

# *Annual Report*



## Ghani Khan Choudhury Institute of Engineering and Technology

गनीखानचौधरीइंस्टीट्यूट ऑफ इंजीनियरिंग एवं प्रौद्योगिकी संस्थान

**A Centrally Funded Technical Institute (CFTI) under Ministry of Education Govt of India**

**भारत सरकार के शिक्षा मंत्रालय के तहत एक केंद्र शासित तकनीकी संस्थान (CFTI)**

**Narayanpur, Malda, West Bengal 732141**



# **ANNUAL REPORT**

## **2021-22**

**Ghani Khan Choudhury Institute of Engineering and Technology**

**(A CFTI under the Ministry of Education, Govt. of India)**

**Vill + PO: Narayanpur, Dist – Malda, Pin – 732141, West Bengal**

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## SOCIETY MEMBERS

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Secretary, Ministry of Education, Department of Higher Education, Shastri Bhawan, New Delhi.

**Dr. Krishna Gupta, IAS**

Principal Secretary, Department of Technical Education, Training & Skill Development, Government of West Bengal.

**Smt. Saumya Gupta, IAS**

Joint Secretary (NIT), Ministry of Education, Shastri Bhawan, New Delhi.

**Smt. Darshana M Dabral**

Joint Secretary & Financial Advisor, Ministry of Education, Shastri Bhawan, New Delhi.

**Prof. A. Sahasrabudhe,**

Chairman, All India Council of Technical Education, New Delhi

**Prof. Mamidala Jagadesh Kumar,**

Chairman, University Grants Commission, New Delhi.

**Shri M. M. Singh**

Director (T),  
Ministry of Education,  
Department of Higher Education,  
Shastri Bhawan, New Delhi.

**Mrs. Veena Dunga,**

Under Secretary,  
Ministry of Education,  
Department of Higher Education,  
Shastri Bhawan, New Delhi.

**Prof. P. R. Alapati,**

Director,  
Ghani Khan Choudhury Institute of Engineering & Technology, Malda

**Chairman  
(Ex-officio)**

**Member  
(Ex-officio)**

**Member  
(Ex-officio)**

**Member  
(Ex-officio)**

**Member  
(Ex-officio)**

**Member  
(Ex-officio)**

**Member  
(Ex-officio)**

**Member  
(Ex-officio)**

**Member  
(Ex-officio)**

BOARD OF

## GOVERNORS

**Prof. V.K. Tewari**

Chairman/BoG  
GKCIET, Malda

**Chairman**

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Joint Secretary (NIT), Ministry of Education, Shastri  
Bhawan, New Delhi.

**Member**

**Smt Darshana M Dabral**

Joint Secretary & FA,  
Integrated Finance Bureau, Govt. of India, Dept. of  
Higher Education, MHRD  
Shastri Bhawan, New Delhi

**Member**

**Shri Manish Jain, IAS**

Principal Secretary,  
Dept. of School Education, Govt.  
of W.B, Bikash Bhavan, Salt  
Lake, Kolkata

**Member**

**Dr. Krishna Gupta**

Principal Secretary,  
Department of Technical Education, Training & Skill  
Development, Government of West Bengal.

**Member**

**Prof. Raman Trivedi**

Director of Students Welfare Animal Science  
University, Bihar Veterinary College Campus, Patna

**Member**

**Dr. Ashis Dongre**

**Principal**

Sardar Vallabhbai Polytechnic College  
Shyamla Hills, Bhopal

**Member**

**Dr. Nilkanta Barman**

Associate Professor & HoD, ME,  
GKCIET, Malda

**Member**

**Prof. P. R. Alapati**

Director,  
GKCIET, Malda

**Member Secretary**

FINANCE

## COMMITTEE

**Prof. V. K. Tewari**

Chairman/BoG

GKCIET, Malda

**Smt Saumya Gupta**

Joint Secretary (NIT)

Govt. of India, Dept. of Higher Education,

Ministry of HRD, New Delhi

**Smt. Darshana M Dabral**

Additional/Joint Secretary & FA,

Govt. of India, Dept. of Higher Education,

Ministry of HRD, New Delhi

**Prof. S. S. Pattnaik**

Director,

NITTTR, Chandigarh

**Prof. Ayon Bhattacharjee**

National Institute of Technology,

Meghalaya

**Prof. P. R. Alapati**

Director, GKCIET, Malda

**Chairman**

**Member**

**Member**

**Member**

**Member**

**Member Secretary**

BUILDING AND WORKS

## COMMITTEE

**Prof. P. R. Alapati**

Director, GKCIET, Malda

**Shri M.M. Singh**

Director,

Ministry of HRD, Department of

Higher Education,

Shastri Bhawan, New Delhi.

**Chairman**

**Member**

**Prof. S. P. Singh**

Dept. of Civil

Engineering NIT,

Rourkela, Odisha

**Member**

**Dr. Dipankar Bose**

Dept. of Mechanical

Engineering

NITTTR, Kolkata

**Dr. Sarsing Gao**

Dept. of Electrical

Engineering NERIST,

Nirjuli

Arunachal Pradesh

**Member**

**Member**

**Dr.Koushik Paul**

Dean-Acad, Planning & Development GKCIET,

Malda

**Member**

ACADEMIC

## COUNCIL

*Chairman (Ex-officio)*

**Prof. P. R. Alapati**

**Director**

GKCIET, Malda

*Member*

**Prof. Gargy Das**

**Professor,**

IIT-Kharagpur

*Member*

**Prof. P. Parida**

**Professor,**

NERIST, Arunachal Pradesh

*Member*

**Dr. A. Arunachalam**

**Principal Scientist, ICAR**

Ministry of Agriculture & Farmer

Welfare,

Krishi Bhawan, New Delhi

*Member*

**Dr. Nilkanta Barman Dean-**

**Acad, P & D,**

**And HoD-Dept. of Mechanical Engineering,**

GKCIET, Malda

*Member*

**Dr. Sandip Chanda Dean-**

**Student Welfare,**

**And HoD-Dept. of Electrical**

**Engineering, GKCIET, Malda**

*Member*

**Dr. Kaushik Paul**

**Associate Professor & HoD**

Dept. of Civil Engineering, GKCIET,

Malda

*Member*

**Shri Showmik Bhowmik**

**Asst. Professor & HoD**

Dept. of Computer Science &

Engineering, GKCIET, Malda **Dr.**

*Member*

**Kshirod Kumar Dash Associate**

**Professor & HoD**

Dept. of Food Technology, GKCIET,

Malda

*Member*

**Dr. Debrup Hui**

**Associate Professor (Physics) & HoD**

Dept. of General Science & Engineering,

GKCIET, Malda

*Member*

**Shri Tridib Ranjan Das In**

**Charge – Non-formal**

GKCIET, Malda

*Member*

**Shri Dharmeswar Dash**

**Asst. Professor (ME)**

**& OSD-Academic**

GKCIET, Malda

*Member*

**Shri Uttam Kr. Ghosh**

**Asst. Librarian**

GKCIET, Malda





## ABOUT

### GHANI KHAN CHOUDHURY OF INSTITUTE OF ENGINEERING AND TECHNOLOGY

**Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET)**, Malda, West Bengal was established in 2010 by Ministry of Human Resource Development, Govt. of India under the mentorship of National Institute of Technology, Durgapur and in the memory of Sri A.B.A. Ghani Khan Choudhury who had contributed immensely to societal development of the region. The Institute is located at Malda, West Bengal with the bordering districts of Bihar, Jharkhand and North Eastern states. Ghani Khan Choudhury Institute of Engineering & Technology (GKCIET), Malda was established with the objective to create a multi-layered interdisciplinary and inter-sectorial efficient professional technical manpower to act as an international podium for the development and transfer of technical competence in academics. It is committed to provide best possible technical education from grass route level to higher level and to cater to the specific needs of women, school dropouts and other disadvantaged sections of society by organizing a large no of short/long term skills orientation programs for economic upliftment and inclusive growth of society. It was formulated that the Institute, besides catering to the needs of formal education would undertake the non-formal education to prepare the skilled and qualified manpower for self-employment. Further, the Institute would take up a strategic research and development activities, which along with entrepreneurship will help in extending the efforts of the Institute in imparting education to the unemployed and working population by updating and upgrading their technical skills. GKCIET is devoted to provide leadership, organizational expertise, technical assistance and the other resources required to meet the demand. The institute has started its academic programs from 2010-11 in the rented campus under Power Grid Corporation's Training Institute (TTCCampus), Malda until 2015-16 started shifting to its permanent campus (Under Construction) at Narayanpur, Malda from 2016-17 onwards and completely shifted by 2017-18 A.Y. Permanent campus at Narayanpur, Malda which is located at a distance of 7 km from Malda Town railway station and 0.7 km from NH 34 in an area of 78.48 acres surrounded by lush green mango gardens and agricultural fields with beautiful landscapes.

## Vision

GKCIET envision to be a lead Technical-Vocational University for inclusive growth and development of technical manpower through formal and non-formal mode mitigating the skilled manpower requirement of the nation.

## Short-term goal

To dissemination of technical knowledge and skill, inculcate entrepreneurship trait among rural youths using both formal as well as informal mode so that they could contribute to the sustainable development of the region in particular and India as a whole.

## Long-term goal

Institute is to become fountainhead in providing technological excellence in academics through formal/ non-formal Technical Education, Entrepreneurship & Research to meet the changing global needs of the society by transforming itself into Technical University.

### **Mission**

- Technical education and training in formal and non-formal sectors
- Development of competency-based curriculum and ICT based Courseware for professional courses
- Research & Development in the sphere of Science, Technology & Pedagogy
- Emphasizing to build institute Industry- entrepreneurship and Institute- Community interface
- Building collaboration with National and International Centres of Excellence and partnership with stakeholders
- Extension Services
- Industries in the neighborhoods and in the region.
- Working personnel, Passed out students. I.T.I & Polytechnics.
- Research and other institutes of Higher Learning

### **Objectives**

- Education and Training
- To offer flexible, modular, credit-based multi-point entry programs in engineering and technology.
- To offer diploma and B.Tech courses in different discipline.
- To offer Non-formal programme in different areas of technology to strengthen the scope of the institutional programme.
- To provide technical education facilities for women, school dropouts and other disadvantaged sections of society through specially designed courses.
- To offer continuing education programme for working personnel from industries at different levels to meet the requirements of large, medium and large industries.



## ABOUT CAMPUS

The campus of Ghani Khan Choudhury Institute of Engineering and Technology, spreads over 78.48 Acre of land, located at a place of scenic beauty in Narayanpur, Malda, West Bengal. The campus provide serene and pollution free academic environment. The campus includes administration block, academic block (A,B,C and D), residential block, girls hostel, Boys Hostel, Central workshop and Central Library.



AdministrationBlock



Academic BlockA



AcademicBlock B



Academic Block C



Central Workshop



Canteen



**Academic Block D(UnderConstruction)**



**Water Reservoir**



**Central Library**



**Hostel 1**



**Hostel 1 Entrance**

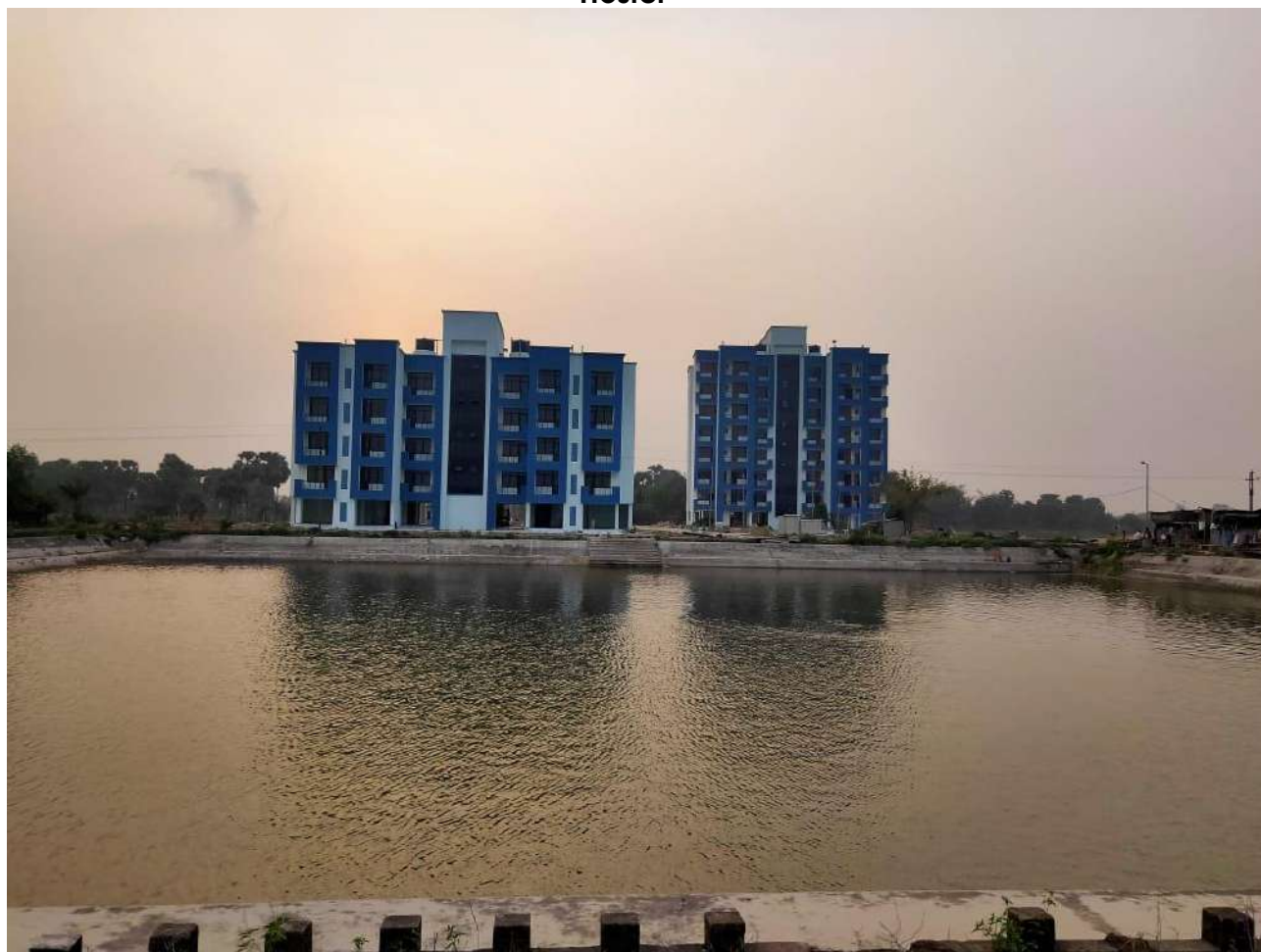


**Electric Substation with Power Back UP (DG, 250kVA)**





**Hostel**



**42 Units Staff Quarter along with nearby waterbody**

## Engineering Cell

**Annual Report  
Engineering Cell  
From 01.04.2021 to 31.03.2022**

**Department Name: Engineering Section (Civil)**

Sl No	Work Details	Current Status	Remarks
1	<p>In a continue constructions process of GKCIET infrastructure, some of the buildings, completion of constructional work for Academic block- D (Area- 3094 SQ.M), is in final stage.</p> <p>Construction work of Girls Hostel (Area- 7006 SQ.M) is handed over by the executing agency.</p> <p>Construction work of Boys hostel (Area- 7006 SQ.M) is in progress. Structural work almost completed. Necessary finishing works like, painting, electrification would be complete very soon.</p> <p>Construction work of residential quarter Type-III (Area- 3387 SQ.M) &amp; Type-IV (Area- 2539 SQ.M) is handed over by the executing agency.</p> <p>In addition, it is assumed that the physical progress of constructional activities nearly 94% completed.</p>	Work is In Progress	
2	Regular maintenance work of total campus area as well as rented Girls hostel building and Director accommodation cum office building works running smoothly.		
3	Regular Sweeping & Cleaning work in total campus area as well as rented Girls hostel building and Director accommodation cum office building works running smoothly.		All most eight persons are working in daily basis. Expenditure made nearly Rs. 150000 per month.
4	Campus development works in throughout the campus is going on through Engineering cell.		
5	GKCIET land related work in BL & LRO, DL & LRO office have been monitoring as and when required.		
6.	Any other specific scheduled work has been done by engineering section in time to time.		

**Department Name: Engineering Section (Electrical)**

Sl No	Work Details	Current Status	Remarks
1	<p>In a continue Phase-II of electrical works constructions of GKCIET was supervised on regular basis</p> <p>(i) Electrical works at Boys hostels are in progress.</p> <p>(ii) Electrical work of residential quarter Type-III &amp; Type-IV is completed and handed over by the agency (NBCC).</p>	Work is In Progress	
2	<p>Regular maintenance Electricals work (DG Sets, HT &amp; LT Panel in the Sub-Station, Air- Conditioners and Light-Fan etc.) total campus area as well as rented Girls hostel building and Director accommodation cum office building works have been monitored regularly.</p>		
3	<p>Work for electrification of Laboratories room at EE, ME, CSE, and FPT departments, Academic Block-A, B, C and Workshop GKCIET, Malda completed successfully.</p>		



## INITIATIVES TAKEN BY THE INSTITUTE TO MAKE THE CAMPUS ECO-FRIENDLY (2021-22)





# Academic Section

**Academic Section:****An Overview on Academics of the Institute:**

Ghani Khan Choudhury Institute of Engineering & Technology (GKCIET), Malda started its journey in 2010 with an objective to meet technical manpower requirements of the society and, of the country at different levels. In its beginning, the Institute started flourishing by offering modular pattern of education comprises of 2 years certificate (CE, CSE, EE, FPT, ME, ChT and STT), 2 years diploma (CE, CSE, EE, FPT and ME) and 2 years degree module (EE, FPT and ME). These diploma and degree programs were approved and renewed year-wise by the AICTE, New Delhi. In the year of 2016, all certificate and diploma courses were affiliated/recognized by the West Bengal State Council of Technical & Vocational Education and Skill Development (WBSCT&VE&SD), Kolkata. In the year of 2018, after joining the 1st regular Director of the Institute, Prof. P. R. Alapati; the Ministry of H.R.D, Govt. of India has issued a notification in the Gazette of India (Extraordinary, Part-I & Section-1) on 29.08.2018/ BHADRA 7, 1940 on the above modular pattern of education of the Institute. As applicable, the mark-sheets and certificates were issued accordingly to the passed-out students pursued certificate, diploma and degree programs under the modular pattern of education.

In the academic year of 2018-19, the Institute switched over to offer conventional 3 years diploma and 4 years B.Tech programs as per present requirement-based industry-oriented curricula of the AICTE. All of the diploma programs are affiliated to the West Bengal State Council of Technical & Vocational Education and Skill Development (WBSCT&VE&SD), Kolkata, and all B.Tech programs are affiliated to the Maulana Abul Kalam Azad University of Technology (MAKAUT), West Bengal.

**Academic Activities:**

The Institute is presently offering Diploma and B.Tech programs under affiliation with West Bengal State Council of Technical & Vocational Education & Skill Development (WBSCT&VE&SD) and Maulana Abul Kalam Azad University of Technology (MAKAUT), respectively. All related academic activities at the Institute level are, therefore, managed through the Academic Cell. The Academic Cell mainly deals with Admission, Registration, etc. of students under the affiliating Council/University along with conduction of examination-related activities under the affiliating Council/University. The Institute has a NAD Cell to avail facility of National Academic Depository (NAD) established by the Ministry of Education for the students of modular pattern of education only.

**Human Resources**

Sl. No.	Name of the Members	Designation	E-mail ID
1.	Dr. Koushik Paul	Dean (Acad., P&D)	<a href="mailto:koushik@gkciet.ac.in">koushik@gkciet.ac.in</a>
2.	Dr. Mudasir Ahmad Malik	Exam Coordinator/Degree	<a href="mailto:mudasir@gkciet.ac.in">mudasir@gkciet.ac.in</a>
3.	Ms Debadrita Roy	Academic Coordinator	<a href="mailto:debadrita@gkciet.ac.in">debadrita@gkciet.ac.in</a>
5.	Mr. Subrata Roy Dr. Rakesh Das	Exam Coordinator/Diploma	<a href="mailto:subrata@gkciet.ac.in">subrata@gkciet.ac.in</a> <a href="mailto:rakesh@gkciet.ac.in">rakesh@gkciet.ac.in</a>
6.	Mr. Tamal Kanti Sinha	LDC	<a href="mailto:tamal_ldc@gkciet.ac.in">tamal_ldc@gkciet.ac.in</a>
7.	Mr. Rajesh Chowdhury	Jr. Assistant	<a href="mailto:rajesh@gkciet.ac.in">rajesh@gkciet.ac.in</a>
8.	Mr. Sukumar Prasad	MTS	<a href="mailto:sukumar_mts@gkciet.ac.in">sukumar_mts@gkciet.ac.in</a>
9.	Mr. Aditya Kumar Singh	Assistant Registrar	<a href="mailto:ar_aditya@gkciet.ac.in">ar_aditya@gkciet.ac.in</a>
10.	Mr. Saumyajit Das	UDC	<a href="mailto:saumyajit_udc@gkciet.ac.in">saumyajit_udc@gkciet.ac.in</a>

**Academic Details:**

Details of present Academic Programs (offering since 2018-19):

The present 4-year B.Tech programs of the Institute are affiliated to the Maulana Abul Kalam Azad University of Technology (MAKAUT), West Bengal formerly known as West Bengal University of Technology (WBUT), and 3-year diploma programs are affiliated to the West Bengal State Council of Technical & Vocational Education and Skill Development (WBSCT&VE&SD), Kolkata.

Academic Programs	Name of the Streams	Intake capacity for 2021-2022(AICTE Approved)	Curricula Structure & Syllabus
B.Tech (4 years)	Electrical Engineering	54	<a href="http://makautexam.net/aicte_details/aicteugdetails.html">http://makautexam.net/aicte_details/aicteugdetails.html</a>
	Food Technology/Food Processing Technology	54	
	Mechanical Engineering	54	
Diploma (3 years)	Civil Engineering	54	<a href="https://webscte.co.in/Syllabus-part1">https://webscte.co.in/Syllabus-part1</a>  <a href="https://webscte.co.in/Syllabus-part2-part3">https://webscte.co.in/Syllabus-part2-part3</a>
	Computer Science & Technology	54	
	Electrical Engineering	27	
	Food Processing Technology	27	
	Mechanical Engineering	27	
Skill Development Programs	The Institute also offers training & skill development programs under the Non-Formal Section at grass root level with a target to make or acquire skill from unskilled to semiskilled, semiskilled to skilled and skilled to master craftsmanship for school dropouts, women and disadvantaged sections of the society. For details, please visit to the Non-Formal Section of the Institute.		

**Seat Distribution of the Academic Programs:**

Academic Programs	States/Territory	Seat Distribution	Entrance Examinations
B.Tech(4 years)	West Bengal	50% of total seats	WBJEE
	States of North-East (Sikkim, Assam, Arunachal Pradesh, Meghalaya, Tripura, Manipur, Mizoram and Nagaland)	25% of total seats	JEE(Mains)
	Other States excluding West Bengal & States of North-East	25% of total seats	JEE(Mains)
Diploma(3 years)	West Bengal	50% of total seats	JEXPO
	Other States excluding West Bengal	50% of total seats	GET (in 2021)

In case of Lateral Entry, i.e., admission directly to the 2nd year of B.Tech and Diploma programs is considered through the JELET and VOCLET counselling respectively, at present.

**Admission and Eligibility Criteria:**

Academic Programs	Basic Qualification	Other Criteria	
		For Candidates from West Bengal	For Candidates from other States excluding West Bengal
B.Tech(4 years)	Passed 10+2 Examination with Physics & Mathematics as compulsory subjects along with one of the Chemistry /Biotechnology /Biology /Computer Science/Computer App/Technical Vocational subject (subject to changes by WBJEE/CSAB/JoSAA).	Admission in 50% of the total seats is considered for the candidates of West Bengal through WBJEE Counselling. Accordingly, other criteria are as per the WBJEE criteria. <a href="https://wbjeeb.nic.in">https://wbjeeb.nic.in</a>	Admission in rest 50% (25% plus 25%) of the total seats is considered for the candidates from other States excluding West Bengal through JEE (Mains) Counselling (JoSAA/CSAB). Accordingly, admission criteria are as per the JEE (Main) guidelines. <a href="https://jeemain.nta.nic.in">https://jeemain.nta.nic.in</a> <a href="https://josaa.nic.in">https://josaa.nic.in</a> <a href="https://csab.nic.in">https://csab.nic.in</a>
Diploma(3 years)	Passed 10th Std. with at least 35% marks in the qualifying examination (excluding additional subject & without rounding-up; (subject to changes by WBJEE/CSAB/JoSAA).	Admission in 50% of the total seats is considered for the candidates of West Bengal through JEXPO Counselling. Accordingly, other criteria are as per the JEXPO criteria. <a href="https://webscte.co.in">https://webscte.co.in</a>	Admission in rest 50% of the total seats is considered for the candidates from other States excluding West Bengal through GKCIET Entrance Test (GET)/Others. However, in this case also, other criteria are considered as per JEXPO guidelines. <a href="https://webscte.co.in">https://webscte.co.in</a> <a href="http://www.gkci.ac.in">www.gkci.ac.in</a>

Eligibility Criteria for JELET is available at <https://wbjeeb.nic.in>.

Eligibility Criteria for VOCLET is available at <https://webscte.co.in>

**Reservation of Seats:**

Reservation policy issued by the Govt. of West Bengal from time to time is considered for the seats allotted for the candidates of West Bengal whereas the Central Govt. reservation policy is considered (as issued from time to time) for the seats allotted for the candidates from other states.

**Academic Activities at Institute Level:**

**Academic Cell.**After admission through WBJEE/JEE(Main)/JELET in B. Tech programs and JEXPO/GET/ VOCLET/Others in Diploma programs of the Institute, all B. Tech and diploma students are registered under the Maulana Abul Kalam Azad University of Technology, West Bengal and West Bengal State Council of Technical & Vocational & Skill Development, respectively. All academic rules & regulation of affiliating University/Council are applicable in completion of the academic programs. Accordingly, all students of the Institute are to be followed the Institute rules and discipline along with rules & regulation of affiliating Council/University.

**Statistics of Present Students (Since 2018-19):**

Academic Programs	Dept.	Year 2021-22		
		1st Year	2nd Year	3rd Year
B.Tech	EE	41	43	23
	FT/FPT	27	34	13
	ME	41	46	29
	Total (batchwise)	109	123	65
Diploma	CE	35	46	32
	CST	31	58	26
	EE	17	36	11
	FPT	11	17	08
	ME	16	27	15
	Total (batchwise)	110	184	92
Grand Total		219	307	157

**Statistics of passed out students under the modular pattern of education:**

The Institute offered modular pattern of education, i.e., 2 years certificate for A. Y. of 2010-11 to 2015-16, 2 years diploma for A. Y. of 2012-13 to 2017-18 and 2 years degree module for A. Y. of 2014-15 to 2015-16.

In the year of 2016, all certificate and diploma courses were affiliated/recognized by the West Bengal State Council of Technical & Vocational Education and Skill Development (WBSCT&VE&SD), Kolkata. According, all certificates to the passed out students are being issued jointly by GKCIET, Malda and State Council.

In the year of 2018 after joining the 1st regular Director of the Institute, Prof. P. R. Alapati, the Ministry of H.R.D, Govt. of India has issued a notification in the Gazette of India (Extraordinary, Part-I&Section-1) on 29.08.2018/ BHADRA 7, 1940 on the above modular pattern of education of the Institute. Accordingly, certificate to the passed out students of Degree Modules has been issued by GKCIET, Malda.

Details of students admitted under Modular Pattern of Education and the successfully passed out students' status are given in the following table.

A.Y.	Dept.	Certificate (2 years)				Diploma (2 years)				Degree (2 years)			
		Admitted	Year of admission	Passed Out	Year of Passed out	Admitted	Year of admission	Passed Out	Year of Pass out	Admitted	Year of admission	Passed Out	Year of Pass out
2010-12	FPT	21	2010	19	2012	-		-		-		-	
	EE	29		24		-		-		-		-	
	ME	28		24		-		-		-		-	
2011-13	FPT	23	2011	17	2013	-		-		-		-	
	EE	29		24		-		-		-		-	
	ME	26		19		-		-		-		-	
2012-14	FPT	14	2012	14	2014	22	2012	21	2014	-		-	
	EE	26		21		34		31		-		-	
	ME	24		24		32		30		-		-	
2013-15	FPT	30	2013	25	2015	27	2013	27	2015	-		-	
	EE	30		30		29		28		-		-	
	ME	29		29		30		27		-		-	
	CE	29		24		-		-		-		-	
	CSE	28		28		-		-		-		-	



2014-16	FPT	30	2014	25	2016	22	2014	21	2016	21	2014	21	2018
	EE	30		25		23		22		31		31	
	ME	30		24		21		20		30		30	
	CE	30		26		24		21		-		-	
	CSE	30		23		45		43		-		-	
	ChT	29		22		-		-		-		-	
	STT	30		25		-		-		-		-	
2015-17	FPT	23	2015	11	2017	10	2015	9	2017	25	2015	20	2019
	EE	30		16		15		14		28		25	
	ME	30		15		15		13		24		19	
	CE	30		18		18		16		-		-	
	CSE	29		10		22		22		-		-	
	ChT*	21		11		-		-		-		-	
	STT#	13		2		-		-		-		-	
2016-18	FPT	-	2016	-	2016	22	2016	21	2018	-	2018	-	2018
	EE	-		-		23		22		-		-	
	ME	-		-		21		20		-		-	
	CE	-		-		24		21		-		-	
	CST	-		-		45		43		-		-	
2017-19	FPT	-	2017	-	2017	10	2017	9	2019	-	2019	-	2019
	EE	-		-		15		14		-		-	
	ME	-		-		15		13		-		-	
	CE	-		-		18		16		-		-	
	CST	-		-		22		22		-		-	

\*ChT=Chemical Technology; #STT= Sericulture &amp; Textile Technology

**Statistics of Diploma and Degree students under the affiliation from West Bengal State Council of Technical & Vocational Education and Skill Development (WBSCT&VE&SD) and Maulana Abul Kalam Azad University of Technology (MAKAUT):**

A.Y.	Dept.	Diploma (3 years)				A.Y.	Dept.	Degree (4 years)			
		Admitted	Year of Admission	Passed Out	Year of Pass out			Admitted	Year of Admission	Passed Out	Year of Pass out
2018-21	FTP	2	2018	2	2021	2018-2022	FTP	9	2018	-	2022
	EE	14		14			EE	20		-	
	ME	8		8			ME	19		-	
	CE	10		10							
	CST	14		14							
2019-22	FTP	8	2019	-	2022	2019-2023	FT	13	2019	-	2023
	EE	11		-			EE	23		-	
	ME	15		-			ME	29		-	
	CE	32		-							
	CST	26		-							
2020-23	FTP	17	2020	-	2023	2020-2024	FT	34	2020	-	2024
	EE	36		-			EE	43		-	
	ME	27		-			ME	46		-	
	CE	46		-							
	CST	58		-							
2021-24	FTP	11	2021	-	2024	2021-2025	FT	27	2021	-	2025
	EE	17		-			EE	41		-	
	ME	16		-			ME	41		-	
	CE	35		-							
	CST	31		-							



GKCIET, Malda has received the approval from Competent Authority to conduct Skill development courses under KARMA scheme, SKP scheme and TC scheme. These courses are supposed to start very soon.

**Information regarding Academic Activities:**

Regarding registration & other notifications by the affiliating Council/University	B. Tech: <a href="https://makautwb.ac.in">https://makautwb.ac.in</a> Diploma: <a href="https://webscte.co.in">https://webscte.co.in</a>
Fees Structure	Diploma: Diploma Fees Structure for all batches <a href="https://www.gkciet.ac.in/tution_fees">https://www.gkciet.ac.in/tution_fees</a> B.Tech: B. Tech Fees Structure for students admitted in 2018-19 Session and onwards <a href="https://www.gkciet.ac.in/tution_fees">https://www.gkciet.ac.in/tution_fees</a>

**NAD Cell:**

National Academic Depository (NAD) is a 24×7 online store house set-up by the Ministry of Education, Govt. of India to facilitate easy access and verify of academic credentials such as mark-sheets, certificates etc. An Institute level cell with following members has been established to avail the facility for the students of modular pattern of education only. In compliance with Govt. of India directives, the Institute has already initiated transferring academic records/data of students from CVL repository to NAD-Digilocker.

