Criterion 2.3.1

Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experience.

The Institution firmly believes in student centric learning and always encourage its learners to take an active role in the learning process. The experiential and participative learning along with problem solving methodologies includes educational excursions, lab work, case studies, webinars, seminars, workshops conducted by various departments.

Educational Excursions

Industry Visit Report

In the field of Management, several businesses and analysts use industry analysis as a tool to examine the market and comprehend the dynamics of a particular industry's competition. It aids in giving them a sense of what is going on in a given industry, including statistics on demand and supply, the level of competition within the industry, the industry's position in relation to other emerging industries, the industry's future prospects in light of technological advancements, its credit system, and the impact of outside factors. Hence majority of Graduate and Post-Graduate programmes in the Management and Administration department need industrial trips as an integral component of their academic curriculum. Such educational visits, which are a component of interactive learning, give students significant exposure to real working situations and a practical view of a theoretical topic pertinent to their field. Additionally, by providing students with first-hand exposure to different business activities and processes carried out at the workplace, industrial visits bridge the growing gap between theoretical learning and practical exposure.

ULUBERIA WORKS



The Department of Management of The Bhawanipur Education Society College, with these views in mind set forward to organize an Industrial Visit to none other than Patton International Limited, Uluberia on the bright day of **16th March, 2023. PATTON** is a renowned Conduit Fittings and EMT Fittings manufacturer and exporter with government-recognized export house status and an ISO 9001:2015 certification. With five cutting-edge, state-of-the-art manufacturing facilities spread across 700,000 square feet in West Bengal, India, they are also a market leader in the production of plastic tanks, crates, bins, and PVC pipes.

The Department Head for the Bachelor of Business Administration, Dr. Tridib Sengupta, organised the industrial visit with assistance from Professor Chiranjib Mitra, a faculty member of the same department. At 9:30 am, the pre-arranged bus departed campus with approximately 40 students and two faculty members. On the way, food packages for breakfast were provided. The bus arrived at Patton Industry after travelling for nearly one hour and thirty minutes. The Patton executive team then greeted us and divided the students into two groups and escorted them to separate conference rooms for a brief introduction period.



The Patton International limited, this industry was previously located in Falta but recently they have opened a new industry in Ulubeia. There products generally gets exported internationally i.e., Europe, U.S., Canada, North and South America etc.

The Managing Director and the expert team of the industry directed us through the entire visit and started explaining to the students how there products i.e., EMT Plant and Zinc product are being made. Firstly aluminium products goes through the conversion process, it is being melted into pipes and then gets into the process of cutting, shaping, rolling, compressing and resizing, stamping, piercing and drawing. After this it goes through the alkaline base cleaner to remove the oil and rust form the product as follows;

- 1. Soak solution change.
- 2. Bannel solution change.
- 3. Rack zinc fill up and tank cleaning.
- 4. All water rinse.
- 5. Acid pickling clean.
- 6. All bannel for zinc fill up.

Then the products go through the die-casting, testing process and then to the assembly for packaging and being dispatched through automatic as well as by manually. Containers are dispatched to Khidirpur Dock/ Haldia.





The Mission of Patton is to provide environmentally friendly manufacturing safe and sustainable precision products, reducing carbon footprint by embracing green engineering. They Vision to expand their global footprint and become the global market leaders and to make the difference in their industry and society.

After nearly two hours of thorough touring the industry, students returned to the conference room where they were served a vegetarian buffet for lunch. Following lunch, the Department Head, faculty members and all of the students gathered in front of the industry for a group photo. It was a long and productive day at the Patton Industry, this industrial visit was beneficial for the students as it brought clarity to important management concepts, as students practical experience first hand how these concepts are put into action. It bridges the gap between classroom theoretical training and practical learning in a real-life environment. It brings out an opportunity to identify the student's perspective area of work. It enhances their interpersonal skill and get to see the best practices opted by companies for similar work.



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Student attendance list

Educational Trip to Science City, Kolkata

Fieldwork Report (from student): The Department of Mathematics at The Bhawanipur Education Society College organized an educational trip to Science City in Kolkata on April 29, 2023. The objective was to provide students from semester 2, 4, and 6 with a unique learning experience outside the classroom. The trip was led by faculty members including Dr. Nirabhra Basu, Mr. Sugata Adhya, Dr. Kaushik Chattopadhyay, Ms. Soumyi Chowdhury, and Ms. Anwesha Roy. The journey

began at 10:30 am as the students boarded a bus from the college premises. During the ride, they were treated to delicious food, adding to the enjoyment of the trip. Upon arriving at Science City, the students first visited the science exploration hall. This interactive space showcased various scientific concepts in an engaging and entertaining manner, capturing the students' interest right from the start. After the exploration hall, the students proceeded to the digital panorama show. This immersive experience presented a panoramic film highlighting significant events in human evolution, providing them with a deeper understanding of this subject. Following this, the students entered the dark ride, where they witnessed the evolution of life through automated rides and robotic animals, making the learning experience more vivid and tangible. The students then took a break for a delightful meal, recharging their energy for the next set of activities. They were then treated to a captivating 3D show that explained the phenomenon of Aurora Borealis and Aurora Australis, while also offering insights into the lives of Eskimos. The journey through space continued with a 2D projection show on the planets of our solar system, presenting intriguing facts about each planet and its satellites. The students eagerly moved on to the motion simulation ride, which featured a 3D trip along the Great Wall of China, combining education with entertainment through visually engaging content. Next, they attended a 3D show showcasing the diverse marine life found underwater, expanding their knowledge of maritime ecosystems. The trip concluded with a cable car ride that offered a scenic aerial view of Science City, leaving the students with lasting memories of their visit. Overall, the educational trip to Science City was a resounding success, leaving a lasting impact on the participating students. Through interactive exhibits, immersive shows, and engaging rides, the trip provided a unique opportunity for students to learn scientific concepts in an enjoyable and interactive manner. Such experiences are invaluable in supplementing classroom learning, allowing students to gain practical exposure and hands-on experience. The Department of Mathematics is to be commended for organizing such a memorable and enriching trip. By facilitating this educational excursion, they have demonstrated their commitment to providing holistic learning experiences to their students. Such initiatives foster a deeper understanding and appreciation of scientific disciplines while encouraging students to explore and pursue further studies or careers in related fields.



