



# IQAC

## NEWSLETTER

JADAVPUR UNIVERSITY

Vol. II, Issue I, April, 2024

### NIRF Ranking 2023

4th in the University Category, 10th in the Engineering Category, 13th in the Overall Category, 18th in the Pharmacy and 19th in Research

### QS Ranking 2024

44th in Asian University Ranking; 741-750 in World University Ranking; ; 619th in Sustainability Ranking

### NBA Accreditation

Three UG Engineering programmes of JU have been accredited by National Board of Accreditation (NBA) till 30<sup>th</sup> June 2026.

### NAAC Accreditation

JU is now in the middle of its fourth cycle of NAAC accreditation. University's SSR has already been pre-qualified.

### OBE Implementation

Establishing CO, PO, PSO is a giant leap forward to measure the student performance through outcomes and the quality of education.

### Industry Interaction

Active interaction with various industries through Industry Institute Partnership Cell to solve industrial problems worth Rs. 27 Cr. in 2022-23.



View of the dais on the occasion of 66th Annual Convocation. (Top)  
Jubilant students are eagerly waiting for their degree scrolls. (Below)

## Jadavpur University: The 66<sup>th</sup> Annual Convocation 2023

The 66th Annual Convocation of Jadavpur University was held on 24th December 2024 at the Open Air Theater in the Jadavpur University Main Campus. The degree scrolls were awarded to 460 Ph. D. candidates (Arts: 129, Interdisciplinary Studies, Law & Management: 29, Engineering & Technology: 127, and Science: 175), 398 M. Phil degree students,

1670 post graduate students (Arts: 900, Engineering & Technology: 491, and Science: 279) and 1895 under graduate students (Arts: 519, Engineering & Technology: 1233, and Science: 143). The students enthusiastically participated in the convocation program after successful culmination of their academic journeys in various programs.

#### >Prof. Tapan Kumar Ghoshal:

Aerospace Research Project at Jadavpur University  
1984-2010

p. 4

#### >Prof. Anupam Basu:

The New Role of Artificial Intelligence in the Field of Education

p. 6

#### > M. Roy Choudhury, Prof. M Ghosh, Prof. Abhijit Gupta:

Alipore Museum-A Cultural and Heritage Project with JU Collaboration

p. 8

#### >Prof. Abhijit Gupta:

Publishing in The New Age: The Story of Jadavpur University Press

p. 10



**G**reetings from Jadavpur University, Internal Quality Assurance Cell!

We are excited to publish the IQAC Newsletter in its second year, though for reasons beyond our control, the release date has got delayed. In this issue, we have mostly covered the University news between 1st January to 30th November, 2023. The issue contains two articles, one written by Prof. Tapan Kumar Ghoshal a very distinguished Professor (now retired) of the Electrical Engineering Department of the University who pioneered the research in defense sector in the University contributing hugely to the national development. The other article is by Prof. Anupam Basu,

## FROM THE DIRECTOR'S DESK

an illustrious alumnus of the University, who served as a professor at IIT, Kharagpur and also as the Director of NIT, Durgapur. We extend our sincere gratitude to both of them for their contributions, which have enriched the issue.

The University had passed through a difficult time during the last year which ended up with the 66th Annual Convocation on 24th December, 2023. The University could manage to hand over the degree certificates to a large number of graduates who assembled on the occasion fulfilling their dream at the culmination of their academic journey. Throughout the year, the faculty members, research scholars and the students of the University strive for excellence in their academic and research fields. As a result, the University could achieve the 4th rank in the University category for the second successive year of India Ranking (NIRF 2023). The University is also ranked 10th in the Engineering category – resulting an overall rank of 13th

in the country. This is a huge achievement for the University considering the constraints within which everyone had to work and could only be achieved with the sustained efforts of all.

Three undergraduate programs of the University – in Power Engineering, Instrumentation and Electronics Engineering and Information Technology – have been accredited by the National Board of Accreditation till 30th June, 2026. I would like to thank the members of the NBA Coordination Team, led by Prof. Rana Saha of the Department of Mechanical Engineering for their efforts in the process.

The IQAC of the University along with the NAAC Coordination team have given tremendous efforts in association with the faculty members, officers, students and staff members in preparing the Self Study Report (SSR) for the 4th cycle of NAAC accreditation. The report was submitted to NAAC on 3rd October and after successfully responding to the queries during Data Validation and Verification (DVV) the report finally got pre-qualified on 23rd January. We shall now have to undertake the peer team visit from NAAC and I am looking forward to the support from everyone during the peer team visit.

IQAC continued the quality initiatives and awareness programs by contributing towards the curriculum revision, conducting awareness workshops on outcome based education (OBE) and suggesting in various developmental works within the University. We are also maintaining the CAS portal for the teachers enabling the faculty members to submit their CAS promotion applications online.

I would like to appreciate the efforts of Ms. Moumita Ghosh and Ms. Sayantani Chakraborty for their dedication and persistent contribution in carrying out the functions of IQAC.

I am sure that with the active participation from all the stakeholders and well-wishers we shall be able to take the University to greater heights in the future.

**Prof. Amitava Datta**  
Pro-VC & Director, IQAC, JU

### IQAC COMPOSITION (as on 30th November, 2023)

Prof. Buddhadeb Sau	Vice Chancellor and Chairman, IQAC
Prof. Amitava Datta	Pro-Vice Chancellor & Director, IQAC
Prof. Malabika Roy	Dean, Faculty of Arts
Prof. Saswati Mazumdar	Dean, Faculty of Engg. and Tech.
Prof. Subenoy Chakraborty	Dean, Faculty of Science
Prof. Amitava Datta	Dean (Officiating), Faculty of ISLM
Dr. Snehamanju Basu	Registrar
Mr. Debasish Pal	Finance Officer (in charge)
Dr. Sanjay Gopal Sarkar	Joint Registrar
Prof. Kunal Chattopadhyay	Faculty Member, Comparative Literature
Prof. Abhijit Gupta	Faculty Member, Department of English
Prof. Swarnendu Sen	Faculty Member, Mechanical Engineering
Prof. Abhijit Chanda	Faculty Member, Mechanical Engineering
Prof. Rajib Bandyopadhyay	Faculty Member, Instrumentation & Electronics Engg.
Prof. Debajyoti Ghoshal	Faculty Member, Department of Chemistry
Prof. Mitali Mandal	Faculty Member, Department of Physics
Prof. Nandita Dhawan	Faculty Member, School of Women studies
Mr. Sanjay Budhia	Noted Industrialist and External Member
Prof. Dhrubajyoti Chattopadhyay	Vice Chancellor of SNU and External Member



# IQAC ACTIVITIES

## ► NIRF

Jadavpur University has consistently maintained a breakthrough position in NIRF. As per the National Institutional Ranking Framework (NIRF) 2023, Jadavpur University is placed at 4th position in the University Category, 10th in the Engineering Category, 13th in the Overall Category, 18th in the Pharmacy and 19th in the Research. IQAC Team was instrumental in collecting data and information necessary for the purpose, uploading them in the NIRF portal and responding to the queries received by the University.

## ► NAAC

Jadavpur University has completed three cycles of NAAC accreditation all with very high CGPA. IQAC along with the NAAC coordination team formed by the University worked relentlessly to

prepare the Self Study Report (SSR) for the fourth cycle which was submitted in October, 2023. The team successfully responded to all the queries during the DVV process after which the SSR has been pre-qualified by NAAC. IQAC is now coordinating the preparation for the peer team visit which is expected shortly.

## ► IQAC Newsletter

IQAC, Jadavpur University is regularly publishing newsletter where valuable articles on various academic issues are published. News of research breakthrough, important student affairs, club activities, placement achievements, glimpses of books and publications are highlighted here.

## ► CAS Software

As far as the promotion of faculty mem-

bers is concerned, Career Advancement Scheme (CAS) plays a very important role. IQAC, Jadavpur University has developed a user-friendly software through which the faculty members can submit their applications for promotion under CAS. The software is maintained by IQAC and a good number of faculty members have already used this.

## ► Sustainability Efforts

IQAC, JU give effort to measure the University's ability to tackle the world's environmental, social and governance challenges to achieve the sustainability goals. The Cell synthesized data for submission towards the QS Sustainability ranking 2024, in which the University achieved a global rank of 619 (15<sup>th</sup> within India). Green Audit and Energy Audit have been conducted with the support of the Cell.

## ► UG Engineering Curriculum Development Workshop



*Pro-VC, JU welcoming the guest and participants during the inaugural session*

## ► Journal upload to UGC CARE list

IQAC works towards submitting applications for the inclusion of Journals in the UGC CARE list suggested by the University community. Various departments of the University publish their own academic journals containing peer reviewed papers. The journal editors fill up specific formats to apply to the UGC CARE East Zone through IQAC for inclusion in the list.

IQAC of Jadavpur University organized a one day workshop on UG Engineering Curriculum Development at the Seminar Room of Electrical Engineering Department on 19 June 2023. Around 60 faculty members (including HoDs and Dean, FET) participated in this program. In his inaugural note, Pro Vice Chancellor, Prof. Amitava Datta explained the background and objective of the brainstorming session. Prof Sivaji Chakravorti chaired the first session of

the event. In this session, Dr. Debashish Bhattacharjee, Vice President Technology & New Materials Business, Tata Steel, explained the paradigm shift in the focus of the industry by alluding to the current trend in the steel industry and emphasized the challenges required for the curriculum. Dr. Subir Sen, Executive Director in Technology Development & Smart Grid Knowledge Center, POWERGRID, gave an overview of the engineering trends in power sector

to exemplify how the focus of the industry has been shifting more towards sustainability, decentralization, decarbonization and digitalization. Mr. Subhankar Chakraborty, the Vice President of Exide Industries Limited, shared his "thoughts on training technical minds." The expert lectures were followed by a panel discussion in the second session, which was chaired by Prof. Sudipta De, and moderated by Prof. Ranjan Ganguly.

# Aerospace Research Projects at Jadavpur University 1984-2010

**By Tapan Kumar Ghoshal,**  
*Honorary Emeritus Professor, Electrical Engineering,*  
*Jadavpur University*

## Preamble:

This article briefly outlines some notable research projects carried out at Jadavpur University in the aerospace domain during roughly the three decades spanning 1984 through 2010. The description of the technical aspects of the work has to remain somewhat sketchy due to confidentiality agreements and understandings with the sponsors.

A significant part of the contribution in the specified period had been carried out under the banner of “Jupiter Projects”. The Jupiter Projects, apart from attracting significant funding (to the tune of 20 to 25 million rupees) towards research infrastructure, generated national level impact and recognition. There had been statements in the Parliament praising the contribution of Jadavpur University for the Prithvi weapon system two Academy Excellence Awards from the Defence Research and Development Organization (DRDO), Ministry of Defence and the System Society Gold Medal were received by the members of the research team.

The entire ground floor and part of another floor of the Jupiter building were built and furnished out of the research grants of Jupiter projects. It is believed that national level impacts and recognitions as above also catalysed subsequent additional funding from the UGC, DST and AICTE.

## Initiation of the Jupiter projects:

The Jupiter series of projects was initiated in 1984 by a fortuitous coincidence when a scientist from the DRDL laboratory of DRDO, Hyderabad, met some faculty members of the control systems group (EE-CS group) of the Electrical Engineering Department to enquire whether some faculty members would be willing to help his organisation (DRDL) to design and develop control and guidance sub systems of a number of aerospace weapon systems which DRDL had taken up. At this point, the JU team came to know that Sri APJ Abdul Kalam, a reputed and respected Aerospace Engineer and Scientist of ISRO, had recently taken over as the director of the DRDL organisation. The members of the EE-CS group agreed to work for him in challenging areas like control and guidance of aerospace vehicles.

Assured of complete confidentiality, the visitor disclosed outlines of the control and guidance objectives of two such weapon systems and asked the EE-CS team to formulate their approach to the problems. This was followed by a visit from a team of senior scientists from DRDL, which included group directors and project directors. The visiting team, after an intensive technical interaction, asked the JU EE-CS team to prepare two project proposals outlining respective technical approaches and financial requirements with the constrain that the maximum fund requested should be less than Rs 25 lakhs (a substantial

amount in 1984) for each project.

After receiving the above encouraging interaction, the Jupiter team was formed with five EE-CS faculty members to formulate the project proposals for the outlined control and guidance problems. A name Jupiter was chosen for the team, from an acronym ‘JUPITAR’ (JU of course was for Jadavpur University). The two proposals were also codenamed Jupiter-I and Jupiter-II. Soon after, the Jupiter team was invited to DRDL to present the project proposals in front of a fairly large committee of scientists from DRDO and representatives from the armed forces.

In the evening prior to the scheduled presentation, the Jupiter team chanced upon Sri Abdul Kalam and had a long unscheduled meeting at his residence in the DRDL complex. During this chance meeting, the Jupiter team was charmed by the energy, enthusiasm and nationalistic visions towards the self-reliance of India of Sri Abdul Kalam, His enthusiasm was contagious and was reflected in the presentation of the proposals by the Jupiter team in the following morning, both of which were eventually approved by the committee.

## Outlines of the Jupiter projects:

The Jupiter-I project involved designing Guidance and control algorithms and software for a 3rd generation, autonomous ‘fire and forget’ Anti Tank weapon (named Nag). The algorithms had to be designed much before the hardware realization of the prototype. This



made the project technically challenging, educative and satisfying. The Jupiter team was able to provide significant inputs to the hardware system designers. The guidance algorithm developed had unique ab initio approach and was proven to be extremely robust and reliable. The Nag has now been accepted for use by Indian army.

In contrast to the 50kg class of weapon Nag, the Jupiter-II project required designing of the Guidance scheme (algorithm and software) for a huge 5000 kg surface to surface weapon (Prithvi), the hardware of which was nearly complete when the Jupiter team began the work and the results had to be rushed. Incredibly now, the first version of the guidance algorithm was tried in an 8-bit Z-80 microcomputer at a late evening session at the EE-CS laboratory.

The final production version of the guidance algorithm came out to be extremely robust. Due to such robustness, and also due to a sound underlying concept, the JU version of the guidance was chosen though an in-house alternative was also available. Despite many changes to the vehicle and its many versions, the conceptual guidance algorithm remained invariant for thirty odd years. It is due to the Jupiter-II Project, Jadavpur University received National attention, Parliament citation and one DRDO Academy Excellence Award. A member of the Jupiter team was invited to participate during the maiden launch campaign from the SHAR centre.

The Jupiter-III project involved designing "Terminal Guidance" for a longer range weapon. Much to the frustration of the Jupiter team, a scheme developed in-house was chosen instead of the guidance scheme suggested by the JU team. The only consolation was that the designer of the chosen scheme was also a Jadavpurian.

The Jupiter-IV project was a sequel to the Jupiter-I project and it involved the helicopter launched version of Nag

(Helina). This was successfully completed and the weapon has now been accepted for use.

### Some notable features:

Each of the Jupiter projects had well defined deliverables based upon firm and fixed price contracts with rigid time schedules.

To adhere to the promised deadlines and intermediate milestones the Jupiter team had to put substantial effort. For projects Jupiter-I and Jupiter-II, the core concepts were developed during the first six months, using meagre resources like 8-bit microcomputers and scientific calculators. Gradually, research fellows joined and more powerful computers were made available.

