



ANNUAL REPORT 2023-24



Jalpaiguri Government Engineering College

Jalpaiguri, West Bengal 735102



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FROM THE PRINCIPAL'S DESK



“I am confident that JGEC will continue to shine brightly...”

The academic year 2023-24 has been a year of significant growth and achievement for our institute. As we reflect on the past year, I am filled with immense pride at the dedication and hard work exhibited by our students, faculty, and staff. Despite the challenges presented by our location and the constraints, we have successfully organized numerous international conferences, skill-enhancement programs, and personality development workshops, all aimed at enriching the academic experience for our students and faculty.

Looking ahead, we are committed to further strengthening our academic programs, fostering a culture of innovation and research, and enhancing our industry linkages. We will continue to prioritize student development, ensuring that our graduates are well-equipped to face the challenges of the 21st century.

I am confident that JGEC will continue to shine brightly, consistently ranking among the best engineering colleges in the nation for years to come

Dr. Amitava Ray



OUR VISION, MISSION AND OBJECTIVES

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

Objectives and Core Values

- Eco-friendly campus and sustainability
- Continuous improvement
- Participatory decision making
- Leadership quality
- Honesty & integrity
- Freedom of thought and expression
- Academic excellence
- Accountability and Transparency
- Encouragement
- Social responsibility



OVERVIEW

Introduction

Jalpaiguri Government Engineering College (JGEC) is a premier institute for quality technical education in India. It is an Autonomous college fully owned by the Government of West Bengal and affiliated to Maulana Abul Kalam Azad University of Technology (formerly known as West Bengal University of Technology). At present, the institute offers six UG courses (CE, CSE, ECE, EE, IT & ME) and two PG courses (EE & ME) in the field of technology / engineering. The teaching-learning process is facilitated by regular and qualified teachers. The Institute also sets its goal to be a role model in teaching, research and personality development to create skilled human resource with a sense of responsiveness towards the society, the country and the world at large.

Location

Danguajhar, Near National Highway 27 (West Bengal SH 12A), Jalpaiguri-735102, West Bengal, India. 26°32'47"N 88°42'13"E

<https://maps.app.goo.gl/SJBEepDcSrQCqWLV7>

History

Established in 1961, JGEC holds the distinction of being the second oldest engineering college in West Bengal. The JGEC Central Building in the initial years was under the University of Calcutta. For the period between 1963 and 1999, the college was affiliated to the University of North Bengal, which handed over the rich mantle of technical excellence to the West Bengal University of Technology (presently known as Maulana Abul Kalam Azad University of Technology, West Bengal), founded under the West Bengal University of Technology Act, 2000. In 2012, the institute was granted complete autonomy by the University Grants Commission, India, thus giving it the freedom to set its own curriculum and manage its own finances.

Campus

Jalpaiguri Government Engineering College boasts a sprawling and picturesque campus nestled amidst the scenic beauty of the Dooars region in West Bengal, India. The campus features well-maintained academic buildings, spacious laboratories equipped with modern facilities, a well-stocked library, and comfortable hostels for students. The serene environment provides an ideal setting for both academic pursuits and personal growth. The college also has sports grounds and recreational areas for students to unwind and engage in extracurricular activities.

COMMITTEES

Academic Council

Minutes of the meeting of the 20th Academic Council held on 02.02.2024 in the Collegiate Conference Room at 3.00 p.m. (Friday) 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. Prof. Subrata Bhattacharya, Secretary – Academic Council and Associate Professor, ME - Present
3. Dr. Suman Koner, Associate Prof. & HOD, CE, Member - Present
4. Dr. Santanu Das, Professor & HOD, EE, Member - Present
5. Dr. Subhas Barman, Assistant Professor, Head, CSE, Member - Present
6. Dr. Sudip Mukherjee, Professor, ME Dept., COE, Member - Present
7. Dr. Jishan Mehedi, Professor & HOD, ECE, Member - Present
8. Prof. Aditya Kumar Samanta, Assistant Professor, Head, IT, Member - Present
9. Dr. Soupayan Mitra, Professor & HOD, ME, Member - Present
10. Dr. Swapan Kumar Roy, Associate Professor, Head, Mathematics, Member - Present
11. Dr. Arindam Saha, Associate Professor, Head, Physics, Member - Present
12. Dr. Niharul Alam, Assistant Professor, Head, Chemistry, Member - Present
13. Prof. Chinmoy Ghosh, Assistant Professor, CSE, Member - Present
14. Dr. Bikash Chandra Mandal, Assistant Professor, CE, IQAC Coordinator, Member - Present
15. Dr. Goutam Kumar Panda, Professor, EE, Member - Present
16. Dr. Susovan Chatterjee, Associate Professor & Head, ME, CGEC, MAKAUT nominee, Member - Present
17. Dr. Goutam Das, Prof. & Head, ECE, CGEC, MAKAUT nominee, Member - Present
18. Prof. Sukhendu Mandal, Assistant Prof., CSE, CGEC, MAKAUT nominee, Member - Present
19. Mr. Rajib Goon, Founder & Software Architect, RG Technologies, BOG Nominee, Member (Industry) - Absent
20. Prof. Kajal Kumar Singha, Senior Lecturer, Rajganj Govt. Polytechnic, BOG Nominee, Member (Education) - Absent
21. Dr. Subhadeep Biswas, ACMOH, District Hospital (Medicine), Jalpaiguri - Absent
22. Mr. Soumik Majumdar, Enrolled Advocate under Bar Council of WB, BOG Nominee, Member (Law) - Present
23. Prof. Asim Mahapatra, Assistant Professor, ME Dept., Dy. COE, Member - Present
24. Dr. Nimai Mukhopadhyay, Assistant Professor, ME, Special Invitee - Absent
25. Dr. Pradip Kumar Saha, Prof., EE, Special Invitee: Present
26. Prof. Dhiman Mondal, Assistant Professor, CSE, Special Invitee - Present
27. Dr. Dipak Kumar Kole, Professor, CSE, Special Invitee - Present
28. Mr. Sridip Duttagupta, Deputy Registrar- Academics, Member - Present
29. Mrs. Sukla Dhara Sheet, Registrar - Absent

Institute Disciplinary Committee

1. Subhranta Roy Choudhury, Associate professor, Dept. of ME
2. Goutam Kumar Panda, Professor, Dept. of EE
3. Dhiman Mondal, Assistant Professor, Dept. of CSE
4. Rakhi Roy Ghosh, Assistant Professor, Dept. of ECE
5. Sukla Dhara Sheet, Registrar
6. Vivekananda Biswas, Assistant Proctor & Convener

IQAC committee

Government of West Bengal
Office of the Principal
Jalpaiguri Government Engineering College
Jalpaiguri-735102, West Bengal, India



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Minutes of the 17th IQAC (Internal Quality Assurance Cell) meeting held on 28.8.2023 at 3 pm (Monday) in the JGEC Conference Room to discuss important issues (as per agenda) and transact views for the interest of the institution.