Objective of the fieldwork:

- To enhance students' understanding and appreciation of various scientific concepts.
- To provide practical exposure and hands-on experience related to scientific phenomena.
- To encourage interdisciplinary learning by exploring the intersection of mathematics and other scientific disciplines.
- To promote scientific inquiry and critical thinking skills among students.

- To foster teamwork and collaboration through group activities and experiments.
- To inspire students to pursue further studies or careers in scientific fields.

Outcome of the fieldwork:

- Improved understanding of mathematical concepts through their application in scientific contexts.
- Increased interest and enthusiasm for science and mathematics among students.
- Enhanced practical skills through hands-on experiments and interactive exhibits at Science City.
- Development of critical thinking and problem-solving abilities by exploring realworld scientific challenges.
- Exposure to the latest advancements in scientific research and technology.
- Strengthened bonds and teamwork among students through collaborative activities during the trip.
- Exploration of potential career opportunities in scientific fields.
- Increased awareness of the importance of scientific literacy in society.

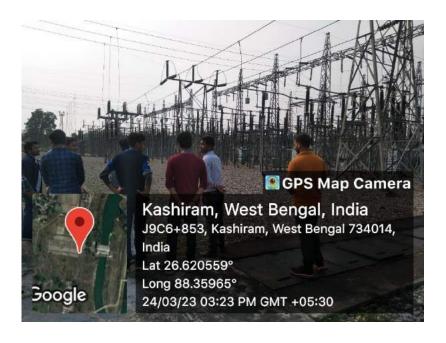


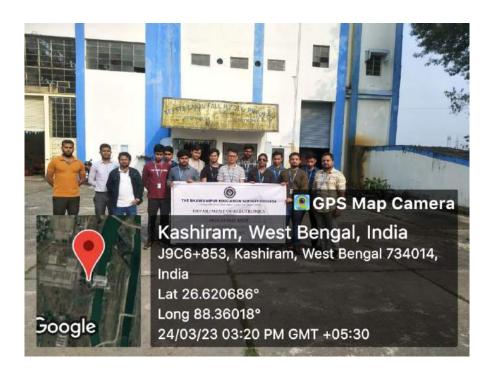
Educational trip to Teesta Canal Hydel Project

- 1. Name of the Activity: Visit to Teesta Canal Fall Hydel Project.
- 2. Type of Activity: Industrial Visit.
- 3. **Date**: 24th March, 2023.
- 4. **Time**: 11:00 am 3:00 pm.
- 5. Details of Resource persons: Mr. Sudhir Kumar Ambashta, Project manager of TCFHP
- 6. **No. of Participants**: 13 (10 students and 3 teaching faculties).
- 7. **Objective of the event**: The objective behind such a visit was to match theoretical knowledge of the students with the real working environment.
- 8. **Brief description of the event**: After reaching the place the event started around 11 AM. The incharge supervisor of the hydel project gave a detailed tour of the Teesta Canal Fall Hydel Project, which is erected in the Teesta Canal of West Bengal in India. The total installed capacity of the power plant is 67.5 MW. The total number of turbines in the power house is nine and capacity

- per turbine is 7.5 MW. The unit size of the plant is 67.5 MW having nine units of 7.5 MW each. There are nine units in the plant and all are commissioned. This power project is owned by the West Bengal State Government and the operator of the plant is West Bengal State Electricity Distribution Company Limited (WBSEDCL).
- 9. **Outcome of the event**: Students of the department got exposed to the real application of industry machinery. They got the knowledge and picture of working departments in the real configuration which is difficult to imagine in theory classes. Students understood the connection between semiconductor devices and circuits, power electronics, different types of instruments, total control systems of the aforementioned project and its working procedure.







REPORT ON EXCURSION Sikkim and North Bengal

Date: April 16, 2023 - April 23, 2023

Department: Department of Commerce

The Bhawanipur Education Society College, Dept. of Commerce (Morning) organized an Excursion to Sikkim and North Bengal Tour from April 16, 2023 to April 23, 2023, with 45 students, accompanied by 3 faculties, Mr Vivek Patwari, Mr Chandan Jha & Ms Trupti Upadhyay.

We are thankful to our Dean Prof Dilip Shah and our Coordinator of Morning Dept. Prof. Minakshi Chaturvedi for arranging such a visit. This was a great experience for the students and wonderful learning process.

It was a thoughtfully curated expedition to Sikkim and North Bengal, which transpired over a span of 5N/6D. Central to the trip's allure was a perfect amalgamation of adventure activities, industrial visits, team-building games, and management games, all seamlessly intertwined to create a comprehensive experience. In addition, it was a delight for the students to learn that they would be sojourning at homestays that would acquaint them with an authentic taste of the local culture and cuisine.

On the first day of the expedition, we embarked on our pilgrimage to Shittong, a picturesque Lepcha hamlet ensconced amidst the alpine pine forest near Darjeeling. After a protracted and arduous journey, we finally arrived in Siliguri the next day, where we were accorded a sumptuous repast. Subsequently, we proceeded towards Shittong, where we spent the entire evening ambling about the environs at a leisurely pace.

The following day was brimming with visits to the Orange Orchard, Sittong church, Old Monastery, Mungpoo, Ahaldara viewpoint, and Jogighat, before transferring to Mim Tea Estate and settling into our homestay. The breathtaking 360-degree panorama of the tea garden was an experience in itself, and we spent the evening promenading around the estate, relishing the sights and sounds.

