

IISWBM

MBA-PUBLIC SYSTEMS, BATCH 2022-24 (2 YEARS FULL TIME) UNIVERSITY OF CALCUTTA

ENERGY MANAGEMENT & ENVIRONMENT MANAGEMENT

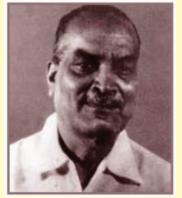
The Foundation



Panditjawaharlal Nehru laying the Foundation Stone of the Academic Block-1958



Inauguration of the first Business Management course in India (PGDBM) on 5th july,1954 (Dr.B. C. Roy addressing the gathering: Dr.). C. Ghosh, Vice-chancellor of University of Calcutta,sitting)



Dr. B. C. Roy, Visionary Chief Minister of West Bengal & the Founder President BOG-1/SWBM



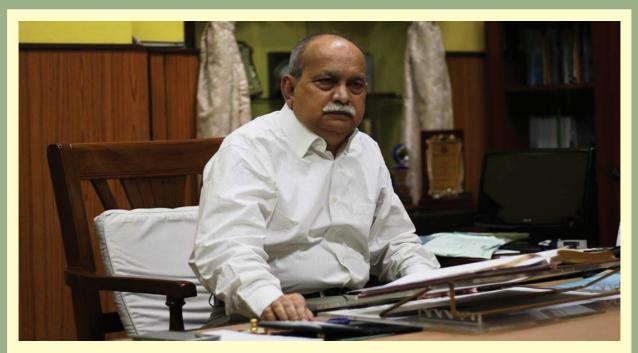
Professor D. K. Sanyal The Founder Director



Prafulla Chandra Sen, the then Chief Minister of West Bengal & President BOG-1/SWBM From 1963-64 to till his death (i.e. 25th September 1990)

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FROM THE DIRECTOR'S DESK

It's my pride and pleasure to introduce the graduating batch of MBA (Public Systems), 2022-24. IISWBM is one of the top and early B-Schools in India to offer MBA in Public Systems since 1993 with specialization in Energy, Environment, Health Care & Hospital and Transportation & Logistics thus contributing towards the progress and sustainable development of society.

The degree is affiliated to University of Calcutta which is again India's top universities ranked by NIRF & QS thus ensuring updated curriculum and quality delivery. Our alumni hold responsible positions in Government Agencies, MNC's, Research Institutes and NGOs.

Three students of the Energy Management 2022-2024 batch have won International Scholarships by the Association of Energy Engineers (USA).

The uniqueness of IISWBM is that it is not just a management institute but one where emphasis is more on socially relevant programs and proper management of public utilities along with creation of strong domain knowledge in various areas of general management.

I am sure you will find deserving candidates in this batch and thus become partners in our quest for a sustainable world.

We look forward to your gracious participation in our Campus Recruitment Drive 2023-24.

With Regards,

Sri Dipankar Das Gupta Director, IISWBM



FROM THE HOD'S DESK

Welcome to the Public Systems Management Programme at IISWBM, where we believe that "education is for life, not just for a living".

As the Head of this important programme, I am motivated by my colleagues and students. I am proud of the ways in which we as a department work individually and collectively to do research that matters, as well as to create and share knowledge that enables our students to be not only thorough professionals capable of adapting and leading in a rapidly changing environment, but also good human beings with culture, values and ethics.

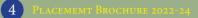
Since its inception, the Institute has built a strong placement network with blue-chip companies working in the field of Energy Management, Environment Management, Healthcare and Hospital Management, and Transportation and Logistics Management. We are immensely happy of securing very high placements for our students of 2021-2023 batch who met the requirements set by recruiters visiting our Institution.

The department has designed a curriculum of global standard with numerous training sessions to develop a holistic outlook in the students. The students are trained in employability skills such as interview, group discussion, resume writing, listening, speaking, reading and writing. Our students grow in an environment that allows them to interact and engage with industry professionals during various training sessions, field visit, dissertation and project work, which helps to establish a strong foundation for their future career. Students are provided with exclusive opportunities through campus drives, enabling them to begin their careers immediately after finishing their postgraduate management studies. Our graduates' average starting salaries are competitive with those of other institutions. We are grateful to many recruiters who have visited our Institute and conducted interviews for our students and provided placement opportunities. We highly value our relationship with the recruiters and are committed to making their experience productive and positive.

We would like to extend an open welcome to recruiters to visit our campus for Final Placements. We have a lot of deserving students who, if employed, will be an asset to your organisation and carry on your legacy.

With Regards,

Prof. (Dr.) Pradip Kumar Sikder Head - Department of MBA - Public Systems Management



ABOUT THE INSTITUTE

Quality of Faculty, that consistently ranks highest amongst premier B-Schools in terms of Intellectual Capital

Learning environment - the faculty members are dedicated to the development of its students and the Institute and regularly engage themselves in research and project work. Several faculty members have won prestigious award over the years

> Successful Alumni spread across the globe. IISWBM has tested the seasons of time to raise itself as a respectable brand name that generates overwhelming

response even today.

IISWBM

The three pillars of

It has been 70 long years down the path of knowledge; the Indian Institute of Social Welfare Business Managementshines bright in the scholastic world for its constant yearn for success and betterment, The year was 1942, the first prime, Minister of India, Pandit Jawaharlal Nehru Iaid the foundation stone of a social welfare training institute to match the needs of skilled labour by the British Government for its ordnance factories, Few years later on the 25th of April, 1953, Dr. B.C. Roy, the then Chief Minister of West Bengal along with Dr. D.K. Sanyal established the first B-School of the country.

The IISWBM has the honour of lending valuable expertise to esteemed institutes such as IIM-C (Indian Institute of Management, Calcutta) and DoMS, IIT, (ISM) Dhanbad.

The Department of Posts, Government of India released a commemorative stamp to celebrate the Golden Jubilee of the Institute in 2003.

Currently IISWBM offers the following courses- MBA, MBA (HRM), MBA-PS (Energy, Environment, Logistics & Healthcare), MSW, Sports Mgt. & PhD all of which are autonomous courses affiliated to the University of Calcutta.

IISWBM holds the pride of being the first institute of the country to offer MBA degree. All these years, the highly knowledgeable faculty, dedicated staff, deemed alumni and erudite students have upheld the esteem and pride of the institute and will continue to do so in the foreseeable future.

