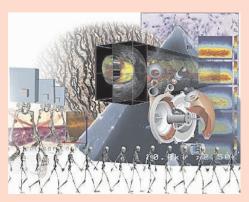






BIOMED NEWS 2022-2023

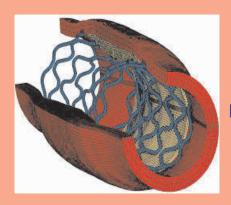


Volume-II JANUARY TO JUNE-2023



# **Biomedical Engineering**

JIS COLLEGE OF ENGINEERING, KALYANI (AN AUTONOMOUS INSTITUTE)



**EDITORS**:

DR. KARABI GANGULY
MS. SUMANA BANERJEE

STUDENT COORDINATOR: DIPTAYAN MUKHERJEE



### 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.

#### **Programme Educational Objectives (PEOs):**

**PEO1:** Graduates shall pursue advanced studies and have successful careers in diverse fields in Biomedical Engineering.

**PEO2:** Graduates will be able to recognize, evaluate, and resolve issues by innovative concept and upto-date information to satisfy societal expectations.

**PEO3:**Graduates shall excel themselves in field of teaching, research and development with their indepth knowledge and innovative minds.

**PEO4:**Graduates will be able to apply practical knowledge and skill for successful entrepreneurship.

**PEO5:**Graduates shall work as part of teams on interdisciplinary projects with the multifaceted aspects of using modern tools

#### **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.

# INDUSTRY-INSTITUTEACTIVITYWITHCTS

### Future prospect discussion on budding engineering at Cognizant.

| Sl No. | Name of Dept. | Name of the<br>Industry | Date of Visit | Organized by (Name & Designation) | Outcome   |
|--------|---------------|-------------------------|---------------|-----------------------------------|---|
| 01     | ВМЕ           | CTS                     | 31.01.2023    | JISCE-TNP                         | Discussing the future prospect of budding engineering at Cognizant. |

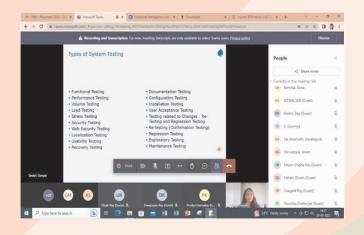


# Discussion on to Software Engineering & Software Testing Life cycle with Cappemini

| Sl No. | Name of | Name of the | Date of Visit | Organized by (Name | Outcome  |
|--------|---------|-------------|---------------|--------------------|--|
|        | Dept.   | Industry    |               | & Designation)     |  |
| 01     | ВМЕ     | Capgemini   | 15.02.2023    | HOD-BME            | Introduction to Software<br>Engineering & Software<br>Testing Life cycle |



| Sl No. | Name of Dept. | Name of the Industry | Date of Visit | Organized by (Name<br>& Designation) | Outcome                             |
|--------|---------------|----------------------|---------------|--------------------------------------|-------------------------------------|
| 01     | BME           | Capgemini            | 29.03.2023    | HOD-BME                              | Introduction to<br>Software Testing |



# ONE-DAY SEMINAR & WORKSHOP ON VIGYAN-JYOTI SPONSORED BY DST-GOI

|                          |   | Conference Topic   | Participant        |                    | by                 |
|--------------------------|---|--------------------|--------------------|--------------------|--------------------|
| D-BME and<br>ty Members, | HOD-BME and Faculty<br>Members, BME-JISCE | Vigyan- Jyoti      | 20                 | 13.04.23           | DST-GOI            |
| y                        |   | Members, BME-JISCE | Members, BME-JISCE | Members, BME-JISCE | Members, BME-JISCE |



ONE-DAYSEMINER&WORKSHOPONVIGYAN-JYOTISPONSORED BY DST-GOI

# TRAINING ON REQUIREMENT ENGINEERING AS MoU EXECUTION ACTIVITY WITH CAPGEMINI

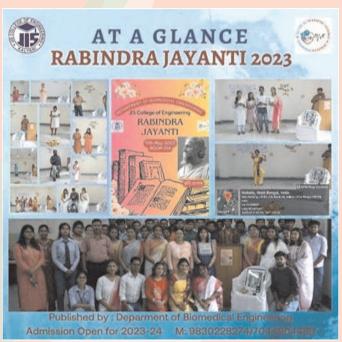


As a part of MoU execution activity for Capgemini, Dr. Karabi Ganguly (HoD-BME) conducted the in house training on Requirement Engineering for B.Tech BME final year students.