Members present:

1. Prof.(Dr.) Amitava Ray, Principal/Chairman
2. Prof.(Dr.) Bikash Chandra Mandal, Assistant Prof. CE: Coordinator
3. Sri Bhaskar Dasgupta, Retd. Professionals, Residence of Jalpaiguri Member
4. Dr.Arka Sen, Works Manager at M/s Integrated Fire Protection Pvt Ltd, Jalpaiguri&Life member of Quality Circle Forum of India:Member
5. Prof.(Dr.) Geetam Bhaingi, Prof. &HOD, CE: Member
6. Dr. Sudip Mukherjee, Professor, ME & Controller of examination
7. Dr. Dipak Kumar Kole, Professor, CSE
8. Dr. Santanu Das, Professor & Head, EE
9. Dr. Jishan Mehedi, Associate Professor & Head, ECE
10. Sri Sudip Duttgupta, Deputy-registrar, Academics
11. Prof.(Dr.) Goutam Kumar Panda, EE:Special Invitee
12. Prof. Dhiman Mondal Assistant, CSE: Special Invitee
13. Prof. Subhas Barman, Assistant Prof. And Head, CSE&Dy. Controller:Special Invitee
14. Prof.(Dr.) Nimai Mukhopadhyay, Asst. Prof. ME, Prof. in-Charge T&P:Special Invitee
15. Prof. Arindam Saha, Associate Prof. And Head, Phy Dept
16. Mrs. Shukla Sheel, Registrar, JGEC

Minutes:
The Chairman welcomed the members present in the meeting and requested the Coordinator to start the discussion as per the agenda. The Coordinator introduced the members present in the meeting.

Jalpaiguri Govt. Engineering College
Jalpaiguri-735102


Minutes of the 18th IQAC (Internal Quality Assurance Cell) meeting held on 01.02.2024 at 2.30 pm (Monday) in the JGEC Conference Room to discuss important issues (as per agenda) and transact views for the interest of the Institution.

Members present:

1. Prof.(Dr.) Amitava Ray, Principal/Chairman
2. Prof.(Dr.) Bikash Chandra Mandal, Assistant Prof. CE: Coordinator
3. Sri Bhaskar Dasgupta, Retd. Professionals, Residence of Jalpaiguri Member
4. Dr.Arka Sen, Works Manager at M/s Integrated Fire Protection Pvt Ltd, Jalpaiguri&Life member of Quality Circle Forum of India:Member
5. Dr. Sudip Mukherjee, Professor, ME & Controller of examination
6. Dr. Dipak Kumar Kole, Professor, CSE
7. Dr. Santanu Das, Professor & Head, EE
8. Dr. Jishan Mehedi, Associate Professor & Head, ECE
9. Sri Sudip Duttgupta, Deputy-registrar, Academics

Institute Level Building Committee

Government of West Bengal
Office of the Principal
Jalpaiguri Government Engineering College
Jalpaiguri-735102, West Bengal, India



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No.185-P(Building)/2023 Office order Date:30.11.2023

An Institute level building committee has been formed comprising the following members:

1. Principal, Chairman
2. Registrar, Member
3. Prof. Prithwish Roy, Convener
4. Prof. Ujjal Dey, Member
5. Mr. Dilip Roy, Custodian of all the projects
6. Invitee member from Pwd-construction/PWD-Electricals/PHE as and when required.

Board of Examination

Jalpaiguri Government Engineering College Jalpaiguri-735102

Minutes of the meeting of the Board of Examination held on 03.01.2024 in the collegiate conference room at 1.30 pm to discuss important issues and transact the views for the academic interest of the Institution.

Members present:

1. Dr. Amitava Ray, Principal, JGEC & Chairman- BOE
2. Dr. Subhas Barman, Assistant Professor & Head, CSE, Deputy COE, Member
3. Prof. Asim Mahapatra, Assistant Professor of ME & Deputy COE
4. Dr. Pradip Kumar Saha, Professor of EE, Member
5. Prof. Subrata Bhattacharya, Associate Professor of ME and Secretary, Academic Council, Member
6. Dr. Jishan Mehedi, Associate Prof. & HOD, ECE, Member
7. Dr. Arindam Saha, Associate Professor, Physics
8. Dr. Goutam Kumar Panda, Professor, Dept. of EE
9. Dr. Soumyan Mitra, Professor & HOD of ME
10. Dr. Santanu Das, Professor & HOD of EE
11. Dr. Sudip Mukherjee, Professor of ME & COE
12. Dr. Suman Konar, Associate Professor & HOD of CE

Minutes:

1: The Principal welcomed the members.

2. **Commencing of B.Tech. 3rd & 1st semesters and M.Tech. 3rd & 1st semesters 2023-24 Examinations:**

Proceedings: The Principal placed the issue of Commencing of B.Tech., 3rd & 1st semesters and M.Tech., 3rd & 1st semesters 2023-2024 Examinations:

Resolutions: It is resolved that B.Tech. 3rd & 1st semesters and M.Tech., 3rd & 1st semesters 2023-24 Examinations will be held from 15.01.2024. The COE placed routine of the said examinations and it is accepted unanimously.

Principal, JGEC & Chairman, BOE

Jalpaiguri Government Engineering College Jalpaiguri-735102

Minutes of the meeting of the Board of Examination held on 02.04.2024 in the collegiate conference room at 1.15 pm to discuss important issues and transact the views for the academic interest of the Institution.

Members present:

1. Dr. Amitava Ray, Principal, JGEC & Chairman-BOE
2. Dr. Subhas Barman, Assistant Professor & Head, CSE, Member
3. Prof. Asim Mahapatra, Assistant Professor of ME & Deputy COE
4. Dr. Pradip Kumar Saha, Professor of EE, Member
5. Prof. Subrata Bhattacharya, Associate Professor of ME and Secretary, Academic Council, Member
6. Dr. Jishan Mehedi, Prof. & HOD, ECE, Member
7. Dr. Arindam Saha, Associate Professor, Physics
8. Dr. Goutam Kumar Panda, Professor, Dept. of EE
9. Dr. Santanu Das, Professor & HOD of EE
10. Dr. Sudip Mukherjee, Professor of ME & COE
11. Dr. Suman Konar, Associate Professor & HOD of CE

Minutes:

1: The principal welcomed the members.