Sl. No.	Members of NAD Cell	Designation	E-mail ID
2.	Mr. Dharmeswar Dash	In-Charge	<a href="mailto:dharmeswar@gkciet.ac.in">dharmeswar@gkciet.ac.in</a>
3.	Ms. Debadrita Roy	Nodal Officer	<a href="mailto:debadrita@gkciet.ac.in">debadrita@gkciet.ac.in</a>
5.	Mr. Siraj UdDoulah	Member	<a href="mailto:siraj@gkciet.ac.in">siraj@gkciet.ac.in</a>
6.	Mr. Amiunghu Karmakar	Member	<a href="mailto:amiunghu@gkciet.ac.in">amiunghu@gkciet.ac.in</a>
7.	Mr. Gopal Bandyopadhyay	Member	<a href="mailto:sm@gkciet.ac.in">sm@gkciet.ac.in</a>
8.	One LDC cum Typist/Exam Cell	Member	

**TECHNICAL EDUCATION SECTIONS**

S	Department
N	
1	Electrical Engineering
2	Mechanical Engineering
3	Food Technology
4	Civil Engineering
5	Computer Science and Technology
6	Applied Science
7	Humanities and Social Science

# DEPARTMENT OF ELECTRICAL ENGINEERING

## Overview of the Department

### VISION

To train the youth of today with modern technology and tools to become world class Electrical Engineering Technocrats of tomorrow, who will be able to develop sustainable green infrastructure for the growth of the nation and beyond.

### MISSION

M1: To create and sustain an environment, for critical thinking and problem solving.

M2: To prepare the students for new challenges and opportunities in the field of electrical engineering.

M3: To strive to be at the forefront of Research and maintain intensive interaction with Industry and leading Research Centres, where students can be engaged in Projects, Training and Internships.

M4: To undertake collaborative projects and consultancy which offer opportunities for long-term interaction with academia and industry.

M5: To stimulate passion and creativity for innovation and to impart leadership quality in individuals for entrepreneurship development.

### PROSPECT

Electrical Engineering is one of the core engineering disciplines, primarily deals with the study and practice of Electrical Power Generation, Transmission and Distribution but has manifested extensively in the control of Electrical Power in the last century. Application of Electrical Engineering encompasses almost all the engineering industry such as transportation, metallurgy, process control, etc apart from electrification. In 2010, the institute started offering B.Tech and Diploma in Modular Pattern in Electrical Engineering. In 2014, the B.Tech programme in Electrical Engineering obtained the affiliation from Maulana Abul Kalam Azad University of Technology (Formerly WBUT) and the Diploma in Electrical Engineering obtained its affiliation from West Bengal State Council of Technical Education (W.B.S.C.T.E). All the programmes of the department is approved by All India Council of Technical Education (AICTE). There is great employment prospects for Electrical Engineers in government and public sectors like the NTPC, railways, municipalities/urban local bodies, Defence, CPWD/PWD, SETCL and DCL and different medium and large scale industry.

## **AREAS OF RESEARCH & CONSULTANCY**

Artificial Intelligence (AI), Artificial Intelligence in application of Electrical Engineering (AIEE), Biosystems & Computational Biology (BIO), Control Intelligent Systems and Robotics (CIR), Control Systems (CS), Cyber-Physical Systems and Design Automation (CPSDA), Education (EDUC), Electrical Machines & Drives (EMD), Electric Vehicle (EV), Energy (ENE), Information Data Network and Communication Sciences (IDNCS), Integrated Circuits (INC), Micro/Nano Electro Mechanical Systems (MEMS), Power Electronics Converters Design and Control (PECDC), Power Systems (PS), Physical Electronics (PHY) and Signal Processing (SP).

## **PROGRAMME EDUCATIONAL OBJECTIVES**

PEO 1. (Social contribution) - To train the students to solve real world problem through intensive practice, to guide the students to work on industry-oriented projects and to provide support for vocational training and visits to factories which will develop a sense of social contribution among the students and will motivate and inspire them for value addition to the society for each and every Endeavour.

PEO 2. (Tech and ICT skills) - To train the students on fabrication, assembly, operation, maintenance of all kinds of electrical machines and systems as well as on various programming languages as C, C++ so that they are able to develop suitable hardware and software interface to integrate electrical equipment.

PEO 3. (Communication and professional skills) - To develop competence in written communication, project documentation and paper writing as well as develop good verbal communication. To help them in developing public speaking skills along with accountability, profitability, values and ethics & professional behavior to survive in a multidisciplinary environment.

PEO 4. (Industry orientation with social awareness) - To provide the students with opportunities for vocational training, industry visits, to make them aware of the industry and accustoming them with social concerns and professional responsibility.

PEO 5. (Higher study and research with lifelong learning) - To create the opportunity to work in major or minor projects with reputed academicians as well as industry professionals and encourage them for research, continued professional training to make them aware and adaptive to changes in workplace through formal and informal training throughout their lifetime.

**PROGRAMME SPECIFIC OUTCOME (P.S.O.)**

PSO 1. Ability to use engineering knowledge to model and analyse the components of electrical power systems.

PSO 2. Ability to apply the knowledge of science and engineering to develop sustainable electrical systems for social and industrial need.

**PROGRAMME OUTCOME (P.O)**

PO 1. (Engineering knowledge) - Ability to apply the knowledge of mathematics, physical sciences and computer science and engineering specialization to the solution of complex engineering problems.

PO 2. (Problem analysis) - Ability to identify, formulate and analyze complex real-life problems in order to provide meaningful solutions by applying knowledge acquired in computer science and engineering.

PO 3. (Design/development of solutions) - Ability to design cost effective software/hardware solutions to meet desired needs of customers/clients.

PO 4. (Conduct investigations of complex problems) – Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions in the field of computer science and engineering.

PO 5. (Modern tool usage) - Create, select and apply appropriate techniques, resources and modern computer science and engineering tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO 6. (The engineer and society) - Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7. (Environment and sustainability) - Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8. (Ethics) - Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9. (Individual and team work) - Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10. (Communication) - Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective

presentations, and give and receive clear instructions.







PO 11. (Project management and finance) - Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12. (Life-long learning) - Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.


### FACULTY, TECHNICAL AND OFFICIAL STAFF PROFILE

Name	Name, Designation and Email.	Qualification
	<b>Name: Dr. Sandip Chanda</b>  <b>Designation:</b> Dean Student Welfare, Associate Professor and HoD,EE  <b>Email:</b> <a href="mailto:sandip@gkciet.ac.in">sandip@gkciet.ac.in</a>	DEE, B. E,M.Tech, PhD(Engg)
	<b>Name:</b> <b>Dr. Surajit Chattopadhyay</b>  <b>Designation:</b> Associate Professor  <b>Email:</b> <a href="mailto:surajit@gkciet.ac.in">surajit@gkciet.ac.in</a>	Bsc(Physics Hons.), B. Tech., M. Tech., Ph.D. (Tech)
	<b>Name: Dr. Tapash Kr. Das</b>  <b>Designation:</b> Assistant Professor  <b>Email:</b> <a href="mailto:tapash@gkciet.ac.in">tapash@gkciet.ac.in</a>	D.EE, B. Tech, M. Tech, Ph.D
	<b>Name: Dr. Chiranjit Sain</b>  <b>Designation:</b> Assistant Professor  <b>Email:</b> <a href="mailto:chiranjit@gkciet.ac.in">chiranjit@gkciet.ac.in</a>	B.Tech, M.Tech, PhD (Electrical Engg.)

	<p><b>Name:</b> Dr. Raja Ram Kumar</p> <p><b>Designation:</b> Assistant Professor</p> <p><b>Email:</b> <a href="mailto:rajaram@gkciet.ac.in">rajaram@gkciet.ac.in</a></p>	B.Tech, M.Tech, Ph.D (EE)
	<p><b>Name:</b> Dr. Amarjit Roy</p> <p><b>Designation:</b> Assistant Professor</p> <p><b>Email:</b> <a href="mailto:amarjit@gkciet.ac.in">amarjit@gkciet.ac.in</a></p>	B.Tech, M.Tech, Ph.D (ECE)
	<p><b>Name:</b> Mr. Goutam Kumar Ghorai</p> <p><b>Designation:</b> Assistant Professor</p> <p><b>Email:</b> <a href="mailto:goutam@gkciet.ac.in">goutam@gkciet.ac.in</a></p>	Bsc (Physics Hons.), B. Tech., M. Tech
	<p><b>Name:</b> Mr. Rajeev Kumar</p> <p><b>Designation:</b> Assistant Professor</p> <p><b>Email:</b> <a href="mailto:rajeev@gkciet.ac.in">rajeev@gkciet.ac.in</a></p>	B.Tech, M.Tech.
	<p><b>Name:</b> Ms. Smita Anand</p> <p><b>Designation:</b> Lecturer</p> <p><b>Email:</b> <a href="mailto:smita@gkciet.ac.in">smita@gkciet.ac.in</a></p>	B.Tech, M.Tech. (Pursuing)
	<p><b>Name:</b> Mr. Amiungshu Karmakar</p> <p><b>Designation:</b> Senior Trainer</p> <p><b>Email:</b> <a href="mailto:amiungshu@gkciet.ac.in">amiungshu@gkciet.ac.in</a></p>	B.Tech.

	<p><b>Name:</b> Mr. Pranab Mandal</p> <p><b>Designation:</b> Trainer</p> <p><b>Email:</b><a href="mailto:pranab_mandal@gkci.ac.in">pranab_mandal@gkci.ac.in</a></p>	Diploma & B.Tech
	<p><b>Name:</b> Md Mehbub Alam</p> <p><b>Designation:</b> Senior Technical Assistant</p> <p><b>Email:</b><a href="mailto:mehbub@gkci.ac.in">mehbub@gkci.ac.in</a></p>	B.Tech
	<p><b>Name:</b> Mr. Amit Koley</p> <p><b>Designation:</b> Technical Assistant</p> <p><b>Email:</b><a href="mailto:amit@gkci.ac.in">amit@gkci.ac.in</a></p>	Diploma
	<p><b>Name:</b> Mr. Ayan Banik (C Eng.)</p> <p><b>Designation:</b> Technical Assistant</p> <p><b>Email:</b><a href="mailto:ayan@gkci.ac.in">ayan@gkci.ac.in</a></p>	Diploma, B.Tech, M.Tech (Pursuing)
	<p><b>Name:</b> Mr. Dhaju Mohamad</p> <p><b>Designation:</b> Trainer</p> <p><b>Email:</b><a href="mailto:dhaju@gkci.ac.in">dhaju@gkci.ac.in</a></p>	Diploma
	<p><b>Name:</b> Mr. Sankar Mukherjee</p> <p><b>Designation:</b> Trainer</p> <p><b>Email:</b><a href="mailto:sankar@gkci.ac.in">sankar@gkci.ac.in</a></p>	Diploma



	<b>Name: Mrs. Kakali Das</b>  <b>Designation:</b> <b>Multi-Tasking Staff</b>  <b>Email:</b> <a href="mailto:kakali_mts@gkciet.ac.in">kakali_mts@gkciet.ac.in</a>	B. A. Pass
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## Programme Offered 2021-22

Programme	Duration	Trade/ Specialization	Student Intake	Admission
Diploma	3 Years	Electrical Engineering	30	JEXPO & GET
B.Tech	4 Years	Electrical Engineering	60	JEE, JEE (Mains), CSAB, JOSSA

## Infrastructural Development 2021-22

The Department has 10 enclosures for laboratory work namely Power System Lab, Electrical Machine Lab I and Electrical Machine Lab II, Microprocessor Lab, Analog and Digital Lab, Electrical Circuit Theory Lab, Power Electronics and Drives Lab, Control System Lab, Tinkering Laboratory, Basic Electrical Engineering Lab, and Electrical Measurement Lab. The following are the present infrastructural facilities available in these laboratories:

<i>Sl no</i>	<i>Name</i>
<b>Power System Lab</b>	
1	Oil Testing Kit 60 kv (Make Electro- Tech) Model ET4050MN
2	Digital Cable Locator and Combines with Cable Fault Locator
3	Trainer kit for study sodium vapour lamp, make-nic
4	DC Voltage source
5	Mercury Vapour lamp
6	Compact fluorescent lamp
7	Generalized Constant A B C D of a long Transmit line
8	Determination of break down strength of solid instrument material

9	Test on over current relay
10	Directional over current relay
11	Over current time relay
12	CRO(os-30)
13	Insulation tester (megger)500v
14	Insulation Tester (Motor Cum hand Operated)
15	Computer set
16	E-TAP 2019 Software
<b>Electrical Machine Lab I &amp;II</b>	
18	Speed Control of DC Motor with ckt. Panel
19	Study of Equivalent Circuit of Three Phase Squirrel Cage Induction motor No-load and Blocked Rotor Test ckt. panel with induction motor
20	Load test on single phase induction motor
21	Study of the performance of wound induction motor under load
22	Z P F Test & potier Reactance Determination of a Single-phase induction motor
23	Ch- DC Compound Generator
	Determination of Equivalent Circuit of a single-phase induction motor
25	1 Ph Transformer 1 KVA
26	Variac Open type 1-Ph
27	Motor starter (AC/DC)
28	DC Power Supply RPS 3002

29	Varic 3Ph
30	Computer Setup
<b>Microprocessor Lab</b>	
31	8085 microprocessor kit
32	Zero crossing Detector
33	Peak detector
34	DC Power Supply
<b>Analog and Digital Lab</b>	
35	Digital IC Trainer
36	Analog And Digital & Digital To Analog Convertor Training
37	OP-Amp Trainer
38	10 Mhz Function Generator with T.T. L/Coms Output
39	Analog And Digital Bread Board Trainer
40	F.E.T Amplifier With Power Supply Model – ETB- 041
41	R.F.(L-C) Oscillators (Hartley's Colpitts And Clapp's) With Power Supply Model – ETB -025
42	Logic Training Board On Counter & Shift Register With P.S. Model No. LTB -811
43	Characteristics Of Coms IC with Power Supply & 2 Digital Meter (C.R.) Model LTB – 866
44	Audio Amplifier With Power Supply Model – ETB-20
45	Junction Diode Rectifier & Filter Characteristics With Power Supply And 2 Meters Model-ETB-081
46	Diode Zener Diode Characteristics with Power Supply And Two Dual Range Model – ETB 051

47	FET Characteristics with Power Supply & 3 Meters Model ETB- 053
48	Comparative Study Of CE, CB & CC Amplifier with Power Model – ETB-115
49	Free Running Multivibrator (Astable) With Power Supply Model- ETB 026
50	Semi-Conductor Diode Characteristics WithPower Supply And Dual Range Meters, Model – ETB-086
51	Monostable Multivibrator (Astable) With Power Supply Model- ETB 028
52	Transistor Feedback Amplifier with Power Supply And 1 Kh 2OSC Model –ETB-056
53	Phase shift Audio OscillatorsWith Power Supply Model ETB-024
54	Computer set
	<b>Electrical circuit theory</b>
55	10 Mhz Function Generator with T.T. L/Coms Output
56	2 Mhz Function Generator with Counter
57	Network & Bridge Trainer (NBT 01)
58	Measurement of Displacement Using LvdT
59	Temperature Transducer trainer (TT-TTT)
60	AC Fundamental Training Board
61	RIC Circuit, Model-AI-RLC
62	Trainer Kit For Determination of Frequency Of LP & HP Filter,
63	Make-VPL info Tech Consultant Model-AFT
64	Trainer Kit For Determination Of frequency Response Of BP & Br Filters, make-VPL InfoTech And Consultant, Model – Albft
65	Measurement Of Induction & Capacitance By Maxwell LC Bridge Model-ETB-135

66	Owen's Bridge ETB 230
67	Measurement Of Unknown Capacitance By Schering Bridge Model-ETB-229
	<b>Power Electronics</b>
68	To Study The Operation Of Inverting Operational Amplifier, Complete with Power Supply And Manual –VPL Info Tech Consultant,
69	To Study The Operation Of Weighted, Summer Using Of Pumps, Make-InfoTech & Consultant, Model-AL-Atop
70	To Study The Operation of Inverting Integrator Using Op Amps, Make-VPL-InfoTech & Consultant, Model- AL-Atop
71	Trainer Kit For Transient Response of RC With ALL Necessary Meters And Monocle, Make –VPL info Tech Consultants Model-AL RLC
72	Trainer Kit For Determination of Frequency Response of BP & Br Filters, make-VPL InfoTech And Consultant, Model – AL BFT
73	Trainer Kit For Determination Of Frequency Of LP & HP Filter,
74	Make-VPL info Tech Consultant Model-AFT
75	Trainer Kit For Transient Response of RC With ALL Necessary Meters and Monocle, Make –VPL info Tech Consultants Model-AL RLC
76	RLC Circuit
77	Trainer kit Determination of Parameter of Two Port Network With All Necessary Meters & Manual
78	Temperature Transducer TT AD590
79	Measurement of Temperature TT RTD
80	Measurement of temperature Using Thermocouple Model TT- TCT
81	100 Mhz 1 Gs/s with FFT Colour Digital Storage Oscilloscope
82	40 Mhz JCB, Arbitrary Wave From Generator
<b>Control System</b>	

83	Computer Set
84	Matlab (software)
<b>Tinkering Laboratory</b>	
85	Solar Inverter NXG 750
86	Battery Exide
87	Battery Exide heavy duty
88	LED Street light
89	Solar P V Module
<b>Basic Electrical Engineering Lab</b>	
90	Ammeter,voltmeter,multimeter,wattmeter, Resistor,clamp on meter
91	House wiring
92	Cut-view of dcmachines,Megger
<b>Electrical Measurement Lab</b>	
93	Schering bridge trainer kits
94	Maxwell's L/C bridge trainer kits
95	Wien Bridge audio oscillator
96	LVDT trainer kits
97	Temperature transducer
98	Measurement of self-Inductance by OWEN'S bridge
99	Multimeter, voltmeter, ammeter wattmeter

100	Three phase power measurement
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\*Apart from the above, the Department is in the process of receiving new advanced equipment and Machines for different Labs. worth Rs.25 Lakh shortly.

## Student Results 2021-22

- In B.Tech<sup>4<sup>th</sup></sup> year 7<sup>th</sup> semester all the appeared students have passed. The highest marks being **9.37**
- In B.Tech 3<sup>rd</sup> year 5<sup>th</sup> & 6<sup>th</sup> semester all the appeared students have passed. The highest marks being **9.73**
- In B.Tech 2<sup>nd</sup> year 3<sup>rd</sup> & 4<sup>th</sup> semester all the appeared students have passed, The highest marks being **9.56**
- In B.Tech<sup>1<sup>st</sup></sup> Year 1st semester all the appeared students have passed, The highest marks being **9.54**
- In Diploma 3rd year 6<sup>th</sup> sem. all the appeared students have passed, the highest marks being **9.3**
- In Diploma 2nd year 4<sup>th</sup> sem. all the appeared students have passed, the highest marks being **9.5**
- In Diploma 1st year, 1<sup>st</sup> sem. all the appeared students have passed, the highest marks being **9.2**

### Student Achievement 2021-22

- B. Tech 3rd year students' Team "ENERGY TECH-2020" has been selected as single winner in grand finale of "SMART INDIA HACKATHON (SIH-2020) HARDWARE EDITION" in Renewable Energy Category, under the mentorship of Mr. Tapash Kr. Das, for their innovative project prototype development: "Remote Monitoring, Diagnosis, and Maintenance of Micro-grid using Arduino based Controller"- organized by Department of Science and Technology and Innovation Cell, Ministry of Education and received 1 lakh cash prize awarded by ministry of education in the year 2021.



## Following Is the List of Student Achievers

<i>B.Tech Students' Achievement Data Between 1st April 2021 to 31st March 2022</i>		
Sl No.	Name of the Participant	Activities
1	SAGNIK KUNDU	Got Admission offers from IIMs and IITs regarding the MBA program.
2	ARNAB MONDAL	Deep learning with AI, NHPC visit, internship on IoT
3	ARINDAM DAS	Vocational Training at Tikiapara EMU Carshed, AutoCAD Electrical Advance, Internship in IoT Project Development using Industry Grade Microcontroller, Industrial Visit in NHPC, TLD-IV Power Station in Kalijhora, Design and development of Solar Powered e-Vehicle, Internship in IOT Project Development Using Tesla IoT Board, Electric Cars: Technology from edX, Introduction to Internet of Things from NPTEL
4	MOHIT SHARMA	Certificate of appreciation in securing online payment: securing digital space certificate of appreciation in password and WiFi security
5	SHUBHAM ANAND	Qualified GATE 2022 with AIR 5851 in 3rd year
6	ROHIT NAYAK	Qualified GATE 2022 in 3rd year.

## Faculty Contribution to Department and Institute Administration 2021-22

Name	Interaction
<b>Dr. Sandip Chanda</b>	Dean Student Welfare, HoD, EE, Chair Anti Ragging Committee, Scholarship Verification Committee, Various LPCs, EBSB Club, Fitness Club, Sports Committee, Member SPIC Macay, MOOCs coordinator, Institutional and Departmental Admission Committee member,
<b>Dr. Surajit Chattopadhyay</b>	<ul style="list-style-type: none"> <li>Performed invigilation duties in GKCIET recruitment examination.</li> <li>Taken various classes of B. Tech, Third year and fourth year students</li> <li>Set questions for class test, taken Class Assessment of B. Tech. students as per curriculum</li> <li>Contributed in listing books for Electrical Engineering for purchase</li> <li>Performed duties in GKCIET Sports held on 26th January 2022.</li> <li>Participated in Virtual Lab Workshop organized by IIT KGP and GKCIET</li> <li>Mentoring B. Tech students</li> </ul>
<b>Dr. Tapash Kr. Das</b>	Taken various theory and practical classes of B.Tech & Diploma courses, Chairman of Annual Stock Verification Committee, In-



	charge of Solar Rooftop Power Plant Committee, Member of IIE Cell. Curriculum Developer and Course Coordinator of short term BSF employee's Training programme, Mentor of students' Team "ENERGY TECH-2020", selected as single winner in grand finale of "SMART INDIA HACKATHON (SIH-2020) HARDWARE EDITION" in Renewable Energy Category <b>organized</b> by Department of Science and Technology and Innovation Cell, Ministry of Education, In-charge of LPC and Member of Anti Ragging Committee.
<b>Dr. Chiranjit Sain</b>	Member of Internal Complaints Committee (ICC), Member of LPCs, Member of COVID-19 Monitoring Committees, Mentoring B.Tech students
<b>Dr. Raja Ram Kumar</b>	Taking Theory and practice classes for Diploma and B.Tech Courses, Supervising four B.Tech students for their project work, Invigilator for various Examination and Member of COVID-19 Monitoring Committees.
<b>Dr. Amarjit Roy</b>	Taking Theory and practice classes for Diploma and B.Tech Courses, Invigilator for various Examination and Member of COVID-19 Monitoring Committees.
<b>Mr. Goutam Kumar Ghorai</b>	Course coordinator of B.Tech & Diploma classes. Chairman of Time-Table committee, Chairman of Smoking and Tobacco-Free Zone Committee, Chairman of Tender & Specification committee, Chairman of Library Annual stock verification Committee, Fire & safety officer of the Institution, CA Coordinator, Member of Training & Placement coordinator for Electrical Engineering Department. Member of solar rooftop power plant committee. Member of e-Yantra committee of GKCIET.
<b>Mr. Rajeev Kumar</b>	Taking Theory and practice classes for Diploma and B.Tech Courses, Invigilator for various Examination and Member of COVID-19 Monitoring Committees.
<b>Smita Anand</b>	Taking classes of diploma courses and diploma projects, Girl hostel incharge, Invigilator for various examinations and Member of Library Committee.
<b>Mr. Amiungshu Karmakar</b>	1. Taking Classes of Diploma Courses and Diploma Projects. 2. Employee Service Book Verification and Certifying Officer. 3. Member of Time to Time Parliament (R.S & L.S) Q & A Committee. 4. Member Of Institute Admission Committee For Diploma And B.Tech Admission 2021-22 5. Member Of Nad Cell 6. Institute Obc Liaison Officer. 7. Member of Hindi Cell. 8. Member of institute anti-ragging committee 9. Invigilator For Various Examination. 10. Co-Ordinator of BSF Electrical Training Programme. 11. Departmental Lab In-Charge- Control System Lab. 12. Mentor Of Diploma Students. 13. Member of Hindi Cell. 14. Member of the Anti-tobacco Committee. 15. Member of COVID-19 Monitoring Committees

<b>Mr. Pranab Mandal</b>	<p>Taking classes of diploma courses and diploma project.</p> <p>Member of institute admission committee for diploma and b.tech admission 2021-2022</p> <p>Invigilator for various examination.</p> <p>Co-ordinator of bsf electrical training programme.</p> <p>Departmental lab in-charge- power system lab.</p> <p>IGNITE lab incharge.</p> <p>Time table committee, preparation of class routine.</p> <p>Mentor of diploma students.</p> <p>Co-Ordinator Of BSF Electrical Training Programme.</p> <p>Member of COVID-19 Monitoring Committees</p> <p>Member of Annual Stock Verification committee.</p> <p>Member of institute anti-ragging committee.</p>
<b>Md Mehbub Alam</b>	<p>1. Taking lab classes of Diploma and B.Tech Courses. 2. Member of Local Purchase Committee. 3. Member of the Anti-Ragging Committee</p> <p>4.Coordinator of Bsf Electrical Training Programme</p> <p>5.Member of COVID-19 Monitoring Committees</p>
<b>Mr. Amit Koley</b>	<p>Take various classes (Practical) for Diploma and B.Tech students of EE department in different semesters. 2. Member of COVID-19 Monitoring Committees. 3. IT- Co-ordinator of electrical engineering department</p>
<b>Er. Ayan Banik</b>	<p>Taken various lab classes for Diploma &amp; B.Tech Students and actively involved in departmental activities</p>
<b>Mr. Dhaju Mohamad</b>	<p>(1) Take various classes (Practical) for Diploma and B.Tech students of EE department in different semesters. (2) I have completed my Invigilator duties for various examinations (3) Member of Cultural committee. (4) Annual sports committee. (5) Annual stock verification. (6) Member of NAD cell. (7) Member of TPO cell. (8) Member of skill development courses under UTKARSHA BANGLA. (9) Course Coordinator of BSF Electrical Training Programme (10) Member of Anti-ragging squad. (11) Achieved certification of participation in various FDPs, ATAL, STTP ICT mode, Workshop, Webinar etc in different subjects of engineering fields.</p>
<b>Mr. Sankar Mukherjee</b>	<p>Chairman of streamline the record maintenance process in Store &amp; Purchase Section, Taking various classes (Practical) for Diploma and B.Tech students. Coordinator of Bsf Electrical Training Programme.</p>
<b>Mrs. Kakali Das</b>	<p>He has been involved in the different miscellaneous tasks of the department and helps in smooth conduction of the day-to-day activities of the department</p>

## Faculty Interaction with the outside world in 2021-22

- **Dr. Sandip Chanda** was approved by MAKAUT to act as Co-supervisor for his PhD scholars in the month of April, 2021.
- **Dr. Sandip Chanda** has delivered an invited lecture on “Electrical Power: Network, Utilisation and Future Prospect” at Electrical Engineering Department of Adamas University on July 3<sup>rd</sup>, 2021.
- **Dr. Sandip Chanda** has delivered an invited lecture on “National Education Day Talk” at Gargi Memorial Institute of Technology on 11<sup>th</sup> September, 2021
- **Dr. Sandip Chanda** has delivered an invited lecture on “NAAC Accreditation in Affiliated Colleges at Gargi Memorial Institute of Technology on 29<sup>th</sup> and 30<sup>th</sup> November, 2021
- **Dr. Sandip Chanda** has chaired a session in 18<sup>th</sup> IEEE Indian Council International conference (INDICON 2021) 19<sup>th</sup>- 21<sup>st</sup> Dec, 2021.
- **Dr. Sandip Chanda** has delivered an invited lecture on “Applications of IoT in Smart Grid”, at Electrical and Electronics Department of Port City International University, Bangladesh on 21<sup>st</sup> May, 2021.
- **Dr. Sandip Chanda** has delivered a keynote address on “COVID 19 and Electric Grid Utility’s first response” in the National Conference of Emerging trends in Engineering and Research organised by Department of Electrical Engineering, JIS College of Engineering, Kalyani, June 29-30, 2021.
- **Dr. Sandip Chanda** has chaired a session in international conference on Energy Systems, Drive and Automation (ESDA 2021) on 30-31<sup>st</sup> Dec, 2021.
- **Dr. Sandip Chanda** has chaired a session in 4<sup>th</sup> International Conference on Computing Power and Communication Technologies on September 24-26, 2021.
- **Dr. Sandip Chanda** has delivered a session on “Universal Human Values” in Technique Polytechnic Institute on November 12, 2021.
- **Dr. Sandip Chanda delivered** a session on “E-content development” In the AICTE-ISTE Sponsored virtual induction programme at Technique Polytechnic Institute on January 12, 2022.
- **Dr. Sandip Chanda** had attended on week AICTE-ISTE Refresher course on “Application of ETAP for design and analysis of power system network “25<sup>th</sup>-31<sup>st</sup> January, 2022.
- **Dr. Sandip Chanda** has reviewed an article titled “Technologies, Mathematical Models, and Challenges Ahead for Demand Response in Natural Gas” in September, 2021 for IEEE Access
- **Dr. Sandip Chanda** has reviewed an article titled “Residential Demand Response based Load-Shifting Scheme to Increase Hosting Capacity in Distribution System” in January, 2022 for IEEE Access
- **Dr. Sandip Chanda** completed 4 Reviews for the Journal “Energy Strategy Reviews”, Elsevier in November, 2021.

- **Dr. Sandip Chanda** completed a review for the Journal “Engineering, Science and Technology – an international Journal” (JESTECH), Elsevier in August, 2021
- **Dr. Sandip Chanda** was awarded Elsevier Reviewer recognition International Journal of Electrical Power and Energy Systems, Elsevier for completing 14 Reviews till November, 2021.
- **Dr. Tapash Kr. Das** has received his PhD degree in Engineering from Jadavpur University in 2021
- **Dr. Tapash Kr. Das** has attended a One-week AICTE-ISTE Induction/Refresher FDP Program on "Application of ETAP for Design & Analysis of Power System Network" from 25th to 31st Jan 2022.
- **Dr. Tapash Kr. Das** was the faculty representative, attended Industrial Visit at TLDP-IV, NHPC, Kalijhora, Darjeeling in 2021.
- **Dr. Tapash Kr. Das** has participated in the BSF Employees Training Programme as a Course Coordinator & Developer in 2021.
- **Dr. Tapash Kr. Das** has attended a training Programme on Virtual Labs. organized by **GKCIET & IIT, KGP** in 2021.
- **Dr. Chiranjit Sain** has attended and successfully completed online FDP on “Inculcating Universal Human Values in Technical Education” organized by AICTE during 03.01.2022-07.01.2022.
- **Dr. Chiranjit Sain** has attended and successfully completed a 5-day online FDP on the theme “Part 1 of the online UHV Refresher 1” organized by All India Council of Technical Education I (AICTE) during 07.02.2022-11.02.2022.
- **Dr. Chiranjit Sain** attended a one-day program on “data privacy and creating a secure cyberspace for the state and the country” by cyber–Security Centre of Excellence, West Bengal on 28.01.2022.
- **Dr. Chiranjit Sain** is recognized as a PhD co-supervisor at NIT Mizoram to guide few PhD scholars.
- **Dr. Chiranjit Sain** completed a review for the Journal “Journal for Control, Measurement, Electronics, Computing and Communications” (Automatica) in March, 2022.
- **Dr. Raja Ram Kumar** has attended and successfully completed online FDP on “Inculcating Universal Human Values in Technical Education” organized by AICTE during 03.01.2022-07.01.2022.
- **Dr. Raja Ram Kumar** has attended and successfully completed a 5-day online FDP on the theme “Part 1 of the online UHV Refresher 1” organized by All India Council of Technical Education I (AICTE) during 07.02.2022-11.02.2022.
- **Dr. Raja Ram Kumar** attended a one-day program on “data privacy and creating a secure cyberspace for the state and the country” by cyber–Security Centre of Excellence, West Bengal on 28.01.2022.
- **Dr. Amarjit Roy** has attended and successfully completed online FDP on “Inculcating Universal Human Values in Technical Education” organized by AICTE during 03.01.2022-07.01.2022.