### **BMEEXTRA-ACADEMICACTIVITIES**



**DRAWING & PAINTING COMPETITION** 





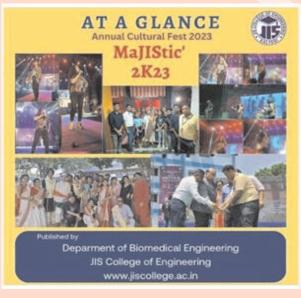


FARE WELL PARTY FOR BME 2023 GRADUATE BATCH





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





#### Annual Cultural Fest-MAJISTIC 2K23-JISCE



A WARDED FOR Highest no of publication in JIS SANMAN 2023



JIS Innovation Award for Publication and Patent



Selected in Bengal Global Trade Expo 2023 from Engineers Connect



Bengal Global Trade Expo 2023

January 25, 2023 - January 28, 2023 09:00 IST - 19:00 IST Location: Biswa Bangla Mela Prangan (Milan Mela) Opp Science City Directions: Near Trade Fair Grounds, Kolkata, West Bengal 700105

Barcode: 3767580625

3767580625
Ticket Number:
3767580625
Ticket Holder: Utsab Ray

Awarded with token of appreciation from Google Cloud

#### **Faculty Achievement**

- Dr. Karabi Ganguly Delivered Invited Talk on Biomedical Engineering eagragati at DD Bangla on 06.01.2023
- Dr. Karabi Ganguly Delivered Invited Talkin 12<sup>th</sup> International Photographic Conference on 23.01.2023.
- Dr. Dibyendu Mandal Successfully presented his research work in ICMSME2023on19.01.2023.
- Dr. Sandip Bag Invited as Resource Person at UGC HRDC Refresher Coursefor Faculty on 03.03.2023
- Swati Sikdar Delivered Invited Talkon Engineering Physiology & Engineering Psychologyon 07.03.2023.
- **⊃** Dr. Karabi Ganguly- Invited as Resource Person at UGC HRDC Refresher Course for Faculty on 10.03.2023.
- Dr. Karabi Ganguly-Invited as Resource Person at UGC HRDC Refresher Course for Faculty on 13.03.2023 Sponsored by NEHU-Shillong
- **⊃** Dr. Karabi Ganguly, Dr. Sandip Bag, Swati Sikdar, Dr. Dibyendu Mandal- Sensitization Programme on paper publication in indexed journals & Research on 12th &13 th APRIL 2023.
- ➡ Ms. Sayanti Guha, Dr. Howa Begam, Ms. Sumana Banerjee, Ms. Swati Sikdar, Dr. D.Mondal, Dr.K. Ganguly, Dr. S.Bag- Successfully completedFDP on Research & Development from 10.4.23 to 13.4.23 & 17.4.23.
- **⊃** Dr. Karabi Ganguly, Dr. Dibyendu Mandal- Successfully completed Workshop on Design Thinking on 27<sup>th</sup> & 28<sup>th</sup>June 2023 at JISCE.





FDP on NEP 2020

Workshop on Design Thinking





Invited talk at JNV KALYANI VIGYAN JYOTI PROJECT under DST. GOVT. of India on Unraveling the Genetic Tapestry: Exploring Human Heredity'

Invited talk as Resource Person at CN Calcutta News Live Panel Discussion on JISCE Campus: Scope of Biomedical Engineering & Mechanical Engineering.