2. **Commencing of 2nd, 4th, 6th & 8th semesters B.Tech. and 2nd & 4th semesters M.Tech. 2023-24 Examinations:**

Proceedings: Principal placed the issue of Commencing of 2nd, 4th, 6th & 8th semesters B.Tech. and 2nd & 4th semesters M.Tech. 2023-24 Examinations:

Resolutions: It was resolved that 2nd, 4th, 6th & 8th semesters B.Tech. and 2nd & 4th semesters M.Tech. theory examinations, 2023-24 will be held from 15.05.2024 and practical/sessional exams of both UG & PG courses will be held on 9th, 10th & 11th of May, 2024. COE was requested to finalize the examination schedule.

Principal, JGEC & Chairman, BOE

SC/ST Committee

Government of West Bengal
Office of the Principal
Jalpaiguri Government Engineering College
Jalpaiguri-735102, West Bengal, India



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Mobile no: +91-9434381078

No.136/SC-ST/P/2023 **Office order** Date: 12.08.2023

Sub: "Committee for SC/ ST

It is hereby informed to all concerned that a "Committee for SC/ST" is constituted as per the AICTE approval process handbook comprising of the following members:

1. Dr.Subhas Barman, Head-Dept. of CSE, Chairman & Convener
2. Dr.Subrata Mazumdar, Assistant Professor, Dept. of EE
3. Smt.Jhuma Dutta, Assistant Professor, Dept. of CSE
4. Sri. Prithwish Roy, Assistant Professor, Dept. of CE
5. Smt.Sukia Dhali Sheet, Registrar

Responsibilities:

The committee will function to prevent the offenses of atrocities against the SC/ST Community.

This order will supersede all previous orders related to SC/ST committee and quarterly action taken report of the committee must be placed to the Principal.



Principal
Jalpaiguri Govt. Engg. College

Induction Program Committee

Government of West Bengal
Office of the Principal
Jalpaiguri Government Engineering College
Jalpaiguri-735102, West Bengal, India



Phone no.:03561-255131,9434381078
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Email: principal@jgec.ac.in

No.150/Induction/P/2023 **Office order** Date:03.09.2023

In exigency of the situation a revised Induction program committee 2023 has been constituted comprising the following members:

1. Mr.Vivekananda Biswas, Program Co-ordinator
2. Smt Sukia Dhara Sheet, Member
3. Mr.Asim Roy, Member
4. Mr.Nilay Chandra Das, Member
5. Mr.Gouranga Karmakar, Member
6. Mr.Dilip Roy, Member
7. Mr.Tapas Ranjan Kar, Member
8. Mr.Chanchal Jena, Member
9. Mr.Bhaskar Surkar, Member
10. Mr.Dinabandhu Chuki, Member

All committee members are requested to plan and execute the program.
Mr.Dibhyendu Taraldar and, Mr.Sudipta Chakraborty are advised to coordinate with the committee members.



Principal



ACADEMIC SYSTEM

B.Tech programs

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

M.Tech programs

1. M. Tech. in Mechanical Engineering (Production Technique & Management)
2. M. Tech. in Electrical Engineering (Power Electronics & Drives)

Admission

The admission to various programmes is carried out through the following highly competitive national level examinations.

UG Admission

- **West Bengal Joint Entrance Examination (WBJEE)** - Conducted by West Bengal Joint Entrance Board for admission in: Bachelor of Technology (B.Tech)
- **Joint Entrance Examination for Lateral Entry (JELET)** - Conducted by West Bengal Joint Entrance Board for admission in: Lateral Entry in 2nd year (3rd Semester) of the four-year courses of Bachelor Degree in Technology (B.Tech)

PG Admission

- **Post Graduate Entrance Test (PGET)**-Conducted by the PGET Board as constituted by the Maulana Abul Kalam Azad University of Technology, West Bengal for admission in Master of Technology (M. Tech)
- **Graduate Aptitude Test in Engineering (GATE)** Conducted by IISc and IITs on behalf of the Ministry of Education and Dept. of Higher Education, for admission in Master of Technology (M. Tech)

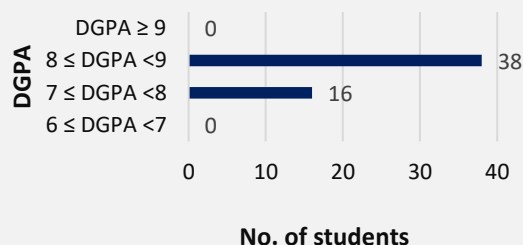


Results of 8th Semester 2022-23 (2023 pass out batch)

1. CIVIL ENGINEERING

No. of students appeared in the final semester	65
1 st year entry	50
Lateral entry in the 2 nd year	15
No. of students passed in 2023	54
No. of students failed	11

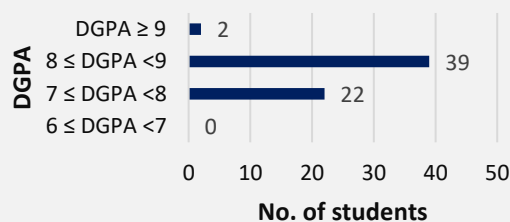
DGPA Slab vs. No. of students



2. ELECTRICAL ENGINEERING

No. of students appeared in the final semester	65
1 st year entry	47
Lateral entry in the 2 nd year	18
No. of students passed in 2023	63
No. of students failed	02

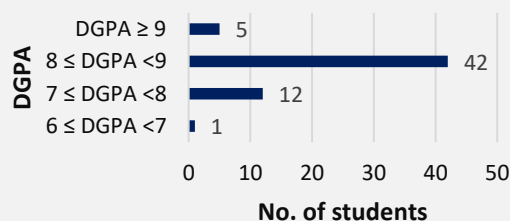
DGPA slab vs. No. of students



3. MECHANICAL ENGINEERING

No. of students appeared in the final semester	61
1 st year entry	44
Lateral entry in the 2 nd year	17
No. of students passed in 2023	60
No. of students failed	01

DGPA slab vs No. of students

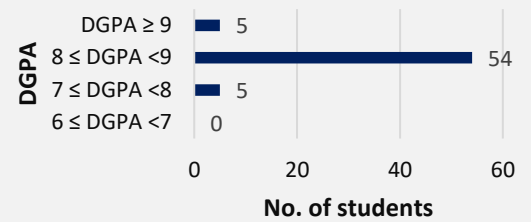




4. COMPUTER SCIENCE AND ENGINEERING

No. of students appeared in the final semester	71
1 st year entry	56
Lateral entry in the 2 nd year	15
No. of students passed in 2023	64
No. of students failed	07