The research fellows also slogged along with the faculty members to expand the core ideas into deliverable solutions, accompanied by documentation and to test the algorithms in different extreme situations by extensive simulation.

### Projects related to the Indian Light Combat Aircraft:

The Jupiter team soon diversified into the domain of Flight Control of fighter aircraft. The first group of projects were named CLAW IV&V (1995-2002): These projects (total budget around Rupees 50 lakhs) had significant national impact and involved Review and Audit of Flight Control Law (CLAW) for the Indian Light Combat Aircraft (Tejas). The contribution of the JU Team provided added confidence to the designers of the flight control law, as also to the Flight Safety certification authority (CEMILAC). Due mainly to the contribution of this work, a member of the Jupiter Team received the second Academy Excellence Award.

The above project was followed by the KECLAW Projects (2002-2009): These projects spanning about seven years (total budget around Rupees 50 lakhs), involved "review and audit" of

the "Control Law" for an Aircraft Gas Turbine Engine (Kaveri) developed by GTRE. The contribution was more than 'audit' as a framework for designing the control law was also formulated. Follow-up projects in the same area continued as late as 2023.

Apart from the above formal research projects, individual members of FET, JU participated (as members and in several cases as chairpersons) in a number of design reviews, flight readiness reviews and post-flight analysis exercises of a number of DRDO projects and ISRO projects (ASLV and PSLV).

### The sequel:

Apart from the Jupiter projects there were other aerospace related projects and DRDO funded projects during the period covered or just beyond. There had been a number of "RESPOND" projects (sponsored by ISRO) at different departments of FET-JU. Mechanical Engineering Department had Neptune Projects (underwater vehicles and electrohydraulic servo valves). There had been DRDO funded projects in ETCE department, CSE department and Instrumentation and Electronics department, to name a few.

Though most of the original faculty members of Jupiter Projects (and Neptune projects) gradually retired, several aerospace related and DRDO sponsored research projects continued in JU well after 2010. However, the character of such projects gradually mutated, mainly to suit the changed requirement (technical and bureaucratic) of the funding agencies.

Recognising the significance of the contribution of Jadavpur University two collaborative technology Partnership Cells were created and funded by the DRDO. The first of these was the Advanced Technology Cell, JU (ATCJ), followed by the more ambitious Jagdish Chandra Bose Centre of Advanced Technology (JCBCAT).

# The New Role of Artificial Intelligence in the Field of Education

**By Anupam Basu,**  
*Raja Ramanna Chair Professor, Jadavpur University<sup>1</sup>*

Any new technology is a disruption and Artificial Intelligence is no exception. The application of artificial intelligence in different areas is creating ripples across the society. Some segments are socio-economically positioned to immediately benefit from the new inventions but seldom does the benefit percolate to all segments of the society, at least to start with. Consequently, there will be technology (AI) “haves” and “have nots”. This phenomenon will be having serious impact in the education sector as the students are from diverse socio-economic background with non-uniform access to the modern technology. However, assuming that technology will ultimately be available to all strata, let us dwell on what benefits AI can accrue in the field of education.

Application of information technology and artificial intelligence in the field of education has made a significant impact. The online education through the MOOC courses offered in India and abroad, is notable and has benefitted numerous students worldwide. The MOOC lectures are also been transcribed at a very fast rate to generate closed captions. This has been possible through the AI technique of speech recognition and text generation. Work is also underway to automatically transcribe such lectures from English to the local Indian languages, through the technology of Machine Translation, thereby ensuring much more widespread access to the contents.

In general, the AI technology applied

to education can be grossly classified into segments.

The first segment includes tools that act as smart assistants. Automatic spell checkers and grammar checkers, which we encounter in everyday editing are based on AI. The predictive keyboards which suggest words during writing, utilize the understanding of the context, based on language models and are excellent AI assistants. While these are helpful tools, they do not form or directly affect the process of learning or teaching.

Learning materials using virtual reality (VR) and augmented reality (AR) based explanations and examples often help the students to visualize and comprehend complex scenarios.

The next category comprises the tools and systems which assist a teacher to select and organize the teaching materials more effectively and supplement the classes with intelligent games, tests and other interesting supplementary material. This segment of AI support can also facilitate the students themselves to identify supplementary learning materials suited to their needs. Intelligent Tutoring Systems are being developed that can organize the learning materials, present them to the learners, conduct assessments, evaluate the performance and accordingly personalize the presentation trajectory and material selection.

The key term in this category is personalization and adaptation. An intelligent system can grab the performance of every individual student, either in a classroom scenario or in an individual

set up. Data analytics can then find out individual gaps and hot spots for every student and also for the general trend in a class.

Assessment forms an integral part of any learning system. Intelligent image processing software has been developed for automatically scoring multiple choice answers. However, research is on regarding evaluation of descriptive answers.

The third category delves deep into the aspect of cognitive modelling of learning. It attempts to model the process of comprehension, speech understanding, speech production, language processing issues, concept schema formation among other issues. Deep research in these areas can lead to design and evaluation of proper learning materials catered to personalized abilities of individuals.

Though rooted in the previous category, a special focus of application of AI in Education can be to assist the education infrastructure for the children with special needs. Such children include the sightless children, kids with speech and hearing impairments, the slow learners, the autistic children, children with multiple disabilities etc.

To illustrate the role of AI in inclusive education, let us first consider the case of integrating the children with hearing impairment in a mainstream school. Such children often resort to sign languages in order to communicate. Consider a classroom where the speech (audio) of the teacher is being grabbed in real time by a system, which converts



the audio to text and to the corresponding sign language (ISL for example) and displayed it on a device with the student. Such a system will require the AI technology of speech recognition and subsequent generation of sign language, which preferably should include Augmented Reality through “avatars”. Conversely, the gesture based responses of the student can be translated into text/voice and be communicated to the teacher or other peers.

Similarly, for the children in the Autism spectrum, language learning and learning social communication skills are immensely challenging. AI based games and Robot based communication systems are showing initial prospects in this regard.

Learning materials, including both text books and web-based materials form a major component in education. However, all the readers/learners are not the same as regards their cognitive abilities, such as Attention, Working Memory capacity, Cognitive processing speed, Background knowledge etc. Consequently, the same text (word selection, sentence complexities etc.) may not be equally comprehensible by all students alike. Presently AI (Machine Learning) based tools are being developed to analyse texts in English as well as in Indian languages regarding their Readability for a given category of users. Cognitive tools can also be used to classify the readers in different categories.

A classical debate in this area has been revolving around whether AI based teaching will replace the role of human teachers. The issue is being more in focus with the recent advances in Generative AI tools, such as Chat GPT. The answer to this question is not simple. There are different perspectives to the purpose of education. Two very

common angles are acquiring skill and acquiring knowledge.

Skill is focussed to acquiring expertise in certain trades, often hands on where “being able to do” is the primary goal. It often requires relatively shallow declarative knowledge along with the ability to diagnose problems through observation and solve them using strong procedural knowledge in a particular skill. The present trend of AI tools and systems, along with the advent of Robotics with interaction abilities will be of great help for training towards specific skill acquisition. Environments will soon be in place where individual learners will be able to interact with software systems and robot driven hardware artefacts to acquire hands on skills. This may be supplemented by human teachers to co-ordinate and facilitate.

Presently, in the prevalent education system in the country, the teachers have to spend about 50% of their time in activities not related to teaching or research. These activities include routine administrative record keeping, attendance, preparation of reports for different accreditations among others. These activities can very well be delegated to AI tools and AI assistants, allowing the teachers to engage more deeply with the students.

At the other end of the spectrum lies “education” in a different sense. It is beyond mere skill. It also goes beyond the boundary of a specific discipline. The ability to think, analyse, interpret, apply and create allow the student to come across new frontiers and adapt and accommodate with the new realities and problems. This requires an internalization of reasoning, schema formation abilities, the ability to connect and relate to social situations, empathizing with others, inculcation of the ability to communicate in a proper and

effective way among many other qualities. This requires direct interaction with the hidden cognitive structure of different individual students, not only cortical but at a much deeper emotive stage. A human teacher is indispensable for such dimensions. There is no denial that the strides of AI will create newer tools to facilitate a human teacher in very effective ways, but the necessity of human-human interaction will be a necessity assuming overall development and character building is a prime requirement of education.

Generative AI is becoming a household term very fast. Through its ingenious technology and data analytics it is being able to show “creativity” in various fields including portraits, architectural drawings and of course textual responses. The core of such technology is a huge repertoire of data and novel algorithms that dig out the “most acceptable” pattern from its store at a very fast pace. This approach will soon be an excellent assist in education where the first cut solution may be churned out very fast. However, does it make the students knowledgeable about the domain? Does it add to their capabilities of being creative to create an architecture of entirely different genre?

The future will be replete with information and tools that are often smarter, faster and reasonably accurate. However, the importance of learning the art of delving deep in this dense information forest to discover the new generalizations will form the pivot of future knowledge acquisition. In this new form of pursuit interactions and intersections among different disciplines of science and liberal arts will be very important participants. May be in years to come, the role of the human teachers will be more to inspire and thus educate than just be teachers who explain or instruct.

1 Distinguished Honorary Professor, Sister Nivedita University

2 Honorary Professor, Shiv Nadar University

3 Former Director National Institute of Technology, Durgapur

4 Former Professor (CSE), IIT Kharagpur

# Alipore Museum - A Cultural and Heritage Project with JU Collaboration

*By Mallika Roy Choudhury, Mainak Ghosh, Abhijit Gupta  
Jadavpur University*



**Alipore Jail Museum: This is the main entrance of the Museum**

The West Bengal Housing Infrastructure Development Corporation initiated the task of setting up a museum by renovating the hitherto Alipore Jail or the Alipore Central Correctional Home since the relocation of the inmates to Baruipur. A new look was planned for the 116 year old campus spreading over 15.2 acres of land with several buildings including the prison cells where notable freedom fighters incarcerated which include Jawaharlal Nehru, Subhash Chandra Bose, Chittaranjan Das, Dinesh Gupta, Dr Bidhan Chandra Roy to name a few. Jadavpur University came on board the project as a major stakeholder in the 'research think tank' sometime in 2021. The Alipore Jail Museum Project, which is currently known as the Alipore Museum was headed by acclaimed historian Professor Dr. Suranjan Das, and the then Vice-Chancellor of Jadavpur, along with his team that included Prof. Dr. Samantak Das, the then Pro Vice-Chancellor of Jadavpur University, Prof. Dr. Abhijit Gupta, the Director of JU Press, the then Co-Director of School of Cultural Texts and Records, and Professor,

Department of English, JU, and Prof. Dr. Mainak Ghosh, Professor and the then Head of the Department of Architecture, JU. The team also included Mallika Roy Choudhury and Debraj Ghatak as Research Fellows, along with Arunava Banerjee as the Research Assistant for the Project. Along with the HIDCO team, other experts and officials the project team had to ensure the timely deliverance of delegated tasks along with the credibility of the research. The project duration was of six months

commencing from 2 November 2021, running through necessary reviews and preparations up until the inauguration of the museum in Sep 2022.

Broad strokes of the responsibilities included the creation of original content on the Indian Freedom Struggle from archives for the Alipore Museum, with special emphasis on the freedom fighters who were incarcerated and/or hanged at the erstwhile Alipore Central Correctional Home. Other responsibilities included creating plaques, brochures, detailed lists of political prisoners or convicts, audio scripts, and stories about the notable freedom fighters and buildings of the Alipore Central Correctional Home. The project entailed physical visits to erstwhile Alipore Jail, libraries, West Bengal State Archives, Intelligence Bureau Records and Archives, Kolkata Police Museum and Archives, and the like regularly while fulfilling the above requirements within strict deadlines.

The Team curated content on the macro-history of the evolution and development of the jail as it had been



**This is the place where Prisoners used to weave Tant and handloom clothes.**



from its rudimentary stage in the eighteenth century, with an institutional understanding of the prison space, the role of administration in envisioning what was to comprise in a class of incarceration within the evolving codes of crime, punishment, and much later redemption. Apart from drafting the institutional history of the correctional home, the Team also charted out the institutional history of the 15.2-acre premises through routine visits to the cells, the several blocks, the watchtower, and other auxiliary buildings. Unlike the older Presidency jail, this relatively newer jail was largely constructed to a unified design complete with a central tower, radiating cell blocks, separate quarters for Europeans and Indians, and areas apportioned for prisoners of various categories. Unlike prisons in Europe and the United States, where moral reform was cited as the primary objective of incarceration, prisons in colonial India focused on confinement as a way of separating and classifying criminal types to establish colonial categories of difference.

The fourteen buildings of the Alipore Jail Complex where the prisoners were kept in cells and wards echo the above ideology in many ways. While some of the buildings bear similarities to colonial prisons all over the world at that time, some in the Alipore Central Jail are unique and specific to the Indian case at that time. Unlike prisons in Europe and the United States, where moral



**A cell dedicated to Rishi Aurobindo inside the Alipore Museum.**

reform was cited as the primary objective of incarceration, prisons in colonial India focused on confinement as a way of separating and classifying criminal types to establish colonial categories of difference.

Detailed plaques were created by the Team historicizing the legends around the freedom fighters interned in those prison walls, apart from recounting the horrors of penal retribution by the colonial authorities of the time. The fourteen buildings of the Alipore Jail Complex where the prisoners were kept in cells and wards echo the above ideology in many ways. While some of the buildings bear similarities to colonial prisons all over the world at that time, some in the Alipore Central Jail are unique and specific to the Indian case at that time. The watchtower building, in particular, details the history of Jeremy Bentham's

Panopticon and the overall theme of surveillance in the prison complex.

The Team researched meticulously the details of the living conditions and the historical background of almost all freedom fighters interned at the Alipore and Presidency Correctional Home with tales ranging from the killing of the Alipore Bomb Case co-accused turned crown witness, Naren Gosain by Satyen Bosu and Kanailal Datta at the Presidency Jail premises, and anecdotal vignettes about Jawaharlal Nehru, Chittaranjan Das, and Netaji Subhash Bose during their stay at the Alipore Jail. From the plaques at the entrance and exit of the present Museum that document the purpose of the service rooms of the Jail (viz. Correspondence room, Cloak Room, Warder/Guarder Room, etc.) to the content plaques in Netaji Cell Building, Hospital Building, Jail Building, Aurobindo Room, Watchtower building, apart from general descriptors in the entire premise of the Jail Complex are entirely researched and curated by the Research Team from Jadavpur University. The Team also served as the fact-checkers and audio script and display content providers for other stakeholders involved in the project. The museum is experiencing heavy footfall increasing day by day. The intent of creating awareness about freedom fighters and stories of independence is successful through both tangible and intangible forms in this museum.