One day FDP On Road MAP to Excellence

5Days FDP on Mathematical Modelling

# **Student Achievement**

| Sl. | Student Name       | Year | Achievement  | Venue/Organizer/<br>Certifying Body | Date           |
|-----|--------------------|------|--|-------------------------------------|----------------|
| 1   | Utsab Ray          | 2023 | Published his research work in an UGC<br>Care Journal  | IJSREM                              | 16 Jan 2023    |
| 2   | Utsab Ray          | 2023 | Presented his research work in 12 <sup>th</sup> International Photographic Conference 2023               | PAD                                 | 23-27 Jan 2023 |
| 3   | Utsab Ray          | 2023 | Selected in Bengal Global Trade<br>Expo 2023 from Engineers Connect                                      | Engineers Connect                   | 25-28 Jan 2023 |
| 4   | Utsab Ray          | 2023 | Awarded with token of appreciation   | Google Cloud                        | Jan 2023       |
| 5   | Utsab Ray          | 2023 | Published his research work in an UGC Care Journal   | IJCRT                               | 16 Feb 2023    |
| 6   | Utsab Ray          | 2023 | 1st position RANGMANCH ZINDEGIKA<br>(Drama/Skit – Socio/Socio Economic<br>Theme – Group)                 | JISCE                               | Feb 2023       |
| 7   | Utsab Ray          | 2023 | 3 <sup>rd</sup> position in RANGMANCH<br>ZINDEGIKA (Drama/Skit – Socio/Socio<br>Economic Theme – (Group) | JISCE                               | Feb 2023       |
| 8   | Utsab Ray          | 2023 | 2 <sup>nd</sup> position in BAND (Group)   | JISCE                               | Feb 2023       |
| 9   | Mehuli Poddar      | 2023 | 2nd position in RANGMANCH<br>ZINDEGIKA (Drama/Skit – Socio/Socio<br>Economic Theme – (Group)             | JISCE                               | Feb 2023       |
| 10  | Sneha Das          | 2023 | 3rd position in RANGMANCH<br>ZINDEGIKA (Drama/Skit – Socio/Socio<br>Economic Theme – (Group)             | JISCE                               | Feb 2023       |
| 11  | Asmita Chakraborty | 2023 | 1st Position in FASHION SHOW (Group)   | JISCE                               | Feb 2023       |
| 12  | Asmita Chakraborty | 2023 | 1st position in MALANG - E –MRIDANG (Classical / Semi Classical Dance – Solo                             | JISCE                               | Feb 2023       |
| 13  | Kuhali Ghosh       | 2023 | 1st Position in FASHION SHOW (Group)   | JISCE                               | Feb 2023       |
| 14  | Sahali Ghosh       | 2023 | 1st Position in FASHION SHOW (Group)   | JISCE                               | Feb 2023       |
| 15  | Atmika Paul        | 2023 | 1st Position in FEET BEAT (Dance – Any Form – Group)   | JISCE                               | Feb 2023       |
| 16  | Aikantika Roy      | 2023 | 1 <sup>st</sup> position in RECITATION (Solo)  | JISCE                               | Feb 2023       |
| 17  | Anubhav Mukherjee  | 2023 | 2 <sup>nd</sup> Position in WINGS OF<br>IMAGINATION – Sketching on the Spot                              | JISCE                               | Feb 2023       |
| 18  | Smita Rakshit      | 2023 | 3 <sup>rd</sup> Position in WINGS OF<br>IMAGINATION – Sketching on the Spot                              | JISCE                               | Feb 2023       |
| 19  | Dipal Kr Singh     | 2023 | 2 <sup>nd</sup> Position in PHOTOGRAPHY<br>COMPETITION   | JISCE                               | Feb 2023       |