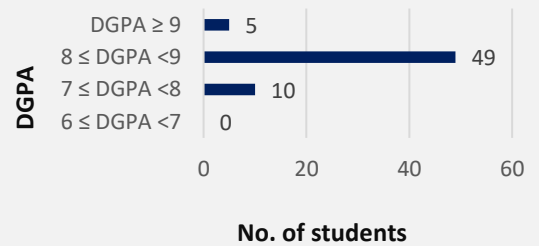
DGPA slab vs. No. of students



5. ELECTRONICS AND COMMUNICATION ENGINEERING

No. of students appeared in the final semester	64
1 st year entry	47
Lateral entry in the 2 nd year	17
No. of students passed in 2023	64
No. of students failed	00

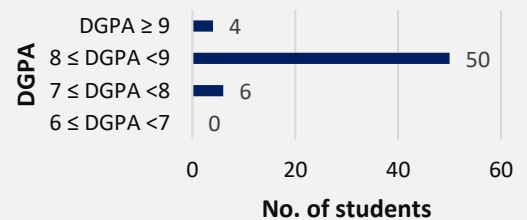
DGPA slab vs. No. of students



6. INFORMATION TECHNOLOGY

No. of students appeared in the final semester	61
1 st year entry	43
Lateral entry in the 2 nd year	18
No. of students passed in 2023	60
No. of students failed	01

DGPA slab vs. No. of students



Scholarships

Name of the scholarship	No. of Students	Provided by
SVMCM(Gen)	457	Govt. of WB
OASIS	80	Govt. of WB
AIKASHREE (MCM)	55	Govt. of WB
AIKASHREE (SVMCM)	92	Govt. of WB
NSP	1	Govt, of India
HFS/FFS	62	JGEC
ALUMNI SCHOLARSHIP	~50	JGEC Alumni Association
OTHERS	~20	(ONGC/JINDAL/RAIL/LIC/PM etc.)
TOTAL	817	

Students attending MOOCS program/Additional credit courses

Name of the student	Roll no	Semeste r	Progra m	Branc h of Engag	Period	MOOCS program etc
KRISHNENDU MALLICK	21101103087	8	B.Tech	ME	2023-2024	complete courses on Six Sigma, NDT ; Learning PYTHON Language, and other many m
KAMAL KUNDU ROY	21101103030	6	B.Tech	ME	2024	1.Introduction to Philosophy. 2.Effective Problem-Solving and Decision-Making. 3.Write F
Pabitra Kumar Mahato	21101103056	6	B.Tech	ME	2023-2024	Programming Fundamentals
Soumitra Sarkar	21101103040	6	B.Tech	ME	2023-2024	Introduction to Programming with MATLAB
Soumyajit Mondal	20101103023	8	B.Tech	ME	2023-2024	AutoCad Course , MATLAB Course, Python Course, HTML5 Course
Siddham Hossain Moidya	20101103036	8	B.Tech	ME	2024	Speak English Professionally : In person, Online and on the Phone
Rahul Kar	21101106083	8	B.Tech	IT	2023-2024	IPR_EVENT
Ujjwal Ghosh Pritam	21101106086	8	B.Tech	IT	2023-2024	Certified Information System Security Professional, French essential with Alexa, Getting
Bhattacharjee	21101106089	8	B.Tech	IT	2024	
Ritick Biswas TEERTHANKAR	21101106090	7	B.Tech	IT	2023-2024	Coursera_Data analysis with python
SEN	20101103014	8	B.Tech	ME	2024	4 years = 11+5+5+4 points = 26 points
GOURAV SARKAR	20101103009	8	B.Tech	ME	2023-2024	1. PYTHON PROGRAMMING AND BASIC DATA SCIENCE 2. C++ PROGRAMMING , ;
David Praveen Kujur	20101103060	8	B.Tech	ME	2023-2024	A life of happiness and fulfillment, Introduction to HTML5, Introduction to computers and
Satyam Das	20101106017	8	B.Tech	IT	2023-2024	Flutter Development From Udemy
Soumen Kundu Shoujendra Banerjee	20101103012	8	B.Tech	ME	2023-2024	1. Ethical Leadership Through Giving Voice to Values, 2. Introduction to HTML5, 3. Intro
Piyasa Nandy	21101106088	7	B.Tech	IT	2023-2024	Introduction to RPA and Automation Course in 3rd Semester
Shashwata Paul	21101103010	8	B.Tech	IT	2024	Coursera
Shashwata Paul	20101103010	7	B.Tech	ME	2023-2024	Online course Introduction to programming with MATLAB
Arindam Das Souhardya Banerjee	21101103095	8	B.Tech	ME	2023-2024	C programming
Banerjee	22101105062	4	B.Tech	ECE	2023-2024	Machine Learning
Arajit Soha	23101202001	2	M.Tech	EE	2023-2024	Technical English for engineers
SUDIPTA ROY	22101104036	4	B.Tech	CSE	2024	

STUDENT ACTIVITIES

Games and sports



SRISTI



Induction program

Induction program for the new entrants was held during 4th September - 15th September, 2023.



UPSC CSE Awareness Workshop

A "Workshop on Preparedness for the Civil Services Examinations " organized by Satyendra Nath Tagore Civil Services Study Centre in association with the Department of Higher Education was held on 22.09.2023 (Friday) at Dinabandhu Mancho, Siliguri for the Civil Service aspirants. The Department of Higher Education entrusted Jalpaiguri Government Engineering College to execute the program satisfactorily. A committee was constituted with indicated responsibilities. All committee Members worked together whole-heartedly and made the program a grand success where around 700 participants attended.



A similar workshop was also held in JGEC campus on 08.11.2023 having a footfall of over 550 including offline and online participants.

Student Week

Student week was celebrated during 2nd January 2024 to 8th January 2024.