**An exhibition hall contain books & statues of various Indian freedom struggle movements.**

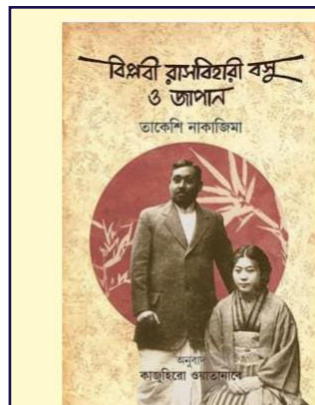
*Photo : Collected*

# Publishing in The New Age: The Story of Jadavpur University Press

*By Abhijit Gupta,  
Professor, Jadavpur University*

In the world of Indian academia, the university press is an anomaly. In the West, any self-respecting university has a publishing house attached to it. This did not happen in post-Independence India. Before 1947, Calcutta University had a flourishing publishing programme, while Visva-Bharati, the 'world university' set up by Rabindranath Tagore, became a trend-setter in Bengali publishing. But the spread of universities across the country post-1947 did not lead to a proportional rise in academic publishing. The task of nation-building and creating responsible citizens for the new republic became the preoccupations of the Indian academy. Thus teaching, and not publishing, became the chief focus of college and university teachers. In such a scenario, only those with a burning desire to say something would publish in books and journals, often at financial cost to themselves. It was only in the late Nineties that the University Grants Commission of India began to encourage academic publishing by setting aside funds for publishing in its 'Special Assistance Programme' for departments, but the rules for availing such funds remain so Byzantine that they are often disincentives to publishing.

It was under these circumstances where the university where I teach, Jadavpur University in Calcutta, set up a publishing house in 2012. At a time when the conventional publishing was facing unprecedented challenges from digital modes of publication and retail, it might have seemed foolhardy to venture into old-school academic publish-

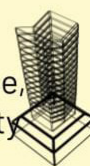


## PRINTED BOOK OF THE YEAR (IL)

**Winner**

**Biplabi Rasbehari Basu O  
Japan**

by Takeshi Nakajima,  
Translated by Kazuhiro Watanabe,  
published by Jadavpur University  
Press



ing. But twelve years on, the experiment seems to have worked. The press has published at a steady average of seven-eight titles every year but this year alone, it is scheduled to publish over thirty.

What kinds of books does JUP publish? From the beginning—more by accident than design—the press has published translations. This is not surprising, given that the press had access to the wider academic community of the university, and there was easily available expertise in a wide range of non-Indian languages. We began with an Italian-Bengali series, with the works of Leonardo da Vinci and Machiavelli translated from the Italian into Bengali. Few years down the line, the remarkable Alpana Ghosh—who learnt Italian solely to be able to translate Dante—approached the press with her translation of the entire Divina Commedia. Here was a septuagenarian homemaker with no connection with academia who had nevertheless devoted her entire life to

translating perhaps the greatest single work of western literature.

Then there was Abhijit Mukherjee, electrical engineer by day and Japanese language instructor after hours who brought to us Bengali translations of Haruki Murakami's Japanese short stories and novels. Acquiring the translation rights of Murakami's works was quite an education for us, as we learnt how to negotiate copyright with publishers and their agents. This gave us the confidence to be more ambitious and we acquired the Bengali translation rights of a wide range of authors across the globe, such as the Nobel laureate Czeslaw Milosz (Poland), legendary science fiction and fantasy writer Ursula le Guin (USA), the extraordinary Japanese novelist Yukio Mishima, arguably the greatest science fiction writer of the last century Stanislaw Lem (Poland), another Nobel laureate who turned down the prize Jean-Paul Sartre (France) and so on. Most of these publications were supported by grants from the cultural





View of the stall of JU Press at Kolkata Book fair

departments of the Japanese, the Portuguese, the Polish, the French, and the German governments.

But perhaps our greatest coup was the rights to a Japanese-language biography by Takeshi Nakazima of Rashbehari Basu, an Indian freedom-fighter who ended his life in Japan. The Bengali translation by Kazuhiro Watanabe had been offered to a number of Bengali publishers in Calcutta but none of them was able to close the deal. However, the Development Editor of JUP, Devalina Mookherjee, visited Tokyo and was able to secure the rights to the book in one afternoon, after successively meeting the publisher and their agents. The title has become one of JUP's bestsellers, and recently won the top prize in the Publishing Next Industry Awards in the Indian language books category.

Along with translations, the press has published academic monographs, anthologies and proceedings, as university presses do. But it is the out-of-the-box titles which have really given JUP an identity and brand of its own. Consider the monumental *Astracharcha*, a manual of indigenous martial arts compiled by the revolutionary Pulin Behari Das which largely existed in manuscript before two intrepid editors took it upon themselves to turn it into print, making it the first book of its kind in any South Asian language. Or the pathbreaking full-colour graphic anthology titled *Famine Tales*, fruit of a long collaboration between Exeter and Jadavpur

University and comprising dazzling patchitra and comics on five famines in England and India. The work has attracted international attention and is stocked by Gosh! of London, one of the most iconic comic bookshops in the world.

In the last couple of years, JUP has become increasingly visible in both the national and the international publishing words. Its titles won several publishing awards since 2021, the most prestigious among them the Oxford Bookstore Book Cover Prize of 2023, which was won by Paromita Brahmachari for her cover for the JUP title *Pebblemonkey*. In a field dominated by publishing giants, the presence of a small university press has not gone unremarked by the industry. This year, at the time of writ-

ing, there are as many as three JUP titles in the longlist of the Oxford award, leading one designer to refer to the 'Jadavpur school of cover design'. Internationally too, JUP has been receiving a steady flow of proposals from overseas scholars, and it only a matter of time before it is able to participate in rights book fairs such as Paris, Frankfurt, and Sharjah, to deal in the marketplace of rights buying and selling.

But publishing books alone is not enough, one also has to find ways to reach them to readers. Here, a small publishing firm such as JUP is at a disadvantage, since it does not have access to the distributing and sales channels which larger, more corporate publishing houses, have at their command. One has to figure out how to advertise and sell both through brick-and-mortar and online outlets, attend book fairs, and find ways to ship overseas. In the past few months, we have been finally able to make our books available in bookstores all over the country, in places such as Goa, Mumbai, Varanasi, Gangtok, and Delhi. Talking to booksellers and store owners have made us more conscious of the fragile ecosystem of conventional sales and distribution, under threat more than ever from online giants. If good publishing is to survive in India, then readers must continue to support and nurture the local bookstore.



View of the stall of JU Press at New Delhi Book fair

# ALUMNI AFFAIRS

## ► Centenary Program of Department of Chemical Engineering, Jadavpur University

The Department of Chemical Engineering celebrated the Centenary program (Chemervescence) on 25th – 27th February, 2023.

The Inaugural program on 25th February, 2023 was organized at the Ramakrishna Mission Institute of Culture, Golpark, Kolkata in presence of eminent dignitaries from the Government, Academia and Industries. An Industry-Academia Interaction Program was held on 26th February, 2023 at Triguna Sen Auditorium, Jadavpur University. The eminent Dignitaries who participated in the Centenary program are:

- Padma Vibhushan Prof. M.M. Sharma, Former Director UDCT Bombay
- Padma Vibhushan Prof. R.A. Mashelkar Former Director General of the Council of Scientific and Industrial Research,
- Padmashri Prof. G.D.Yadav Former Vice Chancellor, ICT Mumbai; Distinguished Professor and J.C. Bose National Fellow (Govt. of India)
- Dr. N Kalaiselvi, Director General, CSIR & Secretary DSIR, India
- Dr. Asit Das, Head Refining R&D: Reliance Industries Ltd.
- Mr. Rabin Mukherjee, Vice-Chairman: Haldia Petrochemicals Ltd
- Mr. Ashwin Shroff, Chairman, Excel



Industries Ltd.

As a part of the “Centenary Celebration program” an International Conference titled “Chemical Engineering Innovations and Sustainability (ICEIS)” was held during 26-27 February, 2023. Two Plenary lecture sessions, two Keynote lecture sessions and one Invited lecture session were held besides ten Technical Sessions and one Poster session on different thematic areas. Eminent academicians, Prof. Warren Seider, University of Pennsylvania, USA; Prof. Arup Sengupta, Lehigh University, USA; Prof. Duygu Kocaefe, Universiti du Québec à Chicoutimi, Canada; Prof. Jhuma Sadhukhan, University of Surrey, UK; Prof. Kamalesh K.Sirkar, NJIT, USA; Prof. Sunando DasGupta, IIT, Kharagpur; Prof. Sirshendu De, IIT, Kharagpur; Prof. Goutam Deo, IIT, Kanpur and Prof. Debangshu Bhattacharya; West Virginia University USA delivered Plenary lectures. Prof. Ravindra D Gudi, IIT, Bombay; Prof. Rajdip Bandopadhyaya, IIT, Bombay; Prof. Rabibrata Mukherjee, IIT, Kharagpur; Prof. Manaswita Bose, IIT, Bombay; Prof. Animangshu Ghatak, IIT, Kanpur and Prof. Dipankar Bandyopadhyay, IIT, Guwahati delivered Keynote lectures. Dr. Tapas Das, Saint Martin's University, USA and Dr. Sulalit Bandopadhyay, Norwegian University of Science & Technology, Norway delivered Invited lectures. Special issues based on the selected articles, presented in the International conference, will be published by three reputed international journals, Environmental Science & Pollution Research (Springer, IF: 5.8), Sadhana (Springer, IF: 1.6) and Materials Today proceedings (Elsevier Publications).

As a part of the “Centenary Celebration program”, an Industry-Academia inter-



*Dignitaries lighting the auspicious lamp during the inauguration*

action session was organized named as “Industry Academia Program (IAP)” where dignitaries from different chemical industries were invited to address the gathering and panel discussion was also conducted to give current industry related issues with live interactions. The eminent speakers were Mr. Subhojit Bose, Executive Director, ONGC Ltd, Mr. Adhip Pal Chaudhuri, Director-Services, Balmer Lawrie & Co, Dr. Rajiv Singh, VP Entegris & Professor Emeritus, University of Florida, USA, Mr. Dipankar Das, Group VP - Technology for Commercial Trading and Marketing Business Function, Marathon Petroleum, USA, Mr. Jayanta Chattopadhyay, Technical Manager-ADNOC-Offshore Health Safety & Environment (HSE) Division, Abu Dhabi, UAE, Dr. Amar Neogi, Consultant, Former HOD, R&D of Weyerhaeuser, USA, Mr. Partha Sarathi Chatterjee, Head Offshore Vertical L&T Energy Hydrocarbon, L&T. As a panelist, Mr. Debashis Nanda from Coal India, Mr. A S Sahney from IOCL, Mr. Rabin Mukhopadhyay from HPL, Mr. Ahindra Bera from RIL, Dr. Kaushik Bhattacharya from SAIL, Mr. Amit Chatterjee from Vedanta Aluminium Business, Mr. Saumabha Barua from TCS and Mr. Ajeya Bandyopadhyay from IFC World Bank Group attended the program.



➤ **Contribution of Jadavpur University East Coast Alumni to University Laboratories in 2023**

Jadavpur University sincerely acknowledges the funding initiative of JU East Coast Alumni or JUECA, that picked up momentum after the visit to JU by Mrs. Nabanita Chakraborty (BArchE, 1995) on July 18, 2023. Her visit to two departments, namely Chemical and Mechanical Engineering, and discussion with the faculty members there in compliance to a JUECA Board decision set the ball rolling. Heads of the two Departments were requested to submit initial proposals for about 15000 USD and 10000 USD respectively. On the basis of the submitted quotations, the University is receiving the donations in instalments. Following the receipt of the first instalment



**Machine Elements Laboratory, Mechanical Engineering Dept.**  
receiving support from JUECA & Mr. Sanat Chattopadhyay



**Installed facility in the above laboratory**

on September 27, Mechanical Engineering Department could complete the installation a 3D printer and scanner on October 30. At present, one final year Masters-degree student Sagnik Ghatak is working on this facility. Subsequent to the working demonstration, two more instalments were released on November and December. The total donation sent by them so far stands at 26000 USD. Mr Sanat Chattopadhyay (BChE 1981), Executive Vice President and President, Merck Manufacturing Division and a member of JUECA visited the University on January 2, 2024 to consolidate the bonding and carry on the process further.

➤ **Inauguration of a High Pressure High Temperature Pilot Plant Reactor at the Chemical Engineering Department, JU**



**Mr. C. Ravi Prasad and his wife with the Pilot Plant Reactor donated to the University**

**M**r. C. Ravi Prasad, 1971 batch Alumni donated a High-Pressure High Temperature Pilot Plant Reactor to Chemical Engineering Department for the undergraduate and postgraduate studies and also for doctoral research in the Department. The Department of Chemical Engineering organized an event on 12th October, 2023 (Thursday) at 02:00 PM for the inauguration and demonstration of the pilot plant. Mr. Ravi Prasad and his wife were present on the occasion. Both the Department and the University sincerely acknowledge the generous support of Mr. Ravi Prasad towards achieving the goal of the University in academics and research.



## ➤ Contributions of GJUAF to the University Laboratories



*President, GJUAF, members of the foundation and the faculty members of ETCE Department at the newly founded laboratory*

The Government of India has identified semiconductors as one of the sectors for growth in the government's 2030 vision. As a result, a new program called "Chips to Startups" has been launched that is intended to produce 85,000 semiconductors skilled engineers to make India a semiconductor hub.

Jadavpur University's Electronics and Telecommunication Engineering department (ETCE) extend its facility of IC Center to an Integrated Circuits Center of Excellence (IC COE) to serve as a hub for research, innovation, and collaboration in the field of IC technology. As part of the IC COE initiatives two laboratory facilities have recently been inaugurated with the support from the university alumni, who are members of the Global JU Alumni Foundation (GJUAF), based in California, USA. GJUAF donated approx-



*Inauguration of the Laboratory in the Dept of ETCE, JU*

imately Rs. 32 Lakhs to the University for setting up a lab on Analog and Mixed signal VLSI lab. The laboratory was inaugurated on 4th January, 2024 in presence of Dr. Ranjit Chakravorti, President GJUAF. Dr. Subhankar Basu, ETCE alumni was also present during the inauguration programme. This laboratory will provide a hands-on learning environment for students, allowing them to apply theoretical knowledge to

real-world applications, thereby making them industry-ready. The laboratory is equipped with one workstation, and 19 high end computers. Very soon Synopsys, an Electronic Design Automation (EDA) tools, will be installed in the computers. Along with that the fund will also support state of the art embedded system board in Internet of Things and ML laboratory.

The other lab, namely Digital VLSI Design laboratory, has been set up in collaboration with Synopsys, a global EDA company based in the US. The initiatives have been taken care by the alumni members, which lead to an agreement with Synopsys for collaboration and lab setup.

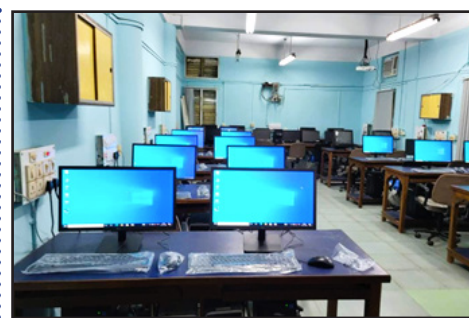
Students will benefit from the laboratories as it will give them exposure to potential career paths and networking opportunities with professionals working on cutting-edge technology, enhancing their employability. Industries benefit from access to a pool of talent adept in handling complex analog and digital signals, addressing the skill gap in the workforce.