# **Student Publication**

| Name of the Student(s) &  | Name of the                        | Type of Publication   | National/     | Date of           | ISSN/ ISBN No.                                | Whether peer                          |
|---|------------------------------------|---|---------------|-------------------|---|---------------------------------------|
| Semester  | faculty<br>coordinator<br>(if any) | (Journal/Conference/Abstract/<br>Proceedings/ Books/etc)  | International | _                 |   | reviewed,<br>impact factor,<br>if any |
| Utsab Ray   | K Ganguly                          | Journal Paper<br>(International Journal of Scientific<br>Research in Engineering &<br>management) | International | 16 Jan<br>2023    | 2582-<br>3930                                 | Peer<br>Reviewed                      |
| Utsab Ray   | K Ganguly<br>M Pal                 | Conference Presentation<br>(12 <sup>th</sup> International Photographic<br>Conference 2023)       | International | 23-27 Jan<br>2023 | 978-93-<br>5786-<br>184-7                     | Peer<br>Reviewed                      |
| Utsab Ray   | K Ganguly                          | Journal Paper<br>(International Journal of Creative<br>Research Thoughts)                         | International | 16 Feb<br>2023    | 2320-<br>2882                                 | Peer<br>Reviewed                      |
| Utsab Ray   | K Ganguly                          | Journal Paper<br>(Journal of Emerging Technologies<br>& Innovative Research)                      | International | 28 Feb<br>2023    | 234 <mark>9-</mark><br>5162                   | Peer<br>Reviewed                      |
| Saikat Saha, Sandip Jana,<br>Dipal Kumar Singh,<br>Akash Kumar Handique,<br>Utsab Ray | K Ganguly                          | Journal Paper<br>(International Journal of Innovative<br>Research in Technology)                  | International | 09.03.2023        | 2349-<br>6002                                 | Peer<br>Reviewed                      |
| Rakhi Pandey,<br>Iqra Faizyab   | S Bag<br>D Mandal                  | Journal Paper (International Journal of Scientific Research in Engineering & management)          | International | 10.03.2023        | 2349-5162                                     | Peer<br>Reviewed                      |
| Dipayan Mondal<br>Mili Gupta,<br>Sutanu Chakravorty                                   | S Sikdar<br>K Ganguly              | Journal Paper<br>(Journal Of Emerging Technology<br>and Innovative Research)                      | International | 17 March<br>2023  | 2349-<br>5162                                 | Peer<br>Reviewed                      |
| Rupankar Ghoshal,<br>Sujaya Dey Udbhasita Pal   | D Mandal<br>S Bag<br>S Sikdar      | Journal Paper<br>(International Research Journal of<br>Engineering and technology)                | International | 25 March<br>2023  | 2395-<br>0072                                 | P <mark>ee</mark> r<br>Reviewed       |
| T Paul, A Chowdhury,<br>S Roy, D Mondal,<br>M Samaddar, N Kar                         | A Patra                            | Journal Paper<br>(International Journal of Research<br>Publication and Reviews)                   | International | 24 March<br>2023  | 2582<br>-7421                                 | Peer<br>Reviewed                      |
| U Ray<br>J Mallick  | K Ganguly,<br>S Bag                | Journal Paper<br>(Journal of Emerging Technology<br>and Innovative Research)                      | International | 30 march<br>2023  | 2349<br>-5162                                 | Peer<br>Reviewed                      |
| U Ray, S Aktar,<br>A Chakraborty, S Kabasi<br>P Singha, A Mondal                      | A Patra                            | Journal Paper<br>(International Journal of Research<br>Publication and Reviews)                   | International | April 2023        | 2582<br>-7421                                 | Peer<br>Reviewed                      |
| Utsab Ray   | K Ganguly                          | Journal Paper<br>(International Journal of Research<br>and Analytical Reviews)                    | International | 13 April<br>2023  | E- ISSN 2348<br>- 1269, P- ISSN<br>2349 -5138 | Peer<br>Reviewed                      |
| Utsab Ray   | K Ganguly                          | Journal Paper (International Journal of Creative Research Thoughts)                               | International | 09 April<br>2023  | 2320<br>- 2882                                | Peer<br>Reviewed                      |
| Utsab Ray   | K Ganguly                          | Journal Paper (International Journal of Creative Research Thoughts)                               | International | 11 June<br>2023   | 2320<br>- 2882                                | Peer<br>Reviewed                      |
| R Jha, S Mustaree,<br>J Chakraborty, T Sarkar<br>M RudraPal                           | S. Bag                             | Journal Paper<br>(International Journal of Research<br>Publication and Reviews)                   | International | June 2023         | 2582-   | Peer<br>Reviewed                      |
| J Saha, S Das, A Kumar,<br>A Mukhopadhyay<br>H Shaikh, S Paul                         | S Sikdar                           | Journal Paper<br>(International Journal of Research<br>Publication and Reviews)                   | International | June 2023         | 2582-<br>7421                                 | Peer<br>Reviewed                      |
| R Shaikh, S Jaman,<br>A Saha, S Mondal<br>R Choudhury                                 | D Mandal                           | Journal Paper<br>(International Journal of Research<br>Publication and Reviews)                   | International | June 2023         | 2582-<br>7421                                 | Peer<br>Reviewed                      |