 JALPAIGURI GOVERNMENT ENGINEERING COLLEGE ALPINDRUMS GOVERNMENT ENGINEERING COLLEGE CELEBRATION OF STUDENTS' WEEK-2024 (2 nd January, 2024 to 8 th January, 2024) PROGRAMME SCHEDULE Venue: Language Lab/ Coordinators: Prof. Gautam Kumar Panda, EE & Prof. Chinmay Ghosh, CSE Dept.			
Date	Program	Committee	Location & other
2nd January, 2024 (Tuesday) 11 am to 1 pm	Inauguration & Student credit Card Issuance Lamp.	Program Coordinator Prof. Subrata Karo Prof. Fakir Mondal	Dept. of CSE
2nd January, 2024 (Wednesday) 11 am to 1 pm 3 pm to 5 pm	WMOA, Awareness and Post-Metric Scholarship Awareness Camp cum helpdesk	Program Coordinator Dr. Md. Anwar Rahman Dr. Shikhar Halder Dr. Nilamul Alam	Dept. of PPE
	Career counselling	Prof. Nani Mathabachary Prof. Anurag Kumar Samra	Conference Hall/ Language Lab
4th January, 2024 (Thursday) Saturday 11 am to 1 pm 2 pm to 5 pm	Lecture on Cyber Security & Career Counselling NSS Activity Visit to Science & Technology Museum and Workshop Lab	Program Coordinator Prof. Soumyan Mitra Prof. Anindya Saha Prof. S Roy Chakraborty Members: Prof. Aditya K. Samanta Prof. Ashim Roy Prof. Madhav Ch. Mandal Prof. Sandipan Ganguly Mr. Phranabir Roy (All members of the Museum committee)	Workshop/All dept. Lab
	Friendly cricket match Faculty Vs Students	Program Coordinators Prof. Sanku Das Prof. Anindya Saha Prof. Chinmay Ghosh Prof. Nilamul Alam Prof. Anwar Rahman Prof. Debajit Chatterjee Prof. Ujjal Das Prof. Sushovan Sarker Prof. Indrakash Roy Prof. Subhas Halder	Cricket
05th January, 2024 (Friday) Saturday 11 am to 1 pm	Lecture on Cyber Security & Career Counselling NSS Activity Visit to Science & Technology museum	Prof. Soumyan Mitra Prof. Anindya Saha Prof. S Roy Chakraborty Members: Prof. Aditya K. Samanta Prof. Ashim Roy Prof. Madhav Ch. Mandal Prof. Sandipan Ganguly Mr. Phranabir Roy (All members of the Museum committee)	Workshop/All dept. Lab
2 pm to 5 pm	Singing competition	Program Coordinator Prof. Shreyas Das	Language Lab
	VGA Competition	Program Coordinator Prof. Ujjal Das JUDGE Prof. Anindya Saha	DC Lab Language Lab Student Coordinator
06th January, 2024 (Saturday) 11 am to 1 pm 11 am to 1 pm 2 pm to 5 pm	Drawing competition	Program Coordinator Prof. Gupta Mondal JUDGE Prof. Chinmay Roy Prof. Ashim Roy	DC Lab CSE Lab Student Coordinator
	Coding Competition	Program Coordinator Dr. Ujjal K. Das Program Coordinator Prof. Subrata Karan	DC LAB DC LAB
		JUDGE Mr. Anur Chatterji Prof. Shreyas Das	DC LAB Student Coordinator

8th January, 2024 (Monday) 11 am to 1.30 pm 1 am to 1.30 pm	Quiz Competition	Program Coordinator Prof. Anura Datta JUDGE Prof. Bikash Kumar Kole	DC Lab SR. TANKU HALDER Student Coordinator
	Drama Competition	Prof. Nilamul Alam Judge Mr. Anindya Saha Prof. Anindya Saha	Language Lab
3 pm to 5 pm	Felicitation of the Students & Participants	Prof. Gautam Kumar Panda	Language Lab
Throughout the week	Notice/Note Gardening (Notice Club)	Program Coordinator Prof. Anindya Saha	
	Finance Committee	Prof. P. C. Saha Assoc. prof. Dr. Anur Mrs. Sanku Sheet	
	Careless Section for arrangement of Chair Table, Cleaning etc.	Mr. Diju Roy	Language Lab DC LAB

EDC

The Entrepreneurship and Development Cell (EDC) of Jalpaiguri Government Engineering College operates with the vision of cultivating a dynamic community of aspiring entrepreneurs by equipping them with the knowledge, skills, and resources needed to transform innovative ideas into successful ventures, thereby contributing to the overall development of society.

TEDxJGEC was held on 19th February 2024, it featured renowned speakers like Divya Siotia, Gargi Batabyal, Sailesh Singhal, Commandant Rajeev Ranjan, Debarathi Mukhopadhyay, and others, who shared inspiring stories of resilience and success, motivating attendees to face challenges and achieve their goals.



JYOTI

The initiative is run by JGEC students who teach local children weekly. Classes are conducted every Monday, Wednesday, and Friday from 5:00 PM to 7:00 PM, and on Saturday from 3:00 PM to 5:00 PM. Additionally, the club contributes to society by organizing donation drives and annual picnics for the children.



Highlights of 2023–24 Activities:

- A new course curriculum was introduced for the students.
- Rakhi celebrations were held on 29th August, during which the children were given gifts.

- Teacher's Day was celebrated with the students.
- Competitions like drawing and tower building (using ice cream sticks) were organized during Vishwakarma Puja.
- Classes continued even during semester and Puja breaks, with the aim of ensuring that the students' education was not disrupted.
- Saraswati Puja was organized for the students, and lunch was provided as part of the celebration.
- An annual sports event was held for the children.
- A picnic was organized in December 2023 for the students.
- A cycle race was conducted for the children.
- A library was inaugurated for the students to promote reading and learning.
- Finally, the club launched its official website: <https://www.jyotijyec.org/>.

Divide& Conquer

Divide& Conquer is the Coder's Club of JGEC. It is responsible for providing guidance and a learning environment in the field of programming. It takes regular classes where students are taught by senior members of the club about Data Structures & Algorithms, Competitive Programming and Development, which are essential requirements for skill development in IT sector roles. Code-Chronicles is among the biggest contests organised by Divide & Conquer. In 2023-24, it was held on 5th - 7th Oct 2023. Here, both 1st and 2nd year students competed for great prizes and learning. It was hosted on the Codeforces Platform.



Zero_Logon

Zero_Logon is the cyber security club of JGEC with 250+ members. It is involved in Helping students to grow and enhance knowledge in the rapid growing cyber security field, conducting CTF or capture the flag (cyber security contest) events and spread awareness among students to be safe from cyber fraud and bullies. On 17th February 2024 it organised "SLAY CTF"- a cyber security contest and workshop at Edusat, CSE Department, JGEC where 100+ students from different colleges of North Bengal participated.

S.A.A.C.

Space and Aeronautics Activity Centre, also known as SAAC is the club of space technology enthusiasts. SAAC is a hub for technical knowledge related to space and aeronautics. Some of its notable projects include RC Aircraft, Model Rocket (Fuel Cell), LDR Based Solar Tracker, Model Planetary Lander, Ignitor. They have also arranged for activities such as Sky Watching Session, Seminar on Aircraft Technology and using AI in Aerospace Industries.