GJUAF is also supporting other laboratories and initiatives in different departments of the University, like in the Departments of Geological Sciences, Chemical Engineering, Mechanical Engineering, Electrical Engineering, Production Engineering, School of Cultural Texts and Records (Shabdakalpo Project) and Department of English with a funding support of nearly Rs. 40 Lakhs in the last three years.



*Inauguration of the new laboratory with GJUAF support*

Production Engineering Department received a support from the Global Jadavpur University Alumni Foundation (GJUAF), USA to upgrade the Computer Applications Laboratory. Fifteen new computers with high level configurations have been donated by GJUAF which are being effectively utilized for conducting Computer lab classes for UG and PG students utilizing application software related to design and simulation. Presently, Siemens is collaborating and supporting the department under the CSR programme of Govt. of India.



*The Laboratory Facilities*

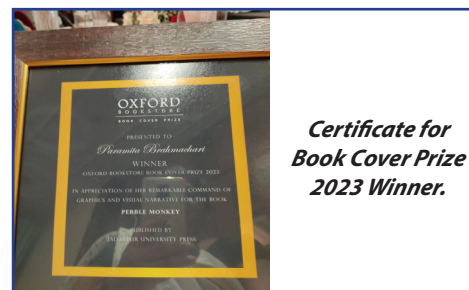
Several advanced software like Siemens NX, ANSYS, COMSOL Multiphysics, MATLAB, etc. will be effectively utilized to train students as well as carrying out research with the support of these computers.





# JU SUCCESS STORIES

► **Jadavpur University Press** is delighted to announce that the cover of its book 'Pebblemonkey' has won the **8th Oxford Bookstore Book Cover Prize**. The designer is **Paramita Brahmachari**, an alumnus of JU; the translator of the book, **Arunava Sinha**, is also a JU alumnus.



► **Jadavpur University's School of Water Resources Engineering** is actively involved in a prestigious project in collaboration with the West Bengal Transport Infrastructure Development Corporation Limited (WBTIDCL), Government of West Bengal. This endeavour is financially supported by the **World Bank through its Research Scheme**, titled "Appointment of Agency for Baseline and User Satisfaction Survey under West Bengal Inland Water Transport, Logistics, and Spatial Development Project." This project is co-ordinated by Prof. Dr. Pankaj Kumar Roy (Principal Investigator) of School of Water Resources Engineering, Jadavpur University. The primary goal of this project is to enhance the quality of Inland Water Transport Services in the region and integrate high-quality passenger and vehicle ferry services, as well as inland freight, into West Bengal's water transport network. Specifically, the project focuses on the development of ferry terminals and related infrastructure along River

Hooghly from Tribeni to Raichak. This strategic approach aims to optimize the utilization of waterways, contributing to the overall growth and sustainability of transportation systems in the state. With financial support from the World Bank, this initiative seeks to bring about a significant improvement in the efficiency and accessibility of water transport services.

Jadavpur University is proud to be a part of this ground-breaking effort, bringing its expertise in School of Water Resources Engineering to contribute to the success of the project. The university looks forward to making valuable contributions to the development of sustainable and efficient water transport solutions in collaboration with the government and other stakeholders. We express our gratitude to the Government of West Bengal for entrusting us with this significant responsibility, and we are committed to delivering high quality results that align with the project's objectives.

► **90.8 Community Radio JU** received on 24 September, 2023, a **certificate and a memento from the West Bengal Commission for Protection of Child Rights (WBCPCR)** for its series of programmes titled 'Sahaj Path'. The series is aimed at educating underprivileged children in collaboration with WBCPCR. The programmes innovatively re-acquaint the children with their school syllabi through music and storytelling. More than 400 episodes have been broadcast and uploaded on YouTube so far.



*Prof. Abhijit Roy (Dept. of Film Studies) receiving the memento from Hon'ble Minister Dr. Shashi Panja*

## ACADEMIC ACTIVITIES & ACCOLADES OF JU

► Peer team of **National Board of Accreditation (NBA)** visited Jadavpur University during 24th – 26th March, 2023 for the assessment of the Undergraduate programs of the Departments of Power Engineering, Instrumentation and Electronics Engineering and Information Technology located at the Salt Lake Campus of the University. The Departments were accorded accreditation for a three year period upto 30th June 2026.

► The Department of Computer Science and Engineering has received a **financial assistance of Rs. 86,50,000/- from the Department of Science and Technology (DST)** under the **FIST scheme**. The fund has been sanctioned for a period of five year for the upliftment of laboratory infrastructure and facilities.

► Three proposals of Jadavpur University under the **Scheme for Promotion of Academic and Research Collaboration (SPARC) Phase II** have been sanctioned by the Ministry of Education, Govt. of India in 2023. Prof. Nilanjana Gupta (Retired Professor, Dept of English), Prof. Sayantan Dasgupta (Dept of Comparative Literature) and Dr. Nandita Banerjee Dhawan (School of Women's Studies) are the Principal Coordinators and they will be collaborating with the University of Liverpool, University of East Anglia and Queen's University Belfast, respectively.



# FACULTY SUCCESS STORIES

## ► Faculty and Student Exchange Flourishes in Collaborative Research between Jadavpur University and Université Côte d'Azur, Nice, France

**By Prof. Ranjan Ganguly,**  
**Power Engineering, JU**

Institut de Physique de Nice (IN-PHYNI) of Université Côte d'Azur in Nice, France was invited Prof. Ranjan Ganguly (RG) of Department of Power Engineering, JU during the month of October 2023 as a Guest Scientist under the invitation of Doebelin Federation (CNRS), France, to carry out collaborative research with Dr. Harunori Yoshikawa (HY), an associate professor at INPHYNI. During his visit, RG delivered an insightful talk and a few research presentations at INPHYNI, sharing his expertise, and engaged with fellow research scientists there. The collaborative focus of RG and HY centers around a cutting-edge air purification system. This innovative method employs an array of fiber electrodes, utilizing electrostatic forces (known as DEP force) generated by applying electric voltage to the electrodes for the removal of airborne harmful agents. The genesis of their collaboration dates back to their first meeting at a CEFIPRA Indo-French workshop on Electrohydrodynamics (EHD) at IIT Kharagpur in November 2019. RG's specialization lies in the experimental fluid mechanics of droplet interception and capture for fog harvesting, while HY contributes rich theoretical research experiences in flow control

by electric fields. Both identified their complementary knowledges and skills and found shared interest in water droplet collection through EHD forces. Their thematic interest intensified due to the challenges posed by the Covid-19 pandemic, since both recognized the potential of their system in efficiently removing harmful agents, including virus-contaminated water droplets, from the air stream. Their scientific collaboration officially commenced in January 2021, supported by a CNRS IEA (International Emerging Action) project titled "Wearable Electrostatic Air-Purification System for face masks (WEAPS)," Ref. IEA 00338. The project supported almost exclusively the travel costs for project collaborators to visit their foreign partners during 2021-22. In the first year of the WEAPS project, Mr. Arkadeep Datta (AD), a Ph.D. student of RG's laboratory (ARMA lab, Power Engineering Department, JU), visited



Harunori Yoshikawa and Rangan Ganguly offered a one-day Workshop on "Modelling and experimental techniques on dispersed phase flows" at Power Engineering Dept. of JU.

at INPHYNI. There, under HY's guidance, AD conducted both numerical and experimental investigations, contributing significantly to the project. His expertise also facilitated the development of a condensation experimental facility in France, where he transferred ARMA lab's knowledge on

droplet collection by fibers to Dr. Marie-Gabrielle Medici (MGM), another researcher at INPHYNI involved in the project. Subsequently, another ARMA lab student, Mr. Arijit Saha (AS), undertook a two-month research training stint at INPHYNI during the summer of 2022 on a related topic. AS conducted experiments characterizing the surface wettability of fibers, a critical aspect for optimal droplet filtering/collection. The collaboration thrived further as HY and MGM reciprocated the visits by spending three weeks each at ARMA Lab, between September and December 2022. During this time, RG and HY organized a successful one-day training workshop for undergraduate and graduate students and faculty members of JU and adjoining institutes at the JU-Salt Lake campus. Building upon the success of the CNRS-IEA exploratory project, RG and HY have submitted a proposal to the CEFIPRA Collaborative Scientific Research Programme in early 2023. The project has received technical approval and is currently awaiting administrative clearances, promising to strengthen the research ties between the two institutes over the next three years.

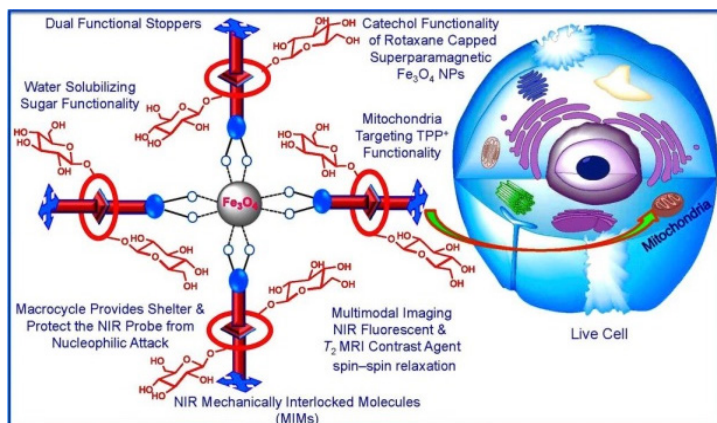


Ranjan Ganguly delivering a lecture at INPHYNI of Université Côte d'Azur in Nice, France.

# FACULTY SUCCESS STORIES

## ► Design of Rotaxane-Based Targeted Multimodal Imaging Probe

**By Prof. Samit Guha,**  
**Department of Chemistry, JU**



**Figure:**  
Representation of a H<sub>2</sub>O-soluble targeted multimodal imaging biomarker that integrates rotaxane-based NIR probe with a magnetic Fe<sub>3</sub>O<sub>4</sub> NP-based MRI agent.

Imaging methods for cancer diagnosis are widely used now-a-days but are expensive and have several limitations. Dr. Samit Guha (Assistant Professor, Department of Chemistry, Jadavpur University) and his research group have developed a rotaxane-based targeted multimodal imaging probe. Recently, their research on this subject has been published in the world's leading paper Journal of the American Chemical Society (J. Am. Chem. Soc. <https://doi.org/10.1021/jacs.3c06232>).

Dr. Guha mentioned that traditional single imaging methods, e.g., USG, CT, PET, SPECT, MRI, and fluorescence imaging, have created huge interests in biomedical science and clinical diagnosis. However, each imaging technique has its inherent advantages and limitations in terms of sensitivity, infiltration depths, resolution, as well as the risk of exposure to radiation (for CT) and radioactive substances (for PET/SPECT). In contrast to UV and visible light, NIR light excitation (650–900 nm) has advantages in the form of deep tissue infiltration, slight background noise, negligible autofluorescence high sensitivity at the molecular level with fast feedback that offers

at a spatiotemporal resolution than other imaging methods. However, MRI displays inadequate detection sensitivity and is incapable of watching molecular events. A single imaging method is questionable to meet all of the criteria to resolve a diagnostic problem and is unable to offer complete information. Integration of NIR-FL and MRI is advantageous since they do not involve harmful high-energy ionizing radiation contact (for CT) and radioactive tracers (for PET/SPECT). Dr. Guha mentioned that integrating the NIR dye with a magnetic nanoparticle (NP)-based MR agent to harvest complementary imaging information is challenging, and several problems need to be addressed

due to the presence of different physical phenomena within a single platform. Gadolinium compounds are most commonly used as a T<sub>1</sub> MRI contrast agents. However, gadolinium can cause some toxicity in the human body. That is why in their research they have

a remarkable tool for high-resolution cellular organelle imaging. Though, NIR-FL imaging also has its intrinsic limitation, for example it is unable to provide anatomical 3D info. Conversely, MRI holds unrestricted penetration depth and affords 3D tomographic info of soft tissues

used iron oxide nanoparticles. Iron is a crucial element for human life. Magnetic iron oxide NPs accelerate spin-spin relaxation of nearby Hs of H<sub>2</sub>O by creating a magnetic field, causing a signal diminution in T<sub>2</sub>-weighted MRI imaging. However, most of the NIR dyes frequently suffer from quenching that is a serious problem when they are capped onto superparamagnetic Fe<sub>3</sub>O<sub>4</sub> NP based MRI agent. Dr. Guha research group establish that NIR fluorescence quenching, bleaching of the dye by nucleophilic attack of biological analytes inside the cell, and the aggregation of dye issues can be mitigated by interlocking the probe inside a macrocycle to form rotaxane, which are coated on the magnetic Fe<sub>3</sub>O<sub>4</sub> NPs. Water-soluble, biocompatible, noncytotoxic, rotaxane-capped Fe<sub>3</sub>O<sub>4</sub> NPs are used for live-cell mitochondria-targeted NIR fluorescence, 3D and multicolor imaging in combination with T<sub>2</sub>-weighted MRI with a high relaxation rate ( $r_2$ ) of 180.7 mM<sup>-1</sup> s<sup>-1</sup> (Figure).<sup>Ref</sup> Dr. Samit Guha says all credit goes to research scholars Rabi Sankar Das, Debabrata Maiti, Samiran Kar, Tapas Bera, Ayan Mukherjee, Pranab Chandra Saha and Aniruddha Mandal! They are the real backbone of this project.



**Research Group of Professor Samit Guha**

### Reference:

R. S. Das, D. Maiti, S. Kar, T. Bera, A. Mukherjee, P. C. Saha, A. Mondal, S. Guha\* J. Am. Chem. Soc. 2023, 145, 20451–20461.



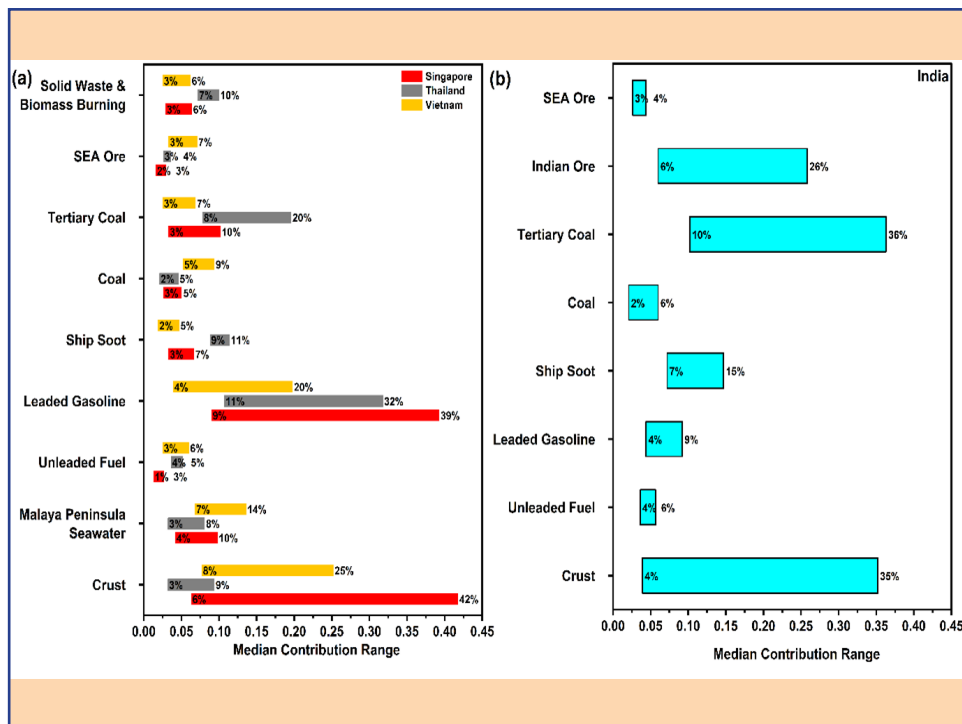
# FACULTY SUCCESS STORIES

## ➤ A lingering legacy of leaded gasoline in Southeast Asia

By Prof. Reshmi Das and Ms. Iravati Ray,  
School of Environmental Studies, JU

A century back, in 1923 leaded gasoline was first sold in the US market that wreaked havoc in the global environment throughout the past century. The elevated blood lead levels (BLL) of the American children was soon linked to the leaded gasoline emissions from automobile exhaust following which USEPA (United States Environmental Protection Agency) included Pb as a criteria air pollutant and banned its use in 1972. In US leaded gasoline phasing out was completed in 1986 and it took 20 years for another 120 countries to achieve the target. Post 2006 only five countries (Algeria, Yemen, Afghanistan, Iraq and Myanmar) were using leaded gasoline and in 2021, Algeria became the last country to ban leaded gasoline marking the success story of a global collaboration.