- **Dr. Amarjit Roy** has attended and successfully completed a 5-day online FDP on the theme “Part 1 of the online UHV Refresher 1” organized by All India Council of Technical Education I (AICTE) during 07.02.2022-11.02.2022.
- **Dr. Amarjit Roy** attended a one-day program on “data privacy and creating a secure cyberspace for the state and the country” by cyber–Security Centre of Excellence, West Bengal on 28.01.2022.
- **Dr. Raja Ram Kumar**, “Management of Intellectual Property Uncertainty in designing and Manufacturing for Electric Vehicle Systems” delivered an Expert talk in an FDP organized by Electrical Engineering Department at National Institute of Technology Manipur, held during 21st–25th Feb 2022.
- **Dr. Amarjit Roy**, “Research Methodologies and Software Tools” delivered a Lecture talk at Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex, Kolkata held during 27-31 Dec 2021.
- **Mr. Rajeev Kumar**, has successfully completed the AICTE-ISTE approved orientation/refresher programme on “Application of ETAP for design and analysis of power system network” held during 25.01.2022 to 31.01.2022 organised by MCKV institute of Engineering, Howrah, West Bengal.
- **Mr. Amiungshu Karmakar** has successfully completed the ARPIT course for Career Advancement Scheme (CAS) promotion Refresher Course on Teacher and Teaching in Higher Education with a Grade “B” in the proctored examination held on 21/08/2021 under AICTE.
- **Mr. Amiungshu Karmakar** has successfully completed NITTT Swayam Eight (8) Module under AICTE in 2022.
- **Mr. Amiungshu Karmakar** has successfully UHV Refresher 1 Part 1 under AICTE in 2022.
- **Mr. Amiungshu Karmakar** has successfully completed HINDI Pragya Course under CHTI, Rajbhasha in 2022.
- **Mr. Amiungshu Karmakar** has successfully participated in the “National Girl Child Day Webinar” on 24.01.2022.
- **Mr. Amiungshu Karmakar** has successfully participated in “A One-day Workshop On “Hands on Practice in Virtual Laboratory” on 8 Dec, 2021.
- **Mr. Amiungshu Karmakar** has participated in the BSF Employees Training Programme as a Course Coordinator & Developer in 2021.
- **Mr. Amiungshu Karmakar** has successfully completed One Week Short Term Training Programme through ICT Mode on Machine Learning and Its Applications organized by NITTTR, Kolkata from 27th December to 31st December, 2021 successfully.
- **Mr. Amiungshu Karmakar** has successfully completed the **State Election Duty at Bamangola constituency as Micro-Observer under Election Commission of India in April ’2021.**
- **Mr. Amiungshu Karmakar** has successfully completed the **Municipal Election Duty at English Bazar Municipal as Presiding Officer under State Election Commission in Feb’2022.**

- **Mr. Amiungshu Karmakar** has successfully completed the **duty of Observer under WBSCTE&VE&SD Examination at Malda Polytechnic in March, 2022.**
- **Mr. Amiungshu Karmakar** has successfully completed the **duty of External Examiner under WBSCTE&VE&SD at S.N. Bose Polytechnic, Ratua.**
- **Mr. Pranab Mandal** has participated in the BSF Employees Training Programme as a Course Coordinator & Developer in 2021
- **Mr. Pranab Mandal** has successfully completed NITTT Swayam Eight (8) Module under AICTE in 2022.
- **Mr. Pranab Mandal** has successfully UHV Refresher 1 Part 1 under AICTE in 2022.
- **Mr. Pranab Mandal** has successfully completed HINDI Pragya Course under CHTI, Rajbhasha in 2022.
- **Mr. Pranab Mandal** has successfully participated in the “National Girl Child Day Webinar” on 24.01.2022.
- **Mr. Pranab Mandal** has successfully participated in “A One-day Workshop On “Hands on Practice in Virtual Laboratory” on 8 Dec, 2021.
- **Mr. Pranab Mandal** has successfully completed the **State Election Duty at Harishchandrapur constituency as Micro-Observer under Election Commission of India in April '2021.**
- **Mr. Pranab Mandal** has successfully completed the **duty of External Examiner under WBSCTE&VE&SD at S.N.Bose Polytechnic, Ratua**
- **Mr. Dhaju Mohamad** has successfully completed the Short-Term Training Programme through ICT Mode on “Digital Electronics using VDHL” organized by NITTTR Kolkata, from 28.06.2021 to 02.07.2021
- **Mr. Dhaju Mohamad** has successfully completed the Short-Term Training Programme through ICT Mode on “Essentials of OBE” organized by NITTTR Kolkata, from 26.07.2021 to 30.07.2021.
- **Mr. Dhaju Mohamad** has successfully completed the FDP on “Role of Renewable Energy in Power System” organized by Government Engineering College Patna, from 05.07.2021 to 09.07.2021
- **Mr. Dhaju Mohamad** has successfully completed FDP on “Recent Trends in Power System Operation & Control” organized by Government Engineering College Patna, from 12.07.2021 to 16.07.2021
- **Mr. Dhaju Mohamad** has successfully completed the FDP on “Signal Processing for 5G-Algorithms & Implementation” organized by AICTE IIT Goa, from 09.08.2021 to 13.08.2021
- **Mr. Dhaju Mohamad** has successfully completed the FDP on “Recent Trends in Energy Conservation Technologies: A Research Perspective” organized by Sharad Institute of Technology College of Engineering from 30.08.2021 to 03.09.2021
- **Mr. Dhaju Mohamad** has successfully completed the Workshop on “Robotics Machine Learning IOT and AV / AR” organized by The ICFAI university Tripura, on 02.09.2021



- **Mr. Dhaju Mohamad** has successfully completed the Short-Term Training Programme through ICT Mode on “Electricity Rules & Code of Practice” organized by NITTTR Kolkata, from 06.09.2021 to 10.09.2021
- **Mr. Dhaju Mohamad** has successfully completed the FDP on “Design& Orientational Perspective of Electric Vehicle with Distributed Energy Resources Using Cyber Physical System” organized by AICTE, KPR Institute of Engineering & Technology Coimbatore, from 13.09.2021 to 25.09.2021
- **Mr. Dhaju Mohamad** has successfully completed the Short-Term Training Programme through ICT Mode on “Power Electronics” organized by NITTTR Kolkata, from 20.09.2021 to 24.09.2021
- **Mr. Dhaju Mohamad** has successfully completed the FDP on “Smart Energy System” organized by AICTE, Institute of Infrastructure Technology Research & Management Ahmedabad, from 04.10.2021 to 08.10.2021
- **Mr. DhajuMohamad** has successfully completed the 5-day online FDP on “Modulation, Coding Multiple Access Techniques for Wireless Communication & Storages System” organized by AICTE IIT, Goa from 15.11.2021 to 19.11.2021
- **Mr. Sankar Mukherjee** has successfully completed NITTT Swayam Two (2) Modules (1 & 2) under AICTE in 2022.

## Faculty Research Publications in 2021-22

1. Sandip Chanda, SuparnaMaity, Abhinandan De, “Artificial Intelligence Based Demand Response Algorithm for Social Welfare Maximisation in Smart Grids”, NCCS-2021 (7th International Conference) 29-30 January 2022.
2. Sushavon Roy, Sandip Chanda, Abhinandan De “Energy Efficient Modelling of Solar Heater for optimisation of Energy Consumption in HVAC systems” 3rd International Conference on Frontiers of Engineering Inventions Post Covid-19 Priorities 2022 by Department of Mechanical Engineering, Invertis University, Bareilly (U.P), India on 8 & 9 April 2022.
3. Sushavon Roy, Sandip Chanda, Abhinandan De, “Comparative Analysis and Modelling of HVAC Systems for Modern Buildings using Transys”Department of Electrical Engineering, SRM TRP Engineering College, 21-22 March,2022
4. Sudhangshu Sarkar, Sandip Chanda, Abhinandan De, “Swarm Intelligence-Based Reactive Power Constrained Generator and Load Scheduling in Smart Grid with Renewable Energy Sources”, Computational Advancement in Communication, Circuits and Systems, Proceedings of 3rd ICCACCS 2020, October, 2021
5. Kamalika Banerjee, S.Sen, Sandip Chanda, “A Review on Demand Response Techniques of Load Management in Smart Grid”, 2021 IEEE International Power and Renewable Energy Conference (IPRECON), September, 2021.
6. Abhinaw Rai, Sandip Chanda, AbhinandanDe, “Economic Integration of Renewable Energy Sources for Optimal Operation of Smart Grid”, Advances in Smart Grid Automation and Industry 4.0, Select Proceedings of ICETSGAI4.0, April, 2021
7. Susovan Roy, Sandip Chanda, Abhinandan De, “Energy Efficient Design of Solar Water Heater for improvement of efficiency of Smart buildings using TRANSYS

- in Indian Region” International Journal of energy research and applications, 23<sup>rd</sup> March, 2022.
8. S Jana, P K Biswas, ChiranjitSain “Mathematical modeling of impulse island controller to safely store the energy from high voltage lightning impulse”-Energy Storage, Wiley, Accepted for Publication (In Press), Jan 2022, <https://doi.org/10.1002/est2.325>.
  9. Debopoma Kar Ray, Tamal Ray, Surajit Chattopadhyay, Potential Energy Driven Stability Analysis of Tie Lines in Ring Network, International Conference on Industrial Instrumentation & Control (ici2c-2021), Kolkata, India August 20-22, ID-103, 2021
  10. Aniruddha Das, Surajit Chattopadhyay, Toeplitz Matrix based Cloud Computing for Seismic Vibration Analysis, 6th International Conference on Microelectronics, Computing & Communication Systems (MCCS-2021) on 17-18th July 2021, Ranchi, India, ID-MCCS21-110, 2021
  11. Poulomi Ganguli, Surajit Chattopadhyay, B N Biswas, Monitoring of automotive response for starter motor fault diagnosis, Proceedings of International Conference on Computational Intelligence and Computing (ICCIC 2021), held on FEBRUARY 19-20, 2021, Jhansi, India, published in In: Mandal J.K., Roy J.K. (eds) Proceedings of International Conference on Computational Intelligence and Computing. Algorithms for Intelligent Systems. Springer, Singapore. eBook ISBN: 978-981-16-3368-3, Springer, Series-Algorithms for Intelligent Systems, pp 295-302, 2021, [https://doi.org/10.1007/978-981-16-3368-3\\_28](https://doi.org/10.1007/978-981-16-3368-3_28).
  12. Debopoma Kar Ray, Tamal Ray, Surajit Chattopadhyay, Adaptive Time Duration Computation for Parallel Arc Fault in Wind-Solar Hybrid System, Proceedings of International Conference on Computational Intelligence and Computing (ICCIC 2021), held on FEBRUARY 19-20, 2021, Jhansi, India, published in In: Mandal J.K., Roy J.K. (eds) Proceedings of International Conference on Computational Intelligence and Computing. Algorithms for Intelligent Systems. Springer, Singapore. eBook ISBN 978-981-16-3368-3, Springer, Series-Algorithms for Intelligent Systems, pp-145-154, 2021, [https://doi.org/10.1007/978-981-16-3368-3\\_15](https://doi.org/10.1007/978-981-16-3368-3_15).
  13. ChiranjitSain, A Banerjee, P K Biswas “Control Strategies of a Permanent Magnet Synchronous Motor Drives for Electric Vehicles”-Control Theory and Applications, CRC Press, Taylor & Francis, Accepted for publication (In press), 2022.
  14. Amarjit Roy, ShuvabrataBandopadhyaya, Snehal Chandra, Ashok Suhag, “Removal of impulse noise for multimedia-IoT applications at gateway level, Multimedia Tools and Applications (In Press), Jan 2022, <https://link.springer.com/article/10.1007/s11042-021-11832-w>
  15. P. Ganguly, S. Chattopadhyay and T. Datta, "Haar-Wavelet-Based Statistical Scanning of Turn Fault in Vehicular Starter Motor," in IEEE Sensors Letters, vol. 6, no. 4, pp. 1-4, April 2022, Art no. 6000904, doi: 10.1109/LSENS.2022.3158608
  16. Sagnik Datta, A Chattopadhyaya, S Chattopadhyay, A Das, ANN based statistical computation for remote end fault monitoring of 14 Bus microgrid network, Taylor



- & Francis: IETE Journal of Research, Accepted, 2022.
17. S S Ghosh, S Chattopadhyay, A Das, Snubber Circuit Fault Detection in Inverter Switch of Brushless DC Motor, IET Cognizent computation system, Jan-14, 2022, DOI: <https://doi.org/10.1049/ccs2.12041>
  18. P Ganguly, S Chattopadhyay, B N Biswas, Adaptive algorithm for battery charge monitoring based on frequency domain analysis, Taylor & Francis: IETE Journal of Research, 2021, <https://doi.org/10.1080/03772063.2021.2000508>
  19. S Chattopadhyay, B-X Du, Z M Dang and G Chen, Nano-materials for engineering application, IET Nanodielectr., 4, pp: 81-83, 2021, <https://doi.org/10.1049/nde2.12028>
  20. S Chattopadhyay, and N Pindoriya, Guest editorial: Selected extended papers from the Michael Faraday IET International Summit—2020 Kolkata, IET Smart Grid., 4(4), 365– 366, 2021, <https://doi.org/10.1049/stg2.12046>
  21. D Kar Ray, T Roy, S Chattopadhyay, Switching transient-based state of Ampere-hour prediction of lithium-ion, nickel-cadmium, nickel-metal-hydride and lead acid batteries used in vehicles, IET Nanodielectr., 4( 3), 121– 129, 2021, <https://doi.org/10.1049/nde2.12017>
  22. T K Das, S Chattopadhyay, A Das, String Fault Detection in Solar Photo Voltaic Arrays, Taylor & Francis: IETE Journal of Research, 2021, DOI: 10.1080/03772063.2021.1905081.
  23. D Kar Ray, T Roy, S Chattopadhyay, Skewness Scanning for Diagnosis of a Small Inter-Turn Fault in Quadcopter's Motor based on Motor Current Signature analysis, IEEE Sensors Journal, Volume: 21, Issue: 5, Page(s): 6952 – 6961, 2021, DOI: 10.1109/JSEN.2020.3038786.

## Books

1. Dr.Sandip Chanda, Dr.Rajesh Dey, Mr.AvijitKarmakar et all, “Transactions on Engineering Science and Technology Edition: 1” Selected contributed articles/papers of the National Conference on "Emerging Trends in Engineering Science & Technology (NCETET-2022)” organized by Technique Polytechnic Institute March 4th - 5th, 2022, ISBN: 978-93-92818-00-4
2. S Chattopadhyay, A Das, Overhead Electric Power Lines: Theory and practice, IET, London, ISBN: 9781839533112, 2021.

## Membership

- **Dr. Surajit Chattopadhyay is a Fellow of IE(I)**
- **Dr. Surajit Chattopadhyay is a Member of IET (Member of IET - KLN, IET - CC-South Asia)**
- **Dr. Surajit Chattopadhyay is a Member of Engineering Council (UK)**
- **Dr. Surajit Chattopadhyay is a Member, IET Communities Committee – South Asia**
- **Dr. Surajit Chattopadhyay is a Member, IET(UK)- Kolkata Network**

- **Dr. Tapash Kr. Das** has obtained MIET from the Institution of Engineering and Technology, U.K.
- **Mr. Goutam Kumar Ghorai** has been taken lifetime membership from IEI

### Patent Granted

- **S Chattopadhyay**, T Roy, S Ganguli, A Method to Detect a Road Surface Dependent Mechanical Vibration Generated Short Circuit Fault in An Air Circular Motor Circuit in A Vehicle, Patent, 2021106069, AUS, 2021.

### Award Received

- **Surajit Chattopadhyay** received “Railway Board's Prize” at the 36th Indian Engineering Congress at Vigyan Bhawan, New Delhi, 2021

## Student Training and Placement in 2020-21

<i>Name of the Company: Pie Infocomm Pvt. Ltd.</i>				
Sl. No.	Name of the Candidate	Dept.	Designation	Salary/Benefits
1	Mr. Sibasish Ghosh	EE	Jr. Automation Engineer	2.4 LPA
<i>Name of the Company: Mando Automotive India Pvt. Ltd.</i>				
Sl. No.	Name of the Candidate	Dept.	Designation	Salary/Benefits
1	Miss Bhawna	EE	Technician Apprentice	1.38 LPA + incentives
2	Mr. Goranga Ghosh	EE	Technician Apprentice	1.38 LPA + incentives
3	Rajan Raj	EE	Technician Apprentice	1.38 LPA + incentives
<i>Name of the Company: Grifeo</i>				
Sl. No.	Name of the Candidate	Dept.	Designation	Salary/Benefits
1	Mr. Sibasish Ghosh	EE		2.4 LPA



**Students working in Electrical Engineering Laboratory**



**Electrical Machines Laboratory**



**MATLAB Laboratory (Shared by EE, ME, FT, CE departments)**



**Electrical Laboratory**



# DEPARTMENT OF MECHANICAL ENGINEERING

## **ANNUAL REPORT: APRIL, 2021 – MARCH, 2022**

### **Department of Mechanical Engineering**

#### **1. Overview**

Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET), Malda started its journey in 2010 with one of the visions to meet technical manpower requirements of the society and of the country at different levels. Mechanical Engineering is one of the premier disciplines/departments of this Institute towards fulfilling the vision. At present, this department is offering undergraduate programs at different levels - 3 years diploma and 4 years B. Tech following the industry-academic oriented curricula as per AICTE and affiliating Council and University, respectively. The **diploma program** is affiliated to *the West Bengal State Council of Technical & Vocational Education and Skill Development (WBSCT&VE&SD), Kolkata*, and **B. Tech program** is affiliated to *the MaulanaAbulKalam Azad University of Technology (MAKAUT), West Bengal*.

This department is well equipped with its laboratories, workshops, computational laboratories & other necessities besides its leading by the active and dynamic faculty and staff members under the leadership of Hon'ble Director, Prof. P. R. Alapati and his administration. It caters Engineering Sciences mainly in Applied Mechanics, Fluid Mechanics & Hydraulics, Design & Dynamics, Thermal Engineering, and Production & Manufacturing. It has grown steadily since the beginning in all fields especially in teaching, and flourishing in research and publication also. Together with teaching & research, it trains its students facilitating learning tools (like IGNITE: Industry 4.0, Growth, Networking, Innovation Technology & Entrepreneurs Center of Excellence - an Industry & Emerging Technology based software) to know about industry, its products & the problems, and the technology developing worldwide, and internships/trainings- which leads students' to meet the current industrial needs as well as need of the society. Towards creating a techno-mixed culture in the department, it organizes inter-disciplinary training to different parts of the society such as the BSF employees, NirmanSahayaks& Rural Engineering Mentors etc.

#### **1.1 Vision**

To create a leading Department in Mechanical Engineering by nurturing the young talents through education and research towards fulfilling the global standards and demands.

#### **1.2 Mission**

- To impart quality education at different levels (such as diploma, degree including skill training) to the students/candidates for enhancing their skill to make them capable of fitting in the country as well as globally competitive market.
- To create a technical environment for providing a balance education through teaching, learning and practices.
- To create facilities in context to starts the PG and Doctoral programs in A.Y. of 2023.
- To create a centre of excellence through research & development activities.
- Priority on Institute-Industry collaboration of the department.
- Overall, to provide support to the students for their grooming in all aspects.



### 1.3 Major Research Areas of Dept. of Mechanical Engineering

Both teachers and students of this department are actively involved in research and publishing of their works in reputed journals, conferences, workshops, seminars etc. The following are the major research areas carried out by the departmental faculty and students.

- Composite Materials, Manufacturing Processes, Non-Conventional Machining Processes
- Engineering Materials
- Design & Robotics
- Casting
- Study and Modeling of Transport Phenomena in Manufacturing & Material Processing
- Study and Modeling of Advanced Manufacturing Process/Semi-solid Processing
- Development of Energy Efficient Buildings (Green Buildings)
- Computational Fluid Dynamics (CFD) and Heat Transfer
- Applications in Thermo-Fluid Engineering
- Alternative Fuel and Renewable Energy
- Combustion Engine
- Fluid Power Control


## 2. Courses Offer & Intake Capacity

Name of the Course	Intake Capacity	Duration	Affiliating University/ Council
Diploma	30	3 years	WBSCT&VE&SD, Kolkata
B. Tech	60	4 years	MAKAUT (WBUT), WB






### 2.1 Present Students Statistics of the Department






Name of Courses	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year
Diploma	13	27	14	X
B. Tech	29	41	29	19

## 3. Details of the HoD



Department of the Mechanical Engineering		
	Name: Dr.Dharmeswar Dash Assistant Professor (Grade-II)	Contact Details  Email: <a href="mailto:dharmeswar@gkciet.ac.in">dharmeswar@gkciet.ac.in</a>

## 4. Details of Faculty and Staff Members

Name of the Members with E-mail ID	Designation	Qualifications	Qualifying Institution
 Dr. Nilkanta Barman <a href="mailto:nilkanta@gkciet.ac.in">nilkanta@gkciet.ac.in</a>	Professor & Dean (Student Welfare)	BE	JU, Kolkata
		ME	IISc, Bangalore
		PhD	IISc, Bangalore
 Dr. Dharmeswar Dash <a href="mailto:dharmeswar@gkciet.ac.in">dharmeswar@gkciet.ac.in</a>	Assistant Professor & HoD, ME	B.Tech	BPUT, Rourkela
		M.Tech	NERIST, Nirjuli, AP
		Ph.D.	NERIST, Nirjuli, AP
 Dr. Habib Masum <a href="mailto:kingmasum@gmail.com">kingmasum@gmail.com</a>	Assistant Professor & Nodal officer for LIMBS	B.Tech	KCT Engg. College
		M.Tech	NIT, Durgapur
		Ph.D.	IEST, Shibpur
 Dr. Tanmoy Sarkar <a href="mailto:tanmoy@gkciet.ac.in">tanmoy@gkciet.ac.in</a>	Assistant Professor	B.Tech	WBUT, Kolkata
		ME	BESU, Shibpur
		Ph.D.	JU, Kolkata
 Dr. Santosh Kumar Dash <a href="mailto:santosh@gkciet.ac.in">santosh@gkciet.ac.in</a>	Assistant Professor & Member of CTPC	B. Tech	NERIST, Nirjuli, AP
		M.Tech	NERIST, Nirjuli, AP
		Ph.D.	NERIST, Nirjuli, AP

 <b>Dr. Nitesh Mondal</b> <a href="mailto:nitesh@gkciet.ac.in">nitesh@gkciet.ac.in</a>	Assistant Professor & Member of Library Committee	B.Tech	WBUT, Kolkata
		ME	BESU, Shibpur
		Ph.D.	JU, Kolkata
 <b>Mr. Niraj Kumar</b> <a href="mailto:niraj@gkciet.ac.in">niraj@gkciet.ac.in</a>	Assistant Professor	B.Tech	MAKAUT, WB
		M.Tech	NIT Durgapur
 <b>Mr. Tridib Ranjan Das</b> <a href="mailto:tridib@gkciet.ac.in">tridib@gkciet.ac.in</a>	Sr. Trainer & In-Charge, Non-Formal	Diploma	Malda Polytechnic
		B.Tech	WBUT, Kolkata
 <b>Dr. Hasibur Rahaman</b> <a href="mailto:hasibur@gkciet.ac.in">hasibur@gkciet.ac.in</a>	Trainer & Transport Officer (I/C)	BE	Jamia Millia Is lamia
		M.Tech	Jamia Millia Is lamia
		Ph.D.	Sai Nath University
 <b>Mr. Siladitya Mandal</b> <a href="mailto:siladitya@gkciet.ac.in">siladitya@gkciet.ac.in</a>	Trainer & Coordinator, T&P	B.Tech	Seacom Engg. College
		ME	JU, Kolkata

 Mr. Abhinav Kumar ( <a href="mailto:abhinav@gkciet.ac.in">abhinav@gkciet.ac.in</a> )	Trainer & Dept. Exam Coordinator	B.Tech	IASE 'D' University
 Mr. Prabhatangsu Mahata ( <a href="mailto:prabhatangsu@gkciet.ac.in">prabhatangsu@gkciet.ac.in</a> )	Foreman	Diploma	A.P.C Roy Polytechnic
 Mr. Raktim Roy ( <a href="mailto:raktim@gkciet.ac.in">raktim@gkciet.ac.in</a> )	Trainer & Dept. 360° Feed Back Coordinator	Diploma	Malda Polytechnic
		B.Tech	Kalyani Govt. Engg. College
 Mr. Priyam Sen ( <a href="mailto:priyam@gkciet.ac.in">priyam@gkciet.ac.in</a> )	Technical Assistant & Asso. In-Charge & Trainer Boys Common Room, Dept. IT Coordinator	Diploma	Malda Polytechnic
 Mr. Soumodip Chatterjee ( <a href="mailto:soumodip@gkciet.ac.in">soumodip@gkciet.ac.in</a> )	Technical Assistant	Diploma	Raiganj Polytechnic

 Mr. ShashiBhushan Kumar <a href="mailto:shashibhushan@gkciet.ac.in">shashibhushan@gkciet.ac.in</a>	Technical Assistant	Diploma	GKCIET, Malda
		B.Tech	GKCIET, Malda
 Mr. Probir Kr. Mandal <a href="mailto:probir_mts@gkciet.ac.in">probir_mts@gkciet.ac.in</a>	MTS	H.S.	Naimouza High School

## 5. Academic Infrastructure

The Department of Mechanical Engineering is developing in a part of an Academic Building (namely, Academic Block-B) out of 4 (four) such Academic Buildings of this Institute, each of the building covers a carpet area of 3094 sq. m. Along with the class rooms, the laboratories under the various Engineering Specializations such as Applied Mechanics, Fluid Mechanics & Hydraulics, Design & Dynamics, Thermal Engineering, and Production & Manufacturing were developing to provide technical knowledge to the students in atmospheres akin to the industries and emerging research. In addition to this, there is a central workshop of 881 sq. m area including Carpentry, Fittings, Welding, Foundry, Smithy & Forging, and Machine-shops that widen the field of knowledge at the students' disposal.

Sl. No.	Laboratories (Existing)	In-Charge	E-mail ID
1.	Metrology Lab	Dr. Dharmeswar Dash	dharmeswar@gkciet.ac.in
2.	Material Characterization Lab		
3.	Machine Elements Lab	Dr. Habib Masum	kingmasum@gmail.com
4.	Dynamics Lab		
5.	Heat & Mass Transfer Lab	Dr. Santosh Kumar Dash	santosh@gkciet.ac.in
6.	Refrigeration & Air Conditioning Lab		
7.	Fluid Mechanics & Hydraulics Lab	Dr. Nitesh Mondal	nitesh@gkciet.ac.in
8.	Computational Lab/CAD & CAM		



9.	Foundry Shop	Niraj Kumar	niraj@gkciet.ac.in
10.	Thermodynamics & Thermal Engineering Lab		
11.	Applied Mechanics Lab	Dr. HasiburRahaman	hasibur@gkciet.ac.in
12.	Drawing Hall		
13.	Automobile Lab	Mr. TridibRanjan Das	tridib@gkciet.ac.in
14.	Welding Shop		
15.	Machine and Advanced Machine Shop	Mr. Abhinav Kumar	abhinav@gkciet.ac.in
16.	Metal Sheet Working Shop		
17.	Fittings&Carpentry Shop	Mr. SiladityaMandal	siladitya@gkciet.ac.in
18.	Strength of Materials Lab		
19.	Smithy & Forging Shop	Mr. Raktim Roy	raktim@gkciet.ac.in
20.	Advanced Carpentry Shop		

## 6. List of Major Equipment/Instruments in Laboratories

### I. AUTOMOBILE LAB.

Sl. No.	Available Equipment/Items	Quantity
1.	A Model for Mechanical Linkage Type Steering	01 No
2.	A Model for Power Steering	01 No
3.	A Model for Differential Unit	01 No
4.	A Model for Suspension System	01 No
5.	A Model for Hydraulic Brake Systems	01 No
6.	Exhaust Gas Analyzer	01 No





**II. REFRIGERATION & AIR CONDITIONING LAB.**

Sl. No.	Available Equipment/Items	Quantity
1.	Air Conditioning Test Rig	01 No
2.	Window A. C. Test Rig	01 No
3.	Water Cooler Test Rig	01 No
4.	Ice Plant Test Rig	01 No
5.	RAC Control (Model-MISC)	01 No
6.	Refrigeration Test Rig	01 No
7.	Hemispherical Cut-Section of Compressor	01 No

**III. THERMODYNAMICS & THERMAL ENGINEERING LAB.**

Sl. No.	Available Equipment	Quantity
1.	Single Cylinder 4-Stroke Petrol Engine Test Rig	01 No
2.	4-Cylinder 4-Stroke Petrol Engine Test Rig attached with a Hydraulic Brake Dynamometer and Digital Load Indicator	01 No
3.	Model and Chart for Babcock & Wilcox Boiler	01 No
4.	Model and Chart for Cochran Boiler	01 No
5.	Model and Chart for Lancashire Boiler	01 No
6.	Model and Chart for Loeffler Boiler.	01 No
7.	Two Stage Reciprocating Air Compressor Test Rig.	01 No



#### IV. HEAT & MASS TRANSFER LAB.

Sl. No.	Available Equipment	Quantity
1.	Measuring Thermal Conductivity of Metal Rod	01 No
2.	Heat Transfer Phenomena in Natural Convection	01 No
3.	Heat Transfer Phenomena in Forced Convection	01 No
4.	Shell & Tube Heat Exchanger Apparatus	01 No
5.	Emissivity Measuring Apparatus	01 No
6.	Heat Transfer through a Pin Fin	01 No
7.	Stefan Boltzmann's Apparatus	01 No





## V. APPLIED MECHANICS LAB.

Sl. No.	Available Equipment/Items	Quantity
1.	Universal Force Table	03 Nos
2.	Jib Crane Apparatus	02 Nos
3.	Parallel Forces Apparatus: Overhang Beam Type	03 Nos
4.	Inclined Plane Apparatus	02 Nos
5.	Differential Pulley Block (Model)	01 No

## VI. MACHINE ELEMENTS LAB.

Sl. No.	Available Equipment	Quantity
1.	Simple Gear Train Mechanism	01 No
2.	Compound Gear Train Mechanism	01 No
3.	Wheel and Differential Axle – 30cm (Without weight)	01 No
4.	Screw Jack	01 No
5.	Worm & Worm Wheel	01 No



**VII. DYNAMICS LAB.**

Sl. No.	Available Equipment	Quantity
1.	Cam Analysis Apparatus	01 No
2.	Motorised Epicyclic Gear Train Apparatus	01 No
3.	Static & Dynamic Balancing Apparatus	01 No
4.	Motorised Gyroscope Test Rig	01 No
5.	Universal Governor Apparatus	01 No
6.	Universal Vibration Apparatus	01 No

**VIII. FLUID MECHANICS & HYDRAULICS LAB.**

Sl. No.	Available Equipment	Quantity
1.	Closed Circuit Venturimeter Test Rig	01 No
2.	Closed Circuit Pipe Friction Apparatus	01 No
3.	Closed Circuit Pitot Tube Apparatus	01 No
4.	Pelton Turbine Test Rig	01 No
5.	Closed Circuit Single Stage Multi-speed Centrifugal Pump Test Rig	01 No
6.	Closed Circuit Reciprocating Pump Test Rig	01 No



#### IX. STRENGTH OF MATERIALS LAB.

Sl. No.	Available Equipment	Quantity
1.	Izod&Charpy Impact Testing Machine	01 No
		

#### X. MACHINE AND ADVANCED MACHINE SHOP

Sl. No.	Available Equipment	Quantity
1.	Lathe	03 Nos
2.	Shaper M/c	01 No
3.	Milling M/c	01 No
4.	Surface Grinder	01 No
5.	Power Saw	01 No
6.	Vertical Drilling M/c	01 No
7.	Bench Grinder	01 No
8.	CNC Lathe	01 No



#### XI. COMPUTATIONAL LAB./ CAD & CAM

Sl. No.	Available Equipment	Quantity
1.	Desktop Computers setup	15 Nos
1.	Projector	01 No
		

#### XII. FITTINGS & CARPENTRY SHOP

Sl. No.	Available Equipment	Quantity
1.	Power Saw M/c	01 No
2.	Bench Grinder M/c	02 Nos
3.	Pillar Drill M/c	01 No.
4.	Table Mounted Surface Plate	02 Nos
5.	Floor Mounted Surface Plate	02 Nos
6.	Bench Vice	05 Nos
7.	Pipe Vice	02 Nos





### XIII. ADVANCED CARPENTRY SHOP

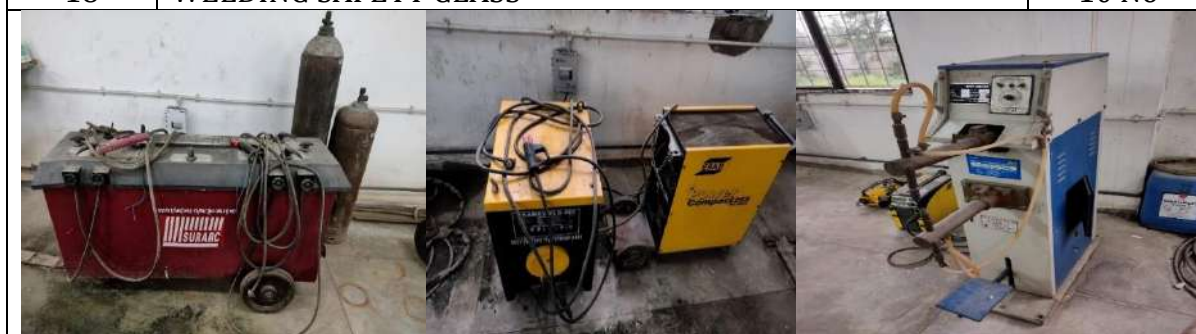
Sl. No.	Available Equipment	Quantity
1.	Wood Turning Lathe	03 Nos
2.	Wood Surface Labelling M/c	01 No
3.	Circular Sawing M/c	01 No
4.	Multipurpose Wood-working Machine (6-in-1) Make-Wood Master, Model-Wm157	01 No
5.	Vertical Drilling M/c	01 No
6.	Bench Grinder	01 No
7.	Jig Saw Machine 24" Accessories Motor Pulley, Motor Rail, 5nos of Sample Blade, Make-Wood Tech Machinery	01 No