Azantrik

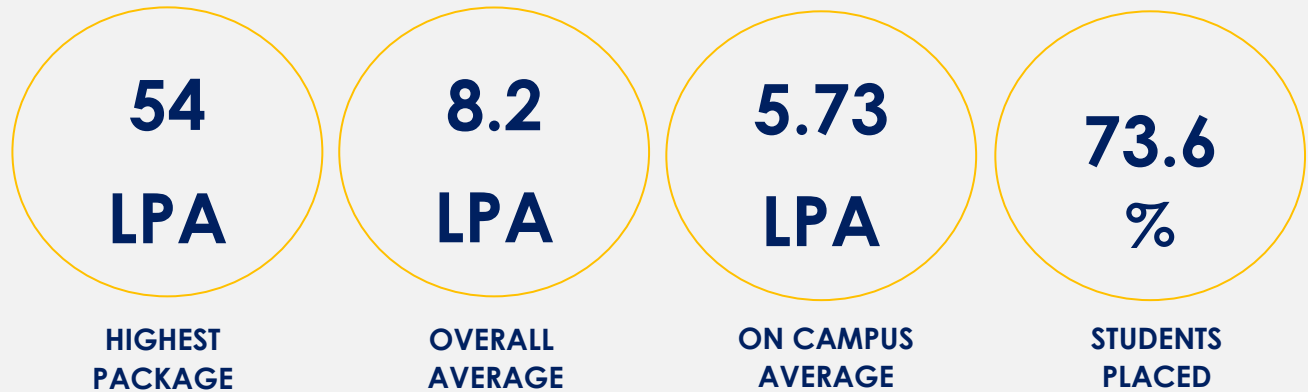
Azantrik, the drama club of Jalpaiguri Government Engineering College, strives to foster a vibrant theatrical environment within the college community. The club actively organizes and participates in various dramatic events throughout the academic year, providing a platform for students to showcase their creative talents and explore the art of performing arts. A captivating showcase of both Bengali and Hindi dramatic productions was presented on during the fifth night of the esteemed JECLAT festival. The Hindi drama presented a satirical commentary on political issues. The Bengali drama focused on the theme of patriotism.





TRAINING & PLACEMENT

Placement Highlights



Placement Details

COMPANY	NO. OF SELECTS	COMPANY	NO. OF SELECTS
WTW	1[ECE],1[IT]	CESC	1[EE]
Celebal	1[CSE],1[IT],1[ECE]	Voltas	3[EE]
AfiyanITConsulting	2[CSE],3[IT],1[ECE]	Tata Power	3[EE],3[ME]
MGH Infrastructure	3[ME],1[CSE],1[IT],2[ECE],2[CE]	Ishaani Electronics	1[EE]
Talent Serve	8[ECE],6[EE]	Garant Filter	1[EE],1[ECE]
BBPL(Coca-Cola)	2[EE],2[ECE],2[ME]	Atlassian	1[CSE]
Technook	2[EE],5[ECE]	Microsoft	1[IT]
DXcorr	2[ECE]	Timechain Labs	1[IT]
School Dekho	[ECE]	Linde	1[EE]
HPL	3[EE],4[ME]	Parul infotech	1[EE]
M.N.Dastur	2[EE],4[ME]	Lepton Projects Pvt Ltd	2[CE]
SMS Group	3[ME],	A.K.Builders	2[CE]
WPIL	4[ME],1[EE],3[CE]	TCS	10[CSE],25[IT],12[ECE]
Flakt Group	1[ME],2[EE]	Cognizant	9
TEECL	4[EE],3[CE],2[ME]	Derivix	1[IT]
Titan Company Ltd	1[ME]	Sodexo	2[ECE]
Adani Group	1[ME]	Fibro Plastic	3[ME]
Worley	1[CE]	Deloitte	1 [ECE]
L&T	5[CE],7[EE]	Regent Drive	1 [ME]
GKW Consult	3[CE]	Payatu	1[CSE]
ITD Cementation	5[CE]	Prismforce	3[IT]
Mackintosh Burn Ltd.	5[CE]	Seeders	1[IT]
NIMS	1[EE],4[CE]	Intellipaath	1[T]
Techtree Con. Serv.	1[EE]	IFB Industries	1 [ME]



RESEARCH & CONSULTANCY

Publications

- Arup Kumar Das, **Santanu Das**, Arpan Kumar Pradhan, Biswendu Chatterjee, and Sovan Dalai, "RPCNNNet: A Deep Learning Approach to Sense Minor Stator Winding Interturn Fault Severity in Induction Motor Under Variable Load Condition", **IEEE Sensors Journal**, vol. 23, no. 4, 15,2023
- Partha Mishra, **Shubhasish Sarkar**, **Priyankar Roy**, Sandip Saha Chowdhury, **Santanu Das**, "Independent Component Analysis (ICA) and Statistical Tool-based Classification and Detection of Induction Motor Faults", In Proc. IEEE-20th India Council International Conference (INDICON) – December, 2023
- Partha Mishra, **Shubhasish Sarkar**, Sandip Saha Chowdhury, **Santanu Das**, "Diagnosis of Incipient Stator-Winding Faults in 3-phase Induction Motors using Supervised Machine Learning Algorithm", Accepted for publication in **COMPEL-International Journal for Computation and Mathematics in Electrical and Electronic Engineering**, 2024.
- Partha Mishra, **Shubhasish Sarkar**, Sandip Saha Chowdhury, **Santanu Das** "Machine Learning based Stator-winding Fault Severity Detection in Induction Motors", Paper ID# 39669, Accepted for publication in Indonesian Journal of Electrical Engineering and Computer Science (IJECS), 2024
- Dhiman Banerjee, Provas Kumar Roy, **Goutam Kumar Panda**, "Moth Swarm Algorithm with Centre-Based Sampling Technique for the Optimal Operation of a Hybrid Power System Incorporating Static Synchronous Compensator", Book/Chapter Edited, Springer 2024, DOI: 10.1007/978-981-99-7814-4_20 https://doi.org/10.1007/978-981-99-7814-4_20
- Indrajit Koley, Pralay Roy, Chiranjit Sain, Asim Datta, **Goutam Kumar Panda**, Pabitra Kumar Biswas, "Coordinated hybrid AC/DC microgrid system with optimized CSA-TLBO tuned robust2-DOF FOPID Controller", Book/Chapter Edited, CRC Press, Intelligent Computation and Analytics on Sustainable Energy and Environment 2024 DOI:10.1201/9781003540199 ISBN: 9781032888903
- Dhiman Banerjee, Provas Kumar Roy, **Goutam Kumar Panda**, "Chaotic simplex moth swarm algorithm for optimization of alternative energy integrated power grid including static synchronous series compensator" International Journal of Numerical Modelling: Electronic Networks, Devices and Fields Wiley 2023 DOI: 10.1002/jnm.3040
- Dhiman Banerjee; Provas Kumar Roy; **Goutam Kumar Panda**, "A Novel Ameliorated Moth Swarm Algorithm for Optimization of Hybrid Power System Incorporating FACTS Controllers", IETE Journal of Research 2023 DOI: 10.1080/03772063.2023.2248938
- Samar Thapa; Hom Bahadur Rijal; Wilmer Pasut; Ramkishore Singh; Madhavi Indraganti; Ajay Kumar Bansal; **Goutam Kumar Panda** "Simulation of thermal comfort and energy use in buildings of sub-Himalayan eastern India - Impact of climate change at mid (2050) and distant (2080) future", Journal of Building