Atmosphere is the first recipient of the gasoline exhaust in the form of volatile Pb-halogenides. After several days the emitted Pb compounds settle on the top soil. Residence time of Pb in soil is 100 – 200 years. Thus legacy Pb from the global use of leaded gasoline in the past century prevailed. Evidence of recirculating legacy Pb in the atmosphere started to come from different corners of the world. We wanted to test this hypothesis in India and Southeast Asia (SEA). In the present day Pb in the atmospheric aerosol can be contributed from multiple sources such as coal combustion, ore processing, biomass burning etc. Thus it becomes challenging to decipher different sources solely based on Pb concentration in aerosols. The fingerprinting of the sources can be done by the immutable Pb isotopic signature. Pb has four naturally occurring isotopes out of which  $^{206}\text{Pb}$ ,  $^{207}\text{Pb}$  and  $^{208}\text{Pb}$  are radiogenic.  $^{204}\text{Pb}$  is the least abundant and the only non-ra-



**Figure:** Median contribution of individual sources towards atmospheric Pb in (a) SEA countries. (left)

(b) India determined from MixSIAR simulation. The percentages on the left-hand side and right-hand side of the bars represent the minimum and maximum contributions from each source respectively. (right)

diogenic Pb isotope. Hence the difference in isotopic signature of Pb bearing minerals arises from the radioactive decays of  $^{238}\text{U}$ ,  $^{235}\text{U}$ , and  $^{232}\text{Th}$ , respectively, and the relative proportion of initial U–Th–Pb in the system.

To address this issue, Pb isotopic compositions of aerosols ( $n=341$ ) along with plausible sources for SEA countries (Singapore, Thailand and Vietnam) & India were compiled. The compiled data was subjected to mixing polygon simulation (Monte Carlo) followed by Bayesian 3D isotope ( $^{206}\text{Pb}/^{207}\text{Pb}$ – $^{208}\text{Pb}/^{207}\text{Pb}$ – $^{208}\text{Pb}/^{206}\text{Pb}$ ) mixing model (MixSIAR) to account for source contributions and determine the proportion of iterations (probability) for which each aerosol fall within the envelope. MixSIAR es-

timates reveal consistent contribution from natural background. Among the anthropogenic sources, leaded gasoline is the largest contributor in SEA. Coal combustion and ore processing dominate in India (figure). Thus, in addition to the Pb from present industrial and vehicular sources, persistence of legacy Pb still pose environmental risks after more than two decades of leaded gasoline phase out.

This important finding was recently published in Communications Earth & Environment (CEE). CEE is a sub-journal to Nature Communications. The lead author Ms. Iravati Ray is a PhD student (AICTE Doctoral Fellow) in SOES.

# PATENTS

Inventor(s) Name	Title of the Patent	Patent Application No.	Date of filing	Present Status
Dr. Saikat Chandra Bakshi, Dr. Ankita Pramanik, Prof. Palaniandavar Venkateswaran, Dr. Ankita Ray Chowdhury, Dr. Avik Kumar Das	Smart Underground Mine Monitoring Device (Indian Patent)	202331063085	19th September, 2023	Filed
Dr. Saikat Chandra Bakshi, Dr. Ankita Pramanik, Prof. Palaniandavar Venkateswaran, Dr. Ankita Ray Chowdhury, Dr. Avik Kumar Das	Smart Auto Charging AUV for Water Quality Estimation with Dehazed Photo Capturing (Indian Patent)	202331063691	22nd September, 2023	Filed
Dr. Surajit Mondal, Dr. Amit Sharma, Prof. Papita Das, Mr. Sayan Mukherjee	System and method for producing value added products from waste plastics	202311019483 A	12th May, 2023	Published
Dr. Tamal Chakraborty and Prof. Iti Saha Misra	Spectrum Efficient Low Cost Integrated VoIP and IOT Platform for Wireless Communication System	201731013113	18th May, 2023	Published
Dr. Tanumay Manna and Prof. Iti Saha Misra	Method and Apparatus for Energy Efficient Data Transmission in Cognitive Radio System", Patent Publication Number	201731002796	09th May, 2023	Published
Dr. Chinmoy Ghorai and Dr. Indrajit Banerjee	Real-time Swimmer Care Device for Drowning Prevention in a Swimming Pool	202231040925	20th January, 2023	Published
Dr. Chinmoy Ghorai, Dr. Indrajit Banerjee and Dr. Sudipta Mukhopadhyay	Real-time Remote Air Quality Monitoring System with Automatic Sprinkler System	202231040929	20th January, 2023	Published
Dr. Arpita Debnath, Prof. Sarmistha Neogy, Dr. Chinmoy Ghorai and Dr. Indrajit Banerjee	Finding out a Suitable Infrastructure less Mobile Charging Station for Charging Electric Vehicles on the Go	202331002921	08th September, 2023	Published



# MoU SIGNED

Company Name	Date of Execution & Duration	Type of Collaboration
Institute Of Language Studies and Research (ILSR)	13/01/2023 (for 5 years)	Doctoral (Ph.D.) and Post-Doctoral course in Inter-Disciplinary areas of research
Department of Biotechnology, Govt of India (DBT)	16/01/2023 (for 3 years)	Project entitled "Multimodel Non-invasive Image Analysis using Deep learning Approach for Automated Diagnosis of Arthritis and Prediction of Disease Severity"
Samya Foundation	18/01/2023 (for 5 years)	Six-month certificate course entitled "Dance and Movement Therapy for Special Needs"
Department of Biotechnology, Govt of India (DBT)	02/02/2023 (for 2 years)	Project entitled "Development Of Sensing Systems For Rapid And In Situ Quality Assessment Of Black Rice, Ginger Technologies"
Bengal Institute of Pharmaceutical Sciences (BIPS)	02/10/2023 (for 3 years)	Four years Bachelor of Pharmacy (Ayurveda) (B. Pharm-Ayur) degree course
University Of Science & Technology, Meghalaya	24/03/2023	Joint research activities, collaboration in various training programmes etc.
Professor Himani Bannerji	30/03/2023	Endowment deed for Manabendra Bandyopadhyay memorial lecture/translation workshop fund
Dr. Indrani Halder	30/03/2023	Endowment deed for Dr. Indrani Halder Scholarship Fund
Voice of World	31/03/2023 (for 5 years)	Introducing two years course entitled "Bachelor of Education. Special Education (Visual Impairment) (B.Ed. Spl.Ed(VI))"
Caring Minds	31/03/2023 (for 5 years)	Introducing one year course entitled "Diploma in Career Counselling"
Caring Minds	31/03/2023 (for 5 years)	Introducing one year course entitled "Diploma in Student Counselling"
Adam Mickiewicz University of Poznam	24/04/2023 (for 1 years)	Erasmus+ Programme
Mr. Hrishikesh Samanta	05/02/2023	Endowment deed for Sucharita Samanta Memorial Scholarship
Mr. Amiya Kumar Samanta & Mrs. Kajalrekha Samanta	05/02/2023	Endowment deed for Abhik kumar Samanta memorial annual lecture
Mrs. Apala Gupta Egan	05/02/2023	Endowment deed for Jyotirmoyee devi Sen memorial lecture
ICMR-NION (National Institute of Occupational Health)	30/05/2023 (for 5 years)	Research programme entitled "Ph.D. Programme in Basic & Translational Research" to be conducted by ICMR-NIOH under affiliation of JU
Jadavpur University, 1968 Mechanical Engineering Alumni	06/05/2023	Endowment deed for Jadavpur University, 1968 Mechanical Engineering Alumni endowment fund
Ms. Sutapa Biswas Majee	30/06/2023	Endowment deed for Dr. Narayan chandra Majee memorial scholarship fund
Bhabha Atomic Research Centre (BARC)	07/11/2023 (for 1 years)	Research entitled 'Molten Jet Fragmentation Study'

Company Name	Date of Execution & Duration	Type of Collaboration
Dept. of MSME and TEXTILES, Govt. of WB & MSME Tool Room & Indian Institute of Packaging & WEBEL	22/11/2023 (for 3 years)	To address the technological issues and practices among MSMEs in West Bengal
Indian Institute of Science, Bengaluru	22/11/2023 (for 5 years)	To develop academic and educational cooperation, establish a collaborative program in the field of science and technology between both parties
Synopsis (India) EDA Software PVT. LTD.	22/11/2023 (for 5 years)	Curriculum development, joint workshops and hiring & internship purposes
Cairo University	28/11/2023 (for 5 years)	Promotion of collaborative scientific research and joint applied research projects, conferences, seminars and symposia. Also, collaborative research work and exchange of scientific information in the field of phytopharmaceutical industry

## COPYRIGHTS

Inventor(s) Name	Title	Diary Number	Filing date	Status
Asfak Ali, Md. Manarul Sk, Debanka Pal, Saifuddin Sk, and Sheli Sinha Chaudhuri	IURWDD: Indian Urban and Rural Waste Detection Dataset and Benchmark	19667/2022-CO/L	18th September, 2022	Filed
Sk. Daud Hassan, Debanka Pal, Sriparna Banerjee and Sheli Sinha Chaudhuri	Fuzzy Logic based adaptive phase information preserved de-speckled filter for dual polarized SAR data	3869/2023-CO/SW	13th February, 2023	Filed
Asfak Ali, Sheli Sinha Chaudhuri	Video-Haze 100 Dataset	8804/2023-CO/L	4th April, 2023	Filed
Ranadhir Das, Sriparna Banerjee and Sheli Sinha Chaudhuri	BongFloralpedia: A Comprehensive Collection of Diverse Types of Flowers in fields of Ranaghat, West Bengal	17471/2023-CO/L	2nd July, 2023	Filed
Md. Manarul Sk, Asfak Ali, and Sheli Sinha Chaudhuri	DWSD: Dense Waste Segmentation Dataset	19621/2022-CO/L	17th September, 2022	Filed
A Ghosh, Asfak Ali, Sriparna Banerjee, and Sheli Sinha Chaudhuri	No Reference Dataset for Daytime and Nighttime Synthetic Hazy Image	18933/2023-CO/L	3rd October, 2023	Filed
Asfak Ali, Dilwar Hossain, Saifuddin Sk, Sheli Sinha Chaudhuri	Video-Rain99 Dataset	8801/2023-CO/L	4th April, 2023	Filed
Swati Chowdhuri, Sriparna Banerjee, Ayushi Bhargav and Sheli Sinha Chaudhuri	BCEI: A novel balanced dataset designed for performing automated leaves identification	8952/2023-CO/L	5th April, 2023	Filed



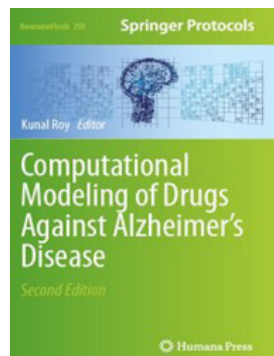
# BOOKS PUBLISHED

## Edited By:

**Kunal Roy**

**Department of Pharmaceutical Technology, JU**

This edited volume describes different



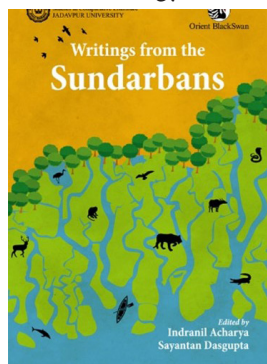
computational methods encompassing ligand-based approaches, structure-based approaches (homology modeling,

docking, MD simulation), and combined approaches with applications in anti-Alzheimer drug design. Special topics like multi-target drug development, natural products, protein misfolding, and nanomaterials are also included in connection with computational modeling of anti-Alzheimer drug development.

## Edited By:

**Indranil Acharya, Sayantan Dasgupta**  
**Comparative Literature, JU**

This anthology includes literary translation in English on the



Sundarbans by authors belonging to this great riverine ecosystem. The collection foregrounds the many

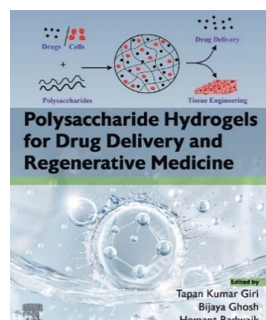
issues that continue to haunt marginalised communities across the world. An attempt has been made to give voice to the subaltern concerns over agency and participation, inclusion into the mainstream, individual as well as collective rights and sociopolitical and cultural recognition.

## Edited By:

**Tapan Kumar Giri, Bijaya Ghosh, Hemant Badwaik**

**Department of Pharmaceutical Technology, JU**

Polysaccharide Hydrogels for Drug



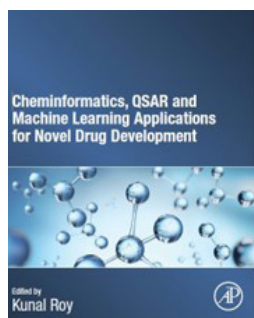
Delivery and Regenerative Medicine is an archival reference for scientists working on hydrogels based on microbial and animal sources.

The book contains Information regarding their synthesis, characterization, and applications in the field of drug delivery and regenerative medicine.

## Edited By:

**Kunal Roy**

**Department of Pharmaceutical Technology, JU**



The book aims at showcasing different structure-based, ligand-based, and machine learning tools currently used in drug design. It also

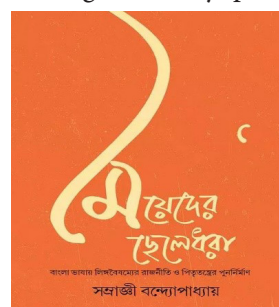
highlights special topics of computational drug design together with the available tools and databases. The integrated presentation of chemometrics, cheminformatics, and machine learning methods is one of the strengths of the book.