#### XIV. WELDING SHOP

Sl. No.	Available Equipment	Quantity
1.	Gas Welding and Cutting	01 No
2.	Arc Welding M/c	01 No
3.	TIG	01 No
4.	MIG	01 No
5.	Spot Welding	01 No
6.	Plunger Cutter	01 No
7.	Bench Grinder	01 No
8.	Double Arc Welding M/c	01 No
9.	XP-WM-200A WELDING MACHINE XTRA POWER	07 No
10.	ARC WELDING MACHINE 250 AMPS	01 No
11.	FLOW SENSOR CO <sub>2</sub> REGULATOR	04 No
12.	THICKNESS MEASURING GAUGE	02 No
13.	ELECTRODE HOLDER	08 No
14.	TEMPERATURE GAUGE	04 No
15.	MICROMETER	01 No
16.	GAS WELDING NOZZLE	04 No
17.	CENTRE PUNCH	10 No
18.	WELDING SAFETY GLASS	10 No



#### XV. SMITHY & FORGING SHOP

Sl. No.	Available Equipment	Quantity
1.	Power Hammer	01 No
2.	Open Hearth Furnace	05 Nos
3.	Anvil	05Nos
4.	Swage Block	03Nos
5.	Leg Vice	05 Nos

6.	Bench Grinder	01 No
		

## XVI. CASTING/FOUNDRY SHOP

Sl. No.	Available Equipment	Quantity
1.	Induction Furnace (Tilting and pouring)	01 No
2.	Muffle Furnace	01 No
3.	Crucible (Graphite)	01 No
4.	Metal Mould (rectangular, cylindrical, & Hexagonal)	01 No each
		

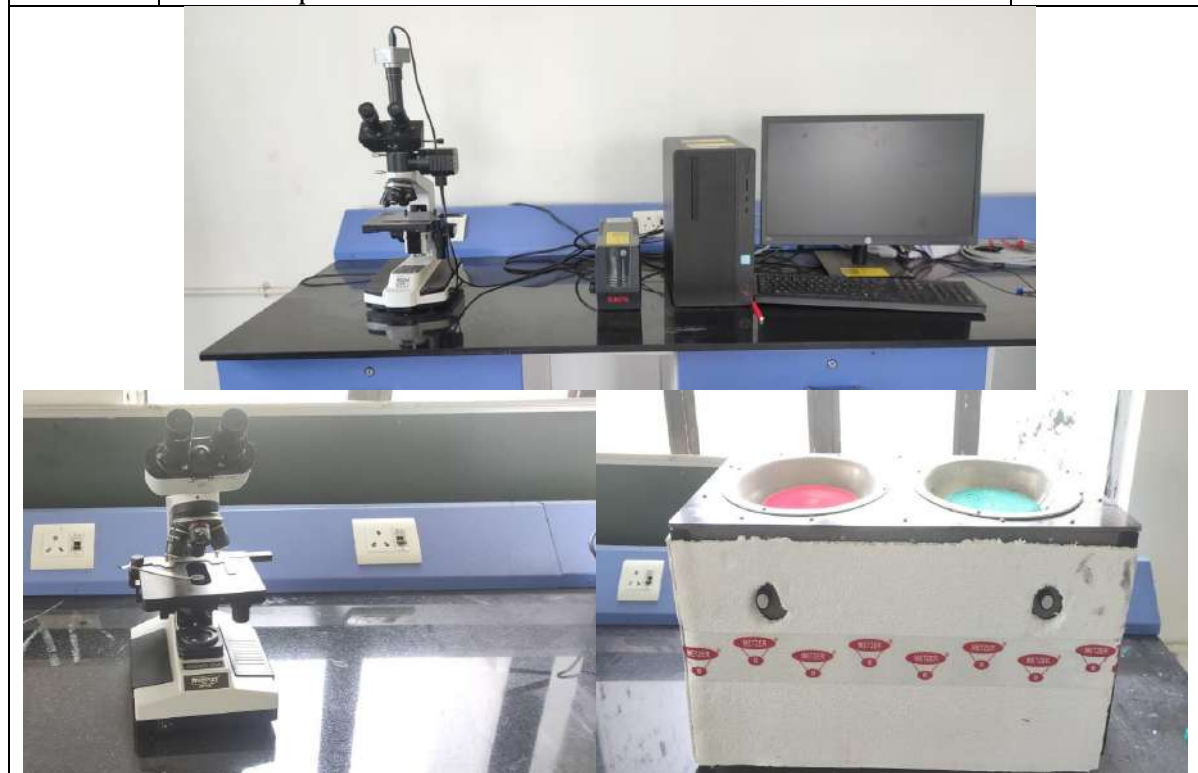
## XVII. METAL SHEET WORKING SHOP

Sl. No.	Available Equipment	Quantity
1.	Sheet Bending M/c	01 No
2.	Sheet Shearing M/c	01 No
3.	Pipe Bending M/c	02 No
		

## XVIII. MATERIAL CHARACTERIZATION LAB



Sl. No.	Available Equipment	Quantity
1.	Optical Microscope	01 No
2.	Polishing Machine	01 No
3.	Pencil Grinder	03 Nos
4.	Microscope	01 No



## XIX. METROLOGY LAB

Sl. No.	Available Equipment	Quantity
1.	Sine Bar	01 No
2.	Digital Vernier Caliper	05 Nos
3.	Vernier Bevel Protector	01 No
4.	Micrometer	01 No
5.	Dial Indicator	01 No
6.	Slip Gauge	01 No
7.	Angle gauge	01 No
8.	Magnetic Stand	01 No





## 7. Research & Achievements

The research carried out by the departmental faculty is on the topics like Cooling of Buildings using Phase Change Materials (PCMs), Semisolid Metal Processing (SSF) – An Emerging Manufacturing Technology, Thermal Management, Manufacturing & Composite Materials, Robotics & Bio-technology, and Strengthening of Metals, Alternate Fuel and Internal Combustion Engine, Fluid Power Control etc. A brief on the faculty-wise publication is presented here. Details of research and publication are available in the link of individual faculty members of the department.

Name of the Faculty	Journals	Conference Proceedings/ Book Chapter	Book
Dr. Nilkanta Barman	36	23	-
Dr. Dharmeswar Dash	6	3	-
Dr. Habib Masum	6	3	-
Dr. Tanmoy Sarkar	6	5	-
Dr. Santosh Kumar Dash	10	19	-
Dr. Nitesh Mondal	6	19	01
Dr. Hasibur Rahaman	3	-	-

### 7.1 Publications of Faculty Members (2021-22)

1. Dharmeswar Dash, Sutanu Samanta & Ram Naresh Rai (2021): Flexural, Dry Sliding Wear and Machinability (EDM) Characteristics of AZ91D/TiC (0, 5, 10, 15, & 20 wt%) MMCs, *Advances in Materials and Processing Technologies*, DOI: 10.1080/2374068X.2021.1949537.
2. Nitesh Mondal, Rana Saha and Dipankar Sanyal, An Experimental Exploration on Pressure-Compensated Swash Plate-Type Variable Displacement Axial Piston Pump. *Journal of The Institution of Engineers (India): Series C*, pp.1-11, 2022.
3. Nitesh Mondal, Rana Saha and Dipankar Sanyal, Pressure compensator design, simulation and performance evaluation of a variable displacement swash plate type axial piston pump. *Sigma J Eng Nat Sci*, 39(2), pp.123–130, 2021.

# **DEPARTMENT OF FOOD PROCESSING AND TECHNOLOGY**



**Annual Report**  
**Department of Food Processing Technology**  
**Year 2021-2022**

### About the Department

Department of Food Processing Technology was established in 2010 supported by the Ministry of Human Resource Development (MHRD), Government of India. The Department of Food Processing Technology is one of the five constituent departments of the institute. The aim of the department is to generate human resources capable of accepting the current and future challenges of food processing sector of the country. The department is currently offering 3 years Diploma and 4 years B Tech. programs and contemplating the M Tech. and Ph. D program in future. The vision of the department is to create trained and skilled human resources well versed in technical aspects of food processing to cater the needs of research, industries and society.

### ACADEMIC PROGRAMS

The department is currently offering 3 years Diploma and 4 years B Tech. programs. The Diploma Program is affiliated to West Bengal State Council of Technical & Vocational Education and Skill Development, Kolkata, West Bengal and the B. Tech program is affiliated to MaulanaAbulKalam Azad University of Technology, Kolkata, and West Bengal.

PROGRAM	DURATION	SPECIALISATION	ADMISSION THROUGH	INTAKE
Diploma	3 Years	Food Processing Technology	JEXPO & GET	30
B.Tech	4 Years	Food Technology	JEE & WBJEE	60

### Major facilities and equipment available:

#### Laboratory Activity

##### 1. Faculties and laboratories details

Name of the Laboratory	Laboratory in charge
1. Food Chemistry Lab	Dr. Mudasir Ahmad Malik
2. Food Microbiology Lab	Dr.Vivek Kumar
3. Food Engineering Lab	Dr.Kshirod Kumar Dash
4. Food Product development lab	Dr.Kshirod Kumar Dash Dr.Anwesa Sarkar
5. Unit Operation Lab	Dr.Sudip Kumar Das
6. Food Analysis and quality control lab	Dr.SouravChakraborty



### Visit to Laboratory of the Department of Food Processing Technology

#### Major Equipment

Water Distillation Apparatus, Induction Oven, Centrifuge, Water Bath, Microscope, Viscometer, Electronic Milko Tester, Light Duty Liquid Mixer, BOD Incubator, Hot Air Oven, Autoclave, Thin Layer Chromatography, Muffle Furnace, Microwave Oven, Hand Sealing Machine, Bottle Cap Tightening Machine, Colony Counter, Laminar Air Flow, Fumigator, Micro Filtration Unit, UV Visible Spectrophotometer, Protein Digestion Unit, Automatic Melting Point Apparatus, Texture Analyser, Taber Stiffness Tester, Folding Endurance Tester, Cobb Tester, Elmendorf Tear Tester, Mullen Bursting, Strength Tester, Mechanical Drop Tester, Hot Air Dryer, Rotary Vacuum Evaporator, Micro Weighing Balance, Digital pH meter, Digital Moisture Meter, Refractometer, Rotary Shaker, Ball Mill, pH temperature meter, Hot Plate, Spectrophotometer.

#### PUBLICATIONS:

##### In International and National Journals

1. Dash, Kshirod K., Kumar, A., Kumari, S., & Malik, **Mudasir Ahmad** (2021). Silver Nanoparticle Incorporated Flaxseed Protein-Alginate Composite Films: Effect on Physicochemical, Mechanical, and Thermal Properties. *Journal of Polymers and the Environment*, 1-11. <https://doi.org/10.1007/s10924-021-02137-y>
2. Dash, K. K., Sharma, M. (2021). Deep eutectic solvent-based microwave-assisted extraction of phytochemical compounds from black jamun pulp, *Journal of Food Process Engineering*. e13750 DOI: <https://doi.org/10.1111/jfpe.13750>
3. Seth, D., Sen, D., & Kumar Dash, K. (2021). OPTIMIZATION OF OSMOTIC DEHYDRATION PROCESS OF CARAMBOLA (*Averrhoa carambola* L.) FRUIT IN BINARY SOLUTION OF SALT AND SUCROSE. *Journal of microbiology, biotechnology and food sciences*, e3307-e3307.

4. Dash, K. K., Shangpliang, H., Bhagya Raj, G. V. S., Chakraborty, S., & Sahu, J. K. (2021). Influence of microwave vacuum drying process parameters on phytochemical properties of sohiong (*Prunus nepalensis*) fruit. *Journal of Food Processing and Preservation*, 45(3), e15290.
5. Dash, S., Dash, K. K., & Choudhury, S. (2021). Evaluation of energy efficiency and moisture diffusivity for convective drying of large cardamom. In *IOP Conference Series: Materials Science and Engineering* (Vol. 1020, No. 1, p. 012016). IOP Publishing.
6. Dash, K. K., & Das, S. K. (2021). Modeling and optimization of microwave puffing of rice using artificial neural network and genetic algorithm. *Journal of Food Process Engineering*, 44(1), e13577.
7. Altaf, A., Usmani, Z., Dar, A. H., & Dash, K. K. (2022). A comprehensive review of polysaccharide-based bionanocomposites for food packaging applications. *Discover Food*, 2(1), 1-13.
8. Shams, R., Singh, J., Dash, K. K., & Dar, A. H. (2022). Comparative study of freeze drying and cabinet drying of button mushroom. *Applied Food Research*, 2(1), 100084.
9. Bhagya Raj, G. V., Swami Hulle, N. R., & Dash, K. K. (2022). Rheological characteristics of reconstituted freeze-dried dragon fruit pulp powder: Effect of concentration and temperature. *Journal of Food Processing and Preservation*, e16696.
10. Dash, K.K., Fayaz, U., Dar, A.H., Shams, R., Manzoor, S., Sundarsingh, A., Deka, P. and Khan, S.A., (2022). A comprehensive review on heat treatments and related impact on the quality and microbial safety of milk and milk-based products. *Food Chemistry Advances*, 100041.
11. Raj, G. V. S., & Dash, K. K. (2022). Effect of intermittent microwave convective drying on physicochemical properties of dragon fruit. *Food Science and Biotechnology*, 31(5), 549-560.
12. Dash, K. K., Sharma, M., & Tiwari, A. (2022). Heat and mass transfer modeling and quality changes during deep fat frying: A comprehensive review. *Journal of Food Process Engineering*, 45(4), e13999.
13. Dash, S., Choudhury, S., & Dash, K. K. (2022). Energy and exergy analyses of solar drying of black cardamom (*Amomum subulatum* Roxburgh) using indirect type flat plate collector solar dryer. *Journal of Food Process Engineering*, 45(4), e14001.
14. Bhagya Raj, G. V. S., & Dash, K. K. (2022). Comprehensive study on applications of artificial neural network in food process modeling. *Critical Reviews in Food Science and Nutrition*, 62(10), 2756-2783.
15. Deb, M., Routray, W., & Dash, K. K. (2022). Assessment of quality change with frying temperature and sensory analysis using fuzzy logic of hydrocolloids fortified flour-based multilayered snack. *Journal of Food Processing and Preservation*.
16. Dash, K. K., Deka, P., Bangar, S. P., Chaudhary, V., Trif, M., & Rusu, A. (2022). Applications of inorganic nanoparticles in food packaging: A Comprehensive Review. *Polymers*, 14(3), 521.
17. Sharma, M., & Dash, K. K. (2022). Microwave and ultrasound assisted extraction of phytocompounds from black jamun pulp: Kinetic and thermodynamics characteristics. *Innovative Food Science & Emerging Technologies*, 75, 102913.

18. Sharma, M., Dash, K. K., & Badwaik, L. S. (2022). Physicochemical and release behaviour of phytochemical compounds based on black jamun pulp extracts-filled alginate hydrogel beads through vibration dripping extrusion. *International Journal of Biological Macromolecules*, 194, 715-725.
19. Dash, K. K., Kumar, A., Kumari, S., & Malik, M. A. (2021). Silver Nanoparticle Incorporated Flaxseed Protein-Alginate Composite Films: Effect on Physicochemical, Mechanical, and Thermal Properties. *Journal of Polymers and the Environment*, 29(11), 3649-3659.
20. Sudip Kr. Das<sup>1</sup>, Md.Jigar Ali<sup>2</sup>, and BijendraSahoo\*, "Effect of Incorporation of Crude Rice Bran Oil Extract on Storage Stability of Coconut Oil", Emerging techniques in food processing (2021), ISBN NO.: 9789394490253.
21. Kaiser Younis, Saghir Ahmad, Mudasir Ahmad Malik. Mosambi peel powder incorporation in meat products: Effect on physicochemical properties and shelf life stability. *Applied Food Research* (2021), 1 (2), 100015. <https://doi.org/10.1016/j.afres.2021.100015>
22. Choudhary, A. K., Chakraborty, S., Kumari, S., & Hazarika, M. K. (2022). Feed forward neural network and its reverse mapping aspects for the simulation of ginger drying kinetics. *Agricultural Engineering International: CIGR Journal*, 24(1).
23. Chakraborty, S., Routray, W., & Dash, K. K. (2022). Numerical Study of Baking. In *Advanced Computational Techniques for Heat and Mass Transfer in Food Processing* (pp. 247-274). CRC Press.

#### BOOKS AND BOOK CHAPTERS:

1. S Malakar, T Manonmani, S Deb, KK Dash (2021). Osmotic Dehydration in Food Processing, Food Processing: Advances in Non-Thermal Technologies (ISBN 9780367756109) by CRC Press
2. K K Dash, P Deka (2021). Thermal Processing of Food, Food Processing: Advances in Thermal Technologies (ISBN 9780367337209) by CRC Press
3. K K Dash, S Chakraborty, R Kumar, T Ghosh (2021). Rate Kinetics in Thermal Food-Processing Operations, Food Processing: Advances in Thermal Technologies (ISBN 9780367337209) by CRC Press
4. KK Dash, S Chakraborty, M Kumar, A Barmanray (2021). Application of Ohmic Heating in Food Processing, Food Processing: Advances in Thermal Technologies (ISBN 9780367337209) by CRC Press
5. Chakraborty, S., Routray, W., & Dash, K. K. (2022). Numerical Study of Baking. In *Advanced Computational Techniques for Heat and Mass Transfer in Food Processing* (pp. 247-274). CRC Press.
6. Kshirod K Dash, Mudasir A Malik. Emerging Technologies in Food Processing. NIPA Publication Newdelhi, 2022 (In Press).
7. Kshirod K Dash, Mudasir A Malik. Emerging Technologies in Food Processing. NIPA Publication Newdelhi, 2022 (In Press)
8. Panda, B.K., Panigrahi, S.S., Mishra, G., **Kumar, V.** (2022). Robotics for General Material Handling Machines in Food Plants. In *Transporting Operations of Food Materials within Food Factories* (Vol-3, Chapter-14), Elsevier, Amsterdam, Netherlands (Accepted).



### **DISTINGUISHED INVITED LECTURES BY SUBJECT EXPERTS:**

1. Dr Manoj K Nayak, Principal Research Scientist, Department of Agriculture and Fisheries, Queensland Government, Brisbane, Australia
2. Dr. M. Shafiur Rahman, Associate Professor & Associate Head, Department of Food Engineering and Technology, State University of Bangladesh
3. Prof.Brijesh K Tiwari, Principal Research Officer, Teagasc Food Research Centre, Dublin Ireland.
4. Dr LajnafRoua, University of Monastir, Monastir, Tunisia
5. Dr Omer Ertugrul, Asst. Prof. of Biosystems Engineering / Faculty of Agriculture, KırşehirAhiEvrar University, Faculty of Agriculture
6. Ms. Sushma Chhettri, Quality Assurance Manager, Britannia Industries Limited, Guwahati, Assam
7. Dr. Abhinav Mishra, Department of Food Science and Technology, University of Georgia,100 Cedar St., Athens, GA, USA
8. Prof.Vikas Nanda, SLIET Longowal
9. P Srinivasa Rao, Professor Agricultural and Food Engineering, IIT Kharagpur
10. Dr AbidaJabeen, SKAUST Kashmir
11. Dr Aamir Husain Dar, IUST Kashmir
12. Dr Dibyakanta Seth, NIT Rourkela

### **PROGRAM ORGANIZED:**

International Conference on “Emerging Technologies in Food Processing (ETFP -2022)” during 25<sup>th</sup> -26<sup>th</sup> march 2022.

#### **International Conference on Emerging Technologies in Food Processing (ETFP -2022)**





Online  
International Conference on  
Emerging Technologies in Food Processing-II (ETFP -2022)  
March 25-26, 2022

Organized by  
Department of Food Processing Technology  
Ghani Khan Choudhury Institute of Engineering & Technology  
(A CFTI under Ministry of Education, Govt. of India)  
Narayanpur, Malda, West Bengal – 732141



Prof. Parmeswar Rao Alapati  
Director, GKCIET



Prof. Shalendra Jain  
Director, SLIET



Prof. Bijesh K. Tiwari  
Teagasc Food Research Centre, Ireland



Dr. Manoj K Nayak  
Queensland Government,  
Brisbane, Australia



Prof. P. S. Rao  
IIT Kharagpur, India



Prof. Vikas Nanda  
SLIET, Longowal, India



Dr. Abhinav Mishra  
University of Georgia, USA



Dr. Omer Ertugrul  
Kirsehir Ahi Evran University, Turkey



Dr. Lajhaj Roua  
University of Monastir, Tunisia



Ms. Sushma Chhetri  
Britannia Industries Limited, Assam



Dr. Kshirod Kumar Dash  
Organising Secretary ETFP 2022



Dr. Madasir Ahmad Malik  
Organising Secretary ETFP 2022



Dr. Sudip Kumar Das  
Co-Organising Secretary ETFP 2022



Dr. Sourav Chakraborty  
Co-Organising Secretary ETFP 2022



Dr. Vivek Kumar  
Co-Organising Secretary ETFP 2022




Diploma final year students (2019-2022) with faculties and staff






















**B. Tech final year students (2018-2022) with faculties and staff**


# **THE FACULTY& STAFF OF THE DEPARTMENT:**

	<p><b>Name: Dr. Kshirod Kumar Dash</b></p> <p><b>Designation: Associate Professor &amp; Head</b></p> <p><b>Department: Food Processing Technology</b></p> <p><b>Email:</b><a href="mailto:kshirod@gkciet.ac.in">kshirod@gkciet.ac.in</a></p>
<p><b>Brief Description</b></p>	<p>Dr. Kshirod Kumar Dash, is working as Associate Professor &amp; Head in the Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering &amp; Technology, Malda, West Bengal, India. He has completed his B. Tech in Agricultural Engineering from CAET Bhubaneswar, M. Tech in Dairy and Food Engineering and PhD in Food Process Engineering from IIT Kharagpur. He has published several research papers in peer reviewed journals and participated in various national and international conferences. He has successfully handled three funded research projects by various funding agencies. He has been associated with e-course development program of ePGPathshala-INFLIBNET, in the capacity of paper coordinator and content writer in the subject Food Technology. He teaches Transfer process in Food Engineering, Food process design and analysis, Mass Transfer operations in food processing, and Research methodology. His area of research mainly includes Dairy Technology, Unit Operations in Food Engineering, Food Process Engineering, Heat and Mass transfer in Food Processing, Drying Technology and Food process modeling.</p>

<b>Research Area</b>	<ul style="list-style-type: none"> <li> Dairy Technology</li> <li> Food process modeling</li> <li> Unit Operations in Food Engineering</li> <li> Thermal and Non thermal food processing</li> </ul>
	<p><b>Name: Dr. Sudip Kumar Das</b></p> <p><b>Designation: Assistant Professor</b></p> <p><b>Department: Food Processing Technology</b></p> <p><b>Email:</b><a href="mailto:sudip@gkciet.ac.in">sudip@gkciet.ac.in</a></p>
<b>Brief Description</b>	<p>Dr. Sudip Kumar Das, is Assistant Professor and former HoD in the Department of Food Processing &amp; Technology, Ghani Khan Choudhury Institute of Engineering &amp; Technology, Malda, West Bengal, India. He has completed his B.Sc. in Chemistry (H), B. Tech in Chemical Technology specialization in Oil Technology, M Tech in Oil Technology and PhD in Chemical Engineering from University of Calcutta, Kolkata (WB). He has worked as a HoD in the Department of Food Processing Technology from November 2013 to November 2019. He is the Chairman of Cultural Committee in this Institute and Convener of Swachh Bharat Abhiyan. He has several publications in various national and International journal. He has total Ten years of experience in the field of food processing. He has participated in number of national and International conferences and Faculty Development Program (FDP) related to Agricultural Engineering, Food &amp; other allied subject. He teaches unit Operation of Chemical Engineering, Engineering Thermodynamics, Food Process Engineering, Food Preservation &amp; Chemistry of Food. His Area of Research Mainly Includes Waste Management, Modelling &amp; Food Adulteration etc.</p>
<b>Research Area</b>	<ul style="list-style-type: none"> <li> Chemical Engineering</li> <li> Edible oil</li> <li> Waste Management</li> <li> Food Adulteration</li> </ul>
	<p><b>Name: Dr. Mudasir Ahmad Malik</b></p> <p><b>Designation: Assistant Professor</b></p> <p><b>Department: Food Processing Technology</b></p> <p><b>Email:</b><a href="mailto:mudasir@gkciet.ac.in">mudasir@gkciet.ac.in</a></p>
<b>Brief Description</b>	<p>Dr. Mudasir Ahmad Malik is working as Assistant Professor in the Department of Food Processing Technology, Ghani Khan Choudhury</p>

	<p>Institute of Engineering and Technology Malda West Bengal. He has completed his B. Tech in Food Technology from Islamic University of Science and Technology Awantipora (J &amp; K) and M. Tech and PhD in Food Engineering and Technology from Sant Longowal Institute of Engineering and Technology Longowal (Pb). He has a number of international publications in the field of Food Technology in reputed peer reviewed journals. He has worked on buckwheat starch during M Tech program and sunflower proteins isolates during PhD program. He has participated in number of national and International conferences related to Food Technology. He is currently working on the utilization of food wastes from food industries for the development of value added products. He has worked in number of universities of the country before join this institute. He is expert in food engineering, food chemistry, fruit and vegetable and cereal and pulses.</p>
<b>Research Area</b>	<ul style="list-style-type: none"> <li> Food waste utilization</li> <li> Food Protein Analysis</li> <li> Utilization of under-utilized crops</li> <li> Fruit and Vegetable</li> <li> Cereal and pulses</li> </ul>
	<p><b>Name: Dr. Sourav Chakraborty</b>  <b>Designation: Assistant Professor</b>  <b>Department: Food Processing Technology</b>  <b>Email: <a href="mailto:sourav@gkciet.ac.in">sourav@gkciet.ac.in</a></b></p>
<b>Brief Description</b>	<p>Dr. Sourav Chakraborty is working as Assistant Professor in the Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering and Technology, Malda, West Bengal. He obtained his B.Tech. degree from North Eastern Regional Institute of Science and Technology (NERIST) and M.Tech. and P.hD degrees in Food Engineering and Technology from Tezpur University (a central university). He served as Faculty in the Department of Agricultural Engineering, Assam University (a central university), Silchar, and as Assistant Professor (contractual) in the Department of Food Engineering and Technology, Tezpur University (a central university) for 7 years. He has expertise in Food Engineering and Technology, Food Process Modeling and Simulation, Artificial Intelligence in Food Processing, Rice Processing. He has developed innovative process units for the quality improvement of various food products during his tenure at Tezpur University related to skill development in</p>

	Food processing. He has published various research papers (more than 30) in National and International Peer-Reviewed Journals. He has published two edited books on the topic “Thermal and Non-thermal processing in CRC press (Taylor and Francis). He has filed one patent in collaboration with Department of Agricultural Engineering, Assam University, Silchar for the deshelling of Wood Apple. He received best poster awards for his excellent research at various International Conferences.
<b>Research Area</b>	<ul style="list-style-type: none"> <li>✚ Simulation and Modeling in Food Processing</li> <li>✚ Emerging Trends in Food Engineering and technology</li> <li>✚ Artificial intelligence in food processing</li> <li>✚ Food Preservation Technology</li> <li>✚ Rice Processing</li> </ul>
	<p><b>Name: Dr. Vivek Kumar</b></p> <p><b>Designation: Assistant Professor</b></p> <p><b>Department: Food Processing Technology</b></p> <p><b>Email: <a href="mailto:vivek@gkciet.ac.in">vivek@gkciet.ac.in</a></b></p>
<b>Brief Description</b>	<p>Dr. Vivek Kumar is serving as an Assistant Professor in Ghani Khan Choudhury Institute of Engineering and Technology, Malda, West Bengal, which is a Centrally Funded Technical Institute under Ministry of Education, Government of India. He has completed Bachelor of Technology in Agricultural Engineering from Allahabad Agricultural Institute Allahabad, U.P, in the year 2007. He received his Master of Technology in Agricultural Process and Food Engineering from Aligarh Muslim University, Aligarh, U.P, in the year 2009. He worked as Senior Research Fellow in NAIP scheme funded by ICAR and hosted by College of Agricultural Engineering and Post-Harvest Technology (CAU Imphal), Sikkim, for one year. He qualified NET/ICAR In July 2011 and in the same year he joined PhD program in Agricultural and Food Engineering Department, Indian Institute of Technology Kharagpur. He has published several research papers in international peer reviewed journals along with book chapters. He has presented his research work in various international conferences. He is a member of Indian Society of Agricultural Engineers (ISAE), India; Association of Food Scientists and Technologists (AFST), India; and Institute of Food Technologists (IFT), Chicago, USA. After completion of his Ph.D., he has served as Assistant Professor in different colleges such as Centurion University of</p>

	Technology and Management, Paralakhemundi, Odisha; Gandhi Institute For Technology, Bhubaneswar.
<b>Research Area</b>	<ul style="list-style-type: none"> <li>✚ Unit Operation (Transfer Process)</li> <li>✚ Food Preservation</li> <li>✚ Food Additives</li> <li>✚ Utilization of Agricultural wastes</li> <li>✚ Drying &amp; Dehydration</li> <li>✚ Numerical Modelling &amp; Simulation</li> <li>✚ Sensory Evaluation</li> </ul>
	<p><b>Name: Dr. Anwesa Sarkar</b></p> <p><b>Designation: Assistant Professor</b></p> <p><b>Department: Food Processing Technology</b></p> <p><b>Email: <a href="mailto:anwesa@gkciet.ac.in">anwesa@gkciet.ac.in</a></b></p>
<b>Brief Description</b>	Dr. Anwesa Sarkar is serving as an Assistant Professor in Ghani Khan Choudhury Institute of Engineering and Technology, Malda, West Bengal, which is a Centrally Funded Technical Institute under Ministry of Education, Government of India.
	<p><b>Name: MD JIGAR ALI</b></p> <p><b>Designation: Senior Trainer</b></p> <p><b>Department: Food Processing Technology</b></p> <p><b>Email: <a href="mailto:jigar@gkciet.ac.in">jigar@gkciet.ac.in</a></b></p>
<b>Brief Description</b>	Md. Jigar Ali, is working as Senior Trainer in the Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering & Technology, Malda, West Bengal, India. He has completed his Diploma in Food Processing Technology (FPT) from WBSCTE, B.Tech in Food Technology (FT) from WBUT, West Bengal and B.Sc. (Bio) University of Kalyani (KU), West Bengal. He teaches Transfer process in Food Microbiology, Food Chemistry, Food processing & Preservation, Microbial Technology and Food Packaging Technology.
	<p><b>Name: PRANAB ROY</b></p> <p><b>Designation: Trainer</b></p> <p><b>Department: Food Processing Technology</b></p> <p><b>Email: <a href="mailto:pranab@gkciet.ac.in">pranab@gkciet.ac.in</a></b></p>
<b>Brief Description</b>	<b>PRANAB ROY</b> , is working as Trainer (NSDC-FICSI & NI-MSME Certified) & Lab In Charge (Microbiology Lab) in the Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering & Technology, Malda, West Bengal, India. He has completed his Two Years Certificate in Agricultural from WBCHE, & Three Years Diploma in Food Processing Technology from WBSCTE, West Bengal. He teaches Food Microbiology Lab, Microbial Technology Lab, Food Safety Analysis &





	Quality Control-1 & 2 Lab, Chemistry of Food Lab, Professional Practice-4 Lab in FPT And Food Analysis & Quality Control Lab FT, 3 <sup>rd</sup> Years, B.Tech.
<b>Area of Specialist</b>	Food processing and Baking Technician and Food Microbiologist.
	<b>Name: Mr. Mintu Sinha</b> <b>Designation: Trainer</b> <b>Department: Food Processing Technology</b> <b>Email: <a href="mailto:mintu@gkci.ac.in">mintu@gkci.ac.in</a></b>
<b>Brief Description</b>	Mr. Mintu Sinha is working as Trainer in the Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering & Technology, Malda, West Bengal, India, since 2013. He has completed his Diploma in Food Processing Technology from SheikhparaAbdurRahaman Memorial Polytechnic, Murshidabad. He has participated in various national and international conferences. He teaches Unit Operation of Chemical Engineering - I Lab, Unit Operation of Chemical Engineering - II Lab, Food Processing Lab – I, Professional Practice – I, Professional Practice – II, Food Industries Waste Management Lab and Unit Operation Lab. He is also engage in short term skill development program under Non Formal Education like PMKVY, NSQF, NVEQF etc.
	<b>Name: Mojahadul Islam Mallick</b> <b>Designation: Trainer</b> <b>Department: Food Processing Technology</b> <b>Email: <a href="mailto:mojahadul@gkci.ac.in">mojahadul@gkci.ac.in</a></b>
<b>Brief Description</b>	Mojahadul Islam mallick, is working as Trainer in the Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering & Technology, Malda, West Bengal-732141, India. He has completed his Diploma in Food Processing Technology from Sheikhpara ARM Polytechnic, under WBSCT&VE&SD. He is basically dedicatedly engaged in Skill development program and Hands on practical training program time to time conduct by the Department of Food Processing Technology, GKCIET, Malda under Non Formal education program like PMKVY, NSQF, NVEQF etc. Besides this dedicated schedule he is engaged and conduct different practical classes and lab work in Diploma level courses.

**TECHNICAL STAFF**

	<b>Name: Sudipta Ghosh</b> <b>Designation: Senior Technical Assistant</b> <b>Department: Food Processing Technology</b> <b>Email: <a href="mailto:sudipta@gkci.ac.in">sudipta@gkci.ac.in</a></b>
<b>Brief Description</b>	Sudipta Ghosh, is working as Senior Technical Assistant, Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering & Technology, Malda, West Bengal, India. He has completed his Diploma in Food Processing Technology from WBSCTE and B.Tech in Food Technology from JNU, Jaipur.