Engineering Elsevier 2023 DOI: 0.1016/j.jobte.2023.106068, Part of ISSN: 2352-7102 IF 6.7

- Indrajit Koley, **Goutam Kumar Panda**, Sanjoy Debbarma, Alejandro C. Atoche, Asim Datta, " Plug-in Electric Vehicle Aided Load Frequency Control using Cascaded Controller in Microgrid System", Global Conference on Renewable Energy and Hydrogen Technologies IEEE IAS 2023 10.1109/GlobConHT56829.2023.10087793
- Koley Koley I, Sain C, Roy P, Datta A, **Panda G.K**, Biswas P.K.) "Coordinated Hybrid AC/DC Microgrid System with Optimized CSA-TLBO Tuned Robust 2-DOF-FOPID Controller." In Proc..ICICASEE2023, IEEE 2023
- **Bhoutika, K.**, Chourasia, S., Barman, Dilip., Pandey, A. Correlation and Regression-Based Approach: Remote Sensing Indices as Indicators of Agricultural Drought and Crop Yield. Roorkee Water Conclave (RWC) 2024.
- Book Chapter: **Bhoutika, K.**, Chourasia, S., and Pandey, A., 2024. Case Studies On Climate Change Impact On Agricultural Water Management And Adaptation. In International Commission on Irrigation & Drainage Congress. (Accepted)
- Published e-book in Amazon Kindle Direct Publishing; Dr. **Nimai Mukhopadhyay**, "Production Planning Control Engineering Management: An Operating function of Production Engineering Management", ASIN: B0DHL4H6WR, eBook, KDP Amazon publication
- **Dutta, J. and Barman, S.**, 2024. Smart contract and blockchain-based secured approach for storing and sharing electronic health records. Multimedia Tools and Applications, (SCIE, I.F. 3.0, 2023) pp.1-25. <https://doi.org/10.1007/s11042-024-19714-7>
- **Jhuma Dutta, Subhas Barman**, Soubhik Sen, Aniruddha Routh, Matangini Chattopadhyay and Samiran Chattopadhyay, EasyPay: A User-Friendly Blockchain-Powered Payment Gateway, Cluster Computing, (SCIE, IF 4.4), 2024, <https://doi.org/10.1007/s10586-024-04506-3>
- **Subhas Barman**, Chattopadhyay, S. & Samanta, D. A Lightweight Authentication Protocol for a Blockchain-Based Off-Chain Medical Data Access in Multi-server Environment. SN COMPUT. SCI. 5, 292 (2024). <https://doi.org/10.1007/s42979-024-02660-4> (SCOPUS)
- **Subhas Barman**, Samiran Chattopadhyay, Debasis Samanta, (2023) Towards Design a Secure Protocol for Updating Remotely Stored Credentials of a Crypto-Biometric Framework for Multi-Server Environment, (Accepted), Security and Privacy (Wiley, IF 1.9)
- Aihik Biswas, **Subhas Barman**, Debasis Samanta, "Cracking the Mystique: Unveiling the Secrets of BL-Codes", 3rd International Conference on Network Security and Blockchain Technology, Jalpaiguri, India. (Accepted and presented).
- **S. Barman, J. Dutta** (2024), "Fingerprint-Based Three Factor Scheme for Bio-Cryptographic Key Generation," 3rd International Conference on Network



Security and Blockchain Technology, Jalpaiguri, India. (Accepted and presented).

- **Jhuma Dutta, Subhas Barman**, "Secured Scheme for Maintaining e-Health Records Based on Blockchain Technology", in Emerging & Technology including Emerging Technologies of 6th Regional Science & Technology Congress, 2023-24 held on 15-16th January at Ananda Chandra College, Jalpaiguri jointly organized by Ananda Chandra College and Department of Science & Technology & Biotechnology, West Bengal
- **Jhuma Dutta, Rajib Ghosh, Subhas Barman**, "Blockchain-Based Application for Secure Social Communication", in Emerging & Technology including Emerging Technologies of 6th Regional Science & Technology Congress, 2023-24 held on 15-16th January at Ananda Chandra College, Jalpaiguri jointly organized by Ananda Chandra College and Department of Science & Technology & Biotechnology, West Bengal
- Book: Cyber Surakshar Sahaj Path, **Subhas Barman** (2023), Gangchil Publications, Kolkata, ISBN: 978-81-961965-4-7
- **Chinmoy Ghosh and Shrayasi Datta**, "Image Encryption Using Modified Playfair Cipher Algorithm," 6th Regional Science and Technology Congress, 2023-2024.
- **Kundu, A.**, Kumar, A., Awasthi, M. K., Dwivedi, G., & Shukla, A. K. An explorative study of earth-air heat exchanger for sustainable building applications. International Journal of Energy for a Clean Environment. DOI: 10.1615/InterJEnerCleanEnv.2024052513
- Design for a horizontal ground heat exchanger using a centrifugal pump, S. Roy, **A. Kundu**, 2nd International Conference on Thermo-Fluids & System Design (ICTFSD2024), BIT MESRA.
- Numerical analysis of flow condensation inside a horizontal tube: current status and possibilities, G.R. Mondal, **Md. N. Hossain, A. Kundu**, Jan'24, 1st Int. Conference on Fluid, Thermal and Energy Systems (ICFTES22), Springer Proceedings, DOI: 10.1007/978-981-99-5990-7-21.
- Book chapters: **Arijit Kundu**, Ashwani Kumar, Nitesh Dutt, Chandan Swaroop Meena, and Varun Pratap Singh; Chp.1: Introduction to Thermal Energy System Design and Optimization; Chp.7: Modeling and Simulation of Thermal Energy System for Design Optimization; Thermal Energy Systems, CRC Press, Taylor & Francis Group, NY DOI: 10.1201/9781003395768
- Asanka Maiti, **Sudip Mandal**, "Surface Fitting Based Modelling of a Circular Microstrip Patch Antenna Operating at 3 GHz Frequency" International Journal of Wireless and Microwave Technologies, vol 14(2), pp. 65-74, 2024.
- **Nripen Mondal**, Soumil Banik, Sumitava Paul, Srijita Sarkar, **Sudip Mandal**, and Sudipta Ghosh. "ANFIS-TLBO-based optimization of drilling parameters to minimize burr formation in aluminum 6061." Multiscale and Multidisciplinary Modeling, Experiments and Design (2024): 1-17.
- Sadhu, Samrat, Bhaskar Acharjee, and **Sudip Mandal**. "Design of Wideband Microstrip Patch Antenna at 38 GHz for 5G Network." In International

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- Chhaule, N., R. Neogi, J. Chakraborti, S. Pramanik, S. Maity, T. Tewary, **S. Mandal**, and C. Koley. "Broadband Sub-50 GHz Microstrip Patch Antenna for 5G wireless Application." In 2023 8th International Conference on Computers and Devices for Communication (CODEC), pp. 1-2. IEEE, 2023.
- Book Chapter: Majumdar, Sujit, **Sudip Mandal**, and Rajiv Singh. "Modeling and parametric optimization of grinding process using flower pollination algorithm." In Recent Trends in Swarm Intelligence Enabled Research for Engineering Applications, pp. 265-289. Academic Press, 2024.