## Lead Author:

**Samragnee Bandyopadhyay**

**PhD Scholar, School of Women's Studies**

Samragnee Bandyopadhyay, "Meyeder



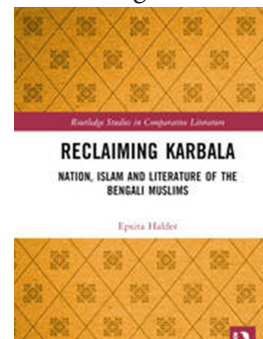
Chhele dhora, Bangla Bhashay Lingo boishomyer Raajneeti O Pitritontr Punornirman", ISBN: 978-93-93703-00-2

## Authored By:

**Epsita Halder**

**Department of Comparative Literature, JU**

Reclaiming Karbala studies the emer-



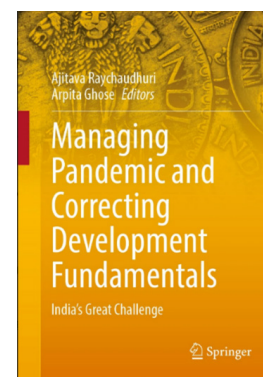
gence and formation of a viable Muslim identity in Bengal over the late-19th century through the 1940s. Beginning with an explanation of the tenets of the battle of Karbala, this multi-layered study explores what it means to be Muslim, as well as the nuanced relationship between religion, linguistic identity and literary modernity. This book is an intervention into the literature on regional Islam in Bengal, offering a complex perspective on the polemic on religion and language in the formation of a jatiya Bengali Muslim identity in a multilingual context.

## Edited By:

**Ajitava Raychaudhuri, Arpita Ghose**

**Department of Economics, JU**

This book discusses the extent and



nature of COVID-19 pandemic in India and its effect on the society and economy. The suggested management practices discussed here

are also not stereotype. The book highlights deficiencies in development fundamentals in India on several dimensions, especially health, education, quality of public spending, taxation orientation, external trade involvement across states, etc., which create an inbuilt bottleneck toward the creation of a more equal society.

**Edited By:**

**Sayantana Dasgupta**  
**Comparative Literature, JU**

This book seeks to enhance the visibility of literary texts and traditions from various Indian languages and also to bring Dalit literature to the center stage. Pramanik focuses extensively on lives and lifestyles of the people in the Sundarbans, the largest mangrove forest in the world and an ecologically fragile zone. Drawn from personal experience, many of these stories paint in vivid colors the deprivations that define life in this part of the world.

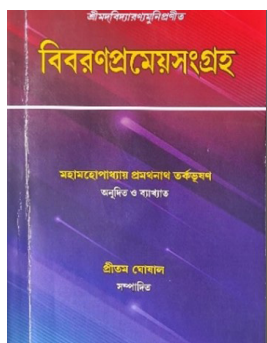
**Edited By:**

**Ayesha Mukherjee, Abhijit Gupta, Sujit Kumar Mandal, Shrutakirti Dutta**  
**Jadavpur University Press, and School of Cultural Texts and Records, JU**

Famine Tales: A Graphic Anthology brings to light a selection of stories of famine from both India and Britain, presented through the work of two teams of artists.

**Edited By:**

**Preetam Ghoshal**  
**Department of Philosophy, JU**

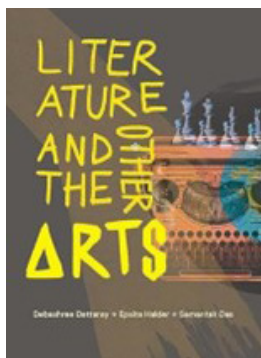


“Vivar-anapramey-asamgraha” Sanskrit Pustak Bhandar Publication ISBN: 978-93-95219-03-7

**Edited By:**

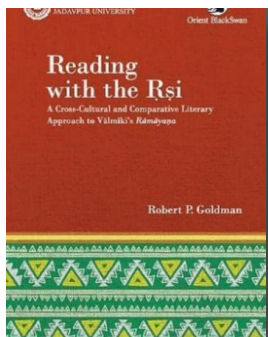
**Debashree Dattaray, Epsita Halder, Samantak Das**  
**Comparative Literature and JU Press**

This special volume of essays put together by Jadavpur University's Comparative Literature explores a range of arguments contesting the ideological and artificial boundaries of literature and its interrelationships with the wider context of the arts.

**Edited By:**

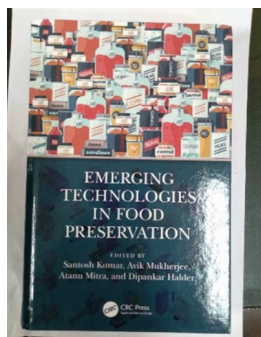
**Kavita Panjabi, Sucheta Bhattacharya, Samantak Das**  
**Comparative Literature, JU**

The work examines the nature and contents of the Sanskrit epic poem, generally called the Valmiki Ramayana, in the form(s) it has come down to us in modernity. It discusses the issues the poem presents to the translator and reader in light of the ancient epic's popularity.

**Edited By:**

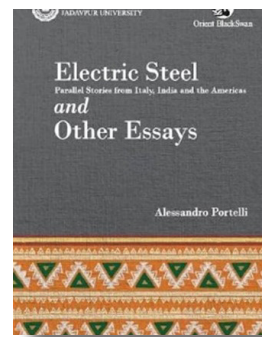
**Dipankar Halder, Santosh Kumar, Anik Mukherjee, Atanu Mitra**  
**Department of FTBE, JU**

The book discusses the innovations and advancements in food processing and preservation that have emerged over the last two decades of the 21st century.

**Edited By:**

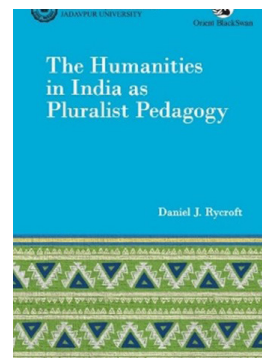
**Kavita Panjabi, Sucheta Bhattacharya, Samantak Das**  
**Comparative Literature, JU**

The book has three essays by the author: 'Electric Steel: Parallel Stories from Italy, India and the Americas', 'What Makes Oral History Different' and 'A Dialogical Relationship: An Approach to Oral History'. They emphasise the importance of oral narratives and acts of translation and interpretation.

**Edited By:**

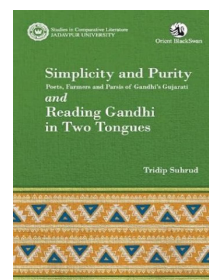
**Kavita Panjabi, Sucheta Bhattacharya, Samantak Das**  
**Comparative Literature, JU**

This essay charts a vision of Humanities education in terms of global and social responsibilities. The author draws on social, historical and personal narratives to address numerous issues raised by colonial and postcolonial inequalities.

**Edited By:**

**Kavita Panjabi, Sucheta Bhattacharya, Samantak Das**  
**Comparative Literature, JU**

The book contains two essays. The first, 'Simplicity and Purity', examines Gandhi's relationship with the Gujarati language. The second essay, 'Reading Gandhi in Two Tongues' suggests Gandhi was a bilingual thinker and writer.





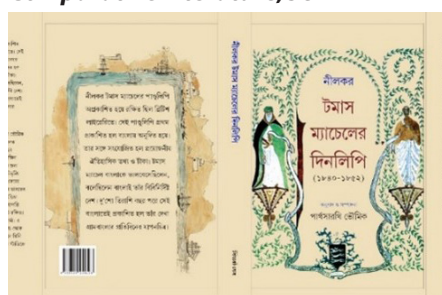
**Edited By:**  
**Preetam Ghoshal**  
**Department of Philosophy, JU**

Bhāmātī is one of the two sub-schools of the advaitic philosophy as propounded by Śankara, founded by Vācaspati Miśra. It is named after his commentary on Śankara's brahma sūtras. Vācaspati Miśra is said to have lived around the first half of ninth century A.D. He is said to have hailed from the region of Mithila (modern Bihar).

**Edited By:**  
**Aishika Chakraborty**  
**School Of Women's Studies, JU**

Widows of Colonial Bengal: Gender, Morality, and Cultural Representation seeks to explore the unique vulnerability and precarity of widowhood in Bengal during the late nineteenth and early twentieth centuries. A major purpose of this study is to re-examine the official and indigenous discourses surrounding the widely debated Widow Remarriage Act of 1856.

**Edited By:**  
**Parthasarathi Bhaumik**  
**Comparative Literature, JU**



## INVITED TALKS

► **Prof. Sudipta De** delivered a Key-note talk on 'Optimum distributed hybrid energy systems as a sustainable solution for poor and remote Indian villages' in the Indo-French Workshop on 'Clean and Sustainable Energy Technologies (Infinite)', CSIR-National Physical Laboratory, New Delhi, jointly organized by CSIR (India)-CNRS (France), 21st – 24th February 2023.

► **Prof. Sudipta De** delivered a Key-note talk on 'Vision East: Green Initiatives led Growth & Employment (Introduction to the theme)', Interaction Session with Shri Bhupender Yadav, Hon'ble Union Minister of Environment, Forest and Climate Change and Labour and Employment by Indian Chamber of Commerce, Kolkata, 14th February, 2023.

► **Prof. Aishika Chakraborty** was invited as a speaker in the 51st Annual Conference on South Asia (ACSA) at its pre-conference symposium held in the University of Wisconsin-Madison during 18th - 21st October 2023.

► **Prof. Ujjal Maulik** delivered a Key-note lecture on "Current Trends and Future Possibilities in Artificial Intelligence and Data Sciences" in 15th International Conference on Information Technology and Electrical Engineering, Chiang Mai, Thailand, Oct. 26-27, 2023.

► **Prof. Ujjal Maulik** delivered a Key-note lecture on "Artificial Intelligence and Data Science: Issues, Trends and Challenges" in the International Workshop on Intelligent Systems and Computational Intelligence (IWIS-CI2023), Changsha, China, February 26-28, 2023.

► **Prof. Ujjal Maulik** delivered a Key-note lecture on "Artificial Intelligence

and Data Science: Current Trends and Future Challenges", IEEE Distinguished Lecture, University of New South Wales, Canberra, Australia, 5th June 2023.

► **Prof. Abdul Matin** delivered an invited lecture on "Agrarian Islam, Market Economy and the Idea of Common Good" at the University of Bonn, Germany on 22nd May 2023.

► **Prof. Kunal Roy** delivered a key-note oral presentation at the 20th



International Workshop on Quantitative Structure-Activity Relationships in Environmental and Health Sciences, held in Copenhagen, Denmark, 5th - 9th June 2023.

► **Prof. Sudipta De** delivered a Keynote talk on 'Role of mechanical engineers for mitigating climate change' in the All India seminar at The Institution of Engineers (India), Assam State Centre, Guwahati, 19th – 20th August 2023.



# INSTITUTE EVENTS

## Events organized by Department of Comparative Literature

► Department of Comparative Literature, JU organized a research symposium of Gendered Journeys on the “Trajectories of STEM Students and Graduates through Higher Education and into Employment” in collaboration with the IIM Calcutta and the University of Glasgow (UK) on 17th of January, 2023 in Committee Room-1 and funded by the Economic and Social Research Council (ESRC, UK).



► 14th Debrupa Bal Memorial International students' seminar on “Reclamation and rehabilitation: Cultural Imagination across space and time” on 1st – 2nd February, 2023. The annual event was attended by national and international students and it is an event that is completely organised by students of the Comparative Literature Department with the help of two faculty coordinators.



► International Conference on Canadian Studies 2023 of “Ecology and the Individual: reading transnationalism from Indo-Canadian perspectives” organized on 15th-16th February, 2023. The conference involved activists, scholars and students from India, Canada, United States and Australia. Two student prizes were also given for the best paper in Diaspora Studies (Victor J. Memorial Prize) and in Indigenous Studies (Renate Eigenbrod Memorial Prize) respectively.



► Dept. of Comparative Literature, JU organized a lecture on “Rabin-drasingit Revisited: Transmission, Translation, Transcription” on 30 November 2023. The lecture was delivered by Prof. Ananda Lal. The Buddhadeva Bose Memorial Lecture 2023 was followed by the launch of a memoir entitled Memoir: Smriti Katha Bole (Deys Publishing 2023) by the late Damayanti Basu Singh



► The third public lecture of the Centre for Studies in Islamicate Asia, Dept. of Comparative Literature, JU, titled “The Democratization of Sufism in the South Asian Diaspora” delivered by Prof. Frank Korom, Department of Religion and Anthropology, Boston University, USA on 6th January, 2023, at the Buddhadeva Bose Sabhaghar of the Department. Dr Kashshaf Ghani, School of Historical Studies, Nalanda University, chaired the session.

► CENTIL (Centre for Translation of Indian Literatures) was organized a one-day online Symposium on “Translation as Reception” in collaboration with Sahitya Akademi on 12th January, 2023.

► Centre for Translation of Indian Literatures (CENTIL), JU organized a discussion on “Hazaar Rang Shaa-iri: The Wonderful World of the Urdu Nazms” featuring Prof. Anisur Rahman on 6th March, 2023.

► The 5th talk of the Centre for Studies in Islamicate Asia, Dept. of Comparative Literature, JU was organised on 23rd March, 2023 (Thursday) at the Buddhadeva Bose Sabhaghar. The talk titled “Islam in the Western Himalayas: trade, culture, religion” was delivered by Mr. Abeer Gupta, Director of Achi Association India, Delhi & Ladakh, film-maker and visual anthropologist. In his talk Gupta explored the western Himalayas at the intersection of trade, culture and religion.

► Department Of Comparative Literature, JU organized an International Academic Conference on “Bangladesh-Freedom and Independence: Retrospection and/or Contemporary Contexts” on 30th - 31st March, 2023. The Hon'ble Deputy High Commissioner of Bangladesh, Mr. Anadib Elias delivered the keynote address.



► Department of Comparative Literature, JU organized a collaborative discussion session on “University Social Responsibility and Academic Social Responsibility: A Discussion” with the participation of UK India Business Council (UKIBC) & University of East Anglia, UK on 21st March, 2023. The event involved the interdisciplinary participation of international and national delegates working in the field of education, translation, creative arts, gender, environmental humanities, urban planning and indigenous studies.



► Department of Comparative Literature, JU organized a talk on "From Bardhaman to Bloomington: How Lausena Made the Sun Rise in the West" delivered by Fulbright Scholar, Prof. Rebecca J. Manring on 10th April, 2023 at Buddhadeva Bose Sabhaghar. The talk was followed by a discussion with Prof. Sujit Kr. Mandal of JU.

► Centre for Translation of Indian Literatures (CENTIL), JU organized a Translation Workshop on the short stories of SHIVA KUMAR RAI (Nepali-Bangla and Nepali-English) in collaboration with Salesian College (autonomous), Sonada and Siliguri on 15th – 16th June 2023. Dr. Sujata Rani Rai of Darjeeling college delivered the keynote lecture.

► Dept. of Comparative Literature, JU organized a talk on "Missionary Translation in the Making of Bengali Islam" by Prof. Ayesha A. Irani, University of Massachusetts, Boston on 10th July, 2023 at Buddhadeva Bose Sabhaghar. The talk was based on Professor Irani's book *The Muhammad Avatāra: Salvation History, Translation, and the Making of Bengali Islam* (OUP, 2020).

► Dept. of Comparative Literature,  
JU presents a discussion on “Exile,  
angst & Agitation” by Tibetan writer  
and activist Tenzin Tsundue on 24th  
July 2023.