	<b>Name: Sumanta Kumar Guin</b> <b>Designation: Technical Assistant</b> <b>Department: Food Processing Technology</b> <b>Email: <a href="mailto:sumanta@gkciet.ac.in">sumanta@gkciet.ac.in</a></b>
<b>Brief Description</b>	Sumanta Kumar Guin, is working as Technical Assistant, Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering & Technology, Malda, West Bengal, India. He has completed his Diploma in Food Processing Technology from WBSCTE.
	<b>Name: Sultana Parvin</b> <b>Designation: Technical Assistant</b> <b>Department: Food Processing Technology</b> <b>Email: <a href="mailto:sultana@gkciet.ac.in">sultana@gkciet.ac.in</a></b>
<b>Brief Description</b>	Sultana Parvin, is working as Technical Assistant, Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering & Technology, Malda, West Bengal, India. She has completed her B.Tech in Food Technology from GKCIET.

#### Office staff

	<b>Name: MojammelHoque</b> <b>Designation: MTS</b> <b>Department: Food Processing Technology</b> <b>Email: <a href="mailto:mojammel_mts@gkciet.ac.in">mojammel_mts@gkciet.ac.in</a></b>
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#### Dr Kshirod Kumar Dash

- ✚ Organized international conference on “Emerging Technologies in Food Processing, ETFP-2022.” as organizing secretary.
- ✚ Organized two weeks training on Food Processing Technology from 2<sup>nd</sup> to 16<sup>th</sup> March, 2022 in the Department of Food Processing Technology, GKCIET.

#### Publications

Altaf, A., Usmani, Z., Dar, A. H., & Dash, K. K. (2022). A comprehensive review of polysaccharide-based bionanocomposites for food packaging applications. *Discover Food*, 2(1), 1-13.

Shams, R., Singh, J., Dash, K. K., & Dar, A. H. (2022). Comparative study of freeze drying and cabinet drying of button mushroom. *Applied Food Research*, 2(1), 100084.

Bhagya Raj, G. V., Swami Hulle, N. R., & Dash, K. K. (2022). Rheological characteristics of reconstituted freeze-dried dragon fruit pulp powder: Effect of concentration and temperature. *Journal of Food Processing and Preservation*, e16696.

Dash, K.K., Fayaz, U., Dar, A.H., Shams, R., Manzoor, S., Sundarsingh, A., Deka, P. and Khan, S.A., (2022). A comprehensive review on heat treatments and related impact on the quality and

microbial safety of milk and milk-based products. *Food Chemistry Advances*, 100041.

Raj, G. V. S., & Dash, K. K. (2022). Effect of intermittent microwave convective drying on physicochemical properties of dragon fruit. *Food Science and Biotechnology*, 31(5), 549-560.

Dash, K. K., Sharma, M., & Tiwari, A. (2022). Heat and mass transfer modeling and quality changes during deep fat frying: A comprehensive review. *Journal of Food Process Engineering*, 45(4), e13999.

Dash, S., Choudhury, S., & Dash, K. K. (2022). Energy and exergy analyses of solar drying of black cardamom (*Amomum subulatum* Roxburgh) using indirect type flat plate collector solar dryer. *Journal of Food Process Engineering*, 45(4), e14001.

Bhagya Raj, G. V. S., & Dash, K. K. (2022). Comprehensive study on applications of artificial neural network in food process modeling. *Critical Reviews in Food Science and Nutrition*, 62(10), 2756-2783.

Deb, M., Routray, W., & Dash, K. K. (2022). Assessment of quality change with frying temperature and sensory analysis using fuzzy logic of hydrocolloids fortified flour-based multilayered snack. *Journal of Food Processing and Preservation*.

Dash, K. K., Deka, P., Bangar, S. P., Chaudhary, V., Trif, M., & Rusu, A. (2022). Applications of inorganic nanoparticles in food packaging: A Comprehensive Review. *Polymers*, 14(3), 521.

Sharma, M., & Dash, K. K. (2022). Microwave and ultrasound assisted extraction of phytochemicals from black jamun pulp: Kinetic and thermodynamics characteristics. *Innovative Food Science & Emerging Technologies*, 75, 102913.

Sharma, M., Dash, K. K., & Badwaik, L. S. (2022). Physicochemical and release behaviour of phytochemical compounds based on black jamun pulp extracts-filled alginate hydrogel beads through vibration dripping extrusion. *International Journal of Biological Macromolecules*, 194, 715-725.

Dash, K. K., Kumar, A., Kumari, S., & Malik, M. A. (2021). Silver Nanoparticle Incorporated Flaxseed Protein-Alginate Composite Films: Effect on Physicochemical, Mechanical, and Thermal Properties. *Journal of Polymers and the Environment*, 29(11), 3649-3659.

### **Book Chapter**

Chakraborty, S., Routray, W., & Dash, K. K. (2022). Numerical Study of Baking. In *Advanced Computational Techniques for Heat and Mass Transfer in Food Processing* (pp. 247-274). CRC Press.

Kshirod K Dash, Mudasir A Malik. *Emerging Technologies in Food Processing*. NIPA Publication Newdelhi, 2022 (In Press).

**Dr. Sudip Kumar Das**

**PARTICIPATION IN CONFERENCES AND WORKSHOPS:**

- Participated and presented a paper entitled “Process Development for Bottle Gourd Juice and Application of its Pulp Residue” at “Emerging Technologies in Food Processing”, GKCIET, Malda, 25-26<sup>th</sup> March 2022.
- Participated and presented a paper entitled “The Role of Functional Foods and Nutraceuticals in Health” at “Emerging Technologies in Food Processing”, GKCIET, Malda, 25-26<sup>th</sup> March 2022.
- Participated and presented a paper entitled “Characteristics of Pulse Electric Field” at “Emerging Technologies in Food Processing”, GKCIET, Malda, 25-26<sup>th</sup> March 2022.
- Participated and presented a paper entitled “Characteristics of High-Pressure Technology in Food Preservation” at “Emerging Technologies in Food Processing”, GKCIET, Malda, 25-26<sup>th</sup> March 2022.
- Participated and presented a paper entitled “Development of Cloud computing-based Mobile App for the Assessment of Turmeric Powder Quality” at “Emerging Technologies in Food Processing”, GKCIET, Malda, 25-26<sup>th</sup> March 2022.

**FDP/SHORT TERM TRAINING PROGRAM ATTENDED:**

- Participated in and completed the 5-day online FDP on the theme “Part 1 of the online UHV Refresher 1” organized by the All India Council for Technical Education (AICTE) from 23 August, 2021 to 27 August 2021.
- Participated in and completed the One Week online Short Term Course on “Role of Technical Institutions in Community Development” organized by NITTTR, Kolkata from 20th September to 24th September 2021.
- Participated in and completed the One Week online Short Term Course on “Renewable Energy Sources and Emerging Technologies” organized by NITTTR, Kolkata from 6th September to 10th September 2021.
- Participated and completed the 5-day online FDP on the theme “Harnessing the knowledge of value-added network in food technology” organized by GNIT, Kolkata from 8th June to 12th June 2021.
- PARTICIPATION IN THE TWO WEEKS TRAINING ON FOOD PROCESSING TECHNOLOGY AS A RESOURCE PERSON.

- ORGANIZED INTERNATIONAL CONFERENCE ON “EMERGING TECHNOLOGIES IN FOOD PROCESSING, ETFP-2022.” AS A CO-ORGANIZING SECRETARY.
- Conducted two Yoga sessions in the online student induction program for the first-year B.Tech student admitted at GKCIET, Malda in the year 2021-2022.

#### PUBLICATIONS:

- Sudip Kr. Das<sup>1</sup>, Md. Jigar Ali<sup>2</sup>, and Bijendra Sahoo\*, “Effect of Incorporation of Crude Rice Bran Oil Extract on Storage Stability of Coconut Oil”, Emerging techniques in food processing (2021), ISBN NO.: 9789394490253.

#### **Dr. Mudasir Ahmad Malik**

##### Books Published

Kshirod K Dash, Mudasir A Malik. Emerging Technologies in Food Processing. NIPA Publication Newdelhi, 2022 (In Press)

##### Conference organized

Organized the International conference on “Emerging Technologies in Food Processing-II ETFP-2022”, in the Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering and Technology Malda WB, India

##### Paper Published

Kaiser Younis, Saghir Ahmad, Mudasir Ahmad Malik. Mosambi peel powder incorporation in meat products: Effect on physicochemical properties and shelf life stability. Applied Food Research (2021), 1 (2), 100015. <https://doi.org/10.1016/j.afres.2021.100015>

##### Faculty Development Programs

Faculty Development Program on ensuring the safety of poultry and meat and their products in Domestic market from 23.08.2021 to 27.08.2021.

##### Lectured Delivered

Delivered the lecture at training program organized by Centre of Food Technology, University of Allahabad, on 03.03.2022.

Recourse person for two week training conducted by department of food processing technology GKCIET Malda.

##### Modules from National Institute of Technical Teachers Training

Completed the three more Modules from National Institute of Technical Teachers Training

Module 5 - Technology Enabled Learning & Life-Long Self Learning

Module 6 - Student Assessment and Evaluation

Module 7 - Creative Problem Solving Innovation and Meaningful R&D

Have contributed to the growth of institute in the following capacities.

Sl. No.		Date	Memo No.
01	Member of AICTE 360 Degree Feedback Committee	12.07.2021	GKCIET/6370
02	Chairman of Annual Stock Verification of Dean Student office	26.06.2021	GKCIET/6325
03	Member of Admission Committee for B Tech Program	09.08.2021	GKCIET/6444
04	Examination Co-ordinator (Degree)	17.08.2021	GKCIET/6469
05	Co-treasurer of Nirman Sahayaks Program	26.07.2021	GKCIET/6399
06	Member of Recruitment Committee	06.12.2021	GKCIET/7273
07	Nodal Office for All India Survey on Higher Education (AISHE)	17.02.2020	GKCIET/7608
08	Member of Committee for Uploading the Photographs on Institute Website	28.03.2022	GKCIET/7982

#### Dr. Sourav Chakraborty

- ✚ Organized International Conference (online mode), ETFP-2022 in the Department of Food Processing Technology, GKCIET from 25-26<sup>th</sup> March, 2022.
- ✚ Food committee in-charge for the celebration of 73rd Republic Day, Veterans India Run and FiT India Sports events on 26th January, 2022.
- ✚ Act as Joint Convener of the sanitization committee formulated for COVID-19 monitoring.
- ✚ Act as resource person for two weeks training on Food Processing Technology from March 2 to 16, 2022 in the Department of Food Processing Technology, GKCIET.
- ✚ Food Committee member for the Visit of Hon'ble Minister of State, MoE, GoI on 12th February 2022
- ✚ Invigilator for the written exam conducted related to recruitment on 28.02.2022
- ✚ Food Committee member for the lunch and breakfast during the written exam conducted related to recruitment on 28.02.2022
- ✚ Food committee incharge for the arrangement of Snacks and Lunch during International Women's day celebration on 08.03.2022.
- ✚ Choudhary, A. K., Chakraborty, S., Kumari, S., & Hazarika, M. K. (2022). Feed forward neural network and its reverse mapping aspects for the simulation of ginger drying kinetics. *Agricultural Engineering International: CIGR Journal*, 24(1).



- ✚ Chakraborty, S., Routray, W., & Dash, K. K. (2022). Numerical Study of Baking. In *Advanced Computational Techniques for Heat and Mass Transfer in Food Processing* (pp. 247-274). CRC Press.
- ✚ One of my paper “Application of fuzzy logic and proportional odd modeling approach sensory evaluation of microwave –ultrasound treated bottle gourd juice” has been accepted in the Journal of Food Science and Technology. This article will provide an innovative method based on hybridization for the evaluation of food quality attributes and ranking of their samples.
- ✚ In collaboration with Assam University (a central University) a patent has been filled on “Coarse and hard-shelled fruit holder” focusing for the de-shelling of Wood Apple.
- ✚ Two project under TDC and SERB have been applied as principle investigator.

### **Dr Vivek Kumar**

- ✚ Organized International Conference (online mode), ETFP-2022 in the Department of Food Processing Technology, GKCIET from 25-26<sup>th</sup> March, 2022.
- ✚ Act as Joint Convener of the sanitization committee formulated for COVID-19 monitoring.
- ✚ Act as resource person for two weeks training on Food Processing Technology from 2<sup>nd</sup> to 16<sup>th</sup> March, 2022 in the Department of Food Processing Technology, GKCIET.
- ✚ Transport arrangement committee member for the Visit of Hon’ble Minister of State, MoE, GoI on 12.02.2022.
- ✚ Invigilator for the written exam conducted related to recruitment on 28.02.2022.
- ✚ Published a book chapter: Panda, B.K., Panigrahi, S.S., Mishra, G., **Kumar, V.** (2022). Robotics for General Material Handling Machines in Food Plants. In *Transporting Operations of Food Materials within Food Factories* (Vol-3, Chapter-14), Elsevier, Amsterdam, Netherlands (Accepted).
- ✚ One of my paper “Impact of different drying methods on sensory and physicochemical analysis of instant green bell pepper chutney mix” has been accepted in the Journal “Measurement: Food”. This article will provide an innovative method based on hybridization for the evaluation of food quality attributes and ranking of their samples.
- ✚ Two project under TDC and SERB have been applied as principle investigator.

### **Md Jigar Ali**

Professional achievements during the reporting year-2021-22

- ✚ Departmental Exam coordinator from 23/02/2021 to till date
- ✚ Participation in the second International Conference on “Emerging Technologies in Food

Processing (ETFP-2022)', as a Member, Memo no: GKCIET/ 7652

- + Member, Admission committee of Diploma & B.Tech, AY-2021-22, Memo No: GKCIET/6444
- + As a Resource person in the “Two weeks training on Food Processing Technology”, Dept. FPT, GKCIET, from 2nd to 15th March, 2022.
- + Performed final Semester Exam duties as invigilator.
- + Evaluation answer scripts of Diploma semester Exam.
- + Performed as External Examiner for Diploma 5<sup>th</sup> Semester students at Malda Polytechnics.

#### **TRAINING COURSES & FDP ATTENDED:**

- + Completed 12 weeks course (04 Credit) course on Food Preservation Technology, AICTE, SWAYAM & CEC, From 30 Oct 2021 to 30 Oct 2021,
- + FDP on “Student Assessment and Evaluation” from 20/09/2021 to 24/09/2021, NITTTR, Kolkata
- + ATAL, FDP on “Non-Thermal Processing of Food Products” AICTE Training and Learning (ATAL) Academy, From 2021-06-29 to 2021-07-03
- + FDP on “Laboratory Experimentation in Engineering Chemistry” NITTTR, Kolkata, From 13/12/2021 to 17/12/2021
- + FDP on “Material Science and Engineering Approaches for Food System Design" from 20/12/2021 to 24/12/2021, AICTE Training and Learning (ATAL) Academy.
- + FDP on “Harnessing the Knowledge of Value Addition Network in Food Technology, GNIT, JIS, from 8th - 12th June, 2021
- + FDP on "Recent Trends in Food Processing and Preservation Technologies" from 01/02/2022 to 05/02/2022, AICTE Training and Learning (ATAL) Academy.
- + Completed NITTT course under AICTE:
  - Module 3\_ Communication Skills, Modes & Knowledge Dissemination
  - Module 4\_ Instructional Planning and Delivery
  - Module 5\_ Technology Enabled Learning & Life Long Self Learning
  - Module 6\_ Student Assessment and Evaluation
- Performed Election duty as Micro Observer for 044-GAZOLE (SC) Legislative Assembly Election-2021, West Bengal

#### **PUBLICATIONS:**

Sudip Kr. Das<sup>1</sup>, Md.Jigar Ali<sup>2</sup>, and Bijendra Sahoo\*, “Effect of Incorporation of Crude Rice Bran Oil Extract on Storage Stability of Coconut Oil”, Emerging techniques in food processing

(2021), ISBN NO.: 9789394490253.

**Mr. Pranab Roy**

SL No.	Training undergone, during the period under report-2021- 2022.	Duration Periods
1.	‘Teaching Redefined for Gen Z’ organized by Department of Educational Psychology, Centre for Capacity Building Programmes for School Teachers, Tamil Nadu Teachers Education University, Chennai & Internal Quality Assurance Cell.	17/05/2021 to 23/05/2021.  Duration: 7 Days
2.	FEDING WATER to THIRSTY BIRDS Organised by ECO_CLUB, KAAMADHENU ARTS AND SCIENCE COLLEGE, Tamil Nadu.	10.05.2021 to 10.06.2021  Duration: 1 Months.
3.	Webinar on “Strategies for Cost Reduction Management in Operations & Human Capital Optimisation in the Pandemic Times for SME’s Attendees”- Organised by WASME’s, Noida	Tuesday, 25 <sup>th</sup> May,2021
4.	Virtual Workshop on “Introduction to IPR focused on Patent Filing”- Organised by IIC and IQAC of GGDSD College, Haryana.	31 May, 2021
5.	Webinar on “Environmental Issues and Challenges” Organized by The Department of Chemistry, Government Degree College for Women, Karimnagar, Telangana.	17 <sup>th</sup> April, 2021.
6.	virtually in the International Dialogue on Ecological Restoration organized from Rajasthan, India by the hosting organizations Dept. of Environmental Sciences, M. L. Sukhadia University, Udaipur; & Agrawal Kanya Mahavidyalay, Gangapur City, Rajasthan along with 40 partner associates.	5 June 2021
7.	Webinar “Govt. Schemes for Start-up and Qualities to become a Successful Entrepreneur”- awarded from INFINITE DESIRE.	5 June 2021
8.	National Webinar, Organised by BPIT Delhi along with Institution’s Innovation Council-IIC.	3 <sup>rd</sup> June 2021
9.	International Webinar “Ecosystem Restoration Through	5 June 2021

	Sustainable Biodiversity” Organised by Zoology and Biotechnology Department in Collaboration with: ESW Society, Khajuraho, India.	
10	Online FDP on “ICT Tools for Effective Teaching Learning”-Organised by IQAC, Nagpur.	8 <sup>th</sup> -10 <sup>th</sup> June 2021, 3 Days
11	Webinar series titled “SENIOR TALKS”-Organised by IEEE and NBA, Chennai.	19 <sup>th</sup> -22 <sup>th</sup> MAY, 2021. 4 Days
12.	Webinar on “Role of Dr. B.R. AMBEDKAR and His Vision towards Women Empowerment and Education”- organized by Dr. Ambedkar Institute of Technology, Bengaluru.	12/06/2021
13.	PHYSICAL ACTIVITY AND WELLNESS: THE EFFECTIVE MODALITY FOR MANAGING COVID-19- Organised by FIT INDIA	13/06/2021
14.	National webinar on “Innovative Approaches to Content Delivery and Evaluation of Learners through Digital Platform”- Jointly Organized by Department of Physics & Department of History Govt. Degree College, Dharmanagar.	12 <sup>th</sup> June, 2021.
15.	Record of Achievement Leadership and programme management in Infection Prevention and Control (IPC)-World Health Organization (WHO).	June 14, 2021 Module-4
16.	One Week Short Term Training Program (AICTE Sponsored) on Next Generation Wireless Technologies: 5G and beyond”- AICTE.	7 <sup>th</sup> June to 12 <sup>th</sup> June, 2021 Duration: 7 Days
17.	“Effective and Improved Techniques of Soybean Production”-Organised by Agriculture University, Kota	11 <sup>th</sup> June-2021
18.	FDP on “NUMBER THEORY & ITS APPLICATION”-Organised by GATES INSTITUTE OF TECHNOLOGY, Andhra Pradesh.	14 <sup>th</sup> June to 19 <sup>th</sup> June, 2021 Duration: 7 Days
19.	National Level Yoga Programme-FIT INDIA	14 <sup>th</sup> June to 20 <sup>th</sup> June, 2021 Duration: 7 Days
20.	Online National Level Workshop on “Empowering	17 <sup>th</sup> & 18 <sup>th</sup> June 2021.

	Entrepreneurship Ecosystem Leaders”-Organised by Entrepreneurship Development Cell and Department of Commerce & Management, Kholapur.	Two days’
21.	FDP on ENTREPRENEURSHIP-INNOVATION-IPR-STARTUP- Organised by JIS and IIC, Kalyani.	28-06-2021 to 03-07-2021 Duration: 7 Days
22.	National Webinar on Career Opportunities in EV Industry organized by Department of Electrical and Electronics Engineering & IIC, MSAJCE, Chennai	12/07/2021.
23.	webinar on “INDUSTRIAL AUTOMATION AND INDUSTRY 4.0”-organized by Department of Electrical and Electronics Engineering, DMI College of Engineering, Chennai.	02.07.2021.
24.	National Seminar series on “Career Opportunities for Food Technologists” organized by Department of Food Technology, Faculty of Engineering, Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu.	Six –day during 14 – 19 June, 2021.
25.	Workshop entitled “Intellectual Property Rights (IPRs) & IP Management for Startup”- Meghnad Saha Institute of Technology, Kolkata.	17/07/2021.
26.	Safe Practice for Micro and Small Food Processing Enterprise-Organised by FICSI, NEW DELHI.	Jul 23, 2021
27.	Online Webinar on Latest Trends in Packaging for Food Processing- Organised by FICSI, NEW DELHI.	Jul 16, 2021
28.	INTERNATIONAL FDP ON “ART OF EFFECTIVE EDUCATION DURING PANDAMIC SCENARIO”- Organised by TNTE UNIVERSITY, Tamil Nadu.	23-07-2021 to 29-07-2021 Duration: 7 Days
29.	on “Reimagining Youth Skills Post-Pandemic”- organized by UNV India in collaboration with AFS Intercultural Programs India on World Youth Skills Day 2021.	15 <sup>th</sup> and 22 <sup>nd</sup> July 2021
30.	Online Webinar on Allergen Management in Food Processing- Organised by FICSI, NEW DELHI.	30 JULY 2021
31.	IPTSE Sponsored Three Days Online International	4 <sup>th</sup> to 6 <sup>th</sup> August, 2021.



	Faculty Development Program on “INTELLECTUAL PROPERTY RIGHT & PATENTS”	3 Days
32.	FDP on Advanced Materials for Future Science organized by the Department of Science and Humanities (Physics & Chemistry), Jeppiaar Engineering college, Chennai-600119.	6 <sup>th</sup> to 13 <sup>th</sup> September 2021 7 days
33.	Northeast – the unexplored slice of paradise: Empowering North East MSMEs through credit, technology and market access by promoting Aatmanirvar Bharat and Vocal for Local”- WASME’s	29 <sup>th</sup> September 2021
34.	Five Day Online Training Program on “Promotion of Public in Agriculture and Allied Sectors”- Jointly organized by MANAGE & NAHEP	27 <sup>th</sup> September to 1 <sup>st</sup> October, 2021. 5 days
35.	International webinar organized by Plantgenomia on the topic “CURRENT AND FUTURE AGRICULTURE WITH GENOME EDITING”	19 September 2021.
36.	Online Webinar on Food Fraud & Its Prevention- Organised by FICSI, NEW DELHI.	7 <sup>th</sup> October 2021
37.	Online Webinar on Getting India Ready to Become Main Food Supplier to The World Part 1 – Importance of Ingredient Selection- Organised by FICSI, NEW DELHI.	19 <sup>th</sup> November 2021
38.	Workshop on Entrepreneurship and Innovation as Career Opportunity jointly organized by the Faculty of Humanities and Science & Office of International Relations, Dr.M.G.R.Educational and Research Institute, Tamilnadu	25.11.2021
39.	“Creating Entrepreneurial culture and mindset” organized by Department of HRM, Dr.MGR Educational and Research Institute, Adayalampattu Phase II Campus, Chennai	24 <sup>th</sup> November 2021.

40.	National Webinar on Role of Indigenous Food and Poshan Vatika, in addressing Malnutrition in Tribal Children, -Organised by SPMCW, University of Delhi.	28 <sup>th</sup> Sep, 2021
41.	Open WHO Course: Antimicrobial Stewardship: A competency-based approach.	December 17, 2021 Module:6
	SEAMEO 56 <sup>th</sup> Anniversary Celebration: SEAMEO Symposium on SEAMEO Centres: Yesterday-Today-Tomorrow and the Launch of SEAMEO CARES Toolkit on Remote Teaching and Learning, Pascua Valenzuela.	25 November 2021
42.	“Mango Producing is not enough! Wakeup Call on Postharvest Handling, Processing Technology, and Value Chain Management”- organized by Department of Agriculture and Environmental Sciences, NIFTEM.	December 10, 2021
43.	Virtually participants of patriotic run from all over India- organized by veterans India and AICTE.	January 26, 2022,
44.	IGEN SDG research survey project titled “SDG-7 IMPACT ON INDIAN UNIVERSITIES” leads to support UN DESA towards United Nation Sustainable Development Goals.	March 2022
45.	Online Webinar on Importance of Food Safety Audits- Organised by FICSI, NEW DELHI.	11 <sup>th</sup> February 2022
46.	“Analytical Methods for Stability Testing of Pharmaceuticals and Herbal Formulations” organized by Shri Vishnu College of Pharmacy (Autonomous), Bhimavaram.	07 <sup>th</sup> to 09 <sup>th</sup> March, 2022
47.	30 Days Master Class on Artificial Intelligence- Organised by SKILL AP, APSSDC and Pantech.	06-12-2021 to 04-01-2022, One Month
48.	Election Duty as Micro Observer for Assembly Election (W.B).	May 2021
49.	NITTT Module-1, 2, 4, 5, 6, 8 is successfully complete.	Feb’ 2021-22

Sl. No	Nature of Work	Details
1	Practical Classes for Diploma 5 <sup>th</sup> Semester, 2021-2022.	Subject: Food Analysis and Quality Control - II Lab Weekly Class load: 4 Hrs.
2	Practical Classes for Diploma 6 <sup>th</sup> Semester, 2021-2022.	Subject: Food Analysis and Quality Control - II Lab Weekly Class Load: 4 Hrs.
3	Practical Classes for Diploma 3 <sup>rd</sup> Semester, 2021-2022.	Subject: Food Microbiology Lab Weekly Class load: 4 Hrs.
	Practical Classes for B. Tech 5th Semester, 2020-21.	Subject: Food Analysis and Quality Control -I Lab Weekly Class load: 4 Hrs.
4	Practical Classes for B. Tech 6th Semester, 2021-2022	Subject: Food Analysis and Quality Control - II Lab Weekly Class Load: 4 Hrs.
5	Organiser committee member for International Conference on “Emerging Technologies in Food Processing (ETFP-2022), held on March, 2022.	
6	Working on Service Book - Verifying Officer, Admin	
7	Prepared Lab manual for the subject: Food Analysis and Quality Control Lab	
8	Prepared Lab manual for the subject: Food Microbiology Lab, 3 <sup>rd</sup> Sem, Diploma, FPT.	
9	Prepared Lab manual for the subject: Chemistry of Food II Lab	
11	Registration and student admission committee member of DIPLOMA and B. TECH student of Food Processing Technology.	
12	Coordinated Induction Programme (B. Tech Freshers: 2020-21)	
13	Departmental Purchase Committee member	
14	Member of Non-Formal Food Processing Purchase	

	Committee	
18	Checker/Member of NAD Cell Committee	
19	Invigilator-Exam Duty Chart.	
20	Member of Annual Stock Verification Committee for 2020-21	
21	Organiser, Trainer, evaluation of the MAKAUT BSc 2nd year students Two Weeks training at our department.	

**Mr. Mintu Sinha**

Successfully completed the Short Term Training Program/FDP/ATAL/UHV/ARPIT/HINDI COURSE/NITTT COURSE

Sl. No.	Programme Title	Programme organised by	Date: From	Date: To	Duration (Week)
1.	Induction Training	NITTTR, Kolkata	21/06/2021	25/06/2021	1
2.	Entrepreneurship Development	NITTTR, Kolkata	28/06/2021	02/07/2021	1
3.	Environmental Engineering Laboratory: Equipment and Procedure	NITTTR, Kolkata	26/07/2021	06/08/2021	2
4.	Choice Based Credit System (CBCS) and Student's Performance Evaluation	NITTTR, Kolkata	09/08/2021	13/08/2021	1
5.	Induction Training	NITTTR, Kolkata	06/09/2021	10/09/2021	1
6.	Curriculum Development and Implementation	NITTTR, Kolkata	13/09/2021	17/09/2021	1
7.	Development of Laboratory Instruction and Manual	NITTTR, Kolkata	20/09/2021	24/09/2021	1
8.	Hybrid Pedagogy	NITTTR, Kolkata	27/09/2021	01/10/2021	1
9.	Waste Water Treatment: Pollution Control and Reuse	NITTTR, Kolkata	04/10/2021	08/10/2021	1
10	Rural Engineering	NITTTR, Kolkata	03/01/2022	07/01/2022	1
11	Environmental Pollution Testing methods and Online	NITTTR, Kolkata	17/01/2022	28/01/2022	2

	LIVE Laboratory Demonstration				
12	Digital Tools for Faculty and Stuff	NITTTR, Kolkata	02/02/2022	04/02/2022	3 Days
13	Major Environmental Pollutants and Human Health	NITTTR, Kolkata	07/02/2022	11/02/2022	1
14	Outcome Based Education and Accreditation Processes	Nehru Institute of Technology , Coimbatore, Tamil Nadu, in association with Computer Society of India	17/06/2021	19/06/2021	3 Days
15	Harnessing the Knowledge of Value Addition Network in Food Technology	Department of Food Technology, Guru Nanak Institute of Technology	08/06/2021	12/06/2021	1
16	As a resource person in the “Two week training on Food Processing Technology	Department of Food Processing Technology, GKCIET, MALDA	02/03/2022	15/03/2022	2
17	Hindi Language Course (PRAGYA)	Government of India, Ministry of Home Affairs, Department of Official Language	16/11/2021		
<b>ATAL (AICTE Training And Learning Academy)</b>					
18	Non-Thermal Processing of Food Products	ATAL	29/06/2021	03/07/2021	1
19	Food Processing, preservation and cold storage	ATAL	04/07/2021	08/07/2021	1
20	Nutraceuticals: Basics & Beyond	ATAL	12/07/2021	16/07/2021	1
21	Advances in food and value	ATAL	23/08/2021	27/08/2021	1



	addition of grains				
22	Waste Technology	ATAL	25/09/2021	29/09/2021	1
23	Material Science and Engineering Approaches for Food System Design	ATAL	20/12/2021	24/12/2021	1
24	Recent Trends in Food Processing and Preservation Technologies	ATAL	01/02/2022	05/02/2022	1
<b>UHV (All India Council for Technical Education (AICTE))</b>					
25	Inculcating Universal Human Values in Technical Education	AICTE	19/07/2021	23/07/2021	1
26	Part 1 of the online UHV Refresher 1 FDP	AICTE	23/08/2021	27/08/2021	1
<b>IIC Online session</b>					
27	Innovation Ambassador training(Advanced Level, Total 16 Sessions)	MoE's Innovation cell & AICTE	30/06/2021	30/07/2021	1 month
<b>SWAYAM COURSE (ARPIT)</b>					
28	For successfully completing the ARPIT course for Career Advancement Scheme (CAS) promotion Refresher Course on Teacher and Teaching in Higher Education	Savitribai Phule Pune University Pune	21/08/2021	--	12
<b>ELECTION DUTY</b>					
29	General Election To West Bengal Legislative Assembly,2021	District Election Officer Malda, West Bengal	--	--	
<b>AICTE - NITTT- Courses</b>					
30	<b>Module 3_ Communication</b>	AICTE -	--		8

	<b>Skills, Modes &amp; Knowledge Dissemination</b>	NITTT		
	<b>Module 4_ Instructional Planning and Delivery</b>	AICTE - NITTT	--	8
	<b>Module 5_ Technology Enabled Learning &amp; Life Long Self Learning</b>	AICTE - NITTT	--	8
	<b>Module 6_ Student Assessment and Evaluation</b>	AICTE - NITTT	--	8
	<b>Module 7_ Creative Problem Solving, Innovation and Meaningful R &amp; D</b>	AICTE - NITTT	--	8
	<b>Module 8_ Institutional Management &amp; Administrative Procedures</b>	AICTE - NITTT	--	8

Successfully completed the Seminars/Conferences/Workshops

Sl. No.	
1.	National Seminar on Impact of National Education Policy 2020 on NAAC Accreditation Framework, Organised by Jagannath International Management School, Vasant Kunj New Delhi-110070 held on June12, 2021.
2.	One day National Level Webinar on "Uninfluenced mind: A Glorious Life" Organized by IQAC. Certificate ID : TQPGJK-CE000033 Date: 17-06-2021
3.	Webinar on "Effective and Improved Techniques of Soybean Productions", organized by Agriculture University, Kota Directorate of Research Agricultural Research Station, Ummedganj, Kota on World Environment Day i.e. 11.06.2021
4.	Webinar on "Exploring Internet and Innovation" conducted by Department of Computer Science and Engineering on 18 <sup>th</sup> June, 2021.
5.	Participated in the LIVE SESSION "YOGA: THE PATH TO EXCELLENCE" organized by Meerut Institute of Technology, Meerut on June 21, 2021
6.	National Level webinar on " RAJA YOGA FOR HAPPINESS - INTERNATIONAL

	YOGA DAY 2021 on 21th June 2021
7.	Webinar on Additives Manufacturing for Medical Applications, at Navrachana University, Vadodara held on 25th June 2021
8.	Two Days National Level Workshop on Development of IOT Products and Patenting Organized by Dept. of Information Technology, Dr. Mahalingam College of Engg. & Tech., Pollachi-642003, India on 25-26th June 2021
9.	CII Education Conference: Innovations in Learning on 29-30 <sup>th</sup> June 2021.
10	Participated in the Webinar on the occasion of “World Food Safety Day-2021” held on 7th June, 2021, Organized by NetProFaN- North East Chapter & Dept. of Applied Biology (Food Science & Technology) University of Science & Technology, Meghalaya.
11	Attending webinar on Nutritionists / Dietitians: Need of Today and Tomorrow Organized by Ganpat University, Ganpat Vidyanagar, Mehsana-Gozaria Highway, PO - 384012, North Gujarat, INDIA held on 23 <sup>rd</sup> July 2021
12	International Webinar on “Mango Producing is not enough! Wakeup Call on Postharvest Handling, Processing Technology, and Value Chain Management”, Tuesday, 7th December 2021, organized by Department of Agriculture and Environmental Sciences, NIFTEM.
13	International Webinar on "Citrus: Production is not enough! A wakeup call on Postharvest Handling, Processing Technology, and Value Chain Management", Monday, 11th April, 2022, organized by Department of Agriculture and Environmental Sciences, NIFTEM, Kundli, Sonapat, India.