FACULTY



DIRECTOR Sri Dipankar Das Gupta

HEAD OF DEPARTMENT

Prof. Dr. P. K. Sikdar, M.Sc. (Cal), ICZM Dip. (UK), Ph.D.(Cal), F.G.M.S., F.G.S. (Ind), MMGI

PROFESS ORS

Dr. Archana Sharma, MBA, Ph.D. (UGC-NET Fellow)
Dr. B. K. Choudhury, B.E., Ph.D.
Dr. Chinmoy Jana, Ph.D.
Dr. Gairik Das,M.E., MBA,(UK),Ph.D.,Head-MDP & Business Management Projects
Dr. Jayanti De,M.A., M.Phil.,Ph.D.
Dr. Jhumoor Biswas,M.Sc.M.Tech.,Ph.D.
Dr. Madhumita Mohanty, M.A.,M.Phil, Ph.D.(IIT KGP), Head-MBA (HRM)
Dr. K. M. Agrawal,Ph.D.
Dr. Sudeepa Banerjee, MBA, Ph.D., Head-Social Welfare, Computer & Media Management
Dr. Sarbani Mitra, B.Ed., PGDMEnvM, PGDSA, MBA, Ph.D., Head-Fire Safety Management
Dr. Soma Roychowdhury, M.Sc. (Stat),Ph.D
Dr. Tanima Ray, M.A. (University of Calcutta); RTP (Centre for Studies in SocialSciences Calcutta); Ph.D.(University of Calcutta); PGDBM (liM,Calcutta)

ASSOCIATE PROFESSORS

Dr. Dipa Mitra, Ph.D. (University of Calcutta) Dr. Madhab Milan Ghosh, M.Com., Ph.D., Head-Sports Management Dr. Sohini Banerjee, LL.B (Hons.), LL.M. (University of Cambridge, UK), Ph.D.

FACULTY

ASSISTANT PROFESSORS

Mr. Ankan Banerjee, M.A, PGDSM
Dr. Arindam Dutta, B.E, M.Tech, Ph.D.
Mr. Buddhadip Mukherjee, MPMIR (Psychology, BHU), DSW (Calcutta University), CoA (Mind Mapping) (PDC, Singapore)
Dr. Gita Khawas, MSW (Madras University), Ph.D. (Jadavpur University)
Dr. Malini Nandi Majumdar, MBA, Ph.D.
Mr. Manjit Sarkar, MBA (BU), FDPM (IIMK), UGC-NET
Ms. Piyali Sengupta, M.Sc. PGDEM
Ms. Soma Banerjee, MA (Education), PGD Mass Communication (JU), CELTA/RSA (Cambridge University)
Dr. Sanghamitra Sen, MBBS, DLO, PGDHM, MBA
Mr. Subhasis Ray, M.Stat, M.Tech.(Comp, Sc.)
Dr. Soubarna Pal, M.Sc. (Cardiff University, UK), Ph.D. (Cardiff University, UK)
Dr. Surajit Chakraborty, M.Sc. Ph.D.
Dr.Sritama Mandal Dasgupta, Ph. D.

GUEST FACULTY/ INDUSTRY EXPERT

ENERGY MANAGEMENT

Dr. Shivaji Biswas, Former Head, NPC Eastern Region Mr. Goutam Roy, Vice President (HR), CESC Ltd. Ms. Madhura Mitra, Director, PWC Mr. Souvik Banerjee, Regional Manager, KBS Golf Quality Certification Mr. Samer Zawydeh, Carbon Market Expert, Jordan Dr. Sudeb Bhattacharya, Emeritus Scientist, Ex- Senior Scientist, Saha Institute of Nuclear Physics, Kolkata Dr. Dave Lahiri, Viridian Energy LCC. USA Mr. Prasun Chakraborty, Director, WBPDCL Dr. Indradip Mitra, Sr. Technical Advisor, GIZ GmbH

ENVIRONMENT MANAGEMENT

Dr. Arunava Majumder, Former Prof. & Head, AIIHPH & Prof Emeritus Jadavpur University Dr. Indradip Mitra, Sr. Technical Advisor, GIZ GmbH Dr. Rumjhum Ray Chowdhuri, Anthropologist & Social Scientist Mr. Arnab Basu, Associate Partner, ERM, India Mr. Shivram Mukherjee, Manager, Economic Advisory Service, PWC Mr. Deborshi Saha, Lead Consultant, CRISIL Mr. Anupam Bhattacherjee, Associate Director, KPMG Advisory Service Dr. Bipul Jana, Managing Director, Ecogenesis Consultancy Pvt. Ltd. Mr. Indranil Mitra, Manager HSSE Work Dynamic (West India), JLL Dr. Tapas Gupta, Advisor, WBPC Dr. Sidhhartha Dutta, Former Pro Vice Chancellor, Former Prof & Head, Dept. of Chemical Engineering Jadavpur University

PLACEMENT GUIDELINES

- IISWBM follows One Company-One Student placement policy.
- Upon receipt of confirmation to participate, we encourage prospective recruiters to deliver Pre Placement Talk (PPT) on a mutual convenient date or share the details via mail.
- CTC disclosure prior to selection process is a pre-requisite.
- Profiles of interested and eligible candidates are shared with the company.
- During placement season, there could be a possibility of two or more companies conducting placement drive simultaneously. In such case, whichever company rolls out the job offer first shall get the candidate.
- In order to facilitate the recruitment process, institute will provide the necessary infrastructure.
- Companies participating in the Institute's Placement Process may kindly note that delay in announcing and confirming the job offers, may result in the selected/shortlisted candidate being placed in another company.
- If the organization wishes to interview candidates for their Summer Internship, the Placement Cell will facilitate in organizing the same. Period of Internship being two months (June-July).
- An organization is free to choose its criteria and method of selection.
- Students on LWP/Sabbatical desirous of participating in campus recruitment, need to furnish 'No Objection' from current employer

LABORATORY FACILITES

Laboratory facilities and field experiment/live project opportunities are readily available as the Institute undertakes quite a number of prestigious research and consultancy assignments. The Institute has state of the art Energy and Environment Laboratories.

The laboratories are also used for research and consultancy projects and enable the students to gain hands on experience while actively participating in the different consultancy projects undertaken by the Institute. Students are required to conduct experiments and supplement their theoretical knowledge.

IISWBM's Energy Laboratory is well equipped with a 790 watt peak Solar Photovoltaic Power Research Station and a number of electrical and mechanical energy measuring equipments some of which are listed below and softwares like TRNSYS, e-Quest etc. which are required for energy study and for conducting Energy Audit in energy intensive industries such as paper, power, cement and commercial buildings. Virtually the laboratory is extended to remote areas in Sunderbans, to large industrial establishments as students are engaged in the Institute's field research and consultancy services. The Energy Laboratory has also been adorned with various awards from the Association of Energy Engineers AEE, (USA).

Indian Institute of Social Welfare and Business Management (IISWBM), the first management

institute in India, has set up a Groundwater Modelling Laboratory and GIS Cell in the Department of Environment Management of the Public Systems Management Programme. The principle objective of this is to impart quality training to the students on Water Resource Management, GIS and Remote Sensing and to carry out different research projects and consultancy. Faculty members of the Environment Departments have executed several projects funded by the Department of Science and Technology, Government of



India; Council for Scientific and Industrial Research, Government of India; United States Geological Survey; Calcutta Urban Services, Kolkata; SIMAVI, Netherlands, Hindalco, Ministry of Defence, Govt. of India (lchapur Rifle Factory and Cossipore Gun and Shell Factory), National Thermal Power Corporation (NTPC) etc.