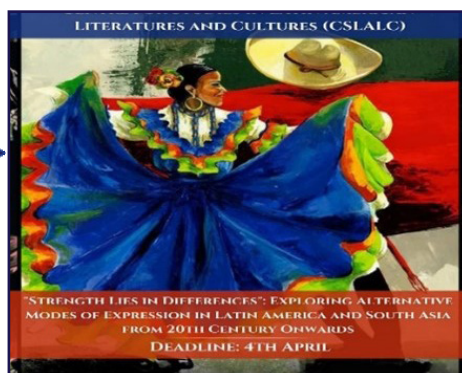
► Centre for Translation of Indian Literatures of Dept. of Comparative Literature, JU organized an online lecture on “Translation as Discovery and Translation as Recovery” in the occasion of International Translation Day on 30th September, 2023

► Dept. of Comparative Literature, JU organized a **talk on "Tiger spirits and were-tigers in Adivasi India: indigenous metaphors of an environmental distress"** by Prof. Stefano Beggiora, University of Ca' Foscari on 3 November, 2023. Prof. Beggiora also expressed interest in exploring Erasmus+ partnerships with the Department.



► Centre for Translation of Indian Literatures (CENTIL), JU was organized a workshop on “**Translating Doris Lessing - A translation**” in collaboration with the Centre for Studies in Gender, Culture and Media (CSGCM), West Bengal State University, and Bidhannagar College (Initiated by the Doris Lessing Society, South Asia on 5th – 6th April, 2023).

► Centre for Studies in Latin American Literatures and Cultures organized a two day conference “Strength lies in Difference”: Exploring Alternative Modes of Expression in Latin America and South Asia from 20th Century Onwards” on 18th – 19th April 2023 at the Buddhadeva Bose Sabhagar. The keynote address was delivered by Prof. Shyamaprasad Ganguly of JNU.



► **Palaver XVI.** Centre for studies in African literatures and Cultures, JU organized Identity, Resilience and Survival: The African world and Africa in the World on 14th-15th March, 2023.



► The event **Book launch of Literature and Other Arts** (JU Press 2023) was organised to commemorate both the first death anniversary of the late Prof. Samantak Das and the publication of the book co-edited by Professor Das, Prof. Epsita Halder and Prof. Debashree Dattaray on 20th July 2023.





## Events organized by Department of Sociology

► A students' seminar titled "**Beyond the Screen: Mass Media and Society**" was successfully organized by the MA class of Department of Sociology on April 28, 2023, under the guidance of teachers of Dept. of Sociology. Delving into the intricate relationship between media and society. A total of fifty-five abstracts poured in from various Kolkata-based institutions, with representation from diverse departments of JU, University of Calcutta, St. Xavier's College (Autonomous), Adamas



University, IGNOU, Lady Bra-bourne College, Jogomaya Devi College, and Rani Birla College. Sixteen outstanding abstracts were selected for presentation. The seminar offered a collaborative platform, fostering rich interdisciplinary dialogue and exchange between students and faculty members.

## Events organized by Radio, JU

► 90.8 Community Radio JU has started a series of programmes for "information dissemination, education and communication to farmers in West Bengal" as part of a project of Ministry of Chemicals and Fertilizers, GOI, with the support of Matix Fertilizers & Chemicals Ltd, India. Radio JU was identified by the Ministry as one of the radio stations for the purpose on 3 November, 2023.



► Radio JU undertook a three-week long campaign on media literacy in collaboration with FactShala, a news and information literacy project run by DataLEADS with support from the Google News Initiative on April, 2023.



## Events organized by School of Women's Studies

► School of Women's Studies, JU organized Pritilata Waddadar Memorial Lecture on "Striking Bodily! Striking Culturally! is there an Indian Way of Making Strikes More Subjective and Affective?" on 1st August, 2023 at Vivekananda Hall. The lecture delivered by Dr. Brahma Prakash, Assistant Professor, School of Arts and Aesthetics, Jawaharlal Nehru University, New Delhi.

► School of Women's Studies, JU organized VII Ranjabati Sircar Memorial Lecture on "Unspoken- Of Sadness, Secrets and the Unspeakable." on 7th July 2023 at Vivekananda Hall. The lecture

was delivered by Dr. Sarmistha Gooptu and chaired by Dr. Rima Mukherji.

► School of Women's Studies, JU organized a special lecture on "Vulnerability as global capital: Men's health, violence and Indian men's rights activists" delivered by Prof. Srimati Basu from the Department of Gender and Women's Studies, University of Kentucky and chaired by Professor Sudeshna Banerjee from Dept. of History, JU on 10th May, 2023 at Professor Anita Banerjee Memorial Hall, JU.

► School of Women's Studies, JU organized XXII Sukhalata Rao Memorial Lecture on "Representation, Authorship

and Ugly Academic Freedoms: Insights from Those Changing Academia from Within." on 17th May, 2023. The lecture was delivered by Prof. Dina Zoe Belluigi from School of Social Science, Education and Social Work, Queen's University, Belfast.

► School of Women's Studies, JU presented an event title "Queering Marriage and Family: A Feminist Exploration" at Vivekananda Hall on 27th July 2023. The event had screening of the film "Gay India Matrimony" directed by Ms. Debalina (Director of the Film).





# STUDENTS CORNER

## Awards and Achievements

► **Shristi Upadhaya** of UG-III, Dept. of Comparative Literature won **two Bronze Medal** in 50mt & 100mt butterfly event (swimming) in the "Thailand Age Group International Swimming Championship 2023" held from 5-11 April, 2023 organized by Thailand Swimming Association at the Aquatic Center, Assumption University Suvamabhumi Campus in Bangkok.

She also represented india in the "FISU World University Games 2021(23)" held at Chengdu, China in the month of August, 2023.

Shristi Upadhyay brought **5 Medals** in individual category with **2 new KIUG records** (100 mt & 200 mt Butterfly) & won **2 Medals** in team category in **Khelo India University Games (KIUG) 2022(23)** held from 23rd May to 3rd June, 2023 hosted at GB Nagar, SVSP Sports Complex Swimming Pool in UP. She became the most successful swimmer first time ever in JU who collected a **total 7 Medals** (3 Gold, 2 Silver & 2 Bronze).

Shristi Upadhyay received **2 bronze medals** in the **National Games Goa** in the month of October, 2023.

► **Ojoshwita Mukherjee** of Comparative Literature department is an active member of the Bharat Scouts and Guides Movement, earning recognition by passing the state-level examination in 2018, receiving an award from the governor of West Bengal.

She **passed the President Guide Certificate examination** and going to receive the **award from the President of India** in Delhi in October 2023.

Ojoshwita Mukherjee also served as an NCC cadet for the past 3 years, and passed both the 'B' and 'C' Certificate examinations with 'A' (Alpha) grade in both; received my 'C' Certificate in the month of April 2023 from the, 31 Bengal Battalion Kol B NCC, West Bengal and Sikkim Directorate unit.



**In Frame: Shristi Upadhaya with her medal**



**In Frame: Ojoshwita Mukherjee**

► **Amidha Priya**, B. Arch. 2022, has published a paper titled "The Lesser-Known Heritage of Navratan-garh: An Archaeo-Historical Research on its Cultural Landscape" in the proceedings of the International Students Conference on Research in Architecture - 4th Edition, organized by D Y Patil School of Architecture, Lohegaon, Pune, published by Allied Publishers, ISBN: 978-93-90951-55-0, 2023.

► **Subhjit Dutta** (Dept. of Physics) was received Outstanding Paper Award in 5th Regional Science and Technology Congress, 2022-23, Government of WB.

► **Dhananjay Mondal, Jhilik Roy, Saheli Ghosh**, (Dept. of Physics) were achieved 2nd place in "Anveshan-2023" under Basic Science in East Zone, UGC-AIU.

► **Manisha Kundu, Tanmoy Chakraborty, Aliva Saha** (Dept. of Physics) were achieved 3rd place in "Anveshan-2023" under Engineering and Technology in National, UGC-AIU.

► **Anubhab Biswas**, (Dept. of Physics) was received 1st Prize in Best Paper Award Contest in Mr. Gupta Memorial Seminar on Nonlinear and Complex phenomena.

► **Doyel Rakshit** (Dept. of Physics) was awarded Best Poster Award in 4th international conference on Condensed Matter and Applied Physics (ICC 2023).

► **Sadiq Siraj Ebrahim and Sparsh Gupta** (Dept. of Electronics and Tele-Communication Engineering) won the 2nd runners up position in WIE Hackathon organized by WIE IEEE Kolkata Section.

► **Arya Pandit, Shirshendu Mandal and Saptik Maiti** (Dept. of Electronics and Tele-Communication Engineering) has won the coding hackathon in COMSYS 2023, NIT Mandi.



► **Rikta Pal** (Dept. of Electronics and Tele-Communication Engineering) secured first position in the Photography competition in Sanskriti 2023.

► **Md. ManarulSk** (Dept. of Electronics and Tele-Communication Engineering) successfully obtained two Copyright for developing IURWDD&DWS Dataset on Indian waste.

► **Shreyosee Sen** (Doctoral student of the Dept. of Sociology) has received IAWS (Indian Association for Women's Studies) President's Award for the best paper at the National Conference of Indian Association of Women's Studies held during 7th -10th September, 2023 at Women's Government College, Thiruvananthapuram, Kerala.

► **Dattatreya Ghosh** (PhD scholar of the Dept. of Film Studies) has received Charles Wallace India Trust short term research grant for archival research in the UK from 12th December, 2023 to 5th January, 2024.

► **Samragnee Bandyopadhyay** (PhD scholar of Women's Studies) received the Shakti Chattopadhyay Smarok Shamman Award by Bangla Academy (2023) for her contribution to the field of 'Bangla kabyosahitye obodan'. Also, Samragnee Bandyopadhyay was appointed as one of the members of the editorial board of "Shiksha Darpan" by the School Education Department, Government of West Bengal from 14th August, 2023.

► **Swarup Ghosh, Rati Roy Banik, Ritu Sarkar** (Dept. of Physics) were received Best Oral Presentation and Best Poster Presentation Award in 5th international conference on "Physics for Sustainable Development and Technology"- 2023.



► **Arkaprava Banerjee**, (SRF, Dept. of Pharmaceutical Technology) (LSRB-DRDO) has received an International Travel Award from the American Society for Cellular and Computational Toxicology (ASCCT), USA for presenting his paper (Oral) on "Machine Learning-based q-RASAR approach for quantitative risk assessment of HERG channel blockers" at the 20th International Workshop on QSAR in Environmental and Health Sciences held in Denmark during 5th - 9th June, 2023.

► **Mr. Amit Bhattacharya's** (Doctoral researcher, Dept. of Architecture) research paper titled "Historic landscape reinterpretation as a driver for cultural tourism" was chosen as the Best paper of the 4th Congress on Architecture and Cultural Heritage in Tourism, held on 12th -13th October 2023 at Karabük University, Safranbolu Campus, Turkey.



► **Subharshi Roy** (Dept. of Electronics and Tele-Communication Engineering), has won first prize (winner position) in Best Demo Award at STMicroelectronics's Innovation Fair, TechWeek 2023, Greater Noida, on 21st March, 2023 and secured internship opportunity at STMicroelectronics.

► **B. Prabuddha Ghosh** (Senior Research Fellow of JUCL) received Shyamal Gangopadhyay Short Story Award 2023 for writing a short story entitled Ashu Keno Goyenda Hote Parchhe na. The story was published in a Webzine in October 2022. The Anonym Council of Global Art and Literature organised an event on 25th March, 2023 at Rotary Sadan, Kolkata to felicitate the award winners.



► **Krishnendu Pal** (Senior Research Fellow of the Dept. of Comparative Literature) was awarded the Charles Wallace India Trust Research Grant, 2023-2024.

► **Smt. Dipshikha Tamili and Smt. Anamika Das** (Ph.D. research scholars, Dept. of Food Technology and Bio-chemical Engineering) were awarded the first prize in an oral presentation on "From waste to use: Valorization of tuberose flower waste through development of therapeutic products using supercritical carbon dioxide extraction and microencapsulation technologies" in the International Conference on Chemical Engineering Innovations and Sustainability (ICEIS-2023), organized by Chemical Engineering Department, JU on 26th -27th February, 2023.



► **Smt. Mariah Sadaf** (M. Tech student) and **Smt. Anamika Das** and **Smt. Debalina Kundu** (Ph.D. research scholars) of Dept. of Food Technology and Bio-chemical Engineering were awarded the Second Prize on the model-cum-poster on "Formulation and physicochemical characterization of antibacterial black garlic (*Allium sativum*) extract-based nanogel with in vivo wound healing property" at the Innovation Fair (PRAGYAJU 1.0), organized by Intellectual Property Right Cell in association with IIC, JU on 5th August, 2023.



► **Soumyajit Roy, Sourav Debnath, Akshay Kumar Pramanick, Prasanta Kumar Datta** were recognized best paper award of the International Conference on Engineering Design and Computing (ICEDC) for the paper of "Investigation of Dhokra Casting in Light of Modern Engineering Technique" on 28-29 January, 2023 at Swami Vivekananda University.



► **Ananya, Anirban and Ankita** (MPhil students of School of Oceanographic Studies) are winner in all three categories of still image, slogan writing and logo design at the "Youth Campus for Climate Action" initiated as a collaboration between UNICEF, EnGIO & Press Club on 5th June, 2023.



## STUDENT SUCCESS STORY

### Victory of UG Engineering Students at NSSC' 23 of IIT Kharagpur

Teams of **Mechatronics Club** in **Jadavpur University**, secured the first positions in two of the events of Space-Technology Fest organized by Space Technology Students' Society (spAts), IIT Kharagpur at National Students' Space Challenge 2023 (NSSC 23), sponsored by ISRO from 6th to 8th October, 2023.

- **Team Phoenix**, consisting of sayan kumar shah and Saptarshi Maity and Diptanshu Chakrabarty, won the Maze Runner event, by building efficiently navigating a micro-mouse bot with three ultrasonic sensors, a shielded Arduino Uno micro-controller with, a DRV8833 motor driver, a Vero-board chassis, two 300 RPM single-shaft BO motor, a 9V battery and an 18650 LiPo battery

- **Team Cosmic Crusaders**, consisting of Diptangshu Sengupta along with Animesh Majumder and Adrija Mukherjee won the Asteroid Venture event. In a Paper Presentation, the group has elaborated a concept realizable within 20 years through skilful and collaborative engineering on asteroid mining and transportation from outer space for ensuring resource security in the face of its exhaustion in Earth.

The encouragement and support received from Institution's Innovation Council for supporting the members throughout the journey.



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UG2



# SPORTS ACHIEVEMENTS

► **Divyani Mondal** of UG-1, English who represented JU Women Karate Team clinched a **\*Silver Medal\*** in the event of Individual Kata Girls Category in the '**AIU All India Inter-University Karate (W) Championship 2022-2023**' held on 17-22 January, 2023 and organized by Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur (Chhattisgarh).



► **JU Women Chess Team** secured **\*3rd Position\*** in the '**AIU East Zone Inter-University Chess (W) Tournament 2022-2023**' held on 28-30 January, 2023 and organized by University of Science & Technology, Meghalaya.