Sl. No	Member of committee/ Activity involved	
1	Member of COVID-19 Monitoring Committee	GKCIET/7544 Date: 03.02.2022
2	Organiser committee member for International Conference on “Emerging Technologies in Food Processing (ETFP-2022), held on 25 <sup>th</sup> -26 <sup>th</sup> March, 2022.	GKCIET/7652 Date: 23.02.2022
3	Member of Admission Committee 2021-22	GKCIET/6444 Date: 09.08.2021
4	Member of SC/ST Cell	GKCIET/6597 Date: 24.09.2021

5	Member of Annual Stock Verification Committee for 2021-22	GKCIET/6325	Date: 26.06.2021
6	Checker/Member of NAD Cell Committee	GKCIET/5094	Date: 28.01.2020
7	Member of Plantation & Campus Development Committee (CDC)	GKCIET/AR/32/2020	Date:06.07.2020
8	Working as a member in the Store Streamlining Committee	GKCIET/5910	Date: 29.12.2020
9	In-Charge, Boys Common Room cum Gym	GKCIET/3998	Date: 03.09.2019
1	Chairman, LPC, Boys Gym & Common Room	GKCIET/4056	Date: 18.09.2019
1	Member of Hindi Correspondence Committee	GKCIET/1325	Date: 20.09.2018
1	Member of Departmental Purchase Committee (DPC)	GKCIET/351	Date: 29.11.2017
1	Member of Non-Formal/ Departmental (Food Processing) purchase Committee (DPC)	GKCIET/368	Date: 06.12.2017
1	Field Based activities: like Tree Plantation	Order by Mali.	
1	Examination Invigilators Duties Chart (Internal, Semester)	Order by Mail.	
1	Recruitment Invigilators Duties Chart	Order by Mail.	
1	Practical Classes for Diploma 3 <sup>rd</sup> Semester, 2021-22.	Subject: Unit Operation of Chemical Engineering - I Lab Weekly Class load: 3 Hrs.	
1	Practical Classes for Diploma 5 <sup>th</sup> Semester, 2021-22.	Subject: Food Processing Lab - I Weekly Class Load: 4 Hrs.	
1	Practical Classes for Diploma 4 <sup>th</sup> Semester, 2021-22.	Subject: Unit Operation of Chemical Engineering - II Lab Weekly Class load: 3 Hrs.	
2	Prepared Lab manual for the subject Unit Operation of Chemical Engineering - I Lab, 3 <sup>rd</sup>		

	Sem, Diploma, FPT.
2	Prepared Lab manual for the subject: Food Processing Lab - I, 5 <sup>th</sup> Sem, Diploma, FPT.
2	Prepared Lab manual for the subject: Unit Operation of Chemical Engineering - II Lab, 4 <sup>th</sup> Sem, Diploma, FPT.

**Mojahadul Islam Mallick****FDP, STTP, UHV, Webinar (Self Development Programme) in 2021-22**

Sl No.	Title	Organised by	From	To	Certificate No.
1	International conference on Emerging Techniques in Food Processing (ETFP)	Dept. of Food Processing, GKCIET.	25-03-2021	26-03-2021	GKCIET/FPT/ETFP/213
2	ATAL FDP on “ Novel Technological Approaches for Utilization of Food Industry Waste”	ATAL (NIFTEM)	13-09-2021	17-09-2021	ATAL/2021/1630062067
3	ATAL FDP on “ Material Science and approaches for Food System Design”	ATAL (Tezpur University)	20-12-2021	24-12-2021	ATAL/2021/1639058475
4	“Mango Producing is not enough! Wakeup Call on Postharvest Handling, Processing Technology, and Value Chain Management”,	NIFTEM, (MOFPI)	07-12-2021		737
5	"Citrus: Production is not enough! A wakeup call on Postharvest Handling, Processing Technology, and Value Chain Management",	NIFTEM, (MOFPI)	11-03-2022		242
6	Radiation Health Safety and Security	Dept. of ME, IIT, Kanpur	02-03-2021	07-03-2021	Not given
7	International Webinar on Extrusion Technology and	Shyma Prasad Mukherji	ON 03- 09-2021		



	its Application in Food Product Development	College for Women, University of Delhi.			
8	FDP on “Harnessing the Knowledge of Value Addition Network in Food Technology”	GNIT, KOLKATA	08-06-2021	12-06-2021	No certificate no available
9	Completed NITTT 8 Modules	AICTE,	Appeared in Exam on 16/11/2021		Consolidated Certificate No: 05/2022/1/M1-M8/101
10	Hindi Language Course (PRAGYA)	Dept. of Official Language, Ministry of Home Affairs, Govt. of India.	Appeared in Exam on 16/11/2021		Passed. Certificate not yet issued.
11	Recent Trends in Food Processing and Preservation Techniques	ATAL (Dept. of Technology, Shivaji University, Kolhapur)	01-02-2022	05-02-2022	ATAL/2021/1632200083
12	“Advanced in Food and Value addition of Grains”	ATAL, (IIFPT)	23-08-2021	27-08-2021	ATAL/2021/1628098255

**Activity/ Engagements in 2021-22**

Sl No.	Engagements/committee/Activity	Date	Memo No./ Circular No.
1	Performed duty as Micro Observer in General Election to WB legislative Assembly, 2021		Election Commission, India.
2	Member, Departmental Purchase Committee (DPC)		GKCIET/351, Dated on. 29/11/2017
3	Organising Committee Member, ETFP-2022.	25 <sup>th</sup> -26 <sup>th</sup> March, 2022	GKCIET/7652, Dated on. 23/02/2022
4	Assigned to admission documents		By mail from HoD on 17

	verification and DATA filling committee 2021- 2022		Sep, 2021.
5	Member, Covid '19 monitoring committee.		GKCIET/7544, Dated on: 03/02/2022
6	Member of Annual Stock Verification Committee, 2021- 2022		GKCIET/6325, Dated: 26/06/2021
7	Member, Store Streamlining Committee.		GKCIET/5910, Dated: 29/12/2020
8	Internal/ Final Semester Examination Invigilation duties		Duty roster circulated through mail.
9	Recruitment Exam duty		Duty roster circulated through mail.
10	Practical Classes for Diploma 3 <sup>rd</sup> Semester, 2021-22.		Chemistry of Food I Lab
11	Practical Classes for Diploma 5 <sup>th</sup> Semester, 2021-22.		Bakery & Confectionary Tech lab
12	Prepared Lab manual for Chemistry of Food I Lab.		
13	Prepared Lab manual for Bakery & Confectionary Lab.		
14	Taken Practical classes in 15 days special training to MAKAUT Students.		Duty schedule circulated in Departmental Whats app group.
15	Performed Election Duty in Legislative assembly as Micro Observer.		

**Sudipta Ghosh****Seminars/Conferences/Workshops/Symposia Attended**

- ✚ Completed One week STTP through ICT mode on “Assessment and Evaluation under Outcome Based Education” organised by NITTTR, Kolkata from 21st February to 25th February, 2022.

- ✚ Have taken a pledge on data privacy and creating a secure cyber space for the state and the country on Data Privacy Day (28.01.2022) by Cyber Security Centre of Excellence, Department of Information Technology and Electronics, Government of West Bengal.
- ✚ Participated in the webinar on “Empowering Girl Child in Education, Health & Hygiene, Marriage, Empowerment, Gender Equality” on 24/01/2022 organised by GKCIET, Malda.
- ✚ Participated in the National Seminar (Web) on “Ancient Indian Science and Technology” on 21st August 2021 by NITTTR Kolkata.

#### **Brief statement of work**

- Engaged in Laboratory work as a Sr. Technical Assistant, Department of Food Processing Technology.
- Took lab classes (as per schedule of each semester) & take care of labs.
- Take care of Equipment's and also do the necessary maintenance (preventive, Corrective, Predictive)
- Maintain various lab related files, Stock register, Departmental register etc.
- Member of Swaccha Bharat Abhiyan (SBA) committee. (Memo No: GKCIET/127, Dated: 18.08.2017)
- Engaged actively in departmental activity like Departmental Purchase Committee (DPC) (Memo No. GKCIET/351, Dated: 29.11.2017)
- Member of Anti-Tobacco Committee. Dated 28/02/2018
- Member of Campus Development Committee (CDC). (Memo No: GKCIET/AR/32/2020, dated: 06.07.2020)
- Member of Anti-Ragging Committee, dated: 02.03.2021)
- Member of Annual Stock Verification Committee 2021-2022. (Memo No: GKCIET/6325, dated: 22.06.2020)
- Successfully completed Plantation Program Association with SHQ BSF Malda, dated on 25/07/2021
- Member of “Two weeks training on Food Processing Technology” conducted at Department of Food Processing Technology, GKCIET, Malda from 2<sup>nd</sup> March to 15<sup>th</sup> March, 2022.
- Engaged in field base activity like Tree Plantation.

- Engaged in Recruitment Examination Invigilation & Support Duties held on 11/08/2021, 13/08/2021, 14/08/2021& 16/08/2021.
- Engaged in Industrial Training duty of 4<sup>th</sup> year B.Tech students in Bhagirathi Co-operative Milk Producer's union Ltd, Berhampur, Murshidabad from 06/09/2021- 10/09/2021
- Engaged in Students Induction Program B. Tech batch 2021-2022.
- Member of COVID-19 Monitoring Committee (Block –C) for smooth conduction of offline classes on and from 3<sup>rd</sup> Feb, 2022 onwards. (Memo No: GKCIET/7544, Dated: 03.02.2022)
- Engaged in 73<sup>rd</sup> Republic Day Celebration, Veterans India Run and FiT India Sports events.
- Committee Member on the occasion of Visit of Dr. Subhas Sarkar, Hon'ble Minister of State, MoE, GoI on 12<sup>th</sup> February, 2022
- Engaged in Recruitment (Written) Examination Support Duties held on 28/02/2022.
- Member of second International Conference on “Emerging Technologies in Food Processing (ETFP-2022)” organized by Department of Food Processing Technology, GKCIET, Malda on 25<sup>th</sup> -26<sup>th</sup> March, 2022. (Memo No: GKCIET/7652, Dated 23.02.2022)
- Member of a Departmental IT Co-ordinator. (Memo No: GKCIET/7609, Dated 17.02.2022)
- Committee Member on the occasion of International Women's Day, 2022 on 08/03/2022.
- Committee Member on the occasion of “Maintenance of safe Working environment for Female employees at Workplace” organized by Internal Complaints Committee, GKCIET, Malda. (Memo No: GKCIET/7987, Dated 28.03.2022)

### **Sumanta Kumar Guin**

#### **Seminars/Conferences/Workshops/Symposia Attended**

- Completed One week STTP through ICT mode on “Assessment and Evaluation under Outcome Based Education” organised by NITTTR, Kolkata from 21<sup>st</sup> February to 25<sup>th</sup> February, 2022.
- Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “Recent Trends in Food Processing and Preservation Technologies” from 01/02/2022 to 05/02/2022 organised by Department of Technology, Shivaji University, Kolhapur.

- Have taken a pledge on data privacy and creating a secure cyber space for the state and the country on Data Privacy Day (28.01.2022) by Cyber Security Centre of Excellence, Department of Information Technology and Electronics, Government of West Bengal.
- Participated in the webinar on “Empowering Girl Child in Education, Health & Hygiene, Marriage, Empowerment, Gender Equality” on 24/01/2022 organised by GKCIET, Malda
- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on “Material Science and Engineering Approaches for Food System Design” from 20/12/2021 to 24/12/2021 organised by Tezpur University, Assam.
- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on “Building Sustainable and resilient Food security and Food Processing systems” from 25/10/2021 to 29/10/2021 organised by College of Food and Dairy Technology.
- Participated in the International Webinar on “Extrusion Technology and its Application in Food Product Development” held on 3<sup>rd</sup> September, 2021 organized by Department of Food Technology, Shyama Prasad Mukherji College for Women (University of Delhi).
- Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “Advances in food and value addition of grains” from 23/08/2021 to 27/08/2021 organised by Indian Institute of Food Processing Technology.
- Participated in Two day online National Conference on “Implementing Strategies to achieve Food Security and Food Sustainable Partnership: Progress and Challenges” conducted on 29.07.2021 and 30.07.2021 organized by College of Food and Dairy Technology, Koduveli, Chennai- 52.
- Participated in the “NDLI User Awareness Session for GKCIET” held on June 13, 2021 organised by the NDLI Club of GKCIET, Malda.
- Participated in 5 Days Online Faculty Development Program on “Harnessing the knowledge of Value Addition Network in Food Technology”, during 8<sup>th</sup> -12<sup>th</sup> June, 2021, organised by Department of Food Technology, Guru Nanak Institute of Technology (GNIT).

**Brief statement of work:-**










- Engaged in Laboratory work as a Technical Assistant, Department of Food Processing Technology.
- Took lab classes (as per schedule of each semester) & take care of labs
- Take care of equipments and also do the necessary maintenance (preventive, Corrective, Predictive)



- Maintain various lab related files, Stock register, Departmental register etc.
- Member of Swaccha Bharat Abhiyan (SBA) committee. (Memo No: GKCIET/127, Dated: 18.08.2017)
- Engaged actively in departmental activity like Departmental Purchase Committee (DPC) (Memo No. GKCIET/351, Dated: 29.11.2017)
- Member of Campus Development Committee (CDC). (Memo No: GKCIET/AR/32/2020, dated: 06.07.2020)
- Member of Central Tender cum Purchase Committee (CTPC). (Memo No: GKCIET/6110, Dated 01.03.2021)
- Member of “Virtual Training of Nirman Sahayaks” organized by GKCIET, Malda on 29-30<sup>th</sup> July, 2021 & 5-6<sup>th</sup> August, 2021. (Memo No.: GKCIET/6399, Dated: 26/07/2021)
- Member of COVID-19 Monitoring Committee (Block –C) for smooth conduction of offline classes on and from 3<sup>rd</sup> Feb, 2022 onwards. (Memo No: GKCIET/7544, Dated: 03.02.2022)
- Member of second International Conference on “Emerging Technologies in Food Processing (ETFP-2022)” organized by Department of Food Processing Technology, GKCIET, Malda on 25<sup>th</sup> -26<sup>th</sup> March, 2022. (Memo No: GKCIET/7652, Dated 23.02.2022)
- Member of “Two weeks training on Food Processing Technology” conducted at Department of Food Processing Technology, GKCIET, Malda from 2<sup>nd</sup> March to 15<sup>th</sup> March, 2022.
- Engaged in field base activity like Tree Plantation.
- Member of Anti-Ragging Squad of Block-C
- Member (Boy’s Common Room cum Gym) of Annual Stock Verification for the financial year 2021-22 (Memo No: GKCIET/6325)
- Engaged in Recruitment Examination Invigilation & Support Duties held on 11/08/2021, 13/08/2021, 14/08/2021& 16/08/2021
- Engaged in 73<sup>rd</sup> Republic Day Celebration, Veterans India Run and FiT India Sports events
- Committee Member on the occasion of Visit of Dr. Subhas Sarkar, Hon’ble Minister of State, MoE, GoI on 12<sup>th</sup> February, 2022
- Engaged in Recruitment (Written) Examination Support Duties held on 28/02/2022.

**Ms. Sultana Parvin**

**Activities**

-  Member of International Conference on Emerging Technologies in Food Processing (ETFP) 2022 Department of Food Processing Technology.
-  Member of organizing annual sports "pratisphardha 2022".
-  Participating on national girl child day.
-  Member of Preliminary Committees for organizing/arranging the Visit of Hon'ble Minister of State, MoE, GoI on 12.02.2022
-  Member on International Women's Day Celebration.
-  Member of stock verification committee.
-  Compiled list of the working principle of all the equipment in the lab.
-  Imparted baking training to BSc 2nd year student of MAKAUT.
-  Prepared the design of all the equipment of the lab.

# DEPARTMENT OF CIVIL ENGINEERING

**ANNUAL REPORT FOR THE YEAR 2021-22**  
**DEPARTMENT OF CIVIL ENGINEERING**

**About the Department:**

Civil Engineering is a versatile branch that deals with the design, construction as well as maintenance of naturally and physically built environments. It is the branch with a lot of diversity from geotechnical sciences to structural engineering, environmental to hydraulics, transportation to hydrology. Civil Engineering Department has been functioning since 2013 as one of the primary Departments of the Ghani Khan Choudhury Institute of Engineering & Technology (GKCIET). Presently the Department of Civil Engineering offers 3-year Diploma program in Civil Engineering. The course is delivered as a combination of lectures, tutorials, practices including industrial visits etc.

**Vision:**

To develop highly qualified Civil Engineering professionals through education, research and innovation so that they can contribute positively towards socio-economic and infrastructure growth of the nation.

**Mission:**

- To consolidate the Diploma program currently being offered by the Department and start UG, PG and Ph.D programs at the earliest
- Provide opportunities and resources for academicians and researchers to carry out the state-of-the-art research and development work
- To provide quality technical education in the broad field of Civil Engineering, with emphasis on professional ethics and social commitment
- To nurture innovative ideas, new techniques and methods through basic and applied research in real life problems in the field of Civil Engineering
- To provide effective consultancy services for delivering the output of the research to the society
- To create dynamic, technologically capable Civil Engineering professionals with leadership skills.

**PEOs:**

1. Attain the expertise to analyse and solve real-life problems in the field of Civil Engineering, formulating solutions that are technically sound, economically viable, environmentally sustainable and socially acceptable.

2. Possess strong educational foundations in science, mathematics and engineering essential in making successful careers in multidisciplinary work environment.
3. Capable of adapting to new technologies with continuous up-gradation of skills and an attitude towards lifelong learning.
4. Develop leadership qualities, effective communicative skills and sensitivity towards ethics and society.
5. Develop skills to crack competitive exams or pursue successful careers in industry/higher education.

**PSOs:**

1. Plan, analyse and design infrastructural projects in various disciplines of Civil Engineering- Structural Engineering, Geotechnical Engineering, Water Resources Engineering, Environmental Engineering and Transportation Engineering.
2. Implement the quality control, workmanship and other provisions stipulated in IS Codes/guidelines and applicable laws including labor laws and environmental laws.

**POs:**

- PO1: Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems
- PO2: Problem Analysis:** Identify, formulate, review of research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3: Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.
- PO4: Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5: Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities, with an understanding of the limitations.
- PO6: The Engineer and Society:** Apply reasoning informed by the contextual knowledge to



assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

- PO7: Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9: Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11: Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12: Life-Long Learning:** Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**Faculty:**

Name	Designation	Qualification
Dr. Kiran Yarrakula	HoD& Associate Professor	B.Tech, M.Tech, PhD
Dr. Koushik Paul	Associate Professor	B.Tech, M.Tech, PhD
Mr. Haradhan Sarkar	Assistant Professor	B.Tech, M.Tech
Dr.Soumi Bhattacharya	Assistant Professor	B.Tech, M.E, PhD
Dr.PoojariYugendar	Assistant Professor	B.E, M.Tech, PhD
Mr. Pinak Ray	Assistant Professor	B.Tech, M.Tech
Mr. Koushik Paul	Senior Technical Assistant	Diploma
Mr. Shahin Reza	Technical Assistant	B.Tech
Mr. ProbirKumar Mandal	Multi-Tasking Staff	HS

**Academic Programs:**

The Department of Civil Engineering currently offers 3 Year Diploma program in Civil Engineering. The Program is affiliated to West Bengal State Council of Technical & Vocational Education & Skill Development (WBSCVET), Kolkata.

PROGRAM	DURATION	SPECIALISATION	ADMISSION THROUGH	INTAKE
Diploma	3 Years	Civil Engineering	JEXPO, GKCIET Entrance Test (GET)	60

**INFRASTRUCTURE:**

The department of Civil Engineering having good laboratory facilities namely Survey Practice Lab, Concrete Technology Lab, Transportation and Highway Engineering Lab, Soil Mechanics Lab, Hydraulics/Fluid Mechanics Lab and Computer Lab with Central AUTOCAD facility. The following are the infrastructural facilities available in these laboratories.

**SURVEYPRACTICE LAB:**

Sl.No.	Name of the equipment
1	Chain
2	Tape
3	Steel Arrows
4	Ranging Rods
5	Optical square
6	Prismatic Compass (150mm dia)
7	Plane table with accessories
8	Wooden Hammer
9	Auto Level with tripod stand
10	levelling staff
11	Theodolites
12	Total station

**CONCRETE TECHNOLOGY LAB:**

Sl.No.	Name of the equipment
1	Vicat Apparatus
2	Analogue Compression Testing Machine
3	G.I Sieve set
4	Brass Sieve set

5	Cylindrical Metal Measures
6	Slump Test Apparatus
7	Rebound Hammer
8	Needle vibrator
9	Aggregate Crushing Value Apparatus
10	Cube Moulds
11	Cylindrical Moulds
12	Electronic Digital Weighing Balance
13	G.I Tray
14	Trowels
15	Hot Air Oven
16	Blaines Air Permeability Apparatus
17	Le Chateliers Flask
18	Vernier Callipers
19	Wire Brush

**HIGHWAY & TRANSPORTATION ENGINEERING LAB:**

<b>Sl.No.</b>	<b>Name of the equipment</b>
1	Aggregate Impact Test Apparatus
2	Density Basket
3	Length Gauge
4	Thickness Gauge
5	Ductility Testing Machine
6	Ring & Ball Apparatus
7	Thermometer
8	Standard Tar Viscometer
9	Flash and Fire point Apparatus (pensky)
10	Hot air oven
11	Crushing Strength test Moulds
12	Penetrometer
13	CBR test apparatus
14	Water Bath
15	Brass Sieves
16	Marshall Stability Apparatus

17	CBR test apparatus
18	Bitumen content test apparatus
19	Electronic Digital balance (100 kg)
20	Electronic Digital balance (30 kg)
21	Electronic Digital balance (200gm)
22	Water Bath
23	Brass sieve set

**SOIL MECHANICS LAB:**

<b>Sl.No.</b>	<b>Name of the equipment</b>
1	Speedy moisture tester
2	Pycnometer
3	IS sieves
4	Motorised sieve Shaker
5	Atterberg limit device with counter
6	Standard Proctor Compaction Mould
7	Modified Proctor Compaction Mould
8	Unconfined compression tester proving ring
9	Moisture container
10	GI Tray
11	Glass plate
12	Vacuum pump
13	Sliding wrench
14	Measuring cylinder
15	Trowels
16	Polythene wash bottles
17	Porcelain evaporating dish
18	Electric oven
19	Plain desiccators
20	Heater electric
21	Electronic digital balance
22	Hand operated extractor
23	Permeability apparatus
24	Spatula

25	Volumetric flask stopper
26	Graduated pipette
27	Vane shear test apparatus
28	Core cutter

**FLUID MECHANICS & HYDRAULICS LAB:**

Sl.No.	Name of the equipment
1	Triangular & Rectangular Notch
2	Venturi meter
3	Orifice meter
4	Pitot tube apparatus
5	Bernoulli test apparatus
6	Pressure measurement apparatus

**STRUCTURES LAB:**

Sl.No.	Name of the equipment
1	Universal Testing Machine
2	Torsion Testing machine
3	Brinell cum Rockwell hardness tester
4	Tile flexure testing machine
5	Tile abrasion testing machine

**STUDENT RESULTS 2021-22:**

- In Diploma 2<sup>nd</sup> year 4<sup>th</sup> semester, all the appeared students have passed.
- In diploma 1<sup>st</sup> year 2<sup>nd</sup> semester, all the appeared students have passed.

**FACULTY RESPONSIBILITIES AT INSTITUTION LEVEL:**

1. **Dr. Koushik Paul** appointed as Dean (Acad., P & D).
2. **Dr. Koushik Paul** appointed as Nodal Officer for PARAKH.
3. **Dr. Koushik Paul** appointed as Member, Building and Works Committee (BWC).
4. **Dr. Koushik Paul** appointed as Member-Secretary, Academic Council.
5. **Dr. Koushik Paul** appointed as Member, Advisory Committee of Gender Budget Cell.
6. **Dr. Koushik Paul** appointed as Member, Selection Committee constituted for recruitment of Assistant Professors/STA/TA of Civil Engineering Department.
7. **Dr. Koushik Paul** appointed as Chairman, Institute-Industry Cell.
8. **Dr. Koushik Paul** appointed as Member, NEP-2020 Implementation Cell.

9. **Dr. Koushik Paul** appointed as Member, NBA/NIRF Committee.
10. **Dr. Koushik Paul** appointed as Chairman, Admission Committee for WBJEE/JoSAA/CSAB/JEXPO/VOCLET admissions during A.Y. 2021-22.
11. **Dr. Koushik Paul** appointed as Chairman of committee constituted for submitting AICTE-approval applications during A.Y. 2021-22 and A.Y. 2022-23.
12. **Dr. Koushik Paul** appointed as Chairman, COVID-19 Monitoring Committee of the Institute.
13. **Dr. Koushik Paul** appointed as Chairman, Institute Website Committee.
14. **Dr. Koushik Paul** appointed as Chairman, I-STEM portal for the Institute.
15. **Dr. Koushik Paul** appointed as Member, Plagiarism software committee.
16. **Dr. Koushik Paul** appointed as President and Founder of National Digital Library of India (NDLI Club).
17. **Dr. Koushik Paul** appointed as Centre-in-Charge/OIC of all Diploma/Degree examinations of the Institute.
18. **Dr. Koushik Paul** appointed as Member of Committees constituted for handing over-taking over of quarters/hostels/library buildings from NBCC India Limited.
19. **Dr. Kiran Yarrakula** appointed as Institute Engineer from November 2019 to till date.
20. **Dr. Kiran Yarrakula** appointed as Chairman for GET Admissions.
21. **Dr. Kiran Yarrakula** Appointed as Chairman in the Recruitment process for the post of Assistant Engineer.
22. **Dr. Kiran Yarrakula** Appointed as Chairman in the Lift / Elevators Rectification & commissioning works & handing taking over process. For blocks A & B.
23. **Dr. Kiran Yarrakula** Appointed as Chairman in the Local purchase committee for procurement of LED lamps & Repairing of ceiling fans for block - A & C.
24. **Dr. Kiran Yarrakula** Appointed as member in the Local purchase committee for preparation of sports ground for the student's physical activities purpose.
25. **Dr. Kiran Yarrakula** Appointed as Chairman in the Local purchase committee for purchasing one 2 HP submersible pump set at Admin block.
26. **Dr. Kiran Yarrakula** Appointed as Chairman in the Local purchase committee for purchasing 2 no's executive chairs & 08 no's visitor's chair.
27. **Dr. Kiran Yarrakula** Appointed as Chairman in the Local purchase committee for processing the necessary procurement of window blinds & fixing in hall rooms at admin block.



28. **Dr. Kiran Yarrakula**Appointed as Chairman in theLocal purchase committee for Construction of partition wall by MDF bord in hall room at admin block.
29. **Dr. Kiran Yarrakula**Appointed as member in theScreening committee for the post of Sorter, Security Officer, Assistant Engineer.
30. **Dr. Kiran Yarrakula**Appointed as Chairman in theLocal purchase committee for necessary arrangement for maintenance of 11 KV/415V electrical substation & 2 no's of DG Set.
31. **Dr. Kiran Yarrakula**Appointed as member in theFor guiding the implementation of National Education Policy in higher education.
32. **Dr. Kiran Yarrakula**Appointed as Chairman in theLocal purchase committee for necessary arrangement for fixing of window curtain, door closure & door mat for computer science department.
33. **Dr. Kiran Yarrakula**Appointed as member in theSpace allotment committee at institute & Type 4 Quarter.
34. **Dr. Kiran Yarrakula**Appointed as member in the for procurement of furniture at hostel.
35. **Dr. Kiran Yarrakula** appointed as Member, Selection Committee constituted for recruitment of Assistant Professors in Civil Engineering and English Departments.
36. **Dr. Soumi Bhattacharyya** appointed as GKCIET Entrance Test (GET) - 2021 committee member.
37. **Dr. Soumi Bhattacharyya** appointed as B.Tech Admission and Registration committee member.
38. **Dr. Soumi Bhattacharyya** appointed as COVID-19 Monitoring Committee Joint Chairmen for Canteen and Joint Convener for Academic Block C.
39. **Dr. Soumi Bhattacharyya** appointed as CAS committee member.
40. **Dr. Soumi Bhattacharyya** appointed as CTO, NCC, GKCIET Malda.
41. **Dr. Soumi Bhattacharyya** appointed as Member Secretary of Women Empowerment Committee.
42. **Dr. Soumi Bhattacharyya** appointed as Presiding Officer of Internal Complaint Committee.
43. **Dr. Soumi Bhattacharyya** appointed as Member of IIE Cell.
44. **Dr. Soumi Bhattacharyya** appointed as Member of Gender Budget Committee.
45. **Dr. Soumi Bhattacharyya** appointed as Convener of Drama and Dance Club.
46. **Dr. Soumi Bhattacharyya** appointed as Member of Website Committee.

47. **Dr. Soumi Bhattacharyya** appointed as Principal Faculty Coordinator of SPIC MACAY Heritage Club, GKCIET Malda.
48. **Dr. PoojariYugendar** appointed as member, COVID-19 Monitoring Committee of the Institute.
49. **Dr. PoojariYugendar** appointed as Member of Committees constituted for handing over-taking over of quarters/hostels/library buildings from NBCC India Limited.
50. **Dr. PoojariYugendar** appointed as Member of Local Purchase Committee constituted for construction of partition wall by MDF board at Hall Room of Administrative Building.
51. **Mr. Pinak Ray** appointed as member, COVID-19 Monitoring Committee of the Institute.
52. **Mr. Haradhan Sarkar** appointed as Member-Institute Time Table Committee
53. **Mr. Haradhan Sarkar** appointed as Departmental Coordinator- AICTE 360 degree feedback.
54. **Mr. Haradhan Sarkar** appointed as Departmental Training and Placement coordinator.
55. **Mr. Haradhan Sarkar** appointed Member of Library advisory committee.
56. **Mr. Haradhan Sarkar** appointed Member of Hand-over/ Take over Committee of Institute Hostel and Quarters of type IV & Type IV Special and Library
57. **Mr. Pinak Ray** has been appointed as member of Training and Placement Cell, GKCIET.
58. **Mr. Pinak Ray** has been appointed as member of Skill Development/ Non-Formal Section, GKCIET.

#### **FACULTY RESPONSIBILITIES AT DEPARTMENT LEVEL:**

1. **Dr. Koushik Paul** appointed as Laboratory In-Charge for Survey & Computer Lab.
2. **Dr. Kiran Yarrakula**Appointed as Laboratory In-Charge for Hydraulics/Fluid Mechanics.
3. **Dr. Soumi Bhattacharyya** appointed as Laboratory In-Charge for Concrete and Structures Lab.
4. **Mr. Haradhan Sarkar** appointed as Laboratory In-Charge for Highway & Transportation Engineering Lab.
5. **Dr. Kiran Yarrakula** appointed as Laboratory In-Charge for Soil Mechanics Lab.
6. **Mr. Pinak Ray** appointed as Laboratory In-Charge for Soil Mechanics Lab.

#### **RESEARCH:**

Department of Civil Engineering encourages and actively promotes research and consultancy works among faculty members, staff and students. Some of the current areas of research includes: Pavement Design, Pavement Materials, Ground Improvement Techniques,

Structural Engineering, Seismic Vibration Control, Active and Passive Vibration Control, Liquid Dampers, Vibration Energy Harvesting, Water Resources Engineering, Geo-Spatial Technology, Disaster Management, Solid Waste Management, Water Supply and Treatment, Waste water treatment and Sewerage Systems, Air Pollution. Notable research contribution from Civil Engineering Department of GKCIET, Malda during A.Y. 2021-22 includes the following publications.