Faculty members of this departments also tie-up and collaborate with various industry for research work. These includes United States Geological Survey, University of Delware,USA,University College London, U.K., Nanyang Technological University, Singapore, Indian Institute of Technology, Kharagpur, Centre for Ground Water Studies, Kolkata and Central University of Gujarat

Other instruments in Environment Laboratory include:



INSTRUMENTS IN ENVIRONMENT LABORATORY

- High Volume Sampler
- Respirable Dust Sampler
- CO Monitor
- Hydrocarbon Monitor
- Stack Emission Monitoring Kit
- Weather Monitoring Station
- BOD Incubator, Spectrophotometer
- > pH Meter, Conductivity Meter, Hot Air Oven
- Distillation Unit, Noise Level Meter

INSTRUMENTS IN GROUND WATER MODELLING LABORATORY

- Wagtech International Digital Arsenator
- Muffle Furnace
- Seive Shaker
- Digital Weighing Machine
- Solinst Model101 water LevelMeter
- Leica and Garmin make GPS

INSTRUMENTS IN ENERGY LABORATORY

- Digital Anemometer, Stroboscope Tachometer
- Sunshine Recorder, Digital Solar Meter
- Insulataion Tester
- Power Clamp Meter
- Three Phase LT & HT Power Quality Analyzer
- Three Phase LT & HT Network Power Analyzer
- Digital Lux Meters Diffuse Pyranometer
- > Thermoelectric Pyroheliometer Digital Photo Tachometer
- Digital Gas Analyzer Digital Thermometer
- Digital Thermometer and Thermo Hygrometer
- ThermalImager, Infrared Thermometer

INFRASTRUCTURE

CLASSROOM

The spacious air-conditioned classrooms are well equipped with Smart boards, LCD multimedia projector and other necessities and properly maintained to cater to the academic requirements of the students.

CENTRAL LIBRARY

The Central Library was started along with establishment of the Institute in 1953 in order to cater to the academic and research needs of the faculty, research scholars, students, officers and non-teaching staff.

- ► Houses over 51,000 books of different subjects.
- > Implemented bar code-based circulation system.
- Electronic Library contains over 1000 CD-ROM database with a vast collection of E- journals & E-Books sourced from around the globe.

COMPUTER CENTRE AND IT SETUP

The Institute website has been upgraded and redesigned and now everything is cloud based. The entire content is updated and shifted to AWS Cloud Server. 17 new laptops, 2 new printers and 7 Interactive Display Systems were acquired. Institute email IDs are now Gmail based.

- > 100 mbps leased line service internet connection
- ▶ 42 Computer Terminals installed with the latest in software and digital security measures
- Wi-Fi connectivity available throughout the campus, enabling students to connect to online academic resources on the go.
- Panasonic 65' Professional Signage Panel installed as a display board for providing various information/ program about the institute.
- > Electronic smart boards in certain classrooms and LCD projector in every classroom.

HOSTEL

- > Well maintained 11000 square feet girls' hostel & 4- storeyed boys' hostel at walking distance from the Institute.
- Furnished rooms with bathrooms, kitchen, dining hall, common living area along with amenities like LCD, TV, microwave, oven, water purifier, ironing table etc. are provided.

AUDITORIUM

The auditorium boasts of a well-designed stage and an audio-visual screen. It is the perfect platform for meetings, stage shows and interactive sessions. The screen complements any kind of audio-visual communication with amplifiers, speakers and an installed projector.

LANGUAGE LABORATORY

- > The institute provides Web Assisted Language Laboratory to the students.
- ▶ Helps in improving the pronunciation & dictation, with continuous assessment of performers by the instructors.

CANTEEN & GYMNASIUM

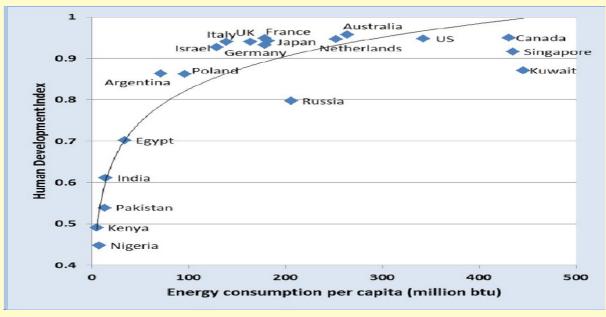
- > Canteen is free Wi-Fi zone, which provides a variety a healthy cuisine at reasonable rates to students.
- The institute provides a well-equipped & maintained gymnasium with modern equipment & trainer to guide & encourage students to maintain a healthy physique.

CONFERENCE ROOM

- The facility of video conferencing makes the conference room more industry friendly with the scope of uninterrupted interaction.
- > The conference rooms have in-built speakers to make the conversations distinctly audible. The cordless microphones help the speakers to interchange ideas.

COURSE OVERVIEW | ENERGY MANAGEMENT

Energy is the mainstay of modern society. But annual-energy-use-per-capita has a diminishing rate of return for raising the Human Development Index (HDI) for a nation. Judicious utilization of energy is essential in view of the rapidly evolving technological and technical solutions, changing socio-economic and political scenario, dwindling fossil fuel reserve, greater emphasis on environmental pollution (to which the energy sector contributes the most), Water scarcity and its energy link, ever-increasing fuel import bill (which is more than our trade deficit), evolution of different trading mechanism including REC, new dimensions of competition and regulation (including the Energy Conservation Act 2001, amended in 2010), PAT scheme for Designated Consumers, international standard on Energy Management System ISO-50001, the market drives in the era of energy labelling are rewriting the prescription for industrial growth and social development in India.



The Indian economy is growing fast. As per the Union Budget of 2023-24, the Indian government has estimated a nominal GDP growth rate of 10.5% in 2023-24 (i.e., real growth plus inflation). The total potential for renewable power generation in the country as on 31.03.2022 is estimated at 14,90,727 MW. As per "Energy Statistics 2023" published by the Ministry of Statistics and Programme Implementation (GoI), the Net Import of coal steadily increased from 143.34 MTs in 2012- 13 to 247.51 MTs in 2019-20; imports of crude oil have increased from 184.80 MTs during 2012-13 to 226.95 MTs during 2019-20; the import of Natural Gas has increased from a figure of 17.61 BCM (Billion Cubic Meter) during 2012-13 to 33.89 BCM during 2019-20.



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IISWBM is the pioneer in providing the Energy Management MBA (under MBA-Public Systems) program since 1993 affiliated by Calcutta University. The institute has played a pioneering role in the introduction of innovative contexts including Electric Vehicle (EV), ESG, RetScreen, AutoCAD, eQuest, Energy transition, Energy security, Sustainability and Climate Change, Carbon Market, Power Trading in its flagship Energy Management program. Every year, new courses are introduced, and changes made in current courses, to keep students in sync with the latest developments in the field of energy management education. It has been widely acclaimed for various customized topics it has introduced based on its front-line teaching, research and experience. The Institute has made sure that this education program remains relevant, and is able to meet the changing needs of the energy sector. Due to all the above factors, recruiters have reposed their greatest confidence in IISWBM students, year after year.

The institute recognizes the importance of energy in driving inclusive growth through the interaction of regulations, market instruments, and institutional systems. Another significant potential is to respond to India's climate change concerns by striving to work in the realm of energy efficiency and management in order to attain the goal of Net Zero in the global community of nations. The launch of the Indian carbon market in 2025 clearly indicates that trained manpower will be needed in that sector within our country and our students will prove to be valuable assets for that.