► **Ananya Bothra** of 2nd Yr. B. Com (Hons.), JDBI who represented JU Women Chess Team won a **Silver Medal** as individual Board prize on



Board-3 in the '**AIU All India Inter Zone Inter-University Chess (W) Tournament 2022-2023**' held from 22-24 February, 2023 organized by Manipal Academy of Higher Education (MAHE), Manipal, Karnataka.

► **Malati Halder** of UG-2, IR who represented JU Women Kick-Boxing Team earned a **Silver Medal** in the event of ring sports low kick (W) under 48 Kg. category in the '**AIU All India Inter-University Kick-Boxing (W) Tournament 2022-2023**' held on 20-22 March, 2023 and organized by Veer Bahadur Singh Purvanchal University, Jaunpur (UP).



► **JU Women Grappling Team** bagged two **Bronze Medals** in the '**AIU All India Inter-University Grappling (W) Tournament 2022-2023**' held on 14-18 April, 2023 and organized by Madhyanchal Professional University, Rabbad, Bhopal, Madhya Pradesh.



► **JU Women American Football team** grabbed the **"Runners Up Trophy"** in Flag version in the AIU All India Inter University American Football Women Championship 2022-23 held on

19-20 May, 2023 and organized by Bengaluru North University, K.R.Puram, Bengaluru.



► **Ujjwal Kumar Singh** of MPed-1 has won **Bronze Medal** in Sepak takraw/ double event in the **37th National Games 2023** held at Fatorda indoor stadium Margaon, Goa from 29th Oct. to 3rd November, 2023.



► **JU Men Tennis Team** secured **2nd Position** and **JU Women Tennis Team** got **3rd Position** in the **East Zone Inter University Tennis (M&W) Championship 2023-24** organized by Pt. Ravisankar Shukla University, Raipur (CG) held from 22-24 Nov. 2023.





# NATIONAL SERVICE SCHEME (NSS)

## Major Achievements

► NSS Volunteer from Jadavpur University viz. Mr. Aniket Toppo (Dept. of History) was selected for **Republic Day Parade Camp** at Kartavya Path, New Delhi from 1st to 31st January, 2023.



► NSS, Jadavpur University organized a **7-day special camp** at Mallickpur, Baruipur, South 24 Parganas from 25th to 31st March, 2023 under the supervision of Dr. Lalit Lalitav Mohakud (Unit No-12). Activities taken up were Cleaning and Beautification at adopted village, Tree plantation, Cancer Awareness, Women Health Awareness, Malaria, Dengue and Adenoviruses awareness for the Local people, Mask and sanitizer distribution, Mental Health and Mindfulness Practice for school students of the village, and training programme on Self Defense and Disaster Management for Community Members and school students.



► NSS Volunteers from Jadavpur University viz. Mr. Prasanta Mallick (Dept. of Education) and Miss Srijita Mitra (Dept. of International Relations) participated in the National Integration camp organized at University of Burdwan, Burdwan, from 18th to 24th February, 2023.



► NSS Volunteers from Jadavpur University viz. Mr. Asraful Mallick (Dept. of Bengali) and Miss Aparna Purkait (Dept. of International Relations) participated in the **National Integration camp** organized at Sri Y. N. College (Autonomous), Narsapur, Andhra Pradesh from 3rd to 9th March, 2023.



► NSS Volunteers from Jadavpur University viz. Mr. Koushik Dey (Dept. of Education), Mr. Sourav Malik (Dept. of

Education), Miss Sohini Naskar (Dept. of Philosophy) and Miss Riya Sarkar (Dept. of Education) participated in the **National Integration camp** organized at Guru Ghasidas Central University, Bilaspur, Chattrishgarh from 18th to 24th March, 2023.



► More than 250 units of blood were donated in two **blood donation camps** held on 6th January, 2023 and 5th July, 2023 at Saltlake Campus, JU and JU Main Campus respectively.



► NSS Volunteers from Jadavpur University viz. Mr. Uday Karmakar (Dept. of Lib. Science), Prasanta Mallick (Dept. of Education), Sourav Malik (Dept. of Education), Sreejit Sengupta (Dept. of International Relations), Dibakar Roy (Dept. of Education), Sumana Das (Dept. of Economics), Aparna Pur-



A group of young women, likely athletes, are standing in a line outdoors. They are wearing red polo shirts with white collars and white caps. The woman in the foreground has a white bib with the number 132. Her shirt has "GOA" and "GOVERNMENT" printed on it. The background shows a grassy field and trees.

A photograph of three NCC cadets (two women and one man) holding a large blue banner. The banner features the NSS logo on the left and right, and the following text in the center: **NATIONAL SERVICE SCHEME (NSS)**, **JADAVPUR UNIVERSITY**, **KOLKATA - 32**, **(MINISTRY OF YOUTH AFFAIRS & SPORTS, GOVT. OF INDIA)**, **MOTTO OF NSS**, and **NOT ME BUT YOU** in large, bold, yellow letters. At the bottom of the banner, it reads: **NCC STUDENT VOLUNTEER CENTER, JADAVPUR UNIVERSITY**, **CL-1A/C-1033, JADAVPUR**, **PHONE: (033) 7457 2302, E-MAIL: nccnsv1999@gmail.com**.

A wide-angle photograph of a large audience seated in a convention hall, facing a stage. The audience is seated in rows of white chairs with blue ribbons. The stage features a large screen displaying a presentation, and a speaker is visible on the left side of the stage. The hall has a high ceiling with exposed steel beams and lighting fixtures.



► NSS-JU in collaboration with Alumni Association organized **awareness programme under Swachh Bharat Abhiyan** every Wednesday over the year at Jadavpur University Main Campus. More than 1741 students participated in this programme.



► NSS-JU organized series of awareness programme on **"Dengue and Malaria"** on 8th August, 2023, 11th September, 2023, 13th to 15th September, 2023, 25th September, 2023 and 4th October, 2023 at various locations of Kolkata and Howrah. A total 653 students participated in this programme and 2452 people were benefited.



► Jadavpur University NSS Unit observed **9th International Day of Yoga** at Department of Physical Education, JU on 21st June, 2023 in the morning and a mass rally in the afternoon within the JU Main campus, where more than 256 volunteers participated.



► Jadavpur University in collaboration with NSS Unit organized a **"Swachhata Hi Sewa Programme (SHS)"** on 1st October, 2023. NSS, JU also observed **'Azadi Ka Amrit Mahotsav'** to commemorate 75 years of India's Independence Day. **"Meri Maati Mera Desh"** programme was observed as a culminating event of 'Azadi Ka Amrit Mahotsav'.



► NSS-JU organized following programmes viz.

► **International mother language day** on 21st February, 2023.

► **Cancer awareness programme** on 2nd March, 2023.

► **Special lecture programme** (As a part of observance of National Youth Day) on 15th March, 2023.

► **Rally and awareness programme** on Water Day on 22nd March, 2023.

► **Skill development programme** on 31st March, 2023.

► **Disaster response and Self Defense Programme** on 24th April, 2023, Workshop on "Prejudice/Superstition: is there any causal relationship?" on 4th May, 2023.

► **Audio Visual Talk show** on Antarctica Expedition on 12th May, 2023

► Celebration of **9th International Day of Yoga** on 21st June, 2023.

► Seminar on **International Day against Drug Abuse & Illicit Trafficking** on 26th June, 2023.

► Observance of **Banamahotsab week** on 16th July, 2023, 19th - 20th July, 2023

► Celebration of **"Angdaan Mahotsav"** campaign on 3rd August, 2023.

► **Independence day Celebration** pro-

gramme on 15th August, 2023.

► Celebration of **"Amrit Kalash Jatra"** under the aegis "Meri Maati Mera Desh" on 17th October, 2023. A total 1553 students participated in all these programmes.





# JU CLUB ACTIVITIES

## MOUNTAINEERING AND HIKING CLUB

► **U-TURN CLIMB** held on 28th January, 2023. First position secured by Rohan Biswas of CSE, Md Hasnain & Ahad Mallick of FTBE stood second. Jiah Ul Haque & Aman Chowdhury of Power Engineering stood third position.

► **MATHABURU NATURAL PRACTICE** was on 25th – 26th November, 2023. Team members of this practice after reaching the spot, climbed breakfast rock, Mridul Rock etc. On the second day, after climbing practice they reached Barabhum station, and then came back to Howrah.

► **46th ROCK CLIMBING COURSE** was organised on 21st – 24th January, 2023 at Mathaburu Hills, Purulia. Advanced team members reached Mathaburu Hills on 20th January to set tents and other necessities. Then members were taught about equipments and rucksack packing. Apart from fitness training they were taught first aid and rappelling at the time climbing. After climbing session there was a demonstration of river crossing and then faced a written test.



► **EXPEDITION TO MT. REO PARGIL-II** held on June, 2023: Team members for this expedition were Gautam Dutta, Tashi Sangdup, Anaranya Das, Aryan Singh, Ms. Urwa Javed, Dr. Abiral Tamang. It was a total 18 days expedition targeting Reo Pargil II (ht. 6792m).



► **SINGALILA TREK** held on March, 2023. Day 0, team boarded the train from Sealdah and reached NJP then reached Uttarey. Day 1, the trek started and they reached Tenzing Hillary Memorial Park then Acchaley Dara. Day 2, they reached Hangeypani then Thulodhap. Day 3, after few hours of trek along the India Nepal border team reached Singalila Top (12072ft). On the same day they reached Phalut top (highest peak of West Bengal). Day 4, team reached Gorkhey Vally. Day 5, they reached NJP and boarded train next morning team reached Kolkata.





# MUSIC CLUB (DANCE WING)

Jadavpur University has a huge potential in cultivating art and culture centered communities and organizations within the boundaries of the campus itself, and as a result, in 2016, the Jadavpur University Music Club (Dance Wing) was formed in order to take East India's University-level dance as an art-form and transform it into a global movement.



## TAAL 2022-23

The Dance Wing of Jadavpur University Music Club successfully hosted the freshers' dance competition "TAAL" on 20th January, 2023. The tradition of organizing TAAL in collaboration with Dial M (freshers' singing and music competition) was conducted at Vivekananda Hall, Jadavpur University. It was guided by Senior Director of Youth Welfare, Dr. Bappa Mullick and the coordinating Professor for this event, Prof. Manojit Mondal.

## WINNERS OF IEMpact 2023

Jadavpur University Music Club (Dance wing) had participated and secured the first position in the Classical / Semi-classical (Duet) Dance Category in the Inter-college competition, IEMpact, conducted by Institute of Engineering and Management (IEM) on 21 January, 2023.

## WINNERS OF IBTIDA

Ibtida, an inter-college competition of JU was held on 22-24 February, 2023.



The eastern team of the JU Music Club (Dance Wing) was able to secure the first position in the Eastern Group Dance Category (Safarnama).

## POSITION HOLDERS AT FETSU SANSKRITI GHOONGROOZ DANCE COMPETITION

The members of the Jadavpur University Music Club (Dance Wing) secured the second position in the Eastern Dance competition of the Sanskriti by FETSU on 4th April, 2023 at Jadavpur University (Main Campus).

## POSITION HOLDERS AT EMBLAZE

Emblaze was an inter-college competition organized by The Heritage College on 5th May, 2023. The Jadavpur University Music Club (Dance Wing) secured the 3rd Position in the Eastern Group Dance Category.



## POSITION HOLDERS IN 7 LAKES FEST 2023

The 7 Lakes Fest, an inter-college event hosted by IIM Calcutta, witnessed the enthusiastic participation of Jadavpur University Music Club (Dance Wing) in the solo/duet dance competition, Verve, held on November 19th. The club was awarded the first and third positions.

## POSITION HOLDERS AT BHAWANIPUR DANCE COMPETITION

The Jadavpur University Music Club (Dance Wing) secured the runners-up position in Bhawanipur Dance Competition (BDC), an inter-college dance competition organized by The Bhawanipur Education Society College on the 28th of November, 2023.



tition (BDC), an inter-college dance competition organized by The Bhawanipur Education Society College on the 28th of November, 2023.

## WINNERS OF KALEIDOSCOPE 2023

Jadavpur University Music Club (Dance Wing) was able to secure the 1st position in both the Western Solo Dance and Cultural Group Dance categories of Kaleidoscope, an event organized by Lady Brabourne College on the 13th of December, 2023.

## POSITION HOLDER AT AURORA 2023

Didhiti Paul, a member of Jadavpur University Music Club (Dance Wing) secured the second position in the Eastern Solo category in the Aurora competition, organized by Loreto College on 19th of December, 2023.

## POSITION HOLDERS AT AALAP 2023

Aalap was organized by Bethune College on the 22nd of December, 2023. Jadavpur University Music Club (Dance Wing) participated in the Group Choreography category at this event (Tap-in-Ease) and was able to secure the 3rd position.





## DEBATING SOCIETY



The flagship event of JU Debating Society

► **“Voxpop Freshers 2023” event** of Jadavpur University Debating Society organized the Annual Freshers trilingual oxford debate on 6th January, 2023, in which more than one hundred freshers participated. The motion was “This house believes art is not created, but interpreted”. The debate saw intense argumentation among the participants.

► **JU Model United Nations, the flagship event** of Jadavpur University Debating Society, was held during 31st March to 2nd April, 2023. It saw participation of more than 400 delegates from all over the country. The committee's that were simulated in the conference included the United Nations General Assembly: Disarmament and International Security Committee, United Nations Commission on the Status of Women, United Nations High Commissioner for Refugees, World Trade Organization, Lok Sabha, Rio Summit of 1992 and International Press Corps with the flagship committee being

the United Nations Security Council: Counter Terrorism Committee.

► **VoxPop Nationals**, Jadavpur University Debating Society's annual national trilingual oxford style debate, saw its return nearly after a decade. The competition was held on the 12th and 13th of October, and saw participation of more than 180 debaters, out of which 10 reached the final.

► Jadavpur University Debating Society's very own **Model United Nations Conference**, held exclusively for the freshers, was organized on 23-24 November, 2023. The conference had a simulation of United Nations General Assembly: Disarmament and International Security Committee, United Nations Commission on the Status of Women, All India Political Parties Meet and International Press Corps.

► **JU1 debate** was organized in Jadavpur University on 8th November 2023 to select the representative for the Indian Association of Parliamentarians on Population and Development national debate. The event had 36+ participants from all the three faculties of the University. The topic of the debate was “India is reaping the benefits of its demographic dividend”.



Receiving the award of VOXPOP Nationals 2023

## PAINTING CLUB

JU Painting Club organized “PICTURESQUE '23” and also the members of the club participated in various of Inter College and Inter University Competitions throughout the year and brought laurels and prizes to the University. Students across various departments and schools of the university came together to exhibit their stories on canvas and paper.



## PHOTOGRAPHY CLUB

### Basic Training session 2023 (BTS):

The BTS event was held from 28th September to 14th October, 2023 under the aegis of the Jadavpur University Photography Club. Theory classes were held on the basics of camera operations, compositions and post processing. The practical classes were held at Victoria memorial, Gourdaha Village and at the campus itself. Nearly 210 participants, across all the faculties, registered for the event.







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*\*This issue contains information between 1st January to 30th November 2023 and as per data received*

Published by Dr. Snehamanju Basu, Registrar, Jadavpur University, Kolkata