Day three was replete with an industrial visit to the Mim Tea Estate Factory & Garden, where we gleaned insights into the tea-making process, from plucking the leaves to processing and packaging. The visit was edifying and provided us with a glimpse into the toil and dedication that goes into crafting the perfect cup of tea. After the industrial visit, we checked out of Mim Tea Estate and transferred to Rongpokhola, where we immersed ourselves in various activities such as trekking, bird watching, and games.

The fourth day was exclusively dedicated to adventure activities such as trekking, bird watching, and zip-lining at Rongpo Khola, an exhilarating experience that tested our mettle and fostered camaraderie among our fellow voyagers.

On day five, we embarked on a sojourn to Zuluk via Rongli Market, Nimachen & Padamchen, and relished a breathtaking sunrise expedition to the Zig Zag road. We also visited Nathula Pass, a well-known tourist attraction, before transferring back to Rongpokhola for an overnight stay.

On the final day, we checked out of Rongpokhola and transferred to Silliguri to return to Kolkata.

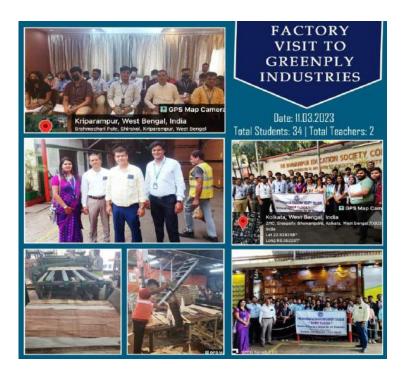
In essence, this expedition was a revelatory experience that provided the students with a unique opportunity to explore some of the most idiosyncratic locales in Sikkim and North Bengal. The industrial visit, adventure activities, and homestay accommodations provided them with an intimate understanding of the local culture, people, and way of life, a once-in-a-lifetime encounter. The tour was executed with meticulous attention to detail, emphasizing teambuilding and management games that fostered cohesion among our fellow travellers, engendering memories that will linger indelibly in our hearts and minds. I am grateful for this experience and would ardently recommend this tour to anyone seeking an adventure of a lifetime.

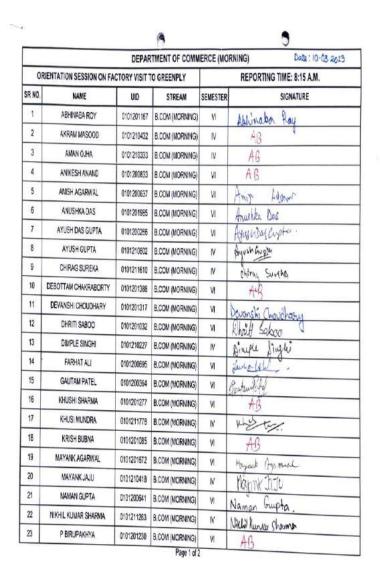
INDUSTRY VISIT TO GREENPLY

Industry visit helps a student to provide opportunities to involve in active learning experiences both inside and outside the classroom as there always remains a gap between classroom teaching and corporate practice. Department of Commerce (Morning) has taken the initiative to reduce such gap by arranging industrial visits for the students.

The students of Semester VI of Morning session were given the opportunity to visit Greenply on 11th March, 2023 to bridge the gap between corporate world and management theory which they learnt during the course. Around 34 students from the Morning section along with 2 faculty members from the department went for the industrial trip in Kriparampur, Joka. There, the students got the knowhow about the working of the factory. The ply industry has different types of products like Veneers, Fiber boards, Hardboards, Impreg Timbers, Compreg Timbers, Block boards and Lamin boards. Starting from the log selection, peeling to veener, drying till hot pressing, pre-pressing, sanding and edge finish, the tour gave the students an interesting first-hand experience of the industrial process and helps develop the technical knowledge in a realistic and practical way. Overall, the visit was an enlightening experience and they were very much impressed by the scale of the operation and the technology used in the manufacturing process. The trip gave them a better understanding of the plywood manufacturing process and the effort that goes into producing high quality plywood products. There they got to know about the manufacturing process of ply, their production process,

labelling, the process of transportation and sales. The interaction with the various departments provided a holistic view of the company. The visit was quite interactive and informative as they got to know about the manufacturing and marketing activities went on in the plant. It was really an enthralling experience for the students as it will help them to get a foothold in the corporate world. A token of appreciation in the form of Memento was presented to the Factory Manager of Greenply, Mr. Partha Nath.





Departmental Field Trip to the Jorasanko Thakur Bari and the Indian Museum

- Name of the activity: The Department of History, The Bhawanipur Education Society had organised a field trip to two museums, namely the Jorasanko Thakur Bari and the Indian Museum.
- 2. Type of activity: It was a field trip arranged to historical museums by the department.
- 3. Date and duration: It was arranged on November 19, 2022. The trip began from 10:15 am to 6 pm in the evening.
- 4. Detail of the resource person: All the faculty members of the department had accompanied the students. It included Prof. Debjani Ganguly, Prof. Piu Chatterjee, Prof. Anindya Sen, Paramita Chakraborty, Nidhi Shukla, Kahini Ghosh and Avigyan Banerjee.
- 5. Number of participants: Thirty students participated in the trip along with 7 faculty members.