The course covers multidisciplinary techno-managerial aspects of energy and resource modelling, economics, commerce, environment, technology, equity, law, management, communication, and community interface of stakeholders, among other things. Our students are well equipped with the necessary techno-managerial skills needed to become successful energy managers gathered through intensive course work, assignments, field visits, internship and energy lab. We also involve them in live energy projects that our institute participates in from time to time, making our students industry-ready. The course incorporates well-defined and emergent learnings on these and related topics. elements of management applicable at the regional, national, and global levels. It allows prospective professionals to see a 360-degree view of the energy management landscape that is required not simply to provide a career opportunity, but also to work for the achievement of the national energy goals.

IISWBM is providing pioneering services to the society in the energy field during last three decades, having built an alumni base of more than 400 masters in Energy Management, 150 certificates holders from Short Term certificate course in Energy Management and Audit and host the first India Chapter (Later renamed as Kolkata Chapter) of Association of Energy Engineers, AEE, USA, the largest body of energy professionals of the world, the first USAID supported Energy and Green House Gas Accounting Cell.

The students' technical writing, communication and organizational skills are sharpened through such interactions, organization of seminars, publication of ENERGY WINDOW and academic/ industrial research papers pertaining to energy management. Other activities of IISWBM include being a collaborator with leading Chambers of **Commerce and Industries(CCI)** in India, **AEE (USA)**, **Loughborough University** and **Coventry University**, **UK**. Thus in the field of energy management, the institute has secured **39 international awards**. Also, 59 students of Energy Management from IISWBM have secured International Student Scholarships from AEE (USA). This year, 5 students have received this prestigious honour. Each got a cash prize of USD 1000 and an opportunity to attend the AEE World Congress 2023 in-person at Orlando, FL, USA.

COURSE CURRICULUM

Energy Management

Semester I			
Paper Code	Paper Code Paper Name		
101	Management Principles and Practice		
102	Managerial Statistics		
103	Organizational Behavior		
104	Management Information System		
105	Business and Government		
106	Managerial Economics		
107	Management Science		
108	Management Skills and Ethos		

Semester II		
Paper Code Paper Name		
201	Marketing Management	
202	Research Methodology	
203	Human Resource Management	
204	Management Accounting and Finance	
205	Introduction to Energy Management, Audit and Measurement	
206	Renewable Energy Source:Solar and Wind	
207	Energy Technology for Management	
208	Energy Efficiency in Electrical Utility	

Semester Ill		
Paper Code	Paper Name	
301	Energy Efficiency in Thermal Utility	
302	Climate Change Mitigation and Sustainability	
303	Conventional Energy Resource and System	
304	DSM and Distributed Generation	
305	Building Energy Management	
306	Energy and Environment	
307	Energy Audit & Sustainability in larger industries including DC's	
308	Energy Pricing and Economics	

Semester IV		
Paper Code Paper Name		
401	Renewable Energy Management : Biomass,Small Hydro and others	
402	Energy Audit and Conservation,Sustainability in SME's	
403	Energy Action Planning	
404	Energy Business Models & Processes	
405	Project Work/Internship in the area of specialization	
406	Dissertation paper in the area of specialization	
407 Viva voce (Theory paper/Project/Dissertation) on subject of specialization		

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VISITS BY INDUSTRY EXPERTS

- Dr. Nitin Dumasia, President & CEO of Growlity Inc.,USA, delivered a talk on " Demystifying Opportunities" 13th May,2023.
- Ms. Sreyashee Das, CEO, AIC Sangram delivered a talk on "Role of start-up in Energy transition and Climate Change" on 17th June,2023.
- Mr. Samrat Sengupta, Vice President , Enking International delivered a lecture on "The carbon market in Energy Transition" on 15th july,2023.
- Mr. Sauvik Banerjee delivered a lecture on "Introduction to organizational Greenhouse Gas Accounting" on 12th August,2023.
- Debarshi Mukherjee, our Alumni, Lead Consultant, ESG team (CRISIL) delivered a talk on ESG reporting frameworks in September 2023.
- Mr. Anupam Bhattacharya, Associate Director, KPMG India, delivered a talk on sustainable supply chain in September 2023.
- Mr. Shivram Mukherjee, Manager, PwC and Mr. Kishalay Bhattacharya, Consultant, PwC, delivered a talk on Carbon markets in September 2023.
- Dr. Raj Banerjee, Ph.D. Advisor, Schlumberger USA delivered a lecture on "The role of Carbon Storage in achieving Net Zero" on 30th September 2023.
- An Interactive session on Utility of Software tools towards growth of Solar Energy Systems in India with Mr. Saugata Datta, India Country Director, Husk, Power Systems Pvt. Ltd.; Dr. Indradip Mitra Team Leader E-mobility, Indo German Energy Programme. GIZ; Mr.Pratim Raha, Manager Climate Action, Villgro Innovations Foundation&Mr. Barun Kumar, Consultant Business and Technical Operations (India) **Overspeed GmbH**, Oldenburg, Germany in May 2022
- Online session on Career Prospect as Green Building Consultant by Mr. Saibal Saha, ECBC Master Trainer & BEE Certified Energy Auditor & Mr. Sudipta Ghosh, Manager, Lead Consultancy & Engineering Services (India) Pvt. Ltd.
- Interaction with Mr. Dilip Ghosh, Manager EHS, Alstom Transport regarding EHS & ESG techniques & models used in MNC's on 23rd July 2022.
- Interactive sessions with Dr. Anindya Bhattacharya, Executive Director at The Celestial Earth on April 21.Mr. Dipayan Sarkar, Chief Manager - R&D, SELCO Solar on April 21. Mr. Subhashis Dey, Director, Shakti Sustainable Energy Foundation on April 21. Dr. Indradip Mitra, Team Leader GIZ GMBH on April 2021.
- Mr. Ashok Sarkar, Senior Energy Specialist & Team Leader, Energy Efficiency Project, World Bank delivered a talk on Energy Management & World Bank on 26th February 2019.