# Faculty involvement in Conference/ Seminar/ Workshop organized at JISCE, Kalyani

- **Dr. Karabi Ganguly, Dr. Dibyendu Mandal** Successfully completed Workshop on Design Thinking on 27<sup>th</sup> & 28<sup>th</sup> June 2023 at JISCE.
- Swati Sikdar, Sumana Banerjee- Successfully completed FDP on NEP 2020 held on 27.06.2023.

# **Publications by Faculty Members:**

### **Book Chapters:**

| SL NO. | Name of the faculty                    | Journal   | Indexed in Scopus/<br>Thompsons &<br>Reuters | Link of the journal in Scopus/<br>Thompsons & Reuters index  |
|--------|--|---|--|--|
| 1.     | S Bag, S Sikdar                        | Book Chapter- Effective Health<br>Screening and Prompt Vaccination<br>to Prevent the Spread of Covid-19<br>and Minimize its Adverse Effects | •  | https://link.springer.com/chapter/10.1007/<br>978- 3-031-19752-9_14  |
| 2.     | D Mandal, S Bag,<br>S Sikdar, K Halder | Paper Title: Extraction and characterization of acid soluble Collagen Type I from Sperata Aor   | UGC Care                                     | ISSN: 2349 5162 (16 <sup>th</sup> Jan 2023)  |
| 3.     | K Ganguly                              | Paper Title: Deployment of<br>Random Forest Algorithm to<br>Prophesize the Exact Price of Gold.   | UGC Care                                     | International Journal of Scientific Research in Engineering & Management ISSN: 2582 3930 (16 <sup>th</sup> Jan 2023) |
| 4.     | D Mandal                               | Paper Title: Electrochemical Study<br>of Graphitic Oxide and Reduced<br>Graphene Oxide Emphasizing on<br>Their Defect Densities             |  | Presented in ICMSME2023 (19-20 Jan 2023)   |
| 5.     | K Ganguly                              | Paper Title: Probing of Chest X-<br>Ray Image Using Deep Learning<br>to Evince Physiological<br>Abnormalities & Disease<br>Conditions       |  | Presented in 12 <sup>th</sup> International Photographic Conference 2023 (23-27 Jan 2023)                            |
| 6.     | K Ganguly                              | Paper Title: Machine Learning<br>Predictive Model to detect the<br>fraudulent use of credit card  | UGC Care                                     | IMPACT FACTOR:-7.97  |
| 7.     | K Ganguly                              | Paper Title: Machine Learning<br>Predictive Model to detect spam<br>email   | UGC Care                                     | IMPACT FACTOR:-7.95  |
| 8.     | D Mandal                               | Paper Title: Constitutive modeling<br>of human cornea through<br>fractional calculus approach   |  | https://aip.scitation.org/doi/10.1063/5.013<br>8730  |
| 9.     | S Bag, D Mandal                        | Paper Title: Biomechanical<br>Measurement of Muscle Force on<br>Various Degree of Flexion at<br>Elbow Joint                                 | A second                                     | https://www.jetir.org/papers/JETIR23031<br>76.pdf  |
| 10.    | S Sikdar,<br>K Ganguly                 | Paper Title: Tracing out the Discomfort & Dissymmetry in The Lower Extremity Considering the Aspect of Foot Pressure                        |  | https://www.jetir.org/papers/JETIR23033<br>44.pdf  |