- 6. Objective of the trip: The trip was designed to educate the students about the rich history archived in Indian museum so they learn to understand the importance of objects and its histories. The trip to Thakur Bari was arranged to illustrate to the students the history of the most prominent family of mid eighteenth to mid twentieth century Tagores. It was also meant to shine a light on their contribution to Indian society.
- 7. Brief description of the event: The concerned field trip started at 10:15am from the college premises. Galleries house the memorabilia and the works of Dwarakanath Tagore, Debendranath Tagore, Rabindranath Tagore, Gaganendranath Tagore, Abanindranath Tagore, the *andar mahal* of the Thakur Bari, of which the highlights were the bedrooms of Rabindranath Tagore, Mrinalini Devi, the *Atur Ghar*, the kitchen of Mrinalini Devi, the dining room used by the Nobel Laureate himself. The Indian Museum consisted of the Bharhut Gallery, the Gandhara, and Archaeological Galleries. The Paintings Gallery upheld yet another form of artform in front of the students, where they learnt about the different schools of painting like, Mughal Miniatures, Rajasthani, Deccani and Pahari paintings along with the aforementioned Bengal School. The Coin Gallery, with its permanent display of types coinage used in the subcontinent from ancient times up to the colonial era, especially intrigued the interests of our undergraduates into the field of numismatics and numismatic art. The other galleries of interest to the students were the Egypt Gallery, the Evolution Gallery, Fossils Gallery, Mammal Gallery, etc.
- 8. Outcome of the event: The students in this day long trip ended up fulfilling the requirements of their SEC course (which is a compulsory part of their syllabus). They were enriched after the tour and would like to take the opportunity to thank the college authorities for their cooperation and encouragement. In future we as a department hope to make learning more meaningful and interesting through similar endeavours.



At the Jorasanko Thakur Bari



Inside the Indian Museum

ACADEMIC EVENT

- 1. Name of the Activity: Field Trip to Alipore Museum
- 2. Type of Activity: Academic Activity
- 3. Date/ Duration of Activity (from-to): 1st December,2023
- 4. Time: 10:00 AM
- 5. Details of Resource persons (Name, Designation, Affiliation, Area of Specialisation, etc): Not Applicable
- 6. No. of Participants: 89
- 7. Objective of the event: This field trip is indispensable for the purpose of semester 3 tutorial, which is an essential component of Calcutta University Examinations. The trip was organised to enable the students to have a comprehensive understanding of different phases of the

independence movement, the role and contribution of the freedom fighters in the freedom movement.

8. Brief description of the event:

The Alipore Central Correctional Home is a national historic landmark located in the heart of Kolkata. This 116 year old building, along with the Presidency Jail, is on the Grade I list of heritage sites of Kolkata. Constructed in 1906, and spread over 15.2 acres, this colonial era institution abuts Tolly's Nullah and can be identified easily with its characteristic brick-red walls. Within the premises one can spot the Alipore Jail Press Building, the central watchtower, over a dozen buildings which served as prison cells and wards, and the Alipore Jail Hospital building. Notable freedom fighters who were incarcerated here include Jawaharlal Nehru, Subhash Chandra Bose, Chittaranjan Das, Dinesh Gupta, Dr Bidhan Chandra Roy to name a few. It served as a correctional home till 2019. From being a silent witness to the brutalities inflicted on the freedom fighters of the country, the Alipore Central Correctional Home is now transformed as a memorial and museum to honour the sacrifice of those who fought for the independence of India. The existing Alipore jail campus adopted a world-class Independence museum. The Independence Museum displays events of India's freedom struggle during the British period. The museum also has on its display, paintings, photographs, maps of India during the various periods of history, installations, and statues of the freedom fighters. Other than this, the museum also displays letters, documents and artifacts related to the freedom struggle.

The Department of Political Science organised a field trip on 1st December,2023 to Alipore Museum for the students of Semester III. A total of 89 students accompanied by 4 teachers visited the Alipore Museum. The students visited the museum and intensely observed the displayed items with great attention and interest.





9. Outcome of the event: The field trip was a success as the students had a detailed understanding of the different phases and events of the independence movement and the selfless sacrifice of the freedom fighters in their struggle for freedom.

Students encouraged to participate in webinars/ seminars -

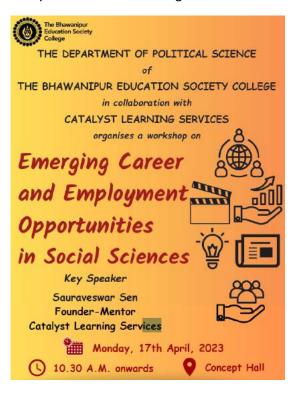
Report on the Inter-Departmental Quiz Conducted by History Department on 6th May, 2023

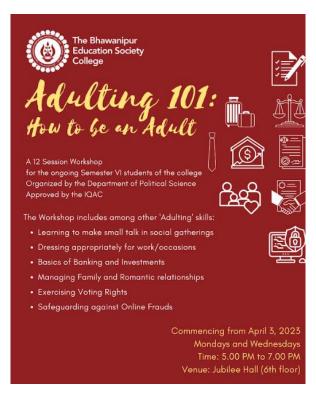
The Department of History conducted an interdepartmental quiz entitled 'Quiz Pro Quo' on 6th May, 2023 from 2:30 pm to 4:30 pm. The departments of Sociology, English and Political Science, History and Journalism and Mass Communication participated in the two-hour event which witnessed the students battle it out amongst themselves. Twenty-five students participated in the quiz and were divided into five groups – A, B, C, D and E.

Five rounds of questions were prepared with the students quizzed on various topics – from history and current affairs to literature and movies. A final rapid fire round found the students engaged in the most fascinating manner. Team A emerged as the ultimate winners with a very high score. To make the quiz participative, audience questions were also set with both students and teachers winning chocolates with every correct answer.

The quiz ended as a flourishing success and all students were awarded with certificates for participation and notepads and journals. The winners were awarded with special medals to commemorate their victory.

The Department would like to extend its very warm gratitude to Professor Arup Ratan Samajdar for graciously accepting to don the quizmaster's hat and Professor Sanmitra Dutta for all the technical help provided without which the event would not have been successful. The Department would also take the opportunity to convey its thanks to the college administration for their untiring support.







From Theory To Practice - A Seminar on Research Methodology.