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VISITS & SEMINARS

Energy Management

SEMINARS:

- Building services through intelligent network
 Organised by State electrical engineers association west Bengal
- AlMA (All India Management Association) Regional Management Conclave Topic: leadership at the age of disruption
- BCCI Energy and Environment Conclave
 Topic: Disruptive innovations in energy transitions
- TERI, GRIHA Council
 Topic: Energy Building Simulation

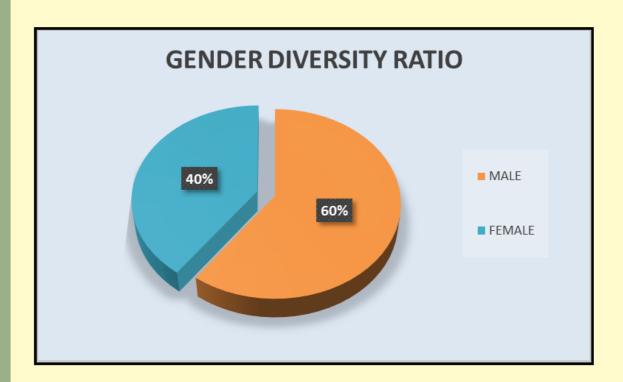
INDUSTRIAL VISITS:

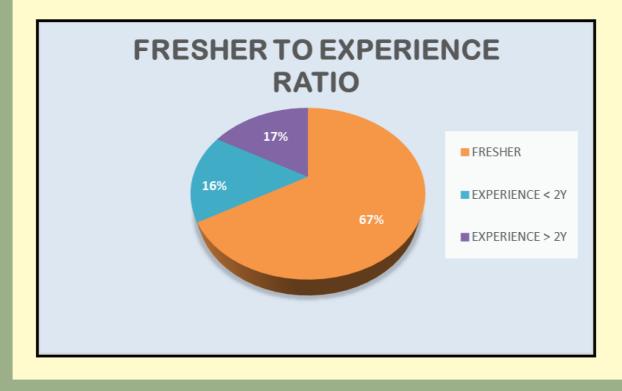
- Asphaltium (road) Department Kolkata Municipal Corporation
- Aditya Birla Insulators
- ➢ jaya Shree Textiles
- Hindustan National Glass
- ➢ IlEST Shibpur
- Tata Mettaliks
- ➤ CESC
- Maithon hydraulic Power Plant, DVC





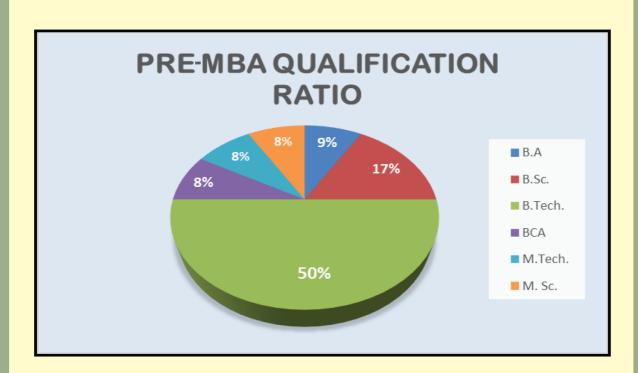
ENERGY MANAGEMENT DIVERSITY 22-24 BATCH

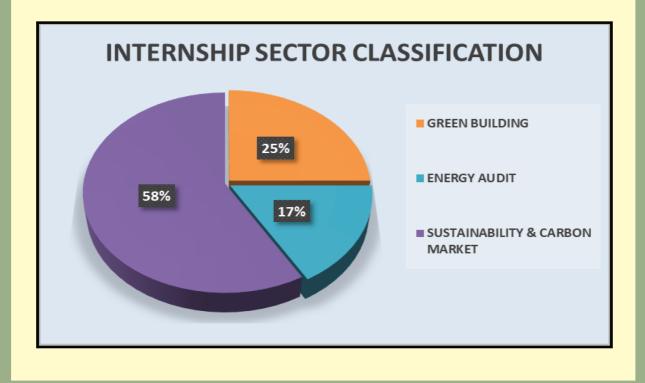




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ENERGY MANAGEMENT DIVERSITY 22-24 BATCH





PLACEMENT BROCHURE 2022-24 19

Students Profile

Energy Management

 NAME- Abanish Mazumder D.O.B 29.11.1991 GRADUATION- B.E. in Mechanical Engineering UNIVERSITY- Jadavpur University INTERNSHIP ORGANIZATION- Kosher Climate India Pvt. Ltd. TITLE- Developed Project Design Document for ALRE Waste to Energy Plant to register in VERRA WORK EXPERIENCE- 88 months
 NAME- Avisek Bardhan D.O.B 11.02.1998 GRADUATION- B. Tech in Applied Electronics and Instrumentation Engineering UNIVERSITY- MAKAUT INTERNSHIP ORGANIZATION- CESC Ltd. TITLE- Conducting a Energy Audit of coal fired Thermal power plant WORK EXPERIENCE- 12 months
 NAME- Baibhav Nag D.O.B 12.11.1997 GRADUATION- B.Sc. (Mathematics) UNIVERSITY- Jadavpur University HIGHEST QUALIFICATION- M.Sc. (Mathematics) INTERNSHIP ORGANIZATION- Kosher Climate India Pvt. Ltd. TITLE- Additionality in Voluntary Carbon Markets WORK EXPERIENCE- Fresher
 NAME- Dipanwita Mazumdar D.O.B 01.11.1998 GRADUATION- B.Sc. (Hons.) Mathematics UNIVERSITY- University of Burdwan INTERNSHIP ORGANIZATION- Agnikrida TITLE- Green Building or BEE star rating projects WORK EXPERIENCE- Fresher

	 NAME- Hemanta Roy D.O.B 23.04.1999 GRADUATION- B.Tech. in Electrical Engineering UNIVERSITY- MAKAUT INTERNSHIP ORGANIZATION- CESC Ltd. TITLE- Conducting a Energy Audit of coal fired Thermal power plant WORK EXPERIENCE- Fresher
	 NAME- Manabendra Ghosh D.O.B 21.12.1993 GRADUATION- B.Tech in Mechanical Engineering UNIVERSITY- MAKAUT INTERNSHIP ORGANIZATION- First Climate TITLE- ESG materiality Assessment and trend Analysis WORK EXPERIENCE- 84 Months
SUBLEY TRA	 NAME- Rik Bhattacharya D.O.B 26.01.1998 GRADUATION- B.Tech in Computer Science and Engineering UNIVERSITY- University of Engineering and Management, Kolkata INTERNSHIP ORGANIZATION- Digital Utilities TITLE- Pre-feasibility Report Development for CBG in India WORK EXPERIENCE- Fresher
	 NAME- Sanhati Mandal D.O.B 06.11.2000 GRADUATION- B.C.A. UNIVERSITY- University of Engineering and Management,Kolkata INTERNSHIP ORGANIZATION- Digital Utilities TITLE- Pre-feasibility Report development for Compressed Biogas (CBG) in India WORK EXPERIENCE- 8 Months

 NAME- Sriyansi Nayak D.O.B 05.10.2002 GRADUATION- B.A. (Hons.) Political Science UNIVERSITY- Jadavpur University INTERNSHIP ORGANIZATION- Agnikrida TITLE- Green Building or BEE star rating projects WORK EXPERIENCE- Fresher
 NAME- Sudipta Das D.O.B 15.12.1997 GRADUATION- B. Tech in Electrical Engineering UNIVERSITY- MAKAUT HIGHEST QUALIFICATION- M.Tech. in Power System INTERNSHIP ORGANIZATION- First Climate TITLE- Captive Solar Plant and Compressed Biogas Indian Market Scenario WORK EXPERIENCE- Fresher
 NAME- Sumita Banerjee D.O.B 19.03.2000 GRADUATION- B.Sc.(Hons.) Physics UNIVERSITY- University of Burdwan INTERNSHIP ORGANIZATION- Agnikrida TITLE- Green Building or BEE star rating projects WORK EXPERIENCE- Fresher
 NAME- Chayan Dirghangi D.O.B 06.01.1998 GRADUATION- B. Tech in Electrical Engineering UNIVERSITY- MAKAUT INTERNSHIP ORGANIZATION- Kosher Climate India Pvt.Ltd. TITLE- Carbon finance for Safe Drinking Water WORK EXPERIENCE- Fresher