1. Sreechanth. S, Suresh.D, **Kiran Yarrakula**, Modelling, Mapping and Analysis of Urban Floods in India– A review on Geospatial Methodologies. Environmental Science and Pollution Research, 2021, 28(48), pp. 67940–67956, (SCI), **ImpactFactor- 4.223**.
2. Vaishnavi B, Karthikeyan, **Kiran Yarrakula**, An Analytical Hierarchical Process based Weighted Assessment of factors contributing Precipitation, International Journal of Intelligent Enterprise, 2021, 8(2-3), pp. 267–277. **Impact Factor 0.13. (SCI)**.
3. Suresh.D and **Kiran Yarrakula**, Assessment of topographical and atmospheric errors in Sentinel 1 derived DInSAR, Geocarto International, **Impact Factor- 4.889**.
4. Suresh.D and **Kiran Yarrakula**, Advanced differential SAR Interferometry approach for Landslide identification in Mountainous areas of Western Ghats, India, Journal of Earth System and Science. (SCI), **Impact Factor-1.830**.
5. Surampudi, S, Vijay Kumar, **Yarrakula, K**. "Flood index Estimation Using L-band SAR data for Assam Flood prone regions" IGARSS 2021 - 2021 IEEE International Geoscience and Remote Sensing Symposium, 2021, pp. 8301-8304. (SCOPUS).
6. **Sarkar, H.**, Biswas, A. (2022). Behaviour of Multi-layered Geocell-Reinforced Soil Embankment. In Proceedings of the 7<sup>th</sup> Indian Young Geotechnical Engineers Conference. Lecture Notes in Civil Engineering, vol 195. **Springer**, Singapore.
7. **PoojariYugendar** and K.V.R. Ravishankar, “Multi-regime modelling for large congregation”, Institution of Civil Engineers (ICE: Transport), 174(6), 394-403, October, 2021. (SCI).
8. **Poojari, Yugendar**, Prashanth, E., Divya, D. and Kalyani, M, “Modeling Pedestrian Crossing Behavior at a Midblock Section”, Slovak Journal of Civil Engineering, 08 October 2021. (Web of Science).
9. Anusha K., **Yugendar P.**, Santhakumar S.M. (2022) Macroscopic Analysis of Traffic Flow Behaviour on Multilane Highways under Heterogeneous Traffic Conditions. In: Laishram B., Tawalare A. (eds) Recent Advancements in Civil Engineering. Lecture Notes in Civil Engineering, vol 172. Springer, Singapore. (SCOPUS)

10. D. Harinder, **P. Yugendar**, S. Shankar, Experimental assessment of coir geotextile to improve the strength of weak subgrade at different load conditions, Materials Today: Proceedings, 2022. (**SCOPUS**).
11. **Pinak Ray** and RamenduBikasSahu (2021); “A parametric study on cyclic strength of coastal sand of Digha in West Bengal, India”, International Journal of Geo-Engineering (Springer), Volume 12, issue 1, December, 2021, ISSN: 2198-2783, DOI: <https://doi.org/10.1186/s40703-020-00134-z>, Article number: 5 (2021), Published: 12 February, 2021 (**Indexed in SCOPUS and Emerging Sources Citation Index**).
12. **Pinak Ray** and RamenduBikasSahu (2021); “Liquefaction potential along with pore water pressure generation of coastal sand of Digha in West Bengal, India”, Acta Geodynamica et Geomaterialia, Volume 18, No. 2 (202), 2021, ISSN: 2336-4351 (Online) and ISSN: 1214-9705 (Print), DOI: 10.13168/AGG.2021.0012, (2021), Page: 165 – 184, Published: 6 April, 2021 (Indexed in Science Citation Index Expanded – **Impact Factor, 2020: 1.176 and SCOPUS**).

#### **DEPARTMENT CONSULTANCY WORKS:**

1. Testing of Optimum Moisture Content identification for NBCC (India) Limited during July-August 2021.
2. Site visit for the vertical construction of 2<sup>nd</sup> Floor of P.G. Block and repair and renovation of the Auditorium Complex of Malda College.
3. Site visit for the Renovation and upgradation of Life Science Building (old), Malda College.
4. Testing of concrete cubes for NBCC (India) Limited during July-August 2021.
5. Continuous consultation, supervision and visits are being done to ensure the development of all the newly built Civil Engineering structures in GKCIET Malda Campus, Narayanpur.

#### **INVITED LECTURES:**

1. **Dr. Kiran Yarrakula** delivered a Key Note Speaker Lecture on “International Virtual Conference on Computational Engineering” on March 18-19th 2022 at PSN College of Engineering and Technology, Tirunelveli, Tamil Nadu, India.
2. **Dr. Kiran Yarrakula** delivered invited lecture on “Earthen Dam-Embankment Dam” in the training programme of NirmanSahayaks on Different Engineering Issues Specially for Innovative Schemes, 2021 organized at GKCIET, Malda& funded by ISGPP-II, Panchayat & Rural Development Department, Govt. of West Bengal held during 29.07.2021 to 30.07.2021.

3. **Dr. Kiran Yarrakula** delivered invited lecture on “Earthen Dam-Embankment Dam” in the training programme of NirmanSahayaks on Different Engineering Issues Specially for Innovative Schemes, 2021 organized at GKCIET, Malda& funded by ISGPP-II, Panchayat & Rural Development Department, Govt. of West Bengal held during 05.08.21 to 06.08.2021
4. **Dr. Kiran Yarrakula** delivered invited lecture on "Introduction to Hydrological Modelling using Remote Sensing & GIS", on 25.09.2021 in virtual mode organized by Department of Civil Engineering, Saveetha Engineering College, Thandalam, Chennai.
5. **Dr. Soumi Bhattacharyya** delivered a lecture on “Indian Classical Music and Dance” in student induction programme (SIP) 2022 for B.Tech freshers.
6. **Mr. Haradhan Sarkar** delivered a lecture on “Introduction to Geometric Design of Highways” at PCMT/Pailan group of Institutions on 15-06-2021.
7. **Mr. Haradhan Sarkar** delivered a lecture on “Road Repairing & Drainage System” in the training programme of NirmanSahayaks on Different Engineering Issues Specially for Innovative Schemes, 2021.
8. **Mr. Haradhan Sarkar** delivered a lecture on “Introduction to Civil Engineers” in student induction programme (SIP) 2022 for B.Tech freshers.

#### **WORKSHOPS/SEMINARS/CONFERENCES/WEBINARS/INDUSTRIAL VISITS**

##### **ORGANISED:**

1. **Dr. Koushik Paul** acted as a Coordinator, ‘virtual training programme for NirmanSahayaks on different engineering issues’ held online at GKCIET Malda under the sponsorship of ISGPP-II, Panchayat and Rural Development Department, Govt. of West Bengal on 29th-30th July 2021 and 5th-6th August 2021.
2. **Dr. Kiran Yarrakula** acted as a Coordinator, ‘virtual training programme for NirmanSahayaks on different engineering issues’ held online at GKCIET Malda under the sponsorship of ISGPP-II, Panchayat and Rural Development Department, Govt. of West Bengal on 29th-30th July 2021 and 5th-6th August 2021.
3. **Dr. Soumi Bhattacharyya** acted as a Coordinator, ‘virtual training programme for NirmanSahayaks on different engineering issues’ held online at GKCIET Malda under the sponsorship of ISGPP-II, Panchayat and Rural Development Department, Govt. of West Bengal on 29th-30th July 2021 and 5th-6th August 2021.
4. **Dr. Soumi Bhattacharyya** organised fresher’s welcome webinar on “Swagatam 2021” for 2020-21 admitted batch.

5. **Dr. Soumi Bhattacharyya** as a co-ordinator for “Art and Design” and “Kala Shresthi Award for Arts” proposed by AICTE and organised by “Women Empowerment Committee” of GKCIET Malda.
6. **Dr. Soumi Bhattacharyya** organised a webinar on “Importance of Teesta Barrage Project & its Allied Structures” on 12.07.2021.
7. **Dr. Soumi Bhattacharyya** organized “Veterans India Patriotic Run - rashtra bhakti ko khel se shakti” on 26.01.2022 in GKCIET Malda proposed by AICTE.
8. **Dr. Soumi Bhattacharyya** has one of the organizer for the event ‘Inauguration of Vivekananda Hall, GKCIET Malda’ by Honourable Minister of State, MoE, GoI on 12.02.2022.
9. **Dr. Soumi Bhattacharyya** organised a program on “International Women’s Day” on 08.03.2022 in GKCIET, Malda.
10. **Mr. Haradhan Sarkar** as a coordinator for training program on “NirmanSahayaks on Different Engineering Issues Specially for Innovative Schemes” funded by ISGPP-II & Rural Development Department, Govt. of West Bengal from 29-07-2021 to 30-07-2021 and 05-08-2021 to 06-08-2021.
11. **Dr. PoojariYugendar** received Certificate of Appreciation as a **coordinator** of International conference on Sustainable Approach for Resilient Infrastructure (IC-SAFRI 2021) organized by CBIT, Hyderabad in association with CICT, University of Malaya, Malaysia during 26-27 June 2021.

**WORKSHOPS/SEMINARS/CONFERENCES/COURSES/WEBINARS/INDUSTRIAL VISITS ATTENDED:**

1. **Dr. Koushik Paul** successfully completed "AICTE sponsored Online Orientation Training Programme for Mentors" certificate course from 14.06.2021 to 18.06.2021.
2. **Dr. Soumi Bhattacharyya** successfully completed “Module 1: Orientation Towards Technical Education & Curriculum Aspects” online course authorized by NITTT and offered through NPTEL.
3. **Dr. Soumi Bhattacharyya** successfully completed “Module 3: Communication Skills, Modes and Knowledge Dissemination” online course authorized by NITTT and offered through NPTEL.
4. **Dr. Soumi Bhattacharyya** successfully completed “Module 5: Technology Enabled Learning and life-long Self Learning” online course authorized by NITTT and offered through NPTEL.



5. **Dr. Soumi Bhattacharyya** successfully completed “Module 7: Creative Problem Solving, Innovation and Meaningful R&D” online course authorized by NITTT and offered through NPTEL.
6. **Mr. Haradhan Sarkar** successfully completed the 5-day online FDP on “Part 1 of the online UHV Refresher 1” organized by the All India Council for Technical Education (AICTE) from 23-27 August 2021.
7. **Mr. Haradhan Sarkar** successfully completed One Week online Short Term Course on “Role of Technical Institutions in Community Development” organized by NITTTR, Kolkata from 20-24 September 2021.
8. **Mr. Haradhan Sarkar** successfully completed One Week online Short Term Course on “Renewable Energy Sources and Emerging Technologies” organized by NITTTR, Kolkata from 06-10 September 2021.
9. **Mr. Haradhan Sarkar** successfully completed all 8 module online courses authorized by NITTT and offered through NPTEL.
10. **Mr. Pinak Ray** attended the 5-day online FDP-SI UHV on “Incorporating Universal Human Values in Education ” organized by the All India Council for Technical Education (AICTE) from 28-03-2021 to 01-03-2022.
11. **Dr. Poojari Yugendar** successfully completed the course Urban Transportation Systems Planning 3 credits course authorized by IIT Kharagpur and offered through NPTEL on Jan-April 2021.
12. **Dr. Poojari Yugendar** successfully completed one week online FDP on Latest Innovations in Transportation Engineering and Infrastructure Developments organized by SECT, Kalasalingam Academy of Research and Education from 21<sup>st</sup> June to 26<sup>th</sup> June 2021.
13. **Dr. Poojari Yugendar** successfully completed 5 day online FDP on Inculcating Universal Human Values in Technical Education organized by AICTE from 2 August to 6 August 2021.
14. **Dr. Poojari Yugendar** attended a webinar on Empowering Girl Child in Education, Health & Hygiene, Marriage, Empowerment, Gender Equality organized by GKCIET, Malda held on 24<sup>th</sup> January 2022.
15. **Dr. Poojari Yugendar** attended international Seminar on Environmental Impact Assessment (EIA-2022) organized by JIET, Jodhpur on 12 February 2022.
16. **Dr. Poojari Yugendar** successfully completed 5 day online FDP on Part 1 of the UHV Refresher 1 organized by AICTE from 21<sup>st</sup> to 25<sup>th</sup> February 2022.

17. **Dr. Poojari Yugendar** attended training program on Prevention, Prohibition and Redressal of Sexual Harassment of Women at Workplace organized by GKCIET Malda on 2<sup>nd</sup> April 2022.
18. **Dr. Poojari Yugendar** participated and presented a paper on “Experimental assessment of coir geotextile to improve the strength of weak sub grade at different load conditions”, in IC-SAFRI 2021, CBIT (A), 26-27 June 2021.
19. **Dr. Poojari Yugendar** successfully completed “Module 4: Instructional Planning and Delivery” online course authorized by NITTT and offered through NPTEL.
20. **Dr. Poojari Yugendar** successfully completed “Module 6: Student Assessment and Evaluation” online course authorized by NITTT and offered through NPTEL.
21. **Mr. Pinak Ray** successfully completed the Five day Faculty Development Program on MATLAB for Engineering and Scientific Computations organized by Rajasthan Technical University, Kota and B K Birla Institute of Engineering and Technology, Pilani from 22-02-2021 to 26-02-2021.
22. **Mr. Pinak Ray** successfully completed the Five day Faculty Development Program on IPR & Patent Technology in Research and Innovation organized by Techno India University, West Bengal from 17-05-2021 to 21-05-2021.
23. **Mr. Pinak Ray** participated in a technical webinar on Geotechnical Engineering Mitigation Techniques: Challenges and Opportunities organized by The Institute of Engineers (India) under the aegis of Civil Engineering Division on 30.04.2021.
24. **Mr. Pinak Ray** participated in a technical webinar on Earthquake Risk Mitigation for Buildings in Hilly Regions organized by Uttarakhand State Center of The Institute of Engineers (India) under the aegis of Civil Engineering Division on 31.08.2021.
25. **Mr. Pinak Ray** participated in a technical webinar on Evolution of Reinforced Concrete Design Philosophy from IS 456 - 2000 to IRC 112-2143 organized by the Department of Civil Engineering of NITTTR, Kolkata on 28.08.2021.
26. **Mr. Pinak Ray** attended training program on Prevention, Prohibition and Redressal of Sexual Harassment of Women at Workplace organized by GKCIET Malda on 2nd April, 2022.

#### **REVIEWER:**

- 1) **Dr. Kiran Yarrakula** worked as Reviewer to the Journal entitled “Geocarto International”.
- 2) **Dr. Kiran Yarrakula** worked as Reviewer to the Journal entitled “Journal of

Hydrology”.

- 3) **Dr. Kiran Yarrakula** worked as Reviewer for International Journal of Applied Earth Observations and Geoinformation.
- 4) **Dr. Koushik Paul** acted as a Reviewer in Biomed Research International (Hindawi) I.F. 3.411 (Date of review: 19th Jan 2022).
- 5) **Dr. Soumi Bhattacharyya** acted as a reviewer for Sadhana Journal, Indian Academy of Sciences, Springer Nature.
- 6) **Dr. Soumi Bhattacharyya** acted as a reviewer for “Modeling, Estimation and Control Conference (MECC)”, held on 24-27 October, 2021.
- 7) **Dr. Soumi Bhattacharyya** acted as a reviewer for “Advances in Control & Optimization of Dynamical Systems (ACODS), organised by NIT Silchar and IIT Guwahati in 2022.
- 8) **Dr. Poojari Yugendar** reviewed a paper titled “An Innovative Investigation on Mechanical, Durability and Time Dependent Properties of Standard Grade Recycle Aggregate Concrete with Pozzolanic Material”, Indian Journal of Engineering and Materials Sciences (IJEMS), 11 May 2021.
- 9) **Dr. Poojari Yugendar** received Certificate of Reviewing for reviewing research papers for the virtual seminar on applied mechanics (VSAM-2021) organized by Indian Society for Applied Mechanics (ISAM) from May 28-29, 2021.
- 10) **Dr. Poojari Yugendar** received Certificate of Reviewing for reviewing research papers for the virtual seminar on applied mechanics (VSAM-2021) organized by Indian Society for Applied Mechanics (ISAM) from July 30-31, 2021.
- 11) **Dr. Poojari Yugendar** reviewed a paper titled “A Comparison between a Crash and Casualty Economic Analysis Approaches of Road Safety Infrastructure Countermeasures”, Proceedings of the Institution of Civil Engineers-Transport, 7 September 2021.

#### **MEMBERSHIP:**

- 1) **Dr. Koushik Paul** was elected as a lifelong member 'Fellow' of Institution of Engineers India (IEI), [FIE Membership No: F-1286427] on 03.01.2022.
- 2) **Dr. Kiran Yarrakula** is having Life Membership in The Indian Society for Technical Education (ISTE) Life Member. LM- 48971.
- 3) **Dr. Soumi Bhattacharyya** has membership of American Society of Civil Engineers (ASCE).
- 4) **Dr. Poojari Yugendar** has a lifelong member of Institution of Engineers India (IEI).

- 5) **Mr. Pinak Ray** has a lifelong membership of Institution of Engineers India (IEI) - AM 147648-6.
- 6) **Mr. Pinak Ray** is having Life Membership in The Indian Society for Technical Education (ISTE) - Membership No: LM- 106060.
- 7) **Mr. Pinak Ray** is having Life Membership in Indian Society For Rock Mechanics and Tunneling Technology - Membership No: LM-2031.
- 8) **Mr. Pinak Ray** is having Life Membership of Indian Geotechnical Society (Kolkata Chapter).

#### **P.hD GUIDANCE:**

- 1) **Dr Kiran Yarrakula** and S Karthikeyan guided a PhD scholar Ms. Vaishnavi B Reg. No: 14PHD0016 from VIT University, Vellore, Tamil Nadu entitled “Prediction of Stream Flow on Godavari Basin Using Iterative Random Forest Technique”. She defended her thesis on **21<sup>st</sup> September 2021**.

#### **SPONSORED PROJECT:**

- 1) **Dr Kiran Yarrakula** completed a non-funded project on “Detection of floods from ALOS2 Synthetic Aperture Radar data”, Japan Aerospace Exploration Agency (JAXA) from Sept 2020 to 31<sup>st</sup> March 2022.

#### **OTHERS:**

- 1) **Dr. Soumi Bhattacharyya** visited Raiganj Polytechnic as an external examiner.
- 2) **Mr. Pinak Ray** visited Raiganj Polytechnic as an external examiner.

#### **STUDENT ACHIEVEMENTS:**

- An on-campus recruitment drive was done for Diploma students by Training & placement cell and three students were recruited in different companies.
  - **Ranjit Giri** has been recruited as Autocad Designer
  - **Suman Mahato** has been recruited by Grifeo company
  - **Bivash Mandal** has been recruited by Grifeo company
  - **Puranjit Berah** has been recruited as Autocad Designer

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING


## COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

### 1. COURSE BEING OFFERED

At present, the department is offering 3-years Diploma in Computer Science and Technology (CST). The Diploma programme is affiliated by West Bengal State Council of Technical & Vocational Education & Skill Development (WBSCT&VE&SD) and also approved by AICTE.

Course name	Intake	Admission
Computer Science and Technology (CST)	54	<ul style="list-style-type: none"> <li>Admission to 50 % seats of all diploma courses shall be made through JEXPO counselling conducted by WBSCT &amp; VE &amp; SD for the students from West Bengal. Accordingly, eligibility criteria is as per the JEXPO, Govt. of West Bengal. <a href="https://webscte.co.in">https://webscte.co.in</a></li> <li>Admission to remaining 50 % seats of all diploma courses shall be made through All India GKIET Entrance Test (GET) 2020 Conducted by Ghani Khan Choudhury Institute of Engineering and Technology Malda (GKIET) for student from other states and UT (excluding West Bengal). <a href="http://www.gkiet.ac.in">www.gkiet.ac.in</a></li> <li>Lateral admission into 2nd Year of Diploma Program through VOCLET, Govt. of West Bengal</li> </ul>

### 2. FACULTY DETAILS

	<b>Name:</b> Dr. Showmik Bhowmik
	<b>Designation:</b> Assistant Professor
	<b>Department:</b> Computer Science & Engineering
	<b>Email:</b> <a href="mailto:showmik@gkiet.ac.in">showmik@gkiet.ac.in</a>
<b>Education</b>	Showmik Bhowmik has received B.Tech degree in computer science and engineering from the West Bengal University of Technology, India, in 2008, and the M.E degree from Jadavpur University, India, in 2014. He has obtained his Ph.D. in engineering from Jadavpur University.
<b>Total experience</b>	<b>Teaching:</b> 9 years <b>Full-time research:</b> 3 years



<p><b>Awards (04)</b></p>	<ul style="list-style-type: none"> <li>• Selected as a <b>fellow under Visvesvaraya PhD Scheme</b> by Electronics &amp; IT under Ministry of Electronics and Information Technology, Government of India.</li> <li>• <b>Winning team award</b> in “ICDAR 2019 Competition on Recognition of Early Indian Printed Documents- REID 2019”, 15th International Conference on Document Analysis and Recognition (ICDAR). International Convention Centre, Sydney, Australia.</li> <li>• <b>Winning team award</b> in “ICDAR 2019 Competition on Document Image Binarization- DIBCO 2019”, 15th International Conference on Document Analysis and Recognition (ICDAR). International Convention Centre, Sydney, Australia.</li> <li>• Listed as the “<b>Best Scientist in the University</b>” in Ghani Khan Choudhury Institute of Engineering and Technology by AD Scintific Index 2022.</li> </ul>
<p><b>Journals (17)</b></p>	<ul style="list-style-type: none"> <li>• Ghosh, S., Hassan, S. K., Khan, A. H., Manna, A., Bhowmik, S., &amp; Sarkar, R. (2022). Application of texture-based features for text non-text classification in printed document images with novel feature selection algorithm. <i>Soft Computing</i>, 26(2), 891-909. [<b>Impact Factor 3.643</b>]</li> <li>• Mondal, R., <b>Bhowmik, S.</b>, &amp; Sarkar, R. (2020). tsegGAN: A Generative Adversarial Network for Segmenting Touching Non text Components From Text Ones in Handwriting. <i>IEEE Transactions on Instrumentation and Measurement</i>, 70, 1-10. [<b>Impact Factor 3.658</b>]</li> <li>• Basu, A., Mondal, R., <b>Bhowmik, S.</b>, &amp; Sarkar, R. (2020). U-Net versus Pix2Pix: a comparative study on degraded document image binarization. <i>Journal of Electronic Imaging</i>, 29(6), 063019. [<b>Impact Factor 0.8</b>]</li> <li>• <b>Bhowmik, S.</b>, Kundu, S., &amp; Sarkar, R. (2021). BINYAS: a complex document layout analysis system. <i>Multimedia Tools and Applications</i>, 80(6), 8471-8504.[<b>Impact Factor 2.313</b>]</li> <li>• Ghosh, M., Ghosh, K. K., <b>Bhowmik, S.</b>, &amp; Sarkar, R. (2021). Coalition game based feature selection for text non-text separation in handwritten documents using LBP based features. <i>Multimedia Tools and Applications</i>, 80(2), 3229-3249.[<b>Impact Factor 2.313</b>]</li> <li>• Bera, S. K., Ghosh, S., <b>Bhowmik, S.</b>, Sarkar, R., &amp;</li> </ul>

	<p>Nasipuri, M. (2021). A non-parametric binarization method based on ensemble of clustering algorithms. <i>Multimedia Tools and Applications</i>, 80(5), 7653-7673.[<b>Impact Factor 2.313</b>]</p> <ul style="list-style-type: none"> <li>• Bhattacharya, R., Malakar, S., Ghosh, S., <b>Bhowmik, S.</b>, &amp; Sarkar, R. (2021). Understanding contents of filled-in Bangla form images. <i>Multimedia Tools and Applications</i>, 80(3), 3529-3570.[<b>Impact Factor 2.313</b>]</li> <li>• Malakar, S., Ghosh, M., Chatterjee, A., <b>Bhowmik, S.</b>, &amp; Sarkar, R. (2020). Offline music symbol recognition using Daisy feature and quantum Grey wolf optimization based feature selection. <i>Multimedia Tools and Applications</i>, 79(43), 32011-32036.[<b>Impact Factor 2.313</b>]</li> <li>• Ghosh, S., Chatterjee, A., Singh, P. K., <b>Bhowmik, S.</b>, &amp; Sarkar, R. (2020). Language-invariant novel feature descriptors for handwritten numeral recognition. <i>The Visual Computer</i>, 1-23. <b>Impact Factor 1.456</b>]</li> <li>• S. Malakar<sup>1</sup>, S. Paul, S. Kundu, <b>S. Bhowmik</b>, R. Sarkar, M. Nasipuri, “Handwritten Word Recognition using Lottery Ticket Hypothesis based pruned CNN model: A new benchmark on CMATERdb2.1.2”, <i>Neural Computing and Applications</i>, Springer. [<b>Impact Factor 4.664</b>].</li> <li>• <b>S. Bhowmik</b>, R. Sarkar, B. Das, D. Doermann, “GiB: A Game Theory Inspired Binarization Technique for Degraded Document Images”. <i>IEEE Transactions on Image Processing</i>, 28(3), 1443-1455, 2019. [<b>Impact Factor 6.79</b>]</li> <li>• S. Malakar, M. Ghosh, <b>S. Bhowmik</b>, R. Sarkar, M. Nasipuri, “A GA based Hierarchical Feature Selection Approach for Handwritten Word Recognition”, <i>Neural Computing and Applications</i>, Springer, 2019. (DOI: <a href="https://doi.org/10.1007/s00521-018-3937-8">https://doi.org/10.1007/s00521-018-3937-8</a> ) [<b>Impact Factor 4.664</b>]</li> <li>• <b>S. Bhowmik</b>, R. Sarkar, M. Nasipuri, D. Doermann, “Text and Non-text Separation in Offline Document Images: a Survey”, <i>International Journal on Document Analysis and Recognition (IJDAR)</i>, Springer, 21(1-2), 1-20, 2018.[<b>Impact Factor 0.846</b>]</li> <li>• <b>S. Bhowmik</b>, S. Malakar, R. Sarkar, S. Basu, M. Kundu, M. Nasipuri, “Off-line Bangla Handwritten Word Recognition: a Holistic Approach”, <i>Neural Computing and Applications</i>, Springer, 2018. (DOI: <a href="https://doi.org/10.1007/s00521-018-3389-1">https://doi.org/10.1007/s00521-018-3389-1</a>) [<b>Impact Factor 4.664</b>]</li> </ul>
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	<ul style="list-style-type: none"> <li>• S. Sahoo, S. K. Nandi, S. Barua, P. Priyam, S. <b>Bhowmik</b>, S. Malakar, R. Sarkar, “Handwritten Bangla Word Recognition using Negative Refraction based Shape Transformation”, Special Issue on Ambient Advancements in Intelligent Computational Sciences for Journal of Intelligent &amp; Fuzzy Systems- Applications in Engineering and Technology, IOS Press, 35(2), pp. 1765-1777, 2018. [<b>Impact Factor 1.426</b>]</li> <li>• S. Ghosh,., D. Lahiri, S. <b>Bhowmik</b>, E. Kavallieratou R. Sarkar, “Text/Non-Text Separation from Handwritten Document Images Using LBP Based Features: An Empirical Study”, Journal of Imaging, 4(4), 57, (2018).</li> <li>• S. <b>Bhowmik</b>, S. Polley, M. G. Roushan, S. Malakar, R. Sarkar, M. Nasipuri, “A Holistic Word Recognition Technique for Handwritten Bangla Words”, Int. J. Applied Pattern Recognition, 2(2), pp.142–159, (2015)</li> </ul>
<b>Book Chapter (01)</b>	<ul style="list-style-type: none"> <li>• Ghosh M., Malakar S., <b>Bhowmik S.</b>, Sarkar R., Nasipuri M. (2019) Feature Selection for Handwritten Word Recognition Using Memetic Algorithm. In: Mandal J., Dutta P., Mukhopadhyay S. (eds) Advances in Intelligent Computing. Studies in Computational Intelligence, vol 687. pp. 103-124, Springer, Singapore.</li> </ul>
<b>Conference papers (15)</b>	<ul style="list-style-type: none"> <li>• R. Guha, K. K. Ghosh, S. <b>Bhowmik</b>, R. Sarkar, “Mutually Informed Correlation Coefficient (MICC)– a new Filter based Feature Selection method”, CALCON 2020, IEEE.</li> <li>• K. Mukhopadhyay, R. Bose, A. Mondal, S. K. Bera, S. <b>Bhowmik</b> and R. Sarkar,” Removal of Salt and Pepper noise: a Game Theoretic Approach”, CALCON 2020, IEEE.</li> <li>• Ghosh, S., Ghosh, K.K., Chakraborty, S., <b>Bhowmik, S.</b>, Sarkar, R. (2019) A Filter Ensemble Feature Selection Method for Handwritten Numeral Recognition, International Conference on Emerging Technologies for Sustainable Development (ICETSD '19), pp. 394-398</li> <li>• Ghosh, S., Bhattacharya, R., Majhi, S., <b>Bhowmik, S.</b>, Malakar, S., Sarkar, R., (2018) Textual content retrieval from Filled-in Form Images, 4th Workshop on Document Analysis and Recognition (DAR), 18 December 2018, IIIT Hyderabad, India.</li> <li>• Sah, A. K., <b>Bhowmik, S.</b>, Malakar, S., Sarkar, R., Kavallieratou, E., &amp; Vasilopoulos, N. (2017). Text and non-text recognition using modified HOG descriptor. In Calcutta Conference (CALCON), (pp. 64-68). IEEE.</li> <li>• Ghosh, M., Malakar, S., <b>Bhowmik, S.</b>, Sarkar, R., Nasipuri, M., (2017) Memetic Algorithm based Feature Selection for handwritten City Name Recognition, In: Mandal J., Dutta P.,</li> </ul>


	<p>Mukhopadhyay S. (eds) Computational Intelligence, Communications, and Business Analytics. CICBA 2017. Communications in Computer and Information Science, vol. 776, pp.599-613, Springer, Singapore</p> <ul style="list-style-type: none"> <li>• <b>Bhowmik, S.</b>, Kundu, S., De, B.K., Sarkar, R., Nasipuri, M., (2019) A two-stage approach for Text and Non-text Separation from Handwritten Scientific Document Images”, In: Chandra P., Giri D., Li F., Kar S., Jana D. (eds) Information Technology and Applied Mathematics. Advances in Intelligent Systems and Computing, vol 699. pp. 41-51, Springer, Singapore.</li> <li>• <b>Bhowmik, S.</b>, Sen, S., Hori, N., Sarkar, R., Nasipuri, M. (2017). Handwritten Devanagari Numerals Recognition using Grid based Hausdroff Distance. In Computer, Communication and Electrical Technology: Proceedings of the International Conference on Advancement of Computer Communication and Electrical Technology (ACCET 2016), (p. 15). CRC Press.</li> <li>• Barua, S., Malakar, S., <b>Bhowmik, S.</b>, Sarkar, R., Nasipuri, M. (2017). Bangla Handwritten City Name Recognition Using Gradient-Based Feature. In Proceedings of the 5th International Conference on Frontiers in Intelligent Computing: Theory and Applications (pp. 343-352). Springer, Singapore.</li> <li>• Das, B., <b>Bhowmik, S.</b>, Saha, A., Sarkar, R. (2018). An Adaptive Foreground-Background Separation Method for Effective Binarization of Document Images. In: Abraham A., Cherukuri A., Madureira A., Muda A. (eds) Eighth International Conference on Soft Computing and Pattern Recognition (SoCPaR 2016). Advances in Intelligent Systems and Computing, vol 614. Springer, Cham (pp. 515-524)</li> <li>• <b>Bhowmik, S.</b>, Sarkar, R. Nasipuri, M. (2016) Text and Non-text separation in Handwritten Document Images using Local Binary Pattern Operator, In: Mandal J., Satapathy S., Sanyal M., Bhateja V. (eds) Proceedings of the First International Conference on Intelligent Computing and Communication. Advances in Intelligent Systems and Computing, vol. 458. pp. 507-515, Springer, Singapore.</li> <li>• Singh, P. K., Mondal, A., <b>Bhowmik, S.</b>, Sarkar, R., Nasipuri, M. (2015) Word-Level Script Identification from Handwritten Multi-script Documents. In: Satapathy S., Biswal B., Udgata S., Mandal J. (eds) 3rd International Conference on Frontiers of Intelligent Computing: Theory</li> </ul>
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	<p>and Applications (FICTA) 2014. Advances in Intelligent Systems and Computing, vol. 327. Springer, Cham (pp. 551-558)</p> <ul style="list-style-type: none"> <li>• Das, S., Singh, P. K., <b>Bhowmik, S.</b>, Sarkar, R., &amp; Nasipuri, M. (2016). A Harmony Search Based Wrapper Feature Selection Method for Holistic Bangla Word Recognition. Procedia Computer Science, vol. 89, pp. 395-403.</li> <li>• <b>Bhowmik, S.</b>, Polley, S., Roushan, M.G., Malakar, S., Sarkar, R. Nasipuri, M, (2014) Handwritten Bangla Word Recognition using HOG Descriptor, In Emerging Applications of Information Technology (EAIT-2014), 4th International Conference on (pp. 193-197) IEEE.</li> <li>• <b>Bhowmik, S.</b>, Malakar, S., Sarkar, R. Nasipuri, M, (2014) Handwritten Bangla Word Recognition using Elliptical Features, In Computational Intelligence and Communication Networks (ICCICN) 2014, The 6th International Conference on (pp. 257-261) IEEE.</li> </ul>
<b>FDP Courses/ Workshop attended</b>	<ul style="list-style-type: none"> <li>• 10 days FDP course on Artificial Intelligence and Machine learning using python, organized by Finland Labs (A Unit of Revert Technology Pvt. Ltd.) In Association with National Social Summit, IIT Roorkee, From 18<sup>th</sup> to 27<sup>th</sup> June 2020</li> <li>• Online workshop on Universal HumanValue on the theme “Inculcating Universal Human Values in Technical Education” during 26-30 October, 2020 as organized by All India Council for Technical Education(AICTE).</li> <li>• The Part 1 of the online UHV Refresher 1FDP organized by All India Council for Technical Education (AICTE) from 23 November, 2020 to 27 November, 2020.</li> <li>• AICTE-NITTT Module 1: Orientation Towards Technical Education and Curriculum Aspects</li> <li>• AICTE-NITTT Module 2 - Professional Ethics &amp; Sustainability</li> <li>• AICTE-NITTT Module 3- Communication Skills, Modes &amp; Knowledge Dissemination</li> <li>• AICTE-NITTT Module 4 - Instructional Planning and Delivery</li> <li>• AICTE-NITTT Module 5 -Technology Enabled Learning &amp; Life Long Self Learning</li> <li>• AICTE-NITTT Module 6 - Student Assessment and Evaluation</li> </ul>