Organizer: Department of Commerce (Morning), The Bhawanipur Education Society College.

Venue: Jubilee Hall, The Bhawanipur Education Society College.

Date: May 15th, 2023. Time: 10:30 am onwards

The Department of Commerce (Morning) at The Bhawanipur Education Society College organized a highly informative seminar titled "From Theory to Practice: A Seminar on Research Methodology for Projects and Assignments" on 15th May 2023. The event aimed to provide students with a comprehensive understanding of research design and data analysis, with a focus on practical

implementation. The seminar featured esteemed guest speakers, Dr. Tutun Mukherjee and Rahul Sarkar, who shared their expertise and experiences in the field.

The seminar commenced with Rahul Sarkar, a renowned academic, discussing the importance of research design. She emphasized the need for a well-structured conceptual framework and guided the participants in formulating research questions, objectives, and hypotheses. Rahul Sarkar insights helped the attendees understand the crucial foundation of a successful research project.

The seminar also covered the essential aspect of data analysis. Dr. Tutun Mukherjee presented various statistical tools and techniques for analyzing research data effectively. Participants learned about data cleaning, organization, and interpretation, as well as the selection of suitable statistical analyses based on the research objectives. Mukherjee's practical approach and real-world case studies enriched the learning experience and enabled attendees to apply these techniques in their own projects and assignments.

A question-and-answer session was conducted after the presentations, allowing participants to seek clarification and further insights from the guest speakers. Dr. Tutun Mukherjee and Rahul Sarkar actively engaged with the audience, addressing their queries and concerns. The session fostered interactive learning and provided a platform for participants to gain a deeper understanding of the seminar's topics.

The seminar "From Theory to Practice: A Seminar on Research Methodology for Projects and Assignments" held at The Bhawanipur Education Society College on 15th May 2023 was a resounding success. The Department of Commerce (Morning) must be commended for organizing such an enriching event. Dr. Tutun Mukherjee and Rahul Sarkar's presentations were invaluable in bridging the gap between theoretical knowledge and practical implementation of research methodology. Participants gained a comprehensive understanding of research design and data analysis, equipping them with essential skills for their future academic assignments and projects. The seminar emphasized the importance of a well-defined research framework, appropriate data collection methods, and effective data analysis techniques. It nurtured a culture of rigorous academic inquiry and research within the college. It is hoped that similar events will continue to be organized, enabling students to develop their research capabilities and fostering a deeper appreciation for the practical application of research methodology. The certificates were distributed by the mentors for the event, Dean Prof. Dilip Shah and Prof. Minakshi Chaturvedi. The speakers were also felicitated with mementos by Dean Prof. Dilip Shah. We are thankful to Dean Prof. Dilip Shah and Prof. Minakshi Chaturvedi.



"No Earth, No Birth": Living in Harmony with Nature

Organizer: Department of Commerce (Morning), The Bhawanipur Education Society College

Venue: Jubilee Hall, The Bhawanipur Education Society College

Date: May 24th, 2023 Time: 10:30 am onwards

The Department of Commerce (Morning) at The Bhawanipur Education Society College organized the event "No Earth, No Birth: Living in Harmony with Nature" on May 24th, 2023, at the Jubilee Hall. The event aimed to raise awareness about environmental issues and promote sustainable living. It consisted of a Poster Making and Slogan Writing Competition focused on topics such as Global Warming, Afforestation and Deforestation, Water Conservation, and Air Pollution.

The event was judged by Prof. Priti Shah, Teacher of Environmental Studies and Prof. Pritha Chanda, Department of Business Administration.

A total of 11 teams participated in the competition. Each team was provided 45 minutes to complete their poster and slogan.

The event commenced with Team 1's poster art on Afforestation and Deforestation. Their slogan, "Plant Today, Breathe Tomorrow," conveyed the importance of tree planting. Subsequently, other teams presented their posters and slogans on various topics:

- 2. Saving Water and its significance for future generations. Slogan "Minimum Wastage, Optimum Usage."
 - 3. Saving Water. Slogan "Waste Not, Want Not, Be a Water Hero, Conserve Today."
 - 4. Saving Water. Slogan "Water Our Birth and Decay?"
 - 5. Global Warming. Slogan "Stop Denying, The Earth is Dying."
 - 6. Global Warming. Slogan "If Earth Exists, We Exist."
 - 7. Global Warming. Slogan "Global Warming is burning the earth of today and tomorrow."
 - 8. Global Warming. Slogan "Do Your Part to Stop Global Warming."
- 9. Global Warming. Slogan "What's the Use of a Fine House if you haven't got a tolerable planet to put it on?"
 - 10. Water Consumption. Slogan "Time for Care before it scares."
 - 11. Air Pollution. Slogan "Pollution Kills Humans and Corruption kills Humanity."

Learning Sessions:

During the Water Conservation session, participants learned about the importance of individual efforts in conserving water and the cumulative impact of such actions.

Similarly, the Global Warming session highlighted techniques like recycling, reducing and reusing, and reducing the use of fossil fuels. It also covered the effects of global warming, including glacier melting, and the impact of globalization and consumerism on the planet.



A quiz event on Mathematics named *Mathsketeers* - _Fun with Maths_ was organised by the *B.com Morning deptartment* on 4th May 2023 .

It was a successful event with *120* Participants where students from *BSc*, *B.Com* (Morning, Afternoon and Evening), *BBA* and *M.Com* departments of the college participated , who were divided into 30 teams comprising of 4 members each.

The program was organised by Dr. Sreyasi Ghosh and Prof. Chandan Jha.

The scorekeepers were Prof. Swapna Saha, Prof. Darshana Trivedi, Prof. Uzma Khan, Prof. Sakshi Shaw.

Prof. Minakshi Chaturvedi and Prof. Dushyant Chaturvedi conducted two short rounds in between the event.

