-1650: June, 2024	International (SCOPUS)	1879-1719
4	Sandip Bag	Integration of Heart Rate and SpO2 Monitoring in Wearable Health Technology	Journal of Engineering and Technology Management. Vol- 72; pp 1613-1618: June, 2024	International (SCOPUS)	1879-1719
5	Sumana Banerjee	Detection of Tumour and Its Properties fromThermal Image	Journal of Emerging Technologies and Innovative Research. Vol- 11(5); pp 1219- 1227: May, 2024	International	2349-5162
6	Karabi Ganguly	A Machine Learning Approach for the Analysis of Human Emotions	Journal of Chemical Health Risks. Vol- 14(2); pp 2154- 2164: April, 2024	International (SCOPUS)	2251-6727
7	Karabi Ganguly	Novel Strategies Towards Early Bone Cancer Detection: Matlab Integrated Image Processing Approach	Journal of Chemical Health Risks. Vol- 14(2); pp 12-19: March, 2024	International (SCOPUS)	2251-6727
8	Sumana Banerjee	Detecting Blood Vessels in Retinal Images using Gaussian Filter Derivatives	International Journal of Research and Analytical Reviews. Vol- 11(1); pp 876-879 March, 2024	International	2349-5138
9	Sumana Banerjee	Classification of Black Tea by QCM based Electronic Nose.	International Journal of Research and Analytical Reviews. Vol- 11(1); pp 866-869 March, 2024	International	2349-5138
10	Karabi Ganguly	Enhancing Lung Cancer Diagnosis with MATLAB and GLCM: A Robust Image Processing Approach.	TWIST International Multidisciplinary Journal. Vol- 19(1); pp 454-462: March, 2024	International (SCOPUS)	1759-0418
11	Sumana Banerjee	Detecting blood vessels in a retinal image using the entropic thresholding approach.	International Journal of Research and Analytical Reviews. Vol- 11(1); pp 873-876 February, 2024	International	2349-5138
12	Sumana Banerjee	Retinal image analysis is to identify blood vessels.	International Journal of Research and Analytical Reviews. Vol- 11(1); pp 790-795 February, 2024	International	2349-5138

	Karabi Ganguly  Karabi Ganguly	Glycemic Stress Analysis and Wellness Monitoring.  Detection of Cancer Cells by Using Visible and IR Photo-	International Journal of Innovative Research in Technology. Vol- 10(11), pp 1883- 1886: April, 2024 YMER Vol-23(1): pp 200 –	International  International (SCOPUS)	2349-6002 0044-0477
		Sensors through Image Processing Technique.	212: January, 2024		
15	Karabi Ganguly	Gastrointestinal Disorders: Identification, Detection, and Categorization Based on Deeply Cognitive Networks and Epiglodean Characteristics.	YMER Vol-22(12): pp 1524 – 1535: January, 2024	International (SCOPUS)	0044-0477
	Karabi Ganguly & Dibyendu Mandal	Advancements in robotic surgery: innovations, challenges and future prospects.	Journal of Robotic Surgery. Vol-18, pp 2 -11, December, 2023	International (SCOPUS)	1863-2491
17	Karabi Ganguly	Unveiling the U-Net Architecture for MRI Image Segmentation In Deep Learning	Journal of Xidian University Vol- 17(11); pp 83-96: November, 2023	International (SCOPUS)	1001-2400
18	Dibyendu Mandal & Sandip Bag	Smart Health Monitoring using Wearable Device Sensors: A Brief Review.	International Journal of Pharma and Biosciences. Vol-14(4); pp 46-61: October, 2023	International (WOS)	0975-6299
19	Karabi Ganguly	Image Processing for Automated Leukemia Detection and Stage Prediction	Journal of Xidian University Vol- 17(10); pp 1068-1080: October, 2023	International (SCOPUS)	1001-2400
20	Karabi Ganguly	Precision Measurement of Cancer Cell Diameter by Quantitative Analysis of MRI Data Using GUI	International Journal of Innovative Research in Technology. Vol- 10(2): pp 517-522: July 2023	International	2349-6002
21	Karabi Ganguly	A Non-Invasive and Predictive Machine Learning Approach to Detect Breast Cancer	International Journal of Research and Analytical Reviews. Vol- 10(3); pp 35-42: July 2023	International	2348-1269
22	Karabi Ganguly	Precision Measurement of Cancer Cell Diameter by Quantitative Analysis of MRI Data using GUI.	International Journal of Innovative Research in Technology. Vol- 10(2); pp 517-522: July 2023	International	2349-6002

# 10. Book Chapter

Sl.	Faculty	Title of the Chapter	Name of the Book	ISBN No.	Page No.
No.	Author(s)				
1	Sandip Bag	Biodegradable Polymers: The		978-93-5747-731-4	195-213
	&	Versatile Forever Material	Chemical, Material Sciences		
	Dibyendu Mandal		& Nano Technology		