FDP/Seminar/Workshop

Dr Subhas Barman, CSE, JGEC

- Invited talk on "Human Rights in Cyber World" at Value Added Course in Human Rights organized by Kaliachak College, Malda, March 4, 2024.
- Keynote talk on "Cyber Security in Digital India: Challenges, Laws and Best Practices", 6th Regional Science and Technology Congress, Department of Science and Technology and Biotechnology, Government of West Bengal, January 16, 2024.
- Delivered a session as a distinguished speaker on "Safe Access to the Digital World: Data Protection and Data Security, Cyber Security for users" in the seminar organized by Telecom Regulatory Authority of India (TRAI) on 12th January 2024 at Siliguri



- Invited talk on "How to remain safe in Cyber World and its Best Practices" in the Seminar on Cyber Awareness & Hygiene Practices jointly organized by the Cyber Security Centre of Excellence, Govt. of WB, and Malda College on 6th October 2023 at Malda College.
- Online Seminar on Spiritual Science, Title: "Physical and Metaphysical Methods for Maximizing Exam and Life Scores." by Dr. Goutam Paul, Head, Crypto & Sec, Indian Statistical Institute, Kolkata, India; on 07-01-2024.

Chinmoy Ghosh, ECE

- Delivered lectures on ““One-hour Cyber Hygiene Class on Cyber Awareness” at Siliguri e-Waste Workshop conducted by WBEIDC Ltd. on 16th June 2023.

Jhuma Dutta, CSE

- Coordinator of one-day workshop on, “Women Harassment - Awareness & Prevention” organized by the Dept. of CSE, held on 8th January, 2024



Dr Arijit Kundu

- Coordinator of one week Faculty Development Program (FDP) on Engineering Simulations using ANSYS 19th – 23rd June, 2023 organized by Department of Mechanical Engineering Jalpaiguri Government Engineering College.
- Coordinator of two weeks Faculty Development Program (FDP) on Engineering Simulations using ANSYS 14th– 25th August, 2023 organized by Department of Mechanical Engineering Jalpaiguri Government Engineering College.

<p>About the programme</p> <p>Faculty Development Program on Engineering Simulations using ANSYS is an one-week intensive training program. This FDP is aimed at the faculty of Mechanical Engineering as well as working professionals who wish for a basic interest and exposure in CFD and/or FEM analysis. While carrying out non-steady-state coding for fluid dynamics may give full control on the solution parameters, sufficiently accurate and computationally faster solutions can also be achieved using a commercial simulation software such as ANSYS Workbench. Considering the re-engagement with the mathematics involved behind the governing physical and numerical techniques behind the solver as very important, the program strives to present them in simpler ways such that one can connect with the fundamentals and demonstrate them to own students of the subject and in Tech/In Tech projects on CFD/FEM.</p> <p>Topics covered</p> <ul style="list-style-type: none"> Numerical Techniques in CFD Computer Implementations of the Finite Element Method Grid generation for CAE Meshing and advanced concepts in ANSYS Meshing2 Hands-on workshops with ANSYS Meshing, Structural and Fluent 	<p>Eligibility</p> <p>The faculty members of AICTE approved Institution, Universities, research scholars, participants from Government, Industry (Manufacture) Institutions/Industry experts etc. and professionals in level PG/DI/Eng. Number of participants is limited to 40. There is a course fee of only Rs.300.00 and preference will be given to new participants. Schedules of the participants will be based on the first come first serve basis.</p> <p>Registration</p> <p>Registration fee Rs. 500.00 only. Registration has to be done only through http://www.jgrec.ac.in. After registration, submit the scanned copy of the registration form to: www.jgrec.ac.in by 30.06.2023.</p> <p>Platform</p> <p>The entire FDP will be conducted offline at the class room and laboratory of the department. The details of the program schedule will be sent to the registered participants by Email and WhatsApp. It is mandatory to attend the test that will be conducted at the last day of the FDP related to the topics covered. It is also mandatory for the participants to have a minimum of 50% attendance and 60% marks in the test to earn the certificate.</p>	
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Dr. Sudip Mandal

- Reviewer for the 3rd International Conference on Data Electronics and Computing (ICDEC-2024), held at at Erciyes University, Talas, Kayseri, Turkey

ANNUAL ACCOUNTS

STATEMENT OF EXPENDITURE FOR F/Y 2023-24 JALPAIGURI GOVT. ENGINEERING COLLEGE JALPAIGURI-735102

Sl. No.	Activity	Details	Expenditure for the F/Y 2023-24 In (Rs.)	Remarks
1	Honorarium of Guest /visiting faculty.	Rs2000/- or Rs3000/- per faculty	166000/-	
2	Office equipment, teaching aids .	Expenditure according to related items	199049/-	
3	Expenditure on meetings of the governing body and committees.	Meeting of the Governing body @ 2 meeting per annum	Nil	
		Meeting of Academic Council @ 02 meeting per annum	33700/-	
4	Honorarium to Controller of Examinations (full time) not exceeding Rs 8000/- p.m.	Honorarium to Controller of Examinations @ Rs 8000/- p.m.	96000/-	
		Honorarium to Deputy Controller of Examinations@ Rs 5500/-p.m.	66000/-	
		Honorarium to Assistant Controller of Examinations@ Rs 5000/- P.M.	60000/-	
		Honorarium for additional duties to employees assigned for Examination Works.	46000/-	
5	Induction Program	Program oriented expenditures.	175173/-	
6	JEE Mains exam	Conducting Joint Entrance Mains Exam at JGEC	Nil	
7	Workshop and seminars	For attending /organizing Workshop/seminars/conference per faculty member per year for 10 faculty members.	58026/-	
		Workshop on preparedness of Civil Service Exam	223280/-	
8	Students' week	Program oriented expenditures.	54877/-	
	Total		1178105/-	


 Accounts Officer
 JGEC

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


 Principal
 JGEC

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