| SL<br>NO. | Name of the faculty          | Journal  | Indexed in<br>Scopus/<br>Thompsons &<br>Reuters | Link of the journal in<br>Scopus/ Thompsons<br>& Reuters index        |
|-----------|------------------------------|--|---|---|
| 10.       | S Sikdar, K<br>Ganguly       | Paper Title: Tracing out the Discomfort & Dissymmetry in The Lower Extremity Considering the Aspect of Foot Pressure | UGC Care  | https://www.jetir.org/pap<br>ers/JETIR2303344.pdf                     |
| 11.       | D Mandal, S<br>Bag, S Sikdar | Paper Title: Arduino based wireless tracking of Sleep Apnea through monitoring of Health parameters                  | UGC Care  | https://www.irjet.net/ar<br>chives/V10/i3/IRJET-<br>V10I3104.pdf      |
| 12.       | D. Mandal                    | Development of Silica Collagen Hybrid as Corneal substitute through Sol-Gel route.                                   | Scopus  | https://link.springer.co<br>m/article/10.1007/s126<br>68-023- 01146-6 |
| 13.       | K Ganguly                    | PREDICTION OF HONE CALORIE EXPENDITURE USING ADVANCED ML   | UGC care  | https://jetir.org/index.php<br>?vol=11&issue=6&pub<br>month           |
| 16.       | S Bag,                       | Paper Title:Automatic<br>Switch Off Battery Charger  | UGC Care  | https://ijrpr.com/uploads/<br>V4ISSUE6/IJRPR14531.<br>pdf             |
| 15.       | D Mandal                     | Paper Title: Design and Development of an Adept Health Parameter System  | UGC Care  | https://ijrpr.com/uploads/<br>V4ISSUE6/IJRPR14526.<br>pdf             |
| 16.       | S Sikdar                     | Paper Title:Simple Approach for<br>Early Disease Detection through<br>Processing of Human Nail Images                | UGC Care  | https://www.jetir.org/papers/JETIR2303344.pdf                         |

# **Faculty Journal/Conference Papers:**

| Sl. No.  | Faculty         | Title of the Paper               | Journal/ Conference Name    | National/      | ISSN No.       |
|----------|-----------------|----------------------------------|-----------------------------|----------------|----------------|
| 01. 110. | Author(s)       | The of the Laper                 | Southar Conference Name     | International  | 10011110.      |
| 1        | Dibyendu Mandal | Development of Silica-Collagen   | BioNanoScience.             | International  | 2191-1630 (P)  |
|          |                 | Hybrid as Corneal Substitute     | Vol - 13; pp2441-2447:      | (SCOPUS)       | 2191-1649 (O)  |
|          |                 | Through Sol-Gel Route            | June 2023                   | (4 2 2 2 3)    |                |
| 2        | Karabi Ganguly  | Prediction of Hone Calorie       | International Journal of    | International  | 2320-2882      |
|          |                 | Expenditure using Advanced       | Creative Research Thoughts. |                |                |
|          |                 | ML                               | Vol - 11(6); pp d91–d97:    |                |                |
|          |                 |                                  | June 2023                   |                |                |
| 3        | Karabi Ganguly  | Machine Learning Predictive      | International Journal of    | International  | 2320-2882      |
|          |                 | System to Identify Heart Disease | Creative Research Thoughts. |                |                |
|          |                 | at an Early Stage.               | Vol- 11(4); pp c262-269:    |                |                |
|          |                 |                                  | April 2023                  |                | /              |
| 4        | Karabi Ganguly  | Enactment of Machine Learning    | Journal of Research and     | International  | 2348-1269 (O)  |
|          |                 | Classification Algorithms to     | Analytical Reviews.         | 7              | 2349-5138 (P). |
|          |                 | Develop a Diagnostic Tool for    | Vol-10(2); pp 855-865:      |                | /              |
|          |                 | Predicting Diabetes.             | April 2023                  |                |                |
| 5        | Dibyendu Mandal | Constitutive modeling of human   | Physics of Fluids.          | International  | 1070-6631(P)   |
|          |                 | cornea through fractional        | Vol - 35(3), pp 031907      | (SCOPUS, SCIE) | 1089-7666(O)   |
|          |                 | calculus approach                | March 2023                  |                | A 1            |
| 6        | Sandip Bag      | Biomechanical Measurement of     | Journal of Emerging         | International  | 2349-5162      |
|          | &               | Muscle Force on Various Degree   | Technologies and            |                |                |
|          | Dibyendu Mandal | of Flexion at Elbow Joint        | Innovative Research.        |                |                |
|          |                 | /                                | Vol - 10(3), pp b589-b593,  |                |                |
|          |                 |                                  | March 2023                  |                |                |