### 11. Faculty involvement in Conference/Seminar/Workshop:

- [1] Dr. Karabi Ganguly, Dr. Sandip Bag, Sumana Banerjee, Dr. Dibyendu Mandal- Successfully completed 5 Days FDP on Mathematical Modelling from 10.07.2023-14.07.2023.
- [2] Dr. Karabi Ganguly, Dr. Sandip Bag, Sumana Banerjee, Dr. Dibyendu Mandal- Successfully completed 5 Days FDP on Road MAP to Excellence held on 31.07.2023.
- [3] Dr. Karabi Ganguly, Dr. Sandip Bag, Sumana Banerjee, Dr. Dibyendu Mandal- Successfully completed NDLI club training program on Discover your Research potential with IEEE Explore on 01.08.2023.
- [4] Dr. Karabi Ganguly, Dr. Sandip Bag, Sumana Banerjee, Dr. Dibyendu Mandal- Successfully completed Administrative Training Program on use of Institutional LMS on 04.08.2023.
- [5] Dr. Karabi Ganguly- Delivered Expert Talk on 'Teaching Learning Practice at JISCE' in 1<sup>ST</sup> YEAR INDUCTION PROGRAM 2023 at JISCE on 07.09.2023.
- [6] Dr. Karabi Ganguly- PROGRAM HOST and coordinator of Amrit-Kal Vimarash Vikasit Bharat @2047 AICTE & Ministry of Education on 20.09.2023.
- [7] Dr. Karabi Ganguly, Dr. Sandip Bag, Sumana Banerjee, Dr. Dibyendu Mandal- Successfully completed Seminar on 'Advancing Consultancy Activities at JISCE' on 27.09.2023.
- [8] Dr. Karabi Ganguly, Dr. Sandip Bag, Sumana Banerjee- Successfully completed Seminar on 'Developing a active consulting planning at JIS GROUP –a source of knowledge and opportunities for students faculties' on 13.10.2023.
- [9] Dr. Dibyendu Mandal- Successfully completed AICTE/UGC-Based Credit Framework (LOCF)Examination reforms workshop during 9.10.2023 to 13.10.2023.
- [10] Dr. Karabi Ganguly, Sumana Banerjee- Successfully conducted Seminar on Microwave sensing and Imaging: A new ERA in physiological monitoring on 10.10.2023.

### 12. Faculty Award Achievement:

- [1] Dr. Karabi Ganguly- Invited as Resource Person at DD BANGLA News Live Panel Discussion on JISCE Campus: Scope of Biomedical Engineering & Mechanical Engineering on 09.02.2024.
- [2] Dr. Karabi Ganguly- SPOC & PROGRAMME COORDINATOR at JIS SPIRIT 2024 held on 16.01.2024.
- [3] Dr. Karabi Ganguly, Dr. Sandip Bag, Sumana Banerjee, Dr. Dibyendu Mandal, Ms. Sayanti Guha-Successfully Participated in Nobel Laureate Lecture Science & Spirituality, Speaker: Prof. William D. Phillips held on 10.01.2024
- [4] Dr. Sandip Bag, Sumana Banerjee, Dr. Dibyendu Mandal- Successfully completed 5Days FDP on PRESENT SCENARIO OF LIGHTNING SECTOR: INDUSTRY 4.0" held on 26.01.2024 to 02.02.2024.
- [5] Dr. Karabi Ganguly, Dr. Sandip Bag, Sumana Banerjee, Dr. Dibyendu Mandal- Successfully completed NDLI club training program on Discover your Research potential with IEEE Explore on 01.08.2023.

- [6] Dr. Karabi Ganguly, Dr. Sandip Bag, Sumana Banerjee, Dr. Dibyendu Mandal- Successfully Organised One Day Science Camp. Girl Students of JNV Kalyani got exposure of various Physiological Parameter measurement and identification during Physiology & Materials Testing Lab visit in Science Camp at Dept. BME held on 10.01.2024.
- [7] Dr. Karabi Ganguly -PROGRAM HOST and Coordinator of Seminar on Convergence of wide Spectrum Capabilities Yields Women-Srishti Shakti held on 07.03.2024 & 08.03.2024.
- [8] Sumana Banerjee -Actively Participated in Seminar on Convergence of wide Spectrum Capabilities Yields Women-Srishti Shakti" held on 07.03.2024 & 08.03.2024.
- [9] Dr. Karabi Ganguly- Awarded and got prize money in JIS INNOVATION AWARD 2024 for research activity and publication" held on 22.5.2024.
- [10] Dr. Sandip Bag Awarded and got prize money in JIS INNOVATION AWARD 2024 for research activity and publication" held on 22.5.2024.
- [11] Dr. Dibyendu Mandal Awarded and got prize money in JIS INNOVATION AWARD 2024 for research activity and publication" held on 22.5.2024.
- [12] Dr. Karabi Ganguly- Invited talk as Resource Person at CN Calcutta News Live Panel Discussion on JISCE Campus: Uchcho Sikhkhar Sera Thikana held on 23.06.24.