Teachers of BCom Morning and Evening dept. also participated as a team which was quite praiseworthy as they were aware that prizes will be distributed only to the student groups. There were 3 rounds that took place and the 1st three teams, 2 from BCom Morning, BBA and Computer Science department, were awarded with prizes individually.



Report on the invited lecture "Financial Literacy"

Organized by the Department of Commerce, UG (Afternoon & Evening Section)

Joint Coordinator: Ms. Gargi Das

An invited lecture on 'Financial Literacy' was organized by the Students' Activities Committee (Afternoon and Evening Section) of the Department of Commerce, UG, on the 5th of April, 2023. The event took place in Room No. 129A, on the first floor. The keynote speaker for the lecture was Prof. (Dr.) Ashish Kumar Sana. A total of 147 students and 18 faculty members attended the lecture. The invited lecture commenced at 2:30 p.m. on the 5th of April, 2023, with an inauguration followed by a welcome address by Ms. Sukanya Chatterjee. Thereafter, Dr. Subhabrata Ganguly, the Teacher-in-Charge, The BESC, delivered the opening address, extending a warm welcome to Prof. (Dr.) Ashish Kumar Sana, Department of Commerce, University of Calcutta, and setting the stage for the discussions on financial literacy. Ms. Chatterjee took the opportunity to introduce Prof. (Dr.) Ashish Kumar Sana as the keynote speaker. She provided an overview of his extensive expertise in the field of financial literacy, highlighting his academic achievements and professional experience. Prof. (Dr.) Ashish Kumar Sana initiated the lecture by emphasizing the significance of financial literacy and its profound impact on individuals and society as a whole. He delved into various aspects of financial literacy, including budgeting, saving, investing, and financial planning. Furthermore, he shared practical tips and strategies for enhancing financial well-being. Throughout the lecture, Prof. (Dr.) Ashish Kumar Sana actively engaged the audience through interactive discussions and real-life examples. He attentively addressed their queries and offered valuable insights into the subject of financial literacy. Concluding the lecture, an interactive session was conducted by Ms. Chatterjee, allowing the students to further discuss and clarify concepts related to financial literacy. The event culminated with a vote of thanks delivered

by Ms. Paramita Chakravarty, Coordinator of M.Com at The BESC, expressing appreciation to the management, TIC, VP, and HOD (Afternoon & Evening Section), as well as the resource person, colleagues, organizing committee members, and students for their presence and active participation.



INDUSTRIAL VISIT TO COCA-COLA

An Industrial Visit was organised by the Department of Commerce (Afternoon and Evening Section) on the 18th February, 2023 for the students (Semester I) at the Diamond Beverage Pvt. Ltd. (Coca-Cola), Taratala, Budge Budge, Kolkata, West Bengal. The bus left the college campus with a total of 27 students and 5 faculty members and reached the plant by 11:15 am. After reaching, an introductory session was conducted by Mr. Indranil Dutta (Production personnel, HR department) and he presented the company's insight in a nutshell such as:

- An insight into the historical background of Coca Cola.
 - Products and worldwide sales channel of Coca-Cola.
 - Quality Standards maintained.
- Various Certifications acquired (ISO 9001, ISO 14000, ISO 50000).
 - Production process & maintenance.

Then, all were taken to the production unit accompanied by Mr. Dutta along with his team and they explained how the production process works through pasteurization, carbon filtering, RO & UV treatment of water. Furthermore, the team showed some videos relating to quality control & testing.

The industrial visit to Diamond Beverage Pvt. Ltd. was an enthralling experience for students in getting live exposure to the industry & manufacturing process which can help them in their future career growth. The visit ended with an interactive session where all the questions of the students and faculties were duly answered by the production personnel and quality control experts. A token of appreciation in the form of a memento was presented from The Bhawanipur Education Society College to the plant's production personnel, Mr. Indranil Dutta.



INDUSTRY VISIT TO SOBISCO FACTORY

The students of Semester III and V of the B.Com. Afternoon section were taken to the SOBISCO Factory near Dankuni on 22nd of February 2023. The bus left the college campus with a total of 38 students, 6 faculty members and reached the factory by 2.30 pm. After reaching the factory, all were taken to the production unit accompanied by the personnel of the company, and they explained how the production process works. There the students got to know about their mixing process, baking process, packaging process. The visit was an enthralling experience for students in getting live exposure to the industry and manufacturing process which can help them in their future career growth. A token of appreciation in the form of a Memento was presented from The Bhawanipur Education Society College to the company's General Manager, Mr. Kamalendu Ghosh.





Laboratory sessions





Department of Physics



Department of Computer Science



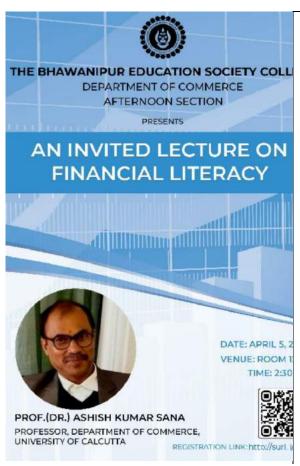
Department of Computer Science

Report on the invited lecture "Financial Literacy"

Organized by the Department of Commerce, UG (Afternoon & Evening Section)

Joint Coordinator: Ms. Gargi Das

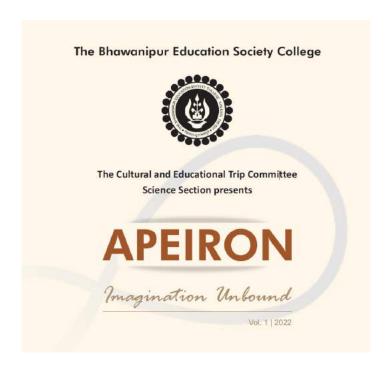
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Students' Journal/ Magazine