| Sl. No. | Faculty           | Title of the Paper               | Journal/ Conference Name   | National/     | ISSN No.  |
|---------|-------------------|----------------------------------|----------------------------|---------------|-----------|
|         | Author(s)         |                                  |                            | International |           |
| 7       | Karabi Ganguly    | Tracing out the Discomfort &     | Journal of Emerging        | International | 2349-5162 |
|         | &                 | Dissymmetry in The Lower         | Technologies and           |               |           |
|         | Swati Sikdar      | Extremity Considering the        | Innovative Research.       |               |           |
|         |                   | Aspect of Foot Pressure          | Vol - 10(3), pp d368-d376, |               |           |
|         |                   |                                  | March 2023                 |               |           |
| 8       | Karabi Ganguly    | Examination of Artificial        | Journal of Emerging        | International | 2349-5162 |
|         | &                 | Intelligence in Image Processing | Technologies and           |               |           |
|         | Sandip Bag        | Deploying Deep Learning to       | Innovative Research.       |               |           |
|         |                   | Identify Abnormal Physiological  | Vol-10(3), pp h26-h33,     |               |           |
|         |                   | Conditions from Chest X-Ray.     | March 2023                 |               |           |
| 9       | Dibyendu Mandal,  | Arduino based wireless tracking  | International research     | International | 2395-0056 |
|         | Sandip Bag        | of Sleep Apnea through           | Journal of Engineering and |               |           |
|         | &                 | monitoring of Health             | Technology                 |               |           |
|         | Swati Sikdar      | parameters.                      | Vol-10(3), pp 657-661.     |               |           |
|         |                   |                                  | March 2023                 |               |           |
| 10      | Dibyendu Mandal,  | Extraction and characterization  | Journal of Emerging        | International | 2349-5162 |
|         | Sandip Bag, Swati | of acid soluble Collagen Type I  | Technologies and           |               |           |
|         | Sikdar & Kumaresh | from Sperata Aor                 | Innovative Research.       |               |           |
|         | Halder            |                                  | Vol - 10(1), pp c136-c140, |               |           |
|         |                   |                                  | January 2023               |               |           |
| 11      | Karabi Ganguly    | Stable Fine Tuned Wide Range     | International Journal of   | International | 2349-6002 |
|         |                   | Variable Power Supply for        | Innovative Research in     |               |           |
|         |                   | Health Care Application.         | Technology.                |               |           |
|         |                   |                                  | Vol - 9(10); pp 561-566.   |               |           |
|         |                   |                                  | March, 2023                |               |           |





#### Dr. Karabi Ganguly Delivered Invited Talk on "Biomedical Engineering e agragati" on 06.01.2023



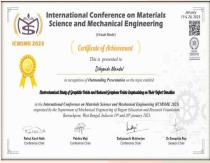
Dr. Karabi Ganguly Got her research work published in an UGC Care International Journal



Dr. Karabi Ganguly Presented her research work in 12<sup>th</sup> International Photographic Conference 2023



Dr.Sandip Bag (Professor BME) get Royalty from Elsevier Ltd



Dr. Dibyendu Mandal Awarded for Outstanding Presentation in ICMSME 2023