Dr. Dibyendu Mandal: - Awarded and got prize money in JIS INNOVATION AWARD 2024 for research activity and publication



Dr. Karabi Ganguly Awarded and got prize money in JIS INNOVATION AWARD 2024 for research activity and publication



Dr. Sandip Bag: - Awarded and got prize money in JIS INNOVATION AWARD 2024 for research activity and publication







#### Invited as a Judge for Smart India Hackathon at JISCE Intra College Phase





Invited as Judge in 31st Cluster Level NCSC- 2023, Govt. of India

Conducted Seminar on Microwave sensing and Imaging: A new ERA in physiological monitoring



AICTE/UGC-Based credit Framework (LOCF)Examination reforms workshop



To

Dr. Sandip Bag Professor

Department of Biomedical Engineering

**JIS College Engineering** 

It is our immense pleasure to inform you that Shyampur Siddheswari Mahavidyalaya is going to organize its annual Science Project Exhibition (ANNUAL SAME 2022) a signature event of the Institute on 10th October, 2023 at the College campus.

Major objective of this symposium is to inspire students to convert their ideas into design& development and at the name time provide a larger platform to the young innovators to showcase their projects to a wider peer group. All the projects would be evaluated by external experts from academia and industry and top three prototypes would be funded for patent filing. In this perspective we cordially welcome to be member of honorable panel of judges of the Science Project Exhibition.

Sir/Madam, we would also request you to be part of the inaugural programme at 12 noon on

We all look forward for participation of your students in appreciable numbers and present of some of their noteworthy projects so that through exchange of ideas we together can grow scientifically, culturally as well as technically.

With best regards,

( DR. SARYASACID SEN )

Principal:



Invited as Judge in Shyampur siddheswari Mahabiddyalaya science project exhibition anneshawn@ssm 2023

## 13. BME Extra-Academic Activities:





Deeksharambh 2023-Fresher's Welcome





Session with 1st Year Students & 4th Year Placed Students













Annual Cultural Fest-MAJISTIC 2K24-JISCE





Laboratory Visit of Biomedical Engineering Department, Students of Class 12 from JNV-Kalyani, JISCE.



Rabindra Nazrul Jayanti Celebration-Biomedical Engineering Department, JISCE



Farewell celebration Biomedical Engineering Department, JISCE



Actively Participated in JIS Tech2k23 at JISCE.

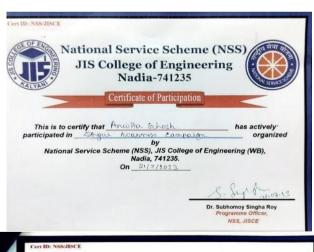
## 14. Student Publications

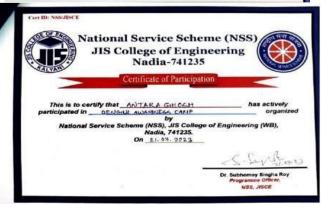
Name of the Student(s) & Semester	Name of the faculty coordinator (if any)	Type of Publication (Journal/Conference/Abstr act/Proceedings/Books/etc)	National/ International	Date of publication	ISSN/ ISBN No.	Whether peer reviewed, impact factor, if any
Utsab Ray	Karabi Ganguly	Journal Paper (International Journal of Innovative Research in Technology)	International	02.07.2023	349-6002	Peer Reviewed
Utsab Ray	Karabi Ganguly	Journal Paper (International Journal of Innovative Research in Technology)	International	05.07.2023	1349-5138	Peer Reviewed