PARTIAL LIST OF ILLUSTRIOUS ALUMNI

Energy Management

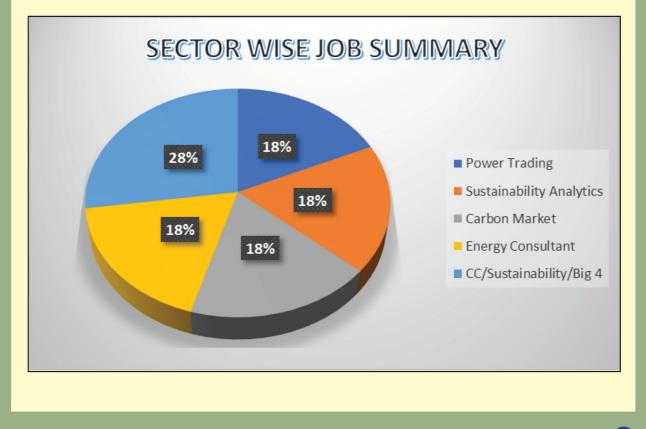
Name	Batch	Company	Designation
Dr. Indradip Mitra	1995-1998	Team Leader	GIZ GmbH
Debapratim Bhadra	2001-2003	Chief Manager	ACC Limited
Debdut Sarkar	2008-2010	Vice President (Advisory Service)	E-Cube Energy Trading Pvt. Ltd.
Mr. Arghya Mukherjee	1998-2001	AVP	Prism Johnson Limited
Dr. Arindam Saha	2001-2004	Jt. CEO	Ticker Plant Ltd.
Shivram Mukherjee	2009-2011	Manager	GRID-Public Sector & Governance PwC
Shubhashis Dey	2003-2005	Director	Shakti Sustainable Energy Foundation
Mamta Swarnakar	2009-2011	Manager	KPMG
Madhura Mitra	2006-2008	Director	PwC
Suvra Majumdar	2004-2006	Technical Expert	UNDP
Srijit Mukherjee	2003-2005	General Manager	Brookfield Properties
Suparno Ranjan Majumdar	1996-1998	Senior Consultant	Development Environergy Services Ltd.
Saugata Datta	1993-1996	India Country Director	Husk Power Systems Pvt. Ltd.
Samrat Sengupta	1993-1995	VP-New Business and Market Strategy	EnKing International
Shuvendu kr. Bose	1995-1998	1) Advisor 2) Advisor	1) Ministry of Energy, UAE 2) World Bank and IFC
Shubhashis Dey	2003-2005	Director	Shakti Sustainable Energy Foundation
Umashankar S	2003-2005	Senior Specialist Energy & Sustainability	L&T Technology Services Limited
Rana Pratap Poddar	2004-2006	Team Leader	Agnikrida
Soumyabrata Rahut	2003-2005	Result Measurement Specialist	World Bank



PREVIOUS YEAR PLACEMENT SNAPSHOT

Energy Management

Academic Year	2021-23
Percentage of students placed	100%
Highest CTC	7.38 LPA
Average CTC	5.93 LPA
First time recruiters	33%
Summer Internships	100%



COURSE OVERVIEW

In the recent past, the corporate world has experienced a many-fold increase in the need to meet environmental standards in trade and business practices. This warrants business houses to take more responsibility for environmental degradation. Accordingly, the beginning of the



21st century experienced the first changing business environment in our country as well as the gradual changes in customer's expectations which have made it necessary to take a proactive approach to deal with the problems relating to environmental pollution control, sustainable development and management. Globally the major concern in environment management is determining the ways in which industrial action can be made

compatible with nature.

When we say that business should contribute to the good of society, it implies that business has an obligation to both the stakeholders and also to the environment. However, it is a fact that environmental regulations alone can not solve the environmental problems. Implementation of regulations always remains an issue. Gradually awareness about environmental issues is increasing amongst policy makers and the public in general.

Therefore, environmental management is not only a compliance issue but also a strategic business practice globally. For example, green awareness and eco-friendly productions etc. have become buzzwords that indicate increasing industrial awareness on environmental issues. The focus of

our environment management program is on how to incorporate environmental issues into business practices, so that the entire business process is focused towards environmental concerns.

As environmental considerations are likely because of profound changes in the business practices, the curriculum of our MBA-PS (Environment Management) course has been designed in a manner to train budding environment managers for tackling environmental issues in a sustainable and cost-effective manner.



This program covers Land Resource Management, Management of Ecology, Forest and Wildlife,



Air Pollution Monitoring & Control, Water Pollution—Monitoring and Control, Management of Socio-Economic Environment, Environmental Economics, Solid and Hazardous Waste Management, Environmental Impact Assessment, Risk Analysis and Disaster-Management, Industrial Safety and Occupational Health, Remote Sensing and GIS, Environmental Legislation and Trade and Environment.



COURSE CURRICULUM

Environment

Semester I			
Paper Code	Paper Code Paper Name		
101	Management Pl'inciples and Pramce		
102	Managerial Statistics		
103	Organizational Behavior		
104	Management Information System		
105	Business and Government		
106	Managerial Economics		
107	Management Science		
108	Management Skills and Ethos		

Semester II		
Paper Code	Paper Name	
201	Marketing Management	
202	Research Methodology	
203	Human Resource Management	
204	Management Accounting and Finance	
205	Natureal Resource Management	
206	Water Resource Management	
207	Management of Ecology, Forest and Wildife	
208	Management of Socio-Economic Environment	

Semester Ill		
Paper Code	Paper Name	
301	Air Pollution - Monitoring & Control	
302	Water Pollution - Monitoring & Control	
303	Management of Soil. Noise & Odour Pollution	
304	Solid & Hazardous Waste Management	
305	Environmental Impact Assessment	
306	Risk Analysis & Disaster Management	
307	Industyrial Safety & Occupational Health	
308	Environmental Economics	

Semester IV		
Paper Code	Paper Name	
401	Remote Sensing & GIS	
402	Environmental Legislation	
403	Environmental Management Systems	
404	Climate Change and Trade & Envionment	
405	Project work/Internship in the Area of Specialization	
406	Dissertation Paper in the Area of Specialization	
407	Viva Voce (Theory paper/Dissertation) on Subject of Specialization	

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VISITS AND SEMINARS Environment Management

- MBA(PS)-Environment Management Batch (2022-2024) has attended seminar on "5th ICC OHS Awards & Conference" organized by "Indian Chamber of Commerce" on 22nd September, 2023" at Great Eastern Lalit, Kolkata.
- MBA(PS)-Environment Management Batch (2022-2024) has attended webinar on "Municipal Wastewater Reclamation, Recycle and Reuse" organized by "Water Digest" 4th May, 2023.
- Earth Day celebration in IISWBM premises.
- MBA(PS)-Environment Management Batch (2022-2024) has attended a seminar on "Green Architects 2023" organized by "Hulladek" on 11th March, 2023 held at Hotel Hindustan International at Kolkata.



- ▶ MBA(PS)-Environment Management Batch (2022-2024) has attended a seminar on "Disaster Risk Reduction and climate health issues" organized by "Sustainable &
- Resilient Communities-Official Engagement Groups of G20" on 29th May, 2023 held at Press Club, Kolkata.
- MBA(PS)-Environment Management Batch (2022-2024) has attended a seminar on "Citizens Jury on 'Move For Earth" organized by "SwitchON Foundation" on 21st February, 2023 held at National Library, Kolkata.
- MBA(PS)-Environment Management Batch (2022-2024) has attended webinar on "Supporting Ecopreneurship: Green Bengal Innovation Contest" organized by "SwitchON Foundation" on 20th January, 2023.
- Workshop on learning & implementation of ISO 45001:2018 (Occupational Health & Safety Management Systems) or ISO 14064 (Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals) by Mr. Rajnish Sinha, Director, Ambirisk.



INDUSTRY VISITS

- MBA(PS)-Environment Management Batch (2022-2024) visited "Maithon Hydraulic Power Plant, DVC" on 25th August, 2023 at Maithon.
- MBA(PS)-Environment Management Batch (2022-2024) has visited "East India Pharmaceutical Works Ltd. Plant" on 3rd March, 2023, at Behala, Kolkata
- MBA(PS)-Environment Management Batch (2021-2023) has visited Burdwan Sohar Bazar Water irrigation project by Bridge and Roof Company.
- MBA(PS)-Environment Management Batch (2021-2023) has visited Tata Metaliks plant, Kharagpur







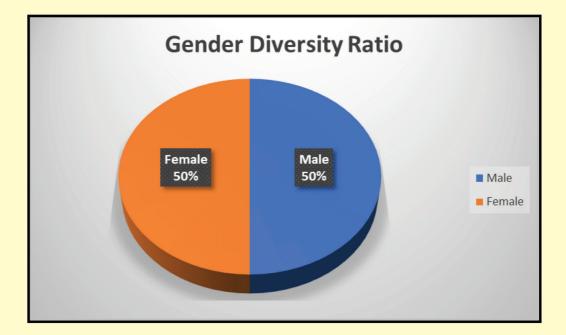


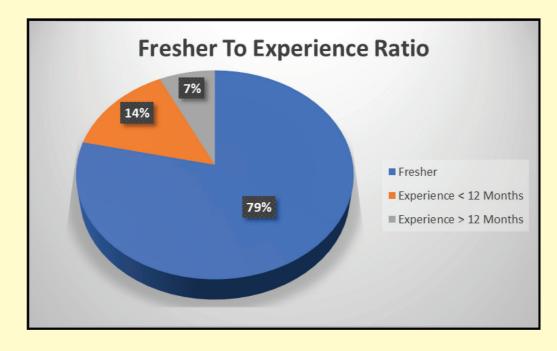
INDUSTRY EXPERT TALK

- MBA(PS)-Environment Management Batch (2022-2024) has attended the expert talk on "Environment Health & Safety: Changing Landscape" presented by Mr. Anupam Bhattacharjee, Associate Director, KPMG Advisory Services on 8th September, 2023 at IISWBM.
- MBA(PS)-Environment Management Batch (2022-2024) has attended the expert talk on "ESG: Key Concepts & Development" presented by Mr. Debarshi Mukherjee, Lead Consultant- Energy Commodities & Sustainability, CRISIL Limited on 25th August, 2023 at IISWBM.
- MBA(PS)-Environment Management Batch (2022-2024) has attended the expert talk on "Carbon Markets: Revival & Potential Areas of Growth" presented by Mr. Shivram Mukherjee, Manager- Economic Advisory Services, PricewaterhouseCoopers Pvt. Ltd on 18th August, 2023 at IISWBM.

BATCH DIVERSITY

Environment Management 2022-2024 Batch

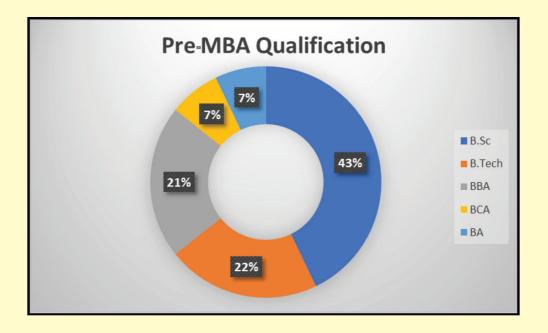


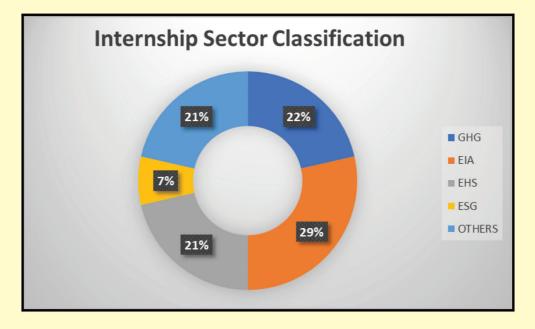


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BATCH DIVERSITY

Environment Management 2022-2024 Batch





STUDENTS PROFILE

Environment Management 2022-2024 Batch

 NAME- Abhijnan Halder D.O.B 06.06.2000 GRADUATION- BBA, Asutosh College UNIVERSITY- University of Calcutta INTERNSHIP ORGANIZATION- Re-Sustainability Ltd. TITLE-Construction and Demolition of Solid Waste Management WORK EXPERIENCE- Fresher
 NAME- Agnidipan Dey D.O.B 28.07.1995 GRADUATION- B.Tech in Mechanical Engineering UNIVERSITY- MAKAUT INTERNSHIP ORGANIZATION- ENVIROCHECK Pvt.Ltd. TITLE- Wastewater Analysis WORK EXPERIENCE- 6 months
 NAME- Animesh Koley D.O.B 17.03.2000 GRADUATION- B.Sc (Hons) UNIVERSITY- The University of Burdwan INTERNSHIP ORGANIZATION- Parekh Integrated Service Pvt. Ltd. TITLE- Environmental Health & Safety WORK EXPERIENCE- Fresher
 NAME- Anwesha Mukherjee D.O.B 24.02.2001 GRADUATION- Bsc (Hons) Geology UNIVERSITY- University of Calcutta INTERNSHIP ORGANIZATION- Kosher Climate India Pvt Ltd TITLE- Carbon Credit generation from Energy Demand, REDD+ Feasibility study in Lao PDR,Research on SLAMM. WORK EXPERIENCE- Fresher

 NAME- Baby Priya D.O.B 17.11.1998 GRADUATION- B.Sc (Community Science) UNIVERSITY- Dr.Rajendra Prasad Central Agriculture University INTERNSHIP ORGANIZATION- Kosher Climate India Pvt. Ltd TITLE- Carbon Credit generation from AWD Project. REDD+ project, Community project and Carbon offsetting. WORK EXPERIENCE- Fresher
 NAME- Dhruba Majhi D.O.B27.06.1991 GRADUATION- B.Tech in Electrical Engineering UNIVERSITY- West Bengal University of Technology INTERNSHIP ORGANIZATION- Ambirisk Research & Management Consulting India Pvt Ltd TITLE- ESG Reporting WORK EXPERIENCE- 89 Months
 NAME- Ranajay Dhara D.O.B 08.03.1998 GRADUATION- B.Tech. in Electrical Engineering UNIVERSITY- MAKAUT INTERNSHIP ORGANIZATION- Kosher Climate India Pvt. Ltd. TITLE- Carbon Credit Accounting, Monitoring Report of composting facility, Research on SLAMM Model. WORK EXPERIENCE- 12 months
 NAME- Shouvik Mandal D.O.B 17.04.2000 GRADUATION-B. Sc. (Hons.) UNIVERSITY- Kazi Nazrul University HIGHEST QUALIFICATION- M.Sc (Geology) INTERNSHIP ORGANIZATION- United Exploration India Pvt. Ltd. TITLE- Environment Impact Assessment in Coal Mining Industry EXPERIENCE- Fresher

 NAME- Sreejoni Bhattacharjee D.O.B 01.09.2000 GRADUATION- BBA (Hospital Management) UNIVERSITY- MAKAUT INTERNSHIP ORGANIZATION- Ambirisk Research and Management Consulting India Pvt. Ltd. TITLE- Environmental Health and Safety (EHS) EXPERIENCE- 14 months 26 days
 NAME- Sukanya Dutta D.O.B 08.03.1995 GRADUATION- B.Sc (Hons) Geology UNIVERSITY- University Of Calcutta HIGHEST QUALIFICATION- M.Sc (Geology) INTERNSHIP ORGANIZATION- Ambirisk Research & Management Consulting India Pvt Ltd TITLE- GreenHouse Gases Emission Accounting EXPERIENCE- 6 months 11 days
 NAME- Suman Ghosh D.O.B 03.08.2000 GRADUATION- B.Sc (Hons) Geology UNIVERSITY- University of Calcutta INTERNSHIP ORGANIZATION- SRK Mining Consulting India TITLE- Industry collaboration for Watershed management EXPERIENCE- Fresher
 NAME- Swagata Roy D.O.B 20.11.1999 GRADUATION- BCA UNIVERSITY- MAKAUT INTERNSHIP ORGANIZATION- Ambirisk Research and Management Consulting India Pvt. Ltd TITLE- Environmental Health and Safety (EHS) EXPERIENCE- 2 months

 NAME- Sohini Samanta D.O.B 23.4.1995 GRADUATION- B.A (Hons) Economics UNIVERSITY- University of Burdwan HIGHEST QUALIFICATION- M.Sc (Economics) INTERNSHIP ORGANIZATION- SRK mining Consulting India TITLE- Water Economics of India EXPERIENCE- 2 months
 NAME- Trayee Dhar D.O.B 19.05.2000 GRADUATION- B.B.A (Hons) UNIVERSITY- MAKAUT INTERNSHIP ORGANIZATION- Re-Sustainability Ltd. TITLE-Construction and Demolition of Solid Waste Management EXPERIENCE- Fresher

PARTIAL LIST OF ILLUSTRIOUS ALUMNI

Name	Batch	Company	Designation
Mr Mainak Hazra	1993-1996	Arcadis	Head of Environment
Ms Monali Zeya Hazra	1993-1996	USAID	Programme Management Specialist
Mr Swarnabha Bandhopadhyay	1995-1998	Prayukti International	Director
Mr Krishnendu Datta	1996-1998	Ramky	DGM Operations
Ms Haimanti Poddar	2002-2004	British Deputy High Commission	SeniorAdvisor
Mr Chandan Roy	2006-2008	Ernst & Young (EY)	Manager
Mr Rajnish Sinha	2011-2013	Ambirisk Consultancy	Director
Mr Debashish Manna	1994-1996	Qatar Energy	Environment Specialist
Mr Sukanta Ray	1998-2000	Essar Oil	DGM Environment
Mr Debanjan Bandopadhyay	1993-1996	ERM	Partner
Mr Rajib Kumar Debnath	1995-1997	Nangia Anderson LLP	Lead Partner Sustainability
Mr Bratin Roy	1997-1999	TÜV SÜD South Asia	Senior VP
Mr Pratik Ghosh	1997-2000	Aditya Billa Group	AVP Group Sustainability
Mr Arupendra Nath Mullick	2002-2004	TERI Council for Business Sustainability	Vice President
Mr Arnab Basu	2002-2004	ERM	Principal Consultant
Mr Pratim Brahmachari	2006-2008	Flipkart	Associate Director
Mr Sohini Ghosh Dastidar	2011-2013	Amazon	Program Manager – EHS
Mr Indranil Mitra	2013-2015	JLL	Senior Manager- EHS
Mr Avik Halder	2006-2008	Haldia Petrochemicals	Senior Manager

Environment Management

PARTIAL LIST OF RECRUITERS

Environment Management



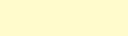






















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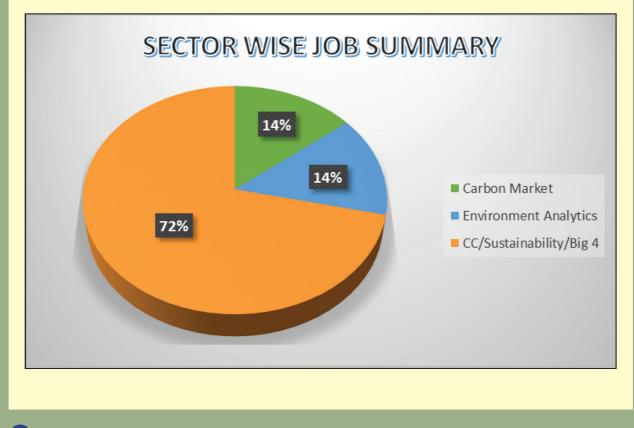




PREVIOUS YEAR PLACEMENT SNAPSHOT

Environment Management

Academic Year	2021-23	
Percentage of students placed	78%	
Highest CTC	7.50 LPA	
Average CTC	6.49 LPA	
First time recruiters	33%	
Summer Internships	100%	



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CORPORATE RELATIONS CELL

Pritam Kar

Placement Officer:

Email:pritam@iiswbm.edu

Handheld: +91 9871175189

Board Line No: - 033 2241 3079 (Direct), 033 2241 3756 (Ext: 406)

Vishal Francis Gaitano

Senior Manager Placements Email: vishalfrancis@iiswbm.edu Handheld: +91 9748600403 Arindam Mukherjee *Placement Officer* Email: arindammukherjee@iiswbm.edu Handheld: +91 9432538974

Environment Management

Student Placement Coordinators

Energy Management



Abanish Mazumder Contact Number: 8910646431



Manabendra Ghosh Contact Number: 9851725838

Sukanya Dutta Contact Number: 8583972749



Dhruba Majhi Contact Number: 9903593490

Mail Us: pritam@iiswbm.edu/placement22to24@gmail.com IISWBM, Management House, College Square West, Kolkata 700073





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