Link of the Journal

https://drive.google.com/file/d/1iXj0dDtqfa8ZnLf9nEnXy qmA46LDwoZ/view?usp=sharing

link of the Journal published by students of department of Bengali

https://drive.google.com/drive/u/0/folders/1hx0pJHgSd15iGgAvxXG-a846gvpyePDK https://drive.google.com/drive/u/0/folders/1hx0pJHgSd15iGgAvxXG-a846gvpyePDK https://drive.google.com/drive/u/0/folders/1hx0pJHgSd15iGgAvxXG-a846gvpyePDK



High Electron Mobility Transistor (HEMT) Device for detection of Biomolecules: Recent Developments

Trisha Bhardwaj, Arpita Das and Rabisankar Bag*
Department of Electronics, The Bhawanipur Education Society College, Kolkata 700020, West Bengal

Abstract

In this article, we focus on the recent developments of the detection of the biomolecules using the high-electron-mobility transistor(HEMT). Generally the detection of biomolecules using traditional assays is a very complex process which requires specially trained experts and the process is also time consuming in nature. On the other hand biosensors have a tremendous potential for obtaining standard and accurate information from biomolecules in a faster and simpler manner. Due to their inherent material properties such as higher electron mobility, two-dimensional electron gas (2DEG), chemical inertness, stability at high temperatures, and high speed, HEMTs have shown to have more potential and enormous benefits among various biosensors. This article discusses the fundamental ideas of HEMT-based biosensors in terms of structure, techniques, and the significance of biomolecules.

Keywords: HEMT, Biosensor, 2DEG

1. Introduction

The high electron mobility transistor (HEMT) is a heterostructure field effect device. The most-common heterojunctions for the HEMTs are the AlGaN/GaN, AlGaAs/GaAs, AlGaAs/InGaAs and InAlAs/ InGaAs heterointerfaces. Figure 1 shows a schematic view of a conventional AlGaN/GaN HEMT. The main feature of a HEMT is its heterojunction structure. For the HEMT in Figure 1, AlGaN is the wide bandgap semiconductor and GaN is the relatively low bandgap semiconductor. A two-dimensional electron gas(2DEG) layer forms at the hetero interface of AlGaN/GaN high electron mobility transistor(HEMT). The benefits of high electron mobility transistor (HEMT) based sensors include increased mobility and the formation of two-dimensional electron gas (2DEG), which increases sensitivity and minimizes the risk of static electricity damage[1].

Because of their low cost, repeatable, and predictable electrical response, silicon-based sensors remain the most common, dominating, and readily accessible semiconductor material. The major disadvantage of these sensors is that they are not appropriate for use in harsh conditions such as high temperatures, high pressure, or corrosive environments. Wide bandgap group III nitride compound semiconductors are an alternative to Silicon-based sensors because of their chemical resistance, high temperature or high power capabilities, and high electron saturation velocity[2, 3].

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performance Analysis of Germanium P-Channel Junctionless FinFET for Low Power and High Performance Applications

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Abstract

In this paper, the performance of germanium (Ge) p-channel Junctionless (JL) FinFET has been compared with silicon (Si) p-channel JL-FinFET. The device performance was evaluated in terms of sub-threshold swing, threshold voltage, on current, gate capacitor, intrinsic delay, power dissipation and power delay product for present technology. The use of Ge in JL-FinFET improves 64% delay over Si counterpart when both devices have the same off current at 100pA/um.

 $\label{eq:keywords: Junctionless (JL) FinFET, germanium (Ge), silicon (Si), sub-threshold swing (SS), threshold voltage (V_{rs}), on current (I_{ox}), off current (I_{or}), delay, power dissipation, power-delay-product (PDP).}$

1. Introduction

As per Moore's law [1], aggressive down scaling of device dimension of conventional metal-oxide-semiconductor field effect transistor (MOSFET) offers various problems, including the production of ultra-sharp source/drain junctions. Downscaling increases short channel effects in device which further enhances leakage current as well as power dissipation. A junctionless transistor (JLT) [2] has been developed as a solution to this problem, and it shows significant potential for future technology nodes. JLT has the same doping type and concentration in the source, channel, and drain regions, which denotes the absence of junction in such devices. In compared to its conventional counterpart, a JLT has higher short-channel immunity [3], improved drain-induced barrier lowering (DIBL) [3], lower electric field in the on-state [4], steep sub-threshold slope [5], and improved both analog [6] and digital logic [7] performances.

For further improvement, FinFET technology has come to improve the short channel immunity by increasing the gate control of conventional MOSFET. Recently, different research groups are working on different types of advanced devices to get higher performance and lower power dissipation in CMOS technology. To enhance the speed of the device, higher mobility Ge material may be used as a p-type technology. To enhance the speed of the devices, higher mobility Ge material may be used as a p-type channel material [8]. It is reported that Ge channel devices has been simply integrated into Si process channel material [8], outstanding I_{on} to I_{on} ratio [10] and impressive immunity to control technology. High drive current [9], outstanding I_{on} to I_{on} ratio [10] and impressive immunity to control short-channel effects (SCEs) [11] have been already reported in Ge-on-insulator (GeOI) devices.

* Correspondent Author: email: monali.sil@thebges.edu.in (M. Sil)

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Student's journal by Department of Electronics

Thoughtspell, the students' magazine of the Department of English, The Bhawanipur Education Society College is biannual digital imprint which was published for the first time in April, 2022. Thoughtspell undergoes one cycle of publication every six months. The contents of this online imprint are curated by members of its Editorial Sub Committee, with assistance from the group of Student Editors comprising both undergraduate and postgraduate students of the department. In the period 1 st June 2022 – 31 st August 2023, Thoughtspell underwent two rounds of publication; the second volume of the imprint was published in November 2022 and the third volume in May 2023.





JAI HANUMAN ENTERPRISES

168B, COTTON STREET, 4TH FLOOR, KOLKATA-700007

DATE: 25th February 2023

Dear Ambika Baheti,

We are pleased to offer you the internship position of Management Trainee at Jai Hanuman Enterprises. Your skills and experience make you an excellent fit for our team, and we believe that you will make a valuable contribution to our organization.

As an intern, you will have the opportunity to gain practical experience, and develop your skills in Finance. The internship will start on 01.03.2023 and end on 30.04.2023.

Your internship will be unpaid, but we will provide you with transportation allowances and

We are excited to have you join our team and look forward to your contributions. Please review and sign the enclosed copy of this letter. If you have any questions or concerns, please do not hesitate to contact me.

AI HAICHMAN ENTERPRIS

Laremi Nasayan Baketr

Laxmi Narayan Baheti Proprietor Jai Hanuman Enterprises

Accepted By:

Ambika Baheti



Harsh Megotia

Jeevan Jyoti Food Pvt Ltd MEAV 18 Bengal Ambuja Housing Complex Durgapur- 713216

TO WHOM IT MAY CONCERN

We are pleased to inform that Mr. Harsh Megotia, s/o Mr. Sanwar Megotia, registration no. 017-1111-3598-20 of BBA(H) of Bhawanipur Gujarati Education Society College has been selected for two months (2nd April to 2nd June) long internship program with our company Jeevan Jyoti Food byr Ltd.

His area of learning will be in marketing of Samsung Finance +

RHYTHM KHETAN (OPERATIONS MANAGER)

Mrst Jaton

Jeevan Jyoti Food Pvt Ltd. serves as an authorised Market Development Distributor of SAMSUNG Mobiles & Accessories for the region of Durgapur and outskirts.

L NO	NAME	COMPANY NAME	DURATION OF INTERNSHIP	LINK
1	Ananya Roy	I-PAC	17th April 2023 to 17th June 2023	
2	Ananya Singh	I-PAC	17th April 2023 to 17th June 2023 1st May 2023 to 1st July 2023 26th february 2023 to 31st March 2023 26th february 2023 to 31st March 2023	
3	Swaraj Roy Vishakha Singh Yojana Sharma Tisha Dutta	I-PAC I-PAC I-PAC I-PAC		
4				
5				
6				
7	Hiran Banerjee	Shard Technology Lab PTE Ltd.		
8	Aditya Chatterjee	Shard Technology Lab PTE Ltd.		
9	Sujan Ilias	United Refractory Services	12th April 2023 to 13th may 2023	
10	Areen Ilias	United Refractory Services	12th April 2023 to 13th may 2023	
11	Ayaz Nizam Mali	D Mark	26th February 2023 to 26th April 2023	
12	Adil Ahmed Molla	OJ Fashions India Private Limited	17th March 2023 to 17th May 2023	
13	ritu Kedia	HDFC Bank Printzit	3rd April 2023 to 2nd July 2023	
15 Madhurit Biss 16 Rachit Kheta	Ayan Afsar Khan		27 March 2023 to 27th June 2023	
	Madhurit Biswas	Ratnaka Resins Pvt Ltd	1st April 2023 to 31st may 2023	https://drive.google. com/file/d/1ZdYPEwIAy F9
	Rachit Khetan	Brandheif	5th March 2023 to 5th May 2023	GE48T wfLvsqUJza3Q5Gn/vi
	Adarsh Kumar Sonkar	Brandheif	15th March 2023 to 15th May 2023	ew?usp=drive_link
18	Khushi Soni	Marquee Equity	21st February to 20th April 2023	
19	Kumar Rahul	LIC	5th March 2023 to 5th May 2023	
21 A1	Riya	Nippon Life India Asset Management Ltd.	1st February 2023 to 15th April 2023	
	Aman Jha	Cafedeen Enterprises	7th Merch 2023 to 7th May 2023 6th March 2023 to 6th May 2023	
	aivhab Sharma	National Trading Company		
22	Madhav Nand Garg	BDG Shanti Polypack Pvt. Ltd.	13th February 2023 to 13th August 2023	
24 25 26	Souray Kumat Gauray	Mahindra Finance	15th february 2023 to 15th April 2023	
	Suyash Kumar	Mahindra Finance Startup Commodities Warewe Consultancy Pyt. Ltd.	10th february 2023 to 10th April 2023 6th March 2023 to 6th may 2023 1st April 2023 to 1st June 2023 24th March 2023 to 24th June 2023	
	Sidak Singh			
0.0	Ayush David			
55359	Md Khalid	R.S. Creation		
	Ma Khana	R.S. Creation	24th Match 2025 to 24th June 2025	

List of students internship details

Book Review Session

On 19th April 2023, Vox Populi, a collective of the college conducted a story-telling session at the Library of The Bhawanipur Education Society College from 11:00 a.m. The idea behind the session was to develop the art of storytelling amongst the students while indulging in interactive games. The session began with the Dean of Student Affairs, Prof. Dilip Shah introducing Prof. Champa Srinivasan, the author of the book 'Jar of Marbles' Mrs. Srinivasan who is a professional writer with a Postgraduate degree in English from Jadavpur University, is also a Professor at The Bhawanipur Education Society College.

Mrs. Srinvasan introduced the students to the idea of Storytelling & how there is a story all around us. She told the students to develop their storytelling skills by listening to things around them, even if it is just eavesdropping, she said jokingly! She took the students back to her own college days where whenever she was free, she indulged in a conversation with herself, while standing on her balcony, watching nature unfold before her. This gave her a stimulus to keep developing her thoughts and putting them forward. Soon after Prof. Shah, to instill the idea of storytelling in students, narrated a story to them. With the gripped eyes of the listeners, Prof. Shah engaged the students in his own story from his college days. He ensured that the students learned the importance of the library & the many ways of developing spoken skills for life at large.