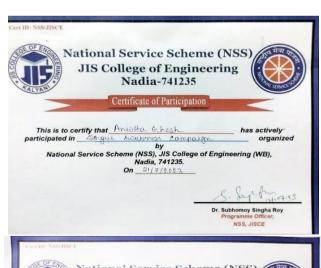
# 15. Achievement & Award of Students

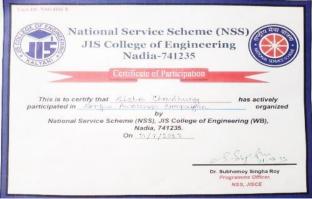
Sl.	Student Name	Year	Achievement	Date
01	Diptayan Mukherjee Dwaip An Roy Sonali Sarkar Swastika Mukherjee	2023	Awarded for best Departmental Project & get 1 <sup>ST</sup> prize in JISTECK2K23 at JISCE.	24.11.2023- 25.11.2023
02	Agniv Dasgupta Sk. Rashel Ankan Shit Shreya Nandy Sneha Das	2023	Awarded for best Departmental 2ND project & get 2ND prize in JISTECK2K23 at JISCE.	24.11.2023- 25.11.2023
03	Monoj Halder Nikita Saha Sohana Parvin Mehul Podder	2023	Awarded for best Departmental Project & get 3RD PRIZE in JISTECK2K23 at JISCE.	24.11.2023- 25.11.2023
04	BME 1st year Students	2023	Awarded for best wall magazine & get 2 <sup>nd</sup> prize in JISTECK2K23 at JISCE.	24.11.2023- 25.11.2023
05	BME 2 <sup>nd</sup> year Students	2023	Awarded for best ART Designing & get 1ST prize in JISTECK2K23 at JISCE.	24.11.2023- 25.11.2023
06	BME 3rd year Students	2023	Awarded for best photography & get 2 <sup>nd</sup> prize in JISTECK2K23 at JISCE.	24.11.2023- 25.11.2023
07	BME 3rd year Students	2023	Awarded for best painting Designing & get 1ST prize in JISTECK2K23 at JISCE.	24.11.2023- 25.11.2023

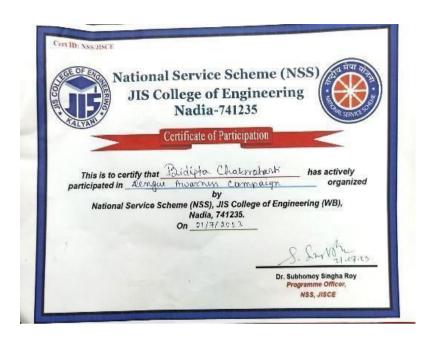
Name of the Dept.	Name of the Student(s) & Semester	Achievement	YEAR	CERTIFYING BODY	DATE
ВМЕ	Antara Ghosh	Actively Participated In Dengue Awareness Camp And Achieved Certificate.	2 <sup>nd</sup> Year	JIS Group & NSS	21.07.2023
ВМЕ	Disha Chowdhury	Actively Participated In Dengue Awareness Camp And Achieved Certificate.	2 <sup>nd</sup> Year	JIS GROUP & NSS	21.07.2023
ВМЕ	Anwita Ghosh	Actively Participated In Dengue Awareness Camp And Achieved Certificate.	2 <sup>nd</sup> Year	JIS Group & NSS	21.07.2023
ВМЕ	Disha Bhandari	Actively Participated In Dengue Awareness Camp And Achieved Certificate.	2 <sup>nd</sup> Year	JIS GROUP & NSS	21.07.2023
ВМЕ	Bidipta Chakraborty	Actively Participated In Dengue Awareness Camp And Achieved Certificate.	2 <sup>nd</sup> Year	JIS GROUP & NSS	21.07.2023











Name of the Dept.	Name of the Student(s)	Achievement	Year	Certifying body	Date
BME	Antara Ghosh	Successfully completed COURSERA COUSE	2 <sup>nd</sup> Year	JIS Group & Coursera	21.07.2023
ВМЕ	Antara Ghosh	Participation in Environment and lifestyle Quiz	2 <sup>nd</sup> Year	Ministry of Environment, Forest and climate change Govt.of India.	20.07.2023







Dept.	Name of the student	Year	Achievement	Date
ВМЕ	Dhrubajoti Adhikari. Disha Bhandari	2023	Actively participated in Training Program on Discover Your Research Potential with IEEE XPLORE	02.08.2023

Dept.	Students Name	Year	Achievement	Date
BME	Antara Ghosh, Anwita Ghosh	2023	Actively participated in Training Program on Discover Your Research Potential with IEEE explore	02.08.2023

Dept.	Students Name	Year	Achievement	Date
BME	Diptayan Mukherjee	2023-24	BME 4 <sup>TH</sup> students Awarded for best innovative project & get Prize in IDEA Competition at JISCE.	27.02.2024
	Swastika Chatterjee		Awarded in JIS INNOVATION AWARD 2024	02.05.2024
	Diptayan Mukherjee, Swastika Chatterjee,Sonali Sarkar,Pradyut Karmakar.		Awarded for best Departmental project & get 1 <sup>ST</sup> PRIZE in JISTECK2K23 at JISCE.	25.11.2023
	Agniv Dasgupta SK Rashel, Ankan Shit, Shreya Nandy, Sneha Das		Awarded for best Departmental 2 <sup>ND</sup> project & get 2 <sup>ND</sup> PRIZE in JISTECK2K23 at JISCE.	25.11.2023
	MonojHaldar, Nikita Saha, SohanaParvin Mehul Podder		Awarded for best Departmental project & get 3 <sup>RD</sup> PRIZE in JISTECK2K23 at JISCE.	25.11.2023

## **16.** Student Awards & Achievement in JISTECH2K23:









