



# Jalpaiguri Government Engineering College

## ANNUAL REPORT (2022-2023)



**JALPAIGURI GOVERNMENT ENGINEERING COLLEGE**

  
सत्यमेव जयते

**VISION :** To be a provider of globally competitive, high quality technical human resources.

To promote and significantly contribute towards development of technologies and innovations appropriate to sustainable economic growth and enrichment of quality of life.

**MISSION :** To develop itself into an institute of world class reputation and advance knowledge and educate students in the areas of technology

**লক্ষ্য :**

- বিশ্বমানের উচ্চ কারিগরী গুণ সম্পন্ন মানব সম্পদের সরবরাহ।
- উন্নততর প্রযুক্তিপূর্ণ উন্নয়নে উৎসাহদান ও সহযোগিতা এবং নব প্রযুক্তির উদ্ভাবনের মাধ্যমে নিরবচ্ছিন্ন অর্থনৈতিক উন্নতি ও জীবন যাত্রার মানের উন্নয়ন।

**উদ্দেশ্য :**

- বিশ্ব মানব শিক্ষা প্রতিষ্ঠানে উন্নীত হওয়া, জ্ঞানের উৎকর্ষ সাধন এবং কারিগরী শিক্ষা প্রদান।

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### INSTITUTE NEWS

#### Important events...

- MoU signed with Steel authority of India Ltd-BSPL(29.04.2022)
- MoU signed with Dept.of Information Technology & Electronics, Govt. of West-Bengal ,Technology & Electronics (20.05.2022)
- MoU signed with Intershala on 12.07.2022
- MoU signed with University of North Bengal (07.08.2022)
- MoU Signed with NIT Manipur(07.08.2022)
- NSS, JGEC organized campus cleaning drive on 7<sup>th</sup> May,2022
- JGEC received ZEE 24 Ghanta education excellence award on 24<sup>th</sup> June,2022
- Foundation Day & Diamond jubilee celebration of JGEC held on 7<sup>th</sup> August,2022

Zee 24 Ghanta Education excellence award,2022



# INSTITUTE NEWS

## Statutory committee

### Details of Constitution of the BOARD OF GOVERNORS of JGEC, Jalpaiguri

[In terms of Govt. Order No. 456-Edn(T)/5C-06/13 Date:30/10/2013]  
29<sup>th</sup> BOG meeting held on 24<sup>th</sup> November,2022 at 12 Noon

Sl. No.	Number	Category	Name, Address & Contact Number	Status in BOG
1	3 Members one of them to be Chairperson	Educationist	Dr. Om Prakash Mishra, Hon'ble Vice Chancellor, University of North Bengal, Raja Rammohanpur, Dist. Darjeeling, Siliguri 734013, West Bengal, India, Mob. No. 9434715401	Chairperson
		Industrialist	Mr. Subhendu Nandi Director, S. N. Polymer, 32, Saktigarh Colony, Road No. 2, P.O. Siliguri Bazar, Distt. Jalpaiguri, Pin – 734005, Mob. No. 9434046821	Nominated Member
		Professional	Mr. Amitabha Sengupta Retd. Chief Engineer (PWD Electrical) B. 24/13 East Kolkata Township Project Phase-IV, 'ABHYUDOY' Housing, Kolkata – 700107, Mob. No. 9674377582	Nominated Member
2	2 Members	Teachers of the College	Dr. Goutam Bairagi Professor & Head, Civil Engineering Department, JGEC, 9832374797	Member Nominated by the Principal
			Dr. Pradip Kumar Saha Professor, Electrical Engineering Department, JGEC, 9832443022	Member Nominated by the Principal
3	1 Member	Educationist OR Industrialist	Dr. Indrajit Ray, Professor, Econometrics, Department of Commerce University of North Bengal, Raja Rammohanpur, Dist. Darjeeling, Siliguri 734013, West Bengal, India, Mob. No. 9832454993	Member Nominated by the Principal
4	1 Member	UGC Nominee	Dr. Ramesh Kumar Garg, Professor, Dept. of Mechanical Engineering, Deenabandhu Chotu Ram University of Science & Technology	UGC, India Nominated Member
5	1 Member	State Govt. Nominee	Director of Technical Education (DTE), Government of West Bengal, Bikash Bhawan, 10 <sup>th</sup> Floor, Salt Lake City, Kolkata – 700091, West Bengal Mob. No. 9432274376/ 033-23345817	Govt. of West Bengal Nominated Member
6	1 Member	University Nominee	Registrar, West Bengal University of Technology BF – 142, Salt Lake, Sector – I, Kolkata – 700064, West Bengal Mob. No.	Member Nominated by W.B.U.T.
7	1 Member	Principal of the College	Prof. (Dr.) Amitava Ray Principal, Jalpaiguri Govt. Engineering College Jalpaiguri – 735102, West Bengal, Mob. No. 9434500332	Ex-Officio Member Secretary
8		Registrar	Mrs. Sukla Sheet, Registrar, Jalpaiguri Govt. Engineering College Jalpaiguri – 735102, West Bengal, Mob. No. 7501816604	Invitee Member
9			Mrs. Elora Rakshit, Accounts Officer Jalpaiguri Govt. Engineering College Jalpaiguri – 735102, West Bengal, Mob. No. 8900461119	Invitee Member
10			Dr. Goutam Kumar Panda Professor, Electrical Engineering Department, JGEC, Jalpaiguri – 735102, West Bengal, Mob. No. 8944850143	Invitee Member
11			Dr. Sudip Mukherjee, COE and Professor, Mechanical Engineering Department, JGEC, Jalpaiguri – 735102, West Bengal, Mob. no. 9474019924.:	Invitee Member
12			Prof. Subrata Bhattacharya, Associate Professor & Head, Mechanical Engineering Department, JGEC, Jalpaiguri – 735102, West Bengal, Mob. no: 9475201120.:	Invitee Member

# INSTITUTE NEWS

## Academic council meeting

**18<sup>th</sup> Academic Council Meeting held on 08.02.2022 through Google meet at 8.00 pm. (Tuesday) to discuss important issues and transact the views for the academic interest of the Institution.**

Members present:

1. Dr. Amitava Ray, Principal, JGEC & Chairman- Academic Council: Present
2. Dr. Goutam Bairagi, Secretary, Academic Council, Prof. & HOD,CE, Member: Present
3. Dr. Santanu Das Prof. & HOD,EE, Member: Present
4. Dr. Jishan Mehedi, Associate Prof. & HOD, ECE, Member: Present
5. Dr. Susovan Chatterjee, Associate Professor & Head, ME, CGEC, MAKAUT nominee: Present
6. Dr. Goutam Das, Prof. & Head, ECE,CGEC, MAKAUT nominee: Present
7. Prof. Sukhendu Mandal, Assistant Prof., CSE, CGEC,MAKAUT nominee: Present
8. Dr. Pujan Sarkar,Principal, Jalpaiguri Polytechnic Institute.
9. Dr. Arindam Saha, Assistant Professor & Head, Humanities
10. Dr. Swapan Kumar Roy, Associate professor
11. Dr. Pradip Kumar Saha, Prof., EE, Special Invitee: Present
12. Dr. Goutam Kumar Panda, Prof., EE, Special invitee, Present
13. Dr. Subhas Barman, Assistant Professor, Head, CSE., Dy. COE
14. Prof. Chinmoy Ghosh, Assistant Professor, CSE.
15. Prof. Debamita Saha ( Singha), SACT, IT
16. Dr. Sudip Mukherjee, Professor, ME Dept., COE

## IQAC Committee meeting

- IQAC meeting held on 08.04.2022
- IQAC meeting held on 30.05.2022
- IQAC meeting held on 04.07.2022
- IQAC meeting held on 16.01.2023
- IQAC meeting held on 31.03.2023

A meeting of Internal Quality Assurance Cell (IQAC) is scheduled to be held on 4<sup>th</sup> July, 2022 at Conference Hall from 12:15 PM

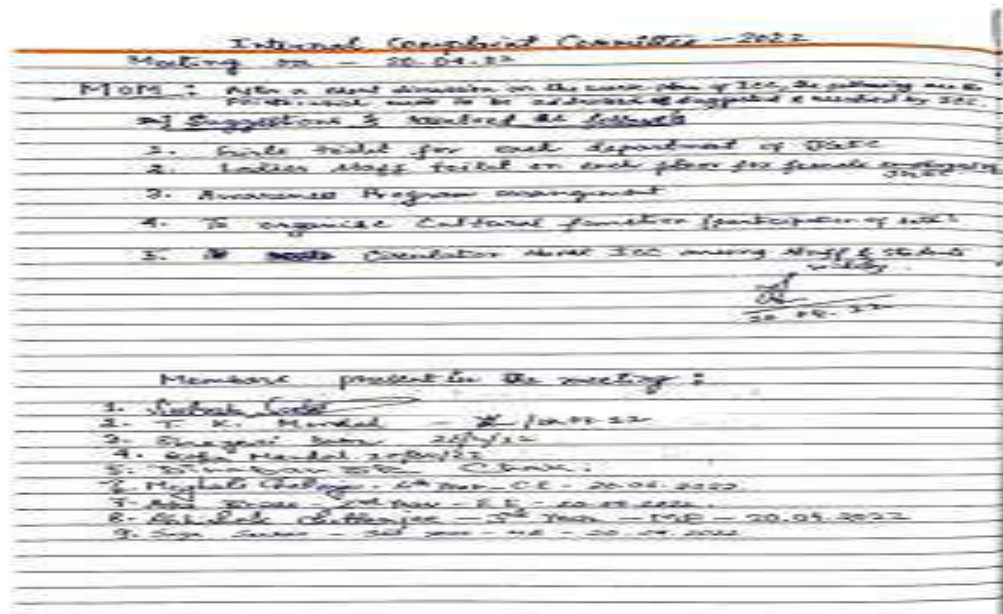
1. Prof. Goutam Das, Professor, ECE Department, Cooch Behar Government Engineering College.
2. Mr. Nirjhar Ghosh, Assistant Engineer, Jalpaiguri (Agri-irrigation) Sub-Division, Water Resources Investigation & Development Department, Govt. of WB.
3. Prof. G. Bairagi, Professor and Head, Civil Engg. Dept., JGEC-Member
4. Prof. G. K. Panda, Professor, EE Dept., JGEC
5. Prof. S.Mitra, Professor and Head, ME
6. Prof. S. Bhattacharya, Associate Professor, ME Dept., JGEC
7. Prof. A.K. Samanta, Assistant Prof. and Head, IT Dept., JGEC
8. Prof. S. Das, Professor and Head, EE Dept., JGEC
9. Prof. S. Barman, Assistant Professor and Head, CSE Dept., JGEC
10. Prof. P.K. Saha, Professor, EE Dept., JGEC, special invitee
11. Prof. N. Mukhopadhyay, Head- T& P, JGEC, special invitee
12. Prof. D. K. Kole, Professor, CSE Dept., GEC, special invitee
13. Prof. Dhiman Mandal, Assistant Professor, CSE Dept., GEC, special invitee
14. Smt. Sukla Sheet, Registrar, JGEC
15. Mr. Sridip Duttgupta, Deputy Registrar, JGEC
16. Mr. U.S. Tamang, Account Officer, JGEC
17. General Secretary, Students Council, JGEC
18. Prof. J. Mehedi, Associate Professor and Head, ECE Dept., JGEC-Coordinator

# INSTITUTE NEWS

## Internal complaint committee (ICC)

1. Prof. Tapati Kana Mondal, Assistant Professor, Dept. of EE Presiding Officer
2. Prof. Shrayasi Datta, Assistant Professor, Dept. of IT, Member
3. Prof. Rakhi Roy Ghosh, Assistant Professor, Dept. of ECE, Member
4. Prof. Gopa Mandal, Dept. of CSE, Member
5. Mr. Dinabandhu Chaki, Caretaker, Member
6. Mr. Subrata Sarkar, Executive Secretary, Red cross, Member
7. Srima Sarkar, Reg. No. 19101103048, Batch: 2019-2023, Dept. of ME, Member
8. Meghali Chatterjee, Reg. No. 181010110248, Batch: 2018-2022, Dept. of CE, Member
9. Abhishek Chatterjee, Reg. No. 19101103006, Batch: 2019-2023, Dept. of ME, Member
10. Arka Biswas, Reg. No. 201010101610041, Batch: 2020-2024m Dept. of EE, Invitee member

## ICC Committee meeting




# INSTITUTE NEWS

## Induction program-2022

DATE	ACTIVITY	Events
2/11/22	<ul style="list-style-type: none"> <li>INAUGURATION</li> <li>INTERACTION WITH PARENTS &amp; STUDENTS</li> </ul>	11:00 AM- 11:30 AM  11:30 AM- 1:30 PM
3/11/22	<ul style="list-style-type: none"> <li>YOGA</li> <li>COLLEGE VISIT</li> <li>DEPT. VISIT &amp; INTERACTION WITH TEACHERS</li> <li>CULTURAL ACTIVITY</li> <li>GAMES</li> </ul>	 6:30 AM- 7:30 AM 11:00 AM-11:45 AM 11:45 AM-12:45 PM 1:45 PM-3:45PM 3:45 PM-5:15PM
4/11/22	<ul style="list-style-type: none"> <li>YOGA</li> <li>WHAT INDUSTRY WANTS FROM AN ENGINEER</li> <li>HIGHLIGHTS OF DIFFERENT EXTRA CURRICULAR ACTIVITIES (PART 1)</li> <li>GAMES</li> </ul>	6:30 AM-7:30AM 11:00 AM-12:00 PM 1:00 PM-3:30 PM 3:45 PM-5:15 PM
5/11/22	<ul style="list-style-type: none"> <li>YOGA</li> <li>ALUMNI PROGRAM</li> <li>HIGHLIGHTS OF EXTRA CURRICULAR ACTIVITIES (PART 2)</li> <li>GAMES</li> </ul>	 6:30 AM-7:30 AM 10:00 AM- 11:30 AM 1:00 PM- 3:30 PM 3:45 PM-5:15 PM
6/11/22	SUNDAY	
7/11/22	<ul style="list-style-type: none"> <li>YOGA</li> <li>FACTORY VISIT</li> </ul>	 6:30 AM-7:30AM 10:00 AM-5:00 PM
8/11/22	HOLIDAY	
9/11/22	<ul style="list-style-type: none"> <li>YOGA</li> <li>LECTURE</li> <li>ACADEMIC RULES</li> <li>CULTURAL ACTIVITY</li> <li>GAMES</li> </ul>	6:30AM-7:30 AM 10:00 AM-11:00 AM 11:00 AM-12:00 PM 1:30 PM-3:30PM 3:45 PM-5:15 PM
10/11/22	<ul style="list-style-type: none"> <li>YOGA</li> <li>MAR,MOOCS etc</li> <li>LECTURE ON ADVENTUROUS SPORTS</li> <li>SELF DEFENCE WORKSHOP</li> <li>GAMES</li> </ul>	6:30 AM-7:30AM 10:00 AM-11:00 PM 11:00 AM-12:00 PM 1:30 PM – 3:30 PM 3:45 PM-5:15 PM
11/11/22	<ul style="list-style-type: none"> <li>CYBER SECURITY</li> <li>VALUE EDUCATION</li> <li>MUSEUM VISIT(EE,CSE,ECE)</li> <li>GAMES</li> </ul>	10:00AM-11:00AM 11:15AM-12:15PM 1:30 PM- 3:30PM 3:45 PM-5:15PM

# INSTITUTE NEWS

## Induction program-2022

12/11/22	<ul style="list-style-type: none"><li>• YOGA</li><li>• MUSEUM(CE,ME,IT)</li><li>• MOCK DRILL BY FIRE SERVICE &amp; CIVIL DEFENCE</li></ul> GAMES	6:30 AM-7:30 AM 9:30 AM-11:30 AM 1:00 PM-3:30 PM  3:45 PM-5:30 PM
13/11/22	<ul style="list-style-type: none"><li>• SUNDAY</li></ul>	
14/11/22	<ul style="list-style-type: none"><li>• YOGA</li><li>• CLASS AS PER ROUTINE</li><li>• LECTURE FROM R.K MISSION</li><li>• GAMES</li></ul>	6:30 AM-7:30AM 9:00AM-1:00PM 2:30PM-3:30PM 3:45PM-5:30PM
15/11/22 16/11/22 17/11/22	<ul style="list-style-type: none"><li>• YOGA</li><li>• REGULAR CLASS</li><li>• HEALTHFULNESS OF BODY &amp; MIND</li><li>• GAMES</li></ul>	6:30AM-7:30AM 9:00AM-1:00PM 2:00PM-3:30PM 3:30PM-5:15PM
18/11/22	<ul style="list-style-type: none"><li>• YOGA</li><li>• REGULAR CLASS</li><li>•</li><li>• GAMES</li></ul>	6:30AM-7:30AM 9:00AM-1:00PM 2:30PM-3:30PM 3:45PM-5:15PM
19/11/22	CONCLUDING SESSION	11:00AM-1:00PM 

## Publications in Journals

1. Swalpa Kumar Roy, Purbayan Kar, Danfeng Hong, Xin Wu, Antonio Plaza, and Jocelyn Chanussot. "Revisiting deep hyperspectral feature extraction networks via gradient centralized convolution." *IEEE Transactions on Geoscience and Remote Sensing* 60: 1-19 (2022), DOI: 10.1109/TGRS.2021.3120198.
2. Ahmad, Muhammad, Sidrah Shabbir, Swalpa Kumar Roy, Danfeng Hong, Xin Wu, Jing Yao, Adil Mehmood Khan, Manuel Mazzara, Salvatori Distefano, and Jocelyn Chanussot. "Hyperspectral Image Classification-Traditional to Deep Models: A Survey for Future Prospects." *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* 15: 968 - 999 (2022), DOI: 10.1109/JSTARS.2021.3133021.
3. Swalpa Kumar Roy, Danfeng Hong, Purbayan Kar, Xin Wu, Xun Liu, and Di Zhao. "Lightweight heterogeneous kernel convolution for hyperspectral image classification with noisy labels." *IEEE Geoscience and Remote Sensing Letters* 19: 1-5 (2022), DOI: 10.1109/LGRS.2021.3112755.
4. Mercedes Paoletti, Juan Mario Haut, Tayeb Alipourfard, Swalpa Kumar Roy, Eligius M. T. Hendrix, Antonio Plaza: Separable Attention Network in Single- and Mixed-Precision Floating Point for Land-Cover Classification of Remote Sensing Images. *IEEE Geoscience and Remote Sensing Letters* 19: 1-5 (2022), DOI: 10.1109/LGRS.2021.3108965.
5. Swalpa Kumar Roy, Juan M. Haut, Mercedes E. Paoletti, Shiv Ram Dubey, and Antonio Plaza. "Generative Adversarial Minority Oversampling for Spectral–Spatial Hyperspectral Image Classification." *IEEE Transactions on Geoscience and Remote Sensing* 60: 1-15 (2022), DOI: 10.1109/TGRS.2021.3052048.
6. Poulomi Samanta, Dhruvasish Sarkar, Premananda Jana, Dipak K. Kole, Chapter 8 - A study on behavior analysis in social network, Editor(s): Sourav De, Sandip Dey, Siddhartha Bhattacharyya, Surbhi Bhatia, In *Hybrid Computational Intelligence for Pattern Analysis, Advanced Data Mining Tools and Methods for Social Computing*, Academic Press, 2022, Pages 147-161, ISBN 9780323857086, <https://doi.org/10.1016/B978-0-32-385708-6.00015-1>.
7. Dutta, Suchandra, Sohom Roy, Dhruvasish Sarkar, and Dipak K. Kole. "Application of Social Networks and Data Mining on Crime Victims." In *Proceedings of International Conference on Advanced Computing Applications*, pp. 693-703. Springer, Singapore, 2022.
8. Dutta, Suchandra, Dhruvasish Sarkar, Premananda Jana, and Dipak K. Kole. "Healthcare Technology for Reducing the Risk and the Spread of COVID-19 Pandemic and Other Epidemics." In *Healthcare Informatics for Fighting COVID-19 and Future Epidemics*, pp. 365-383. Springer, Cham, 2022.
9. Barman, Subhas, Samiran Chattopadhyay, Debasis Samanta, and Sayantani Barman. "A blockchain-based approach to secure electronic health records using fuzzy commitment scheme." *Security and Privacy*: e231.
10. Banerjee, A., Ghosh, C. & Mandal, S.N. Analysis of V-Net Architecture for Iris Segmentation in Unconstrained Scenarios. *SN COMPUT. SCI.* 3, 208 (2022). <https://doi.org/10.1007/s42979-022-01113-0>
11. Jhuma Dutta, Subhas Barman, Rathit Bandyopadhyay and Moumita Ghosh. Lightweight Authentication Protocol for E-Healthcare Systems using Fuzzy Commitment Scheme, *International Conference on Emerging Applications of Information Technology*, 2022, India

12. Sutapa Bhattacharya, Dhruvasish Sarkar, Dipak K. Kole, Premananda Jana, Chapter 9 - Recent trends in recommendation systems and sentiment analysis, Editor(s): Sourav De, Sandip Dey, Siddhartha Bhattacharyya, Surbhi Bhatia, In Hybrid Computational Intelligence for Pattern Analysis, Advanced Data Mining Tools and Methods for Social Computing, Academic Press, 2022, Pages 163-175, ISBN 9780323857086, <https://doi.org/10.1016/B978-0-32-385708-6.00016-3>.

13. Banerjee, A., **Ghosh, C.** & Mandal, S.N. "Analysis of V-Net Architecture for Iris Segmentation in Unconstrained Scenarios". *SN COMPUTER SCIENCE*. **3**, 208 (2022).

14. Suhrid Das, Shankha Shubhra Mukherjee and Sudip Mandal. Application of Chaotic Neural Network in Cryptography. *International Journal of Computer Applications* 184(13):60-64, May 2022. DOI: 10.5120/ijca2022922133, ISSN: 0975 – 8887.

15. Kausar Fatima, Bikranta Sarkar, Suhrid Das, Shankha Shubhra Mukherjee, Sudip Mandal, Mirwaiz Rahaman," Development of Web Application for Virtual Laboratory", *International Journal for Science and Advance Research In Technology*, vol. 8, Issue 5, pp. 751-758, 2022. [ISSN [Online] : 2395-1052, DOP: 26/05/2022].

16. S. Roychoudhuri, B. G. Sain, S. Sarkar, and S. Das, "Validation of a Mathematical Model of 3-phase Induction Motor for Stator-winding Fault Diagnosis ", in Proc. IEEE IAS GlobConET, Arad, Romania, May 2022.

17. Ujjal Dey, Moni Chandra, Santanu Das, "Insulator Contamination Diagnosis using Unsupervised Machine Learning", 2022 3rd International Conference for Emerging Technology (INCET); DOI: 10.1109/INCET54531; 27-29 May 2022. <https://ieeexplore.ieee.org/xpl/conhome/9823393/proceeding>

18. **Naim Hussain**, Energy, Elsevier (ISSN: 0360-5442), Effect of axially varying heat flux on thermo-hydraulic characteristics and circulation ratio of riser tubes of natural circulation boiler. (Volume 244, Part B, 1 April 2022, 123158)

19. **Naim Hussain**, Applied Thermal Engineering (ATE), Elsevier (ISSN: 1359-4311), Integrated thermal modeling, analysis, and sequential design of heat exchanger surfaces of a natural circulation RDF boiler including evaporator tubes. (Volume 211, 5 July 2022, 118455)

20. A.Saha, A. Chandra, S. Dey, S. Ghose and B. C. Paul, **Reny i Holographic dark energy models in multidimensional universe**, *International Journal of Geometric Methods in Modern Physics*, Vol. 19 No. 3 (2022) 2250043, DOI: 10.1142/S0219887822500438

21. A C. Paul, B. C. Roy, A. Saha, **Bianchi-I anisotropic universe with Barrow holographic dark energy**, *The European Physical Journal C*, (2022) 82:76, DOI: <https://doi.org/10.1140/epjc/s10052-022-10041-5>



## Publications in conferences

1. Dipak Kumar Kole is associated with International Conference on Data, Electronics, Computing (ICDEC 2022) as Finance Chair.
2. Subhas Barman is associated with International Conference on Data, Electronics, Computing (ICDEC 2022) as Track Chair.
3. Subhas Barman acted as Session Chair-cum judge in the International Conference on Emerging Applications of Information Technology, EAIT 2022, CSI Kolkata, India.
4. Jhuma Dutta presented a paper in the International Conference on Emerging Applications of Information Technology, EAIT 2022, India.
5. Subhas Barman has served as the technical program committee member of IWCMC 2022 e-Health Symposium (IWCMC 2022: e-Health Symposium), Dubrovnik, Croatia.
6. Chinmoy Ghosh has served as the TPC member in CVMI 2022.
7. Chinmoy Ghosh attended *3-day Workshop for Enhancing Capacity of Higher Education Teachers January 7 - 9, 2022* Centre for Internal Quality Assurance (CIQA), Netaji Subhas Open University in collaboration with Commonwealth of Learning - Commonwealth Educational
8. Md Amir Sohail, **Chinmoy Ghosh**, Satyendranath Mondal, Maruf Mallick, “**Specular Reflection Removal Techniques for Noisy and Non-Ideal Iris Images: Two New Approaches**”, Proceedings of International Conference on Frontiers in Computing and Systems: **COMSYS-2021**, Lecture Notes in Networks and Systems, Springer, Vol 404, pp 277-289, 2022.
9. Debojit Roy, Suprit Bag, **Soupayan Mitra**, “A SWOT Analysis approaches to implementation of Renewable Energy applications in West Bengal”. Published at 2<sup>nd</sup> International Conference on ‘Thermal Engineering and Management Advances’ (ICTEMA-2022), 15-16 January’2022. Organized by Mechanical Engineering Department of Jalpaiguri Government Engineering College, West Bengal, India. Paper published in Conference Proceedings Book (in Page: 177-186) under the Title ‘Advances in Mechanical Engineering, Selected Proceedings of ICTEMA-2022’ and Published online by: NOLEGEIN, an imprint of consortium E-learning Network Pvt. Ltd., Noida, UP, India. ISBN: 978-81-952903-6-9.
10. **Dr. Soupayan Mitra** attended IP Awareness/Training Program under National Intellectual Property Awareness Mission, Govt. of India on 21<sup>st</sup> April’2022 and this was organized via online mode by Intellectual Property Office, India
11. Mohata, **Dr.N.Mukhopadhyay** “Selection of Industrial Arc Welding Robot using Integrated PIPRECIA-TOPSIS Model”, 2nd International Conference on Thermal Engineering & Management Advances ICTEMA2022, , held at Jalpaiguri Government Engineering College, India, organised by JGEC Department of Mechanical Engineering, 15-16, January,2022.
12. A. Mohata, **Dr.N.Mukhopadhyay**, “SWARA-CoCoSo based tool selection of an Electrical Discharge Machining Process”, 2nd International Conference on Thermal Engineering & Management Advances ICTEMA2022, , held at Jalpaiguri Government Engineering College, India, organised by JGEC Department of Mechanical Engineering, 15-16, January,2022.
13. M.Roy, **Dr.N.Mukhopadhyay**, “Applications of Multiple Criteria Decision Making Tools for the Selection of electric vehicle”, International Conference on Sustainable Materials, Manufacturing & Industrial Engineering-ICSMMIE-2022, , Tumkur, Karnataka, India, 1<sup>ST</sup> – 2<sup>ND</sup> OF July, 2022.

## Invited talk

1. Subhas Barman delivered a lecture (as invited speaker) on “Multi Factor Based Authentication System for User Verification” at the lecture meeting organized by The Institution of Engineers (India) on 10<sup>th</sup> January, 2022.
2. Dipak Kumar Kole delivered a lecture in the 3-Day Online Workshop on LaTeX for Technical Writing (11<sup>th</sup> to 13<sup>th</sup> January 2022) organized by Computer Science & Engineering Department, JGEC.
3. Dhiman Mondal delivered two lectures in the 3-Day Online Workshop on LaTeX for Technical Writing (11<sup>th</sup> to 13<sup>th</sup> January 2022) organized by Computer Science & Engineering Department, JGEC.
4. Subhas Barman delivered a lecture in the 3-Day Online Workshop on LaTeX for Technical Writing (11<sup>th</sup> to 13<sup>th</sup> January 2022) organized by Computer Science & Engineering Department, JGEC.
5. Swalpa Kumar Roy delivered a lecture in the 3-Day Online Workshop on LaTeX for Technical Writing (11<sup>th</sup> to 13<sup>th</sup> January 2022) organized by Computer Science & Engineering Department, JGEC.
6. Sudip Mandal, delivered a lecture on for Two days National Level Online Workshop on “Engineering and Scientific Computation Using MATLAB” on 10-11th March, 2022 at ECE Dept., Jalpaiguri Govt. Engineering College.
7. Swagata Mandal, delivered a lecture for Two days National Level Online Workshop on “Engineering and Scientific Computation Using MATLAB” on 10-11th March, 2022 at ECE Dept., Jalpaiguri Govt. Engineering College.
8. Alokesh Mondal, delivered a lecture on for Two days National Level Online Workshop on “Engineering and Scientific Computation Using MATLAB” on 10-11th March, 2022 at ECE Dept., Jalpaiguri Govt. Engineering College.
9. N.Mukhopadhyay, INVITED LECTURE ON COLD STORAGE : EXISTING PRACTICES VS MODERN APPLICATIONS, Government of West Bengal, Office of the Assistant Director of Agricultural Marketing (Training & Canning), Alipurduar, Memo no- 83/ADAM/APD Dated a 04-03-2022
10. Amitava Ray, “Selection of Materials using Multi-Criteria Decision-Making (MCDM) Approach”

## **INSTITUTE NEWS**

### **FDP/ Orientation/Refresher Programme**

1. Animesh Hazra and Swalpa Kumar Roy have successfully completed the AICTE-ISTE approved One Week Online Orientation/Refresher Programme on "**Emerging Trends, Issues and Challenges in Machine Learning and Big Data**" held during 05.01.2022 to 11.01.2022 organized by Institute of Engineering & Management, Jaipur, Rajasthan.
2. Chinmoy Ghosh, Subhas Barman participated in the 3-day Workshop for Enhancing Capacity of Higher Education Teachers organized by the Centre for Internal Quality Assurance (CIQA), Netaji Subhas Open University in collaboration with Commonwealth of Learning - Commonwealth Educational Media Centre for Asia (COL-CEMCA) during January 7 - 9, 2022.
3. Dr. Sudip Mandal, 1 month online 8th Faculty Induction Program (FIP) from 13/06/2022 to 13/07/2022 organized by UGC-HRDC and Jadavpur University, Kolkata.
4. Dr. Swagata Mandal, 2 Weeks online Refreshers Course in Advances in Nano-Science and Nano-Technology from 26/12/2021 to 09/11/2021 organized by UGC-HRDC and University of Burdwan.
5. Dr. Swagata Mandal, 1 month online 8th Faculty Induction Program (FIP) from 13/06/2022 to 13/07/2022 organized by UGC-HRDC and Jadavpur University, Kolkata.
6. Alokesh Mondal, 1 month online 8th Faculty Induction Program (FIP) from 13/06/2022 to 13/07/2022 organized by UGC-HRDC and Jadavpur University, Kolkata.

### **SPONSORED RESEARCH PROJECT**

1. Amitava Ray/Madhab Chandra Mandal, Green supply chain performance measurement: a comparative study of manufacturing organizations in West-Bengal, Project cost: 14.3 Lakhs, Sponsored by Department of Science & Technology and Biotechnology, West Bengal, Project duration: Three years, Ongoing,
2. Amitava Ray, Skill and Personality development program centre for SC/ST student, Sponsored by AICTE, Project cost: Rs.12.36 Lakhs, Ongoing, Duration: Three years
3. Prof.(Dr.) Soupayan Mitra/ Prof. Asim Mahapatra, Project Title : Inventorization of Plastic Product Manufacturers, Recyclers, Users and Collectors in the Districts of North Bengal. Sponsored by : SUDA (State Urban Development Agency), Government of West Bengal. Order no. : SUDA-15014(17)/28/2022-ENGG SEC(SUDA)- SUDA/ 10379, dated: 13/05/2022. Project duration : 7 months. Project cost : Rs 13.99 lakh only.

# INSTITUTE NEWS

## ACADEMIC SYSTEM

1. B.Tech. in Civil Engineering
2. B.Tech. in Electrical Engineering
3. B.Tech. in Mechanical Engineering
4. B.Tech. in Computer Science & Engineering
5. B.Tech. in Electronics & Communication Engineering
6. B.Tech. in Information Technology

(i) M. Tech. in Mechanical Engineering (Production Technique & Management)

(ii) M. Tech. in Electrical Engineering (Power Electronics & Drives) from academic session of 2010-11.

MoU signed with University of North Benaal on 07.08.2022



Inauguration of science & Technology museum on 07.08.2022



Workshop held on 03.08.2022, Dept. of CSE



Visit to Sc& Tech Museum



## INSTITUTE NEWS

### Seminars/ Workshops/ Conferences Organized

1. Dr. Sudip Mandal Technical Program Committee member of The 11th International Advanced Computing Conference IACC on 18th and 19th December 2021 in an offline/online event at University of Malta, Malta

2. Dr. Sudip Mandal Coordinator of Two days National Level Online Workshop on “Engineering and Scientific Computation Using MATLAB”-2022, held at JGEC

3. Dr. Swagata Mandal Coordinator of Two days National Level Online Workshop on “Engineering and Scientific Computation Using MATLAB”-2022, held at JGEC

4. Dr. Sudip Mandal NAAC sponsored two day state level workshop “The Use of ICT enabled tools for Teaching, Learning and Evaluation in Higher Education Institutions” May 07-08, 2022, Organized by Internal Quality Assurance Cell (IQAC) Durgapur Government College

5. Shubhasish Sarkar, IP Awareness/Training program under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION on April 21, 2022.

### GATE 2022 SCORE Details from CSE Dept

Name	GATE Score	Marks	AIR
SOUMYA BHATTACHARJEE (18-22)	745	55	369
DEBARPAN JANA(18-22)	644	47.33	974
SUBHAJIT DUTTA (18-22)	455	33	4385
JAYJEET GANGULY (18-22)	429	31	5355
RAJA LAHA (19-23)	468	34	3933
ANURAG CHAURASIA (19-23)	403	29	6553
SNEHASISH SAMANTA (19-23)	473	34.33	3805
SAYAN CHOWDHURY (19-23)	394	28.33	6988

### Awards

Name	Event	Position
Ankur Deria (2018-22)	INAE student fellowship program 2022-2023	
SYED MODASSIR ALI (2019-23)	Ground Zero Hackathon- West Bengal Cyber Challenge 2022 organized by Cyber Security Centre of Excellence, West Bengal & ISOEH on 24 <sup>th</sup> March 2022	Winner
SYED MODASSIR ALI (2019-23)	Ground Zero Hackathon 2022 organized by ISOEH, JGEC VigyanPrasar and Cyber Security Centre of Excellence, West Bengal on 23 <sup>rd</sup> February 2022.	1 <sup>st</sup>

# INSTITUTE NEWS

## M.Tech projects-EE

Sl. No.	Name of the Scholar	Name of the Supervisor(s)	Title of the Thesis
1.	ROSHAN PARIYAR	Prof.(Dr.) Pradip Kumar Saha	Modelling, Simulation & Comparison of various FACTS devices
2.	MONI CHANDRA	Prof UjjalDey	Insulator contamination diagnosis using unsupervised machine learning
3.	MD KAMIULHOQUE	Prof. (Dr.) Santanu Das	Machine learning aided Induction Motor stator winding minor fault detection employing statistical features.
4.	KOUSHIK JANA	Dr. SubrataMajumdar	Compensation of Transmission line With Hybrid FACTS Devices (STATCOM-FC) using Simulink.
5.	RITUKA RAJ	Prof. Shubhasish Sarkar	Development of a stator winding fault diagnosis scheme using FFT & validating through a mathematical model
6.	ROSHAN KUMAR	Prof. Sk Mafizul Islam	Implementation of fuzzy logic controller based D-STATCOM for power quality enhancement in distribution systems
7.	SUVENDU NANDI	Prof. Tapati Kana Mondal (Biswas)	A Comprehensive Review On Smart Meter Design AndDevelopment.
8.	PAPAI SHEE	Prof. (Dr.) Santanu Das & Prof(Dr.) G.K. Panda	Statistical Features Based Selection Of Machine Learning Algorithms For IM Stator Winding Minor Fault Identification
9.	SK TASLIM HOQUE	Prof. (Dr.) Santanu Das & Prof.(Dr.) P. K. Saha	Implementation of statistical feature based & machine learning aided Induction Motor fault detection methodology.

## LIST OF COMPLETED B.Tech PROJECTS-EE

1. Modelling and performance analysis of an electric vehicle with a proprietary software
2. Power factor improvement using facts devices
3. A novel scheme of reactive power compensation of synchronous motor using Single switch MERS device
4. Speed control of dc motor using pulse width modulation
5. Modeling and simulation of various facts devices in power system for stability enhancement and improvement of power flow.
6. Economic load dispatch
7. On road safety system for visually challenged person
8. Design of non conventional power system
9. Sensor less speed control of BLDC motor drive simulation
10. ZSI fed multilevel inverter MATLAB drive simulation
11. A brief review on control strategies of voltage and frequency of grid tied pv system
12. Diagnosis Of Power Quality Events Based On Detrended Fluctuation Analysis
13. Analysis of induction motor faults using MATLAB simulink
14. Design of non-conventional power system
15. Wireless power transmission for charging of electric vehicles

# INSTITUTE NEWS

## M.Tech projects-ME

Sl. No	Name of the Scholar	Name of the Supervisor(s)	Title of the Thesis
1.	NRIPEN ROY	Amitava Ray	Investigation of Sustainable Practices of Manufacturing Organization: A Comparative Study
2.	Syed Badruddoza	Prof. Asim Mahapatra	Optimization of cooling water consumption in thermal power plant
3.	Sameer Kumar Anand	Soupayan Mitra	Applications of Multi Criteria Decision Making Methods in Various Engineering Fields (awarded in August'2021)
4.	Debojit Roy	Soupayan Mitra	Decision making and Case studies in engineering applications by using various Multi Criteria Decision Making (MCDM) methods (ongoing thesis and to be completed by August'2022. Title may be suitably modified before final submission.)
5.	ABHISHEK MOHATA	NIMAI MUKHOPADHYAY	" Study of Application of Multiple Criteria Decision-Making Tools in Production Technology and Management Areas", Submitted by ABHISHEK MOHATA, REGISTRATION NO-22281 OF 2019-2020, 2021
6.	Dipanjan Dey	Md Naim Hossain	Design and Analysis of Femoral Knee Prosthesis Casting Used in Knee Joint Replacement Surgery
7.	Golam Rasul Mondal	Md Naim Hossain	Numerical Analysis of Flow Condensation Inside a Horizontal Tube
8.	Kishanu Ghosh	Md Naim Hossain	Numerical study of Flow Condensation Inside Vertical Pipes

## Placement Stats 2022

Company	No. of Students Placed
Amazon	15
Hackerearth	2
Goldmann Sachs	2
Economize.Cloud	1
GeeksforGeeks	2
Origin Health	1
Rinex Technologies Pvt. Ltd.	10
Seamless Distribution Systems	7
Blitzllama	1
Accolite Digital	3
Infosys	25
AttainU	1
Sony Research India	1
Sequoia Capital	1
Hyperverge	1
Josh Technology	1
Juspay	2
Kreeti Technologies	1
Mitsogo	4
Hexaware	1
<a href="#">Media.net</a>	1
Yellow Messenger	2
CTS	87
TCS	35
Shapoorji Pallonji	5
Larsen & Toubro	6
Wills Towers Watson	6
Microsoft	1
Urban Ladder	1
WIPRO	18
High-TechNext Engineering and Telecom pvt. LMT.	30
<a href="#">Netmeds.com</a>	5
CloudKaptan	2
Rakuten	4
Synoriq	2
Capgemini	8
Think Future Technologies	1
Rudderstack	1
Taroverse	1
Tata Power	5
Pickrr	1
AlphaGrep	1
RPSG Ventures Limited	2
Ericsson	35
Worley	4
Coda Payments	1



# INSTITUTE NEWS

## Utilization certificates(Students program)

### FORM OF UTILIZATION CERTIFICATE

SL NO	SOURCE OF FUND	AMOUNT	REMARKS
1.	Social Fund	9,94,000/-	Drawn from College
2.	Students Union	7,80,000/-	Drawn From Students Union Account
3.	Collections From Different Sources as Donations	1,36,000/-	-
4.	Sponsorship	75,000/-	-
5.	Total	20,05,000/-	-

1. Certified that out of Rs. 20,05,000/(Rupees Twenty Lakh Five Thousand) only, drawn from college and different sources as mentioned in the table shown in the left alignment, an amount of Rs. 20,05,000/-(Rupees Twenty Lakh Five Thousand) only has been utilized fully for arrangement of the Collegiate Annual Social & Cultural Fest – JECLAT 2023 during Financial Year 2022-23 in Jalpaiguri Government Engineering College, conducted by the JECLAT Committee, 2023.

2. Certified that we have satisfied ourselves that the

conditions on which the fund was sanctioned have been duly fulfilled and that we have exercised the following checks to see the fund was actually utilized for the purpose for which it was sanctioned.

#### Kinds of Check Exercised

1. Bill & relevant Vouchers
2. Contract papers of Artists

Subhasish Koley  
Subhasish Koley  
4<sup>th</sup> year, EE dept  
Chief Coordinator



Aesam Ahmad Alam  
Aesam Ahmad Alam  
4<sup>th</sup> year, CSE dept  
Chief Coordinator

For D K Choudhury & Associates  
Chartered Accountants  
FRN : 332110E  
  
(Dhruj Kumar Choudhury)  
Proprietor  
Membership No. 313594

# INSTITUTE NEWS

## Utilization certificates(Students program)

Receipts and Payments Accounts JECLAT 2023				
SL NO	SOURCE OF FUND	AMOUNT	EXPENDITURE DETAILS	AMOUNT
1.	Social Fund	9,94,000/-	ARTIST+TRAVEL+FOODING+LODGING	9,23,000/-
2.	Students Union	7,80,000/-	PRODUCTION	3,50,000/-
3.	Collections From Different Sources as Donations	1,56,000/-	COLLEGE DECORATION + PANDEL+LIGHT+SOUND	6,70,000/-
4.	Sponsorship	75,000/-	MISCELLANEOUS	60,000/-
5.	Total	20,05,000/-	Total	20,05,000/-

Subhasish Koley  
Subhasish Koley  
4<sup>th</sup> year , EE dept  
Chief Coordinator



Aesam Ahmad Alam  
Aesam Ahmad Alam  
4<sup>th</sup> year , CSE dept  
Chief Coordinator

For D K Choudhury & Associates  
Chartered Accountants  
FRN : 332110E



(Dhiraj Kumar Choudhury)  
Proprietor  
Membership No. 313594

# INSTITUTE NEWS

## JECLAT

# EVENT CALENDAR JECLAT 2023



<b>1</b> DAY 25 MAR	<b>05:00PM - 06:00PM</b> <b>Inauguration</b> Coordinator: Subhasit Sanyal +91 9830230073 Aashiq Ahmad Khan +91 9830230080	<b>06:00PM - 07:30PM</b> <b>Jyoti &amp; Others</b> Coordinator: Dhruvendra Chahal +91 9830230073 Gyari Bhasuvar +91 9830230077	<b>07:30PM - 08:00PM</b> <b>Band Performance</b> Coordinator: Ayush Tamang +91 9830230088 N/A	<b>08:00PM - 10:00PM</b> <b>Roadies Interview</b> Judge: Shreyan Das +91 9830230073 Siboravi Mahata +91 9830230073		
<b>2</b> DAY 26 MAR	<b>11:00AM - 04:00PM</b> <b>Wall Painting</b> Coordinator: Naveen Ghosh +91 9830230087 Aditya Gayen +91 9830230080	<b>05:00PM - 06:00PM</b> <b>Mock Auction Prelims</b> Coordinator: Aditya Mondal +91 9830230073 Kunal Kumar Gupta +91 9830230080	<b>05:00PM - 07:30PM</b> <b>Antakshari Prelims</b> Coordinator: Megha Majumdar +91 9830230073 Shubham Gupta +91 9830230080	<b>08:00PM - 09:00PM</b> <b>Open Mic</b> Coordinator: Pranabik Mukherjee +91 9830230073 Shreyan Ghatac +91 9830230073	<b>09:00PM - 10:00PM</b> <b>Mock Auction finale</b> Coordinator: Aditya Mondal +91 9830230073 Kunal Kumar Gupta +91 9830230080	
<b>3</b> DAY 27 MAR	<b>02:00PM - 04:00PM</b> <b>Treasure Hunt Prelims</b> Coordinator: Naveen Kumar Jha +91 9830230087 Souvik Mondal +91 9830230080	<b>04:00PM - 05:00PM</b> <b>T-Shirt Painting</b> Coordinator: Binit Ray +91 9830230073 Naveen Ghosh +91 9830230087	<b>05:00PM - 06:00PM</b> <b>Pen Year Love</b> Coordinator: Anshu Choudhary +91 9830230073 Rishabh Mishra +91 9830230080	<b>06:00PM - 08:00PM</b> <b>Made for Each Other</b> Coordinator: Shreshth Kumar Mishra +91 9830230073 Shreyan Das +91 9830230073	<b>08:00PM - 10:00PM</b> <b>Malle Prelims</b> Coordinator: Anurag Choudhary +91 9830230073 Aashiq Ahmad Khan +91 9830230080	
<b>4</b> DAY 28 MAR	<b>02:00PM - 05:00PM</b> <b>Treasure Hunt</b> Coordinator: Naveen Kumar Jha +91 9830230087 Souvik Mondal +91 9830230080	<b>03:00PM - 05:00PM</b> <b>Roadies</b> Judge: Shreyan Das +91 9830230073 Siboravi Mahata +91 9830230073	<b>05:00PM - 06:00PM</b> <b>Debate Competition</b> Coordinator: Sudipta Bhattacharya +91 9830230073 Gaurav Kumar +91 9830230080	<b>06:00PM - 07:30PM</b> <b>Malle Finale</b> Coordinator: Anurag Choudhary +91 9830230073 Aashiq Ahmad Khan +91 9830230080	<b>07:30PM - 08:30PM</b> <b>J-Factor</b> Coordinator: Shreshth Kumar Mishra +91 9830230073 Aditya Gupta +91 9830230073 Binit Ray +91 9830230073	<b>08:00PM - 10:00PM</b> <b>From Night</b> Dance off Days Ready for the Dance Party
<b>5</b> DAY 29 MAR	<b>02:00PM - 05:00PM</b> <b>Treasure Hunt</b> Coordinator: Naveen Kumar Jha +91 9830230087 Souvik Mondal +91 9830230080	<b>03:00PM - 05:00PM</b> <b>Roadies</b> Judge: Shreyan Das +91 9830230073 Siboravi Mahata +91 9830230073	<b>05:00PM - 06:00PM</b> <b>Recognition 4.0</b> Coordinator: Anushab Sarkar +91 9830230073 Maitish Das +91 9830230080	<b>06:00PM - 08:00PM</b> <b>Antakshari Finale</b> Coordinator: Megha Majumdar +91 9830230073 Shubham Gupta +91 9830230080	<b>08:00PM - 10:00PM</b> <b>Fashion Show</b> Coordinator: Sakshi Sarkar +91 9830230073 Gyari Bhasuvar +91 9830230077 Binit Ray +91 9830230073 Aditya Gayen +91 9830230080	
<b>6</b> DAY 30 MAR	<b>02:00PM - 05:00PM</b> <b>Treasure Hunt</b> Coordinator: Naveen Kumar Jha +91 9830230087 Souvik Mondal +91 9830230080	<b>03:00PM - 05:00PM</b> <b>Roadies</b> Judge: Shreyan Das +91 9830230073 Siboravi Mahata +91 9830230073	<b>05:00PM - 06:00PM</b> <b>Clairvoyance 4.0</b> Coordinator: Anushab Sarkar +91 9830230073 Maitish Das +91 9830230080	<b>07:00PM - 09:00PM</b> <b>Jepiya (Dramat)</b> Coordinator: Anshu Choudhary +91 9830230073 Chandrima Mandal +91 9830230080	<b>09:00PM - 10:00PM</b> <b>Wavezz Night</b> Coordinator: Sudipta Bhattacharya +91 9830230073 Shreshth Kumar Mishra +91 9830230073	
<b>7</b> DAY 31 MAR	<b>05:00PM - 07:00PM</b> <b>Reunion</b> Coordinator: Subhasit Sanyal +91 9830230073 Aashiq Ahmad Khan +91 9830230080	<b>07:00PM - 10:00PM</b> <b>Calligraphy Night</b> Coordinator: Ayush Tamang +91 9830230088 Pragya Bhattacharya +91 9830230080				
			<b>8</b> DAY 01 APR	<b>06:00PM - 10:30PM</b> <b>Grand Social Night</b> Coordinator: JECLAT COO COMMITTEE		

College Academic Hours: 09:00AM - 01:00PM

# INSTITUTE NEWS

## Statement of expenditure (2022-2023),

### STATEMENT OF EXPENDITURE FOR F/Y 2022-23 JALPAIGURI GOVT. ENGINEERING COLLEGE JALPAIGURI-735102

Sl. No.	Activity	Details	Expenditure for the F/Y 2022-23	Remarks
1	Honorarium of Guest /visiting faculty.	Rs2000/- or Rs3000/- per faculty	Rs. 34000/-	
2	Office equipment, teaching aids .	Expenditure according to related items	Rs. 486502/-	
3	Expenditure on meetings of the governing body and committees.	Meeting of the Governing body @ 2 meeting per annum	Rs. 66617/-	
		Meeting of Academic Council @ 02 meeting per annum	Nil	
4	Honorarium to Controller of Examinations (full time ) not exceeding Rs 8000/- p.m.	Honorarium to Controller of Examinations @ Rs 8000/- p.m.	Rs. 96000/-	
		Honorarium to Deputy Controller of Examinations@ Rs 5500/- p.m.	Rs 66000/-	
		Honorarium to Assistant Controller of Examinations@ Rs 5000/- P.M.	Rs.60000/-	
		Honorarium for additional duties to employees assigned for Examination Works.	Rs. 12000/-	
5	Induction Program	Program oriented expenditures.	Rs. 501190/-	
6	JEE Mains exam	Conducting Joint Entrance Mains Exam at JGEC	Rs. 355450/-	
7	Workshop and seminars	For attending /organizing Workshop/seminars/conference per faculty member per year for 30 faculty members.	Rs. 54719/-	
8	Students' week	Program oriented expenditures.	Rs.47457/-	
	Total		Rs. 1779935/-	

  
Accounts Officer  
JGEC

Accounts Officer  
Jalpaiguri Govt. Engg. College  
Jalpaiguri-735102, W.B.

  
Principal  
JGEC

Principal  
Jalpaiguri Govt. Engg. College  
Jalpaiguri-735102, W.B.