	<ul style="list-style-type: none"> <li>• AICTE-NITTT Module 7 -Creative Problem Solving, Innovation and Meaningful R &amp; D</li> <li>• AICTE-NITTT Module8 - Institutional Management &amp; Administrative procedures</li> </ul>
	<b>Name:</b> Mr. Subrata Roy
	<b>Designation:</b> Assistant Professor
	<b>Department:</b> Computer Science & Engineering
	<b>Email:</b> <a href="mailto:subrata@gkciet.ac.in">subrata@gkciet.ac.in</a>
<b>Education</b>	Subrata Roy has received B.Tech degree in computer science and engineering from the West Bengal University of Technology, India, in 2006, and the M.Tech degree from West Bengal University of Technology, India, in 2012. He is currently pursuing PhD (Employed & part-time category) at IIT Guwahati, India.
<b>Total experience</b>	<b>Teaching: 8.5 years</b>
<b>Conference paper (01)</b>	<ul style="list-style-type: none"> <li>• Roy, Subrata. "Logical Implication to Reduce Run Time Memory Requirement and Searches During LZW Decompression." Advanced Computational and Communication Paradigms. Springer, Singapore, 2018. 204-212.</li> </ul>
	<b>Name:</b> Sukhen Das Mandal
	<b>Designation:</b> Assistant Professor
	<b>Department:</b> Computer Science & Engineering
	<b>Email:</b> <a href="mailto:sukhen@gkciet.ac.in">sukhen@gkciet.ac.in</a>
<b>Education</b>	Sukhen Das Mandal has received B.Tech degree in computer science and engineering from the West Bengal University of Technology, India, in 2012, and the M.E degree from Jadavpur University, India, in 2014. He is pursuing his Ph.D. from Indian Institute of Science Education and Research Kolkata.
<b>Total experience</b>	<b>Teaching: 3 months</b> <b>Full-time research: 7 years</b>
<b>Awards (05)</b>	<ul style="list-style-type: none"> <li>• <b>State Eligibility Test for Assistant Professor (SET)</b>, Awarded by West Bengal College Service Commission in 2018.</li> <li>• Selected by faculty members of Harvard university for the workshop, "genomics in healthcare and translational research" under Boston Bangalore biosciences beginnings(b4) program</li> <li>• <b>National Eligibility Test-Junior Research Fellowship (NET-JRF)</b>, Awarded by Council of Scientific and Industrial Research, India in 2014.</li> </ul>




	<ul style="list-style-type: none"> <li>• <b>Graduate Aptitude Test in Engineering (GATE)</b>, Awarded by Department of Higher Education, Ministry of Human Resource Development, Government of India.</li> <li>• State rank 45 in 10th standard examination.</li> </ul>
<b>Journals (9)</b>	<ul style="list-style-type: none"> <li>• Nag, S, Goswami, B., <b>Mandal, S. D.</b>, &amp; Ray, P. S. (2022). Cooperation and competition by RNA-binding proteins in cancer. Seminars in Cancer Biology. doi:doi.org/10.1016/j.semcancer.2022.02.023. [<b>Impact Factor 15.707</b>]</li> <li>• Sharma, R. K., <b>Mandal, S. D.</b>, &amp; Ray, P. S. (2020). Quorum sensing by gelsolin regulates programmed cell death 4 expression and a density-dependent phenotype in macrophages. The Journal of Immunology, https://doi.org/10.4049/jimmunol.2001392. [<b>Impact Factor 5.422</b>]</li> <li>• <b>Mandal, S. D.</b>, &amp; Ray, P. S. (2020). Transcriptom-wide Analysis Reveals Spatial Correlation between n6-methyladosine and binding sites of microRNAs and RNA-binding proteins. Genomics. https://doi.org/10.1016/j.ygeno.2020.12. [<b>Impact Factor 5.736</b>]</li> <li>• Guha, A. G., Ahuja, <b>D., Mandal, S. D.</b>, Parasar, B., Deyasi, K. D., Roy, D., Sharma, V., Willard, B., Ghosh, A., &amp; Ray, P. S. (2019). Integrated regulation of hur by translation repression and proteindegradation determines pulsatile expression of p53 under DNA damage. Iscience, 15, 342–359. https://doi.org/10.1016/j.isci.2019.05.002. [<b>Impact Factor 5.458</b>]</li> <li>• Mukherjee, <b>S.</b>, <b>Mandal, S. D.</b>, Gupta, N., Drory-Retwitzer, M., Barash, D., &amp; Sengupta, S. (2019). Ribod: A comprehensive database for prokaryotic riboswitches. Bioinformatics, 35, 3541–3543. https://doi.org/10.1093/bioinformatics. [<b>Impact Factor 6.937</b>]</li> <li>• Subramani, C., Nair, V. P., Anang, <b>S.</b>, <b>Mandal, S. D.</b>, Pareek, M., Kaushik, N., Srivastava, A., Saha, S., Nayak, B., Ranjith-Kumar, C., &amp; Surjit, M. (2018). Host-virus protein interaction network reveals the involvement of multiple host processes in the life cycle of hepatitis e virus. MSystems, 3. https://doi.org/10.1128/mSystems.00135-. [<b>Impact Factor 6.496</b>]</li> <li>• Chakravorty, D., Jana, T., <b>Mandal, S. D.</b>, Seth, A., Bhattacharya, A., &amp; Saha, S. (2017). Mycbase: A database of functional sites and biochemical properties of myc in both normal and cancer cells. BMCbioinformatics, 18, 224. https://doi.org/10.1186/s12859-017-1652-6. [<b>Impact</b></li> </ul>

	<p><b>Factor 3.169]</b></p> <ul style="list-style-type: none"> <li>Jana, T., Ghosh, A., <b>Mandal, S. D.</b>, Banerjee, R., &amp; Saha, S. (2017). Ppimpred: A web server for high-throughput screening of small molecules targeting protein–protein interaction. Royal SocietyOpen Science, 4, 160501.<a href="https://doi.org/10.1098/rsos.160501">https://doi.org/10.1098/rsos.160501</a>. <b>[Impact Factor 2.107]</b></li> </ul>
<b>Posters/ Conferences (4)</b>	<ul style="list-style-type: none"> <li>Transcriptome-Wide Correlation Study of m6A RNA Methylation Sites with the Binding Sites of microRNA and RNA-binding Proteins. India-EMBO Lecture Course 2022</li> <li>Transcriptome-wide correlation study of m6ARNA methylation sites with the binding sites of microRNA and RNA-binding proteins. Frontiers in Modern Biology, 2020.</li> <li>Understanding the regulatory network of the inflammatory gene PDCD4 by a combination of computational and experimental approaches. Frontiers in Modern Biology, 2018.</li> <li>Understanding the regulatory network of the inflammatory gene PDCD4 by a combination of computational and experimental approaches. International Symposium on Systems, Synthetic &amp; Chemical Biology 2017.</li> </ul>
	<b>Name:</b> Ms. Imayanmosha Wahlang
	<b>Designation:</b> Assistant Professor
	<b>Department:</b> Computer Science and Engineering
	<b>Email:</b> <a href="mailto:imayanmosha@gkciet.ac.in">imayanmosha@gkciet.ac.in</a>
<b>Education</b>	Imayanmosha Wahlang has received her B.Tech and M.Tech degree in Information Technology from North-Eastern Hill University, India, in 2014 and 2016, respectively. Currently pursuing P.hD at North-Eastern Hill University, Shillong, India (2016-present)
<b>Total experience</b>	<p><b>Teaching : 3 months</b></p> <p><b>Research experience: 5 years</b></p>
<b>Journals</b>	Wahlang, I., Maji, A. K., Saha, G., Chakrabarti, P., Jasinski, M., Leonowicz, Z., & Jasinska, E. (2022). Brain Magnetic Resonance Imaging Classification Using Deep Learning Architectures with Gender and Age. <i>Sensors</i> , 22(5), 1766. (Impact factor: 3.576)
<b>Conferences</b>	Wahlang, I., Saha, G., & Maji, A. K. (2021). A comparative analysis on denoising techniques in brain mri and cardiac echo. In Proceedings of the International Conference on Computing and Communication Systems (pp. 381-391). Springer, Singapore.

<b>FDP courses/ Workshop attended</b>	<ul style="list-style-type: none"> <li>5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 31<sup>st</sup> January to 4<sup>th</sup> February 2022</li> </ul>
<b>Certification</b>	Net Qualified
<b>Publications</b>	<p>1. Extraction and Analysis of Expression from a Captured Face, <b>I.Wahlang</b>, S.Warjri, A.K Maji, In: <i>International Conference on Computing and Communication Systems</i>, 2016.</p> <p>2. Study and Analysis of Different Face Recognition Tehniques Based on Graph, S.Warjri, <b>I. Wahlang</b>, A.K Maji, In: <i>International Conference on Computing and Communication Systems</i>, 2016.</p> <p>3. <b>Wahlang, I.</b>, Sharma, P., Nasreen, S. M., Maji, A. K., Saha, G (2019). A Comparative Study on Segmentation Techniques for Brain Tumor MRI. In <i>Information and Communication Technology for Competitive Strategies</i> (pp. 665-673). Springer, Singapore.</p> <p>4. <b>Wahlang, I.</b>, Sharma, P., Saha, G., Maji, A. K. (2018). Brain Tumor Classification Techniques using MRI: A Study. <i>Research Journal of Pharmacy and Technology</i>, 11(10), 4764-4770.</p> <p>5. <b>I.Wahlang</b>, G.Saha and A.K Maji, "A study on Abnormalities Detection Techniques from Echocardiogram", <i>International Conference on Advances in Electrical and Computer Technologies</i>, 2019.</p> <p>6. Pallabi Sharma, <b>Imayanmosha Wahlang</b>, Sugata Sanyal, Arnab Kumar Maji. Classification of Brain MRI using Deep Learning Techniques. <i>International Conference on Soft Computing: Theory and Applications</i>, 2019.</p> <p>7. <b>Imayanmosha Wahlang</b>, Pallabi Sharma, Sugata Sanyal, Goutam Saha, Arnab Kumar Maji , "Deep Learning Techniques for Classification of Brain MRI" , <i>International Journal of Intelligent Systems Technologies and Applications</i>, 2020.</p> <p>8. Wahlang, I., Saha, G., &amp; Maji, A. K. (2021). A comparative analysis on denoising techniques in brain mri and cardiac echo. In <i>Proceedings of the International Conference on Computing and Communication Systems</i> (pp. 381-391). Springer, Singapore.</p> <p>9. Wahlang, I., Maji, A. K., Saha, G., Chakrabarti, P., Jasinski, M., Leonowicz, Z., &amp; Jasinska, E. (2021). Deep Learning Methods for Classification of Certain Abnormalities in</p>

	<p>Echocardiography. <i>Electronics</i>, 10(4), 495.</p> <p>10. Wahlang, I., Maji, A. K., Saha, G., Chakrabarti, P., Jasinski, M., Leonowicz, Z., &amp; Jasinska, E. (2022). Brain Magnetic Resonance Imaging Classification Using Deep Learning Architectures with Gender and Age. <i>Sensors</i>, 22(5), 1766. (Impact factor:3.576)</p>
	<b>Name:</b> Mr. Tryambak Kumar Ojha
	<b>Designation:</b> Lecturer
	<b>Department:</b> Computer Science and Engineering
	<b>Email:</b> <a href="mailto:tryambak@gkciet.ac.in">tryambak@gkciet.ac.in</a>
<b>Education</b>	Tryambak Kumar Ojha has received B.Tech degree in computer science and engineering from the West Bengal University of Technology, India, in the year 2011.
<b>Total experience</b>	<b>Teaching : 8 years</b>
<b>FDP courses/ Workshop attended</b>	<ul style="list-style-type: none"> <li>• 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by <i>All India Council for Technical Education (AICTE)</i> from 02 to 06 November 2020.</li> <li>• 5-day online FDP on the theme “Online UHV Refresher 1 FDP” organized by <i>All India Council for Technical Education (AICTE)</i> from 23 to 27 November 2020.</li> <li>• 5-day online FDP on the theme “Artificial Intelligence” organized by <i>AICTE Training and Learning (AICTE)</i> from 02 to 06 November 2020.</li> <li>• NITTT Module-II (Professional Ethics &amp; Sustainability)</li> <li>• NITTT Module I (Orientation Towards Technical Education and Curriculum Aspects)</li> </ul>
	<b>Name:</b> Mrs. Debadrita Roy
	<b>Designation:</b> Trainer
	<b>Department:</b> Computer Science and Engineering
	<b>Email:</b> <a href="mailto:debadrita@gkciet.ac.in">debadrita@gkciet.ac.in</a>
<b>Education</b>	Debadrita Roy has received B. Tech degree in Information Technology from the West Bengal University of Technology, India, in 2008, and the M. Tech degree in Computer Science & Engineering from West Bengal University of Technology, Kolkata in 2010. She is pursuing her Ph.D. in engineering from NIT Silchar.
<b>Total experience</b>	<b>Teaching : 8.5 years</b>
<b>Patent (01)</b>	<ul style="list-style-type: none"> <li>• Ripon Patgiri; Sabijima Nayak, Lilapati Waikhom,</li> </ul>


	<p>Debadrita Roy "A Method and System for Generating a Truly Random Number for Conventional Computing Devices". 2021107078. 12.09.2021  <a href="https://www.researchgate.net/publication/356879236">https://www.researchgate.net/publication/356879236</a></p>
<b>Journals (02)</b>	<ul style="list-style-type: none"> <li>• <b>Roy, Debadrita</b>, and Arnab Kundu. "A Comparative Analysis of Three Different Types of Searching Algorithms in Data Structure." International Journal of Advanced Research in Computer and Communication Engineering 3.5 (2014): 6626-6630.</li> <li>• <b>Roy, Debadrita</b>, and Arnab Kundu. "Design of movie recommendation system by means of collaborative filtering." Int. J. Emerg. Technol. and Adv. Eng 3 (2013).</li> </ul>
<b>Conference (01)</b>	<ul style="list-style-type: none"> <li>• Kundu, A., <b>Roy, D.</b>, Talukdar, B., &amp; Arif, W. (2020, December). Analysis of Teletraffic Parameters for Channel Selection of Secondary Users under Heterogeneous Cognitive Radio Network. In <i>2020 Advanced Communication Technologies and Signal Processing (ACTS)</i> (pp. 1-6). IEEE.</li> </ul>
<b>FDP courses/ Workshop attended</b>	<ul style="list-style-type: none"> <li>• Completed 6 months course work successfully as a part of PhD programme.</li> <li>• Participated Sensitization training on prevention, prohibition of sexual harassment of women at workplace.</li> <li>• Completed successfully Hindi Language Examination</li> <li>• One-week short term training programme on "Programming on C++ methodologies" organized by NITTTR, Kolkata.</li> <li>• 4-days online course on Examination Reforms during 29th April to 4th May organized by AICTE</li> <li>• One-week short term training programme on "Programming on Artificial Intelligence" organized by NITTTR, Kolkata</li> <li>• A one-week workshop – A webinar on "Importance of e-Learning in COVID -19 Scenario and its Future Perspective" on 25th to 29th June, 2020</li> <li>• Computing Educators Training under Google CS First on 6th August, 2020.</li> <li>• Panel discussion in MAKING MENTORING RELEVANT: NEP 2020 PERSPECTIVE Conducted by NITTTR Bhopal, Chandigarh, Chennai, Kolkata on 21.09.2020</li> </ul>


	<ul style="list-style-type: none"> <li>• Online workshop on Universal Human Value on the theme “Inculcating Universal Human Values in Technical Education” during 28 September –2 October, 2020 as organized by All India Council for Technical Education (AICTE)</li> <li>• 5-day online UHV on the theme “Inculcating Universal Human Values in Technical Education” during 23-27 November, 2020 as organized by All India Council for Technical Education (AICTE).</li> <li>• One Week Online Short-Term Course on “Innovation, Start-up and Entrepreneurship” organized by Innovation, Incubation and Entrepreneurship (IIE) Cell, GKCIET, Malda in association with MSME, District Industries Centre, Malda during 7th to 11th December.</li> <li>• Webinar on Awareness Webinar on Outcome Based Education and Accreditation for the Engineering Colleges in West Bengal on 15th December, 2020 organized by NBA, New Delhi</li> <li>• Webinar On "E- procurement of Goods and Services, and related Govt. of India Financial Rules"</li> </ul>
	<b>Name:</b> Mr. Nikhil Deo
	<b>Designation:</b> Senior Trainer
	<b>Department:</b> Computer Science and Engineering
	<b>Email:</b> <a href="mailto:nikhil@gkciet.ac.in">nikhil@gkciet.ac.in</a>
<b>Education</b>	Nikhil Deo received his B.Tech in Electronics and Communication Engineering, and M.Tech in VLSI from NERIST, India in the year 2012 and 2014, respectively.
<b>Total experience</b>	<b>Teaching : 3 years</b> <b>Full-time research: 1 year</b>
<b>Journal (01)</b>	<ul style="list-style-type: none"> <li>• <b>Nikhil Deo</b>, Tripurari Sharan &amp; Tanmay Dubey, “Subthreshold biased enhanced bulk-driven double recycling current mirror OTA”, Analog Integrated Circuits and Signal Processing, Volume 105, 229–242 (2020). <a href="https://doi.org/10.1007/s10470-020-01689-8">https://doi.org/10.1007/s10470-020-01689-8</a></li> </ul>
<b>Conference paper (02)</b>	<ul style="list-style-type: none"> <li>• N. Deo, R. K. Mangang and K. Murugan, "Power gating in FinFET Adiabatic circuits," 2014 International Conference on Green Computing Communication and Electrical Engineering (ICGCCEE), Coimbatore, 2014, pp. 1-5.</li> <li>• Nikhil Deo, Tripurari Sharan, “Ultra low power fully differential double recycling current mirror OTA for</li> </ul>






	Biomedical Applications”, 4th International Conference on VLSI, Communication and Signal Processing (VCAS 2021), 24-26 Sept-2021.
<b>FDP courses/ Workshop attended</b>	<ul style="list-style-type: none"> <li>• Online workshop on UHV on the theme inculcating universal human values in technical education, 12-10-2020 to 16-10-2020.</li> <li>• Online UHV Refresher 1 FDP, 23-11-2020 to 27-11-2020.</li> <li>• Six Days, Online Short-term Training Programme on "Recent Trends in Industrial Automation" Approved by AICTE, Organized by Dept. of EECE, Manav Rachna International Institute of Research &amp; Studies, Faridabad (31-08-2020 to 05-09-2020).</li> <li>• One Week Online AICTE Recognized Faculty Development Programme on "Digital and Analog VLSI Design" Electronics and Communication Engineering Department, NITTTR, Chandigarh. 03.08.2020 to 07.08.2020</li> <li>• One Week Online Short Term Course on "Low Power VLSI Design for Communication Systems and Networks", TEQIP-III Sponsored, Organised by Department of ECE, Dr B R Ambedkar National Institute of Technology, Jalandhar, September 16 - 20, 2020</li> <li>• 5 days Short Term Training Program on “Emerging Trends in VLSI Design”, from 12-09-2020 to 16-09-2020, TEQIP-III, conducted by Department Electronics Engg., SVNIT Surat.</li> <li>• One week Online AICTE Recognized Faculty Development Programme on "VLSI Design Challenges and Opportunities", Electronics and Communication Engineering Department NITTTR, Chandigarh. 21.09.2020 to 25.09.2020</li> <li>• Five Days Webinar Series on "Atma-Nirbhar Bharat: Transmutation from Privation to Exuberance", Mechanical Engineering Department, NITTTR Chandigarh, 27-07-2020 to 31-07-2020</li> <li>• Online Certification Program on "Analog, Digital and Mixed Signal Analysis in ASIC Custom design", Sandeepani School of Embedded System Design, Bangalore 2020-07-16</li> </ul>

	<ul style="list-style-type: none"> <li>• Two days National workshop on "AI for COVID-19 outbreak Prediction Forecasting, Data Analysis &amp; Data Visualization", EduxLabs (Esoir Business Solution) 2020-04-14</li> <li>• Webinar on "Forthcoming Trends in Engineering and Future of Electronics", Dept. of ECE, School of Engg. &amp; Tech. The Assam Kaziranga University. 2020-08-01</li> <li>• Online webinar on “Building Blocks of Integrated Power Management”, Department of ECE, A.J. Institute of Engineering &amp; Technology, Mangalore. 2020-08-28</li> <li>• Hands-on Practice on CSE, ECE, EE and ME Virtual Labs, GKCIET in association with Virtual Labs, IIT Kharagpur 2020-07-10</li> <li>• Two Days International Webinar on "Honing English Language Skills-Gateway to Success", Dept. of English, Dr. P. Dayananda Pai-P.Sathisha Pai, Govt. First Grade College Mangalore, Carstreet 2020-08-27</li> <li>• 5 days Webinar on "Meghalaya and her rich indigenous culture and custom" from 07-09-2020 to 11-09-2020, TEQIP-III, conducted by Ek Bharat Shrestha Bharat NIT Meghalaya.</li> <li>• Module 1: Orientation towards Technical Education &amp; Curriculum Aspects, National Initiative for Technical Teachers Training, September 2021, AICTE-NITTTR</li> <li>• Module 2: Professional Ethics &amp; Sustainability, National Initiative for Technical Teachers Training, September 2021, AICTE-NITTTR</li> <li>• Module 3: Communication Skills and Knowledge Dissemination, National Initiative for Technical Teachers Training, September 2021, AICTE-NITTTR</li> <li>• Module 4: Instructional Planning and Delivery, National Initiative for Technical Teachers Training, September 2021, AICTE-NITTTR</li> <li>• Two week Online FDP on “RISC-V VLSI Implementation Flow: RTL2GDS” jointly organized by E&amp;ICT Academies supported and sponsored by Ministry of Electronics and Information Technology (Meity), Govt. of India, April 2021.</li> <li>• Online Webinar on “Empowering Girl Child in Education, Health &amp; Hygiene, Marriage, Empowerment, Gender Equality” held on 24th January, 2022.</li> </ul>
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	<b>Name:</b> Mr. Siraj Ud Doulah
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	<b>Email:</b> <a href="mailto:siraj@gkciet.ac.in">siraj@gkciet.ac.in</a>
<b>Education</b>	Siraj Ud Doulah has received B.Techdegree in Information Technology from the West Bengal University of Technology, India, in 2008. At present he is doing his Master degree under Study Leave.
<b>Total experience</b>	<b>Teaching : 8.5 years</b> <b>Industrial experience: 5 years</b>
<b>FDP courses/ Workshop attended</b>	<ul style="list-style-type: none"> <li>• 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 18 to 22 January 2021</li> <li>• NITTTS1M1      Module 1_ Orientation Towards Technical Education and Curriculum Aspects</li> <li>• NITTTS1M2      Module 2_ Professional Ethics &amp; Sustainability</li> <li>• NITTTS1M3      Module 3_ Communication Skills, Modes &amp; Knowledge Dissemination</li> <li>• NITTTS1M6      Module 6_ Student Assessment and Evaluation</li> <li>• One Week Online Short-Term Course on "Innovation Start-up and Entrepreneurship" organized by Innovation, Incubation and Entrepreneurship (IIE) Cell, GKCIET, Malda in association with MSME, District Industries Centre, Malda during 7th to 11th December, 2020.</li> <li>• IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28th April to 22nd May 2020</li> <li>• National Seminar (web) on Ancient Indian Education System organized by NITTTR Kolkata on 11th and 12th November, 2020</li> <li>• 4-days Online Course on Examination Reforms conducted during 29 April to 2 May 2020 organized by AICTE</li> <li>• Hindi Pragma Course.</li> </ul>

	<b>Name:</b> Mr. Mahafizur Rahaman
	<b>Designation:</b> Trainer
	<b>Department:</b> Computer Science and Engineering
	<b>Email:</b> <a href="mailto:mahafizur@gkciet.ac.in">mahafizur@gkciet.ac.in</a>
<b>Education</b>	Mahafizur Rahaman has received B.Tech degree in computer science and engineering from West Bengal University of Technology, India, in 2011.
<b>Total experience</b>	<b>Teaching : 7 years</b>

**LABORATORY DETAILS**

	<b>Computer Lab 1:</b> Students learn PC maintenance and troubleshooting in this lab. This lab is equipped with 20 desktop computers with internet facility.
	<b>Computer Lab 2:</b> This lab is used for practical training on various programming languages such as Fundamental of programming using C, Object Oriented Programming using C++, JAVA etc. This lab is equipped with 20 desktop computers with internet facility.
	<b>Computer Lab 3:</b> This lab is used for the practical training of various subjects like Computer Network, Operation System etc. This lab is also equipped with 25 desktop computer with internet facility.

**Academic Achievements by Faculty Members During 2021-2022**

1. Shri. Showmik Bhowmik completed PhD degree.
2. Debadrita Roy published patent.  
Ripon Patgiri; Sabijima Nayak, Lilapati Waikhom, Debadrita Roy “A Method and System For Generating A Truly Random Number For Conventional Computing Devices”. 2021107078. 12.09.2021  
<https://www.researchgate.net/publication/356879236>
3. Nag, S, Goswami, B., Mandal, S. D., & Ray, P. S. (2022). Cooperation and competition by RNA-binding proteins in cancer. Seminars in Cancer Biology. doi:doi.org/10.1016/j.semcancer.2022.02.023. [SCI, Impact Factor 15.707].
4. Nikhil Deo, Tripurari Sharan, “Ultra low power fully differential double recycling current mirror OTA for Biomedical Applications”, 4th International Conference on VLSI, Communication and Signal Processing (VCAS 2021), 24-26 Sept-2021.

**List of publication from the CSE department in the Annual year 2021-to-2022**

1. Ghosh, S., Hassan, S. K., Khan, A. H., Manna, A., **Bhowmik, S.,** & Sarkar, R. (2022). Application of texture-based features for text non-text classification in printed document images with novel feature selection algorithm. **Soft Computing**, 26(2), 891-909. [SCI, IF-3.643]

**Various FDP Courses/ Workshops attended by the faculty members of CSE department in the Annual year 2021-2022**

1. AICTE-NITTT Module 1: Orientation Towards Technical Education and Curriculum Aspects
2. Module 2: Professional Ethics, Sustainability, National Initiative for Technical Teachers Training, September 2021, AICTE-NITTTR
3. AICTE-NITTT Module 3: Communication Skills, Modes & Knowledge Dissemination
4. Instructional Planning and Delivery, National Initiative for Technical Teachers Training, September 2021, AICTE-NITTTR
5. AICTE-NITTT Module 5: Technology Enabled Learning & Life Long Self Learning
6. AICTE-NITTT Module 7: Creative Problem Solving, Innovation and Meaningful R & D
7. Two week Online FDP on “RISC-V VLSI Implementation Flow: RTL2GDS” jointly organized by E&ICT Academies supported and sponsored by Ministry of Electronics and Information Technology (Meity), Govt. of India, April 2021
8. Participated in Sensitization training on prevention, prohibition and redressal of sexual harassment of woman at workplace.
9. Online Webinar on “Empowering Girl Child in Education, Health & Hygiene, Marriage, Empowerment, Gender Equality” held on 24th January, 2022.
10. FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 31<sup>st</sup> January to 4<sup>th</sup> February 2022.

**Involvement in various committees during 2021-2022**

**Dr. Showmik Bhowmik was involved in the following Committees**

1. Member of a Committee constituted to arrange “Swagatam 2021” GKCIET Freshers [Memo No: GKCIET/6225] which was successfully conducted.
2. Member of a Committee constituted to arrange “Art, & Design’ and ‘Kala Shersthi Award for Art’ for Girl students [GKCIET/6394] which was successfully conducted.
3. Co-Ordinator of the ‘Navonmesha Award 2021’ for girls. Which was successfully conducted.
4. Member of a Committee constituted for Admission 2021 [GKCIET/6444]. The admission process was successfully completed.
5. Member of GKCIET ICC committee 2021[GKCIET/6596].

6. Convener of COVID monitoring Committee for Academic BLOCK B [GKCIET/7544]
7. Member of a Committee constituted for the smooth conduction of the IQAC meet [GKCIET/7684]
8. Member of the Institutional advisory committee of the conference on “Emerging Technologies in Food Processing -II (ETFP-2022) March 25-26, 2022, GKCIET
9. Member of the advisory committee to conduct the workshop on ‘Sensitization training on prevention, prohibition and redressal of sexual harassment of woman at workplace’ [GKCIET/7987]
10. Member of the Committee constituted for the screening and conduction of the examination against Advt. no. 02/2021 dated 31/08/2021 [GKCIET/7561]
11. Member of the Committee to enquire the matter regarding indecent behavior of some students [GKCIET/7391]
12. Member of the LPC to make necessary arrangement to upgrade computer labs [GKCIET/7541]
13. Member of the committee to implement E-office through NIC [GKCIET/7988]

**Mr. Subrata Roy was involved in the following Committees**

1. Examination Coordinator
2. Member of a Committee constituted for Admission 2021

**Mr. Suken Das Mandal Roy was involved in the following Committees**

1. SPOC for GKCIET to implement IT & ITeS courses in Diploma programs.
2. Member of Library Advisory Committee (Memo No. GKCIET/8168).
3. Member of Training & Placement cell (Memo No. GKCIET/8120).

**Mrs. Debadrita Roy was involved in the following Committees**

1. Academic Coordinator of Diploma and Degree Programme, GKCIET
2. Member of Scholarship Committee, GKCIET, Malda
3. Warden, Girls’ hostel from 30.07.2014 to 6.10.2021
4. As a Nodal Officer of NAD Cell, GKCIET was registered under Digilocker
5. Institutive Representative of I-Stem
6. Joint Covenor, Swachh Bharat Abhiyan Committee
7. Member of Admission Committee, GKCIET, Malda to B.Tech programmes through JoSAA,/CSAB, WBJEE, JELET, JEXPO and VOCLET in the session of 2021-22.
8. Convenor of Internal Complaints committee from 17.04.2020 to 18.02.2022
9. Member of Women Empowerment Committee.
10. Member of Anti-ragging and Anti-squad committee
11. Member of International Women’s Day Celebration Programme, held on GKCIET Malda.
12. Member of GKCIET recruitment committee as per Memo No: GKCIET/6222 dated: 3.04.2021  
Member of Freshers Wellcome Committee for 2020-21 Memo No: GKCIET/6225 dated 5.04.2021



**Mr. Nikhil Deo was involved in the following Committees**

1. Training and placement activity of diploma final year students of 2021.
2. Committee Member of Admission and document verification of GKCIET Entrance Test (GET-2021).
3. Committee member for Admission/Registration of JEXPO and VOCLET 2021
4. Committee Member of Scholarship Committee for students of GKCIET since 07-12-2021, involved in checking, verifying and finalizing of scholarship application of students on regular basis.
5. Committee member for celebration of International Women's Day 2022 held on 08-03-2022
6. Committee member of Covid-Monitoring committee.
7. Committee member for Hon'ble MoS, GOI visit on 12.02.2022, was tasked with arrangement of stage decoration, microphone, speaker, display, and virtual tour.
8. Committee member in ET Service section for development and maintenance of Institute network and internet facilities, and organizing online events regularly.
9. Lab incharge, actively involved in Lab development in Dept of CSE.

**Ms. Imayanmosha Wahlang was involved in the following Committees**

1. Member of the COVID-19 Monitoring Committee, 2022.
2. Member of the National Events Committee, 2022.
3. Member of the Skill Development Committee, 2022.
4. Coordinator AICTE 360 degree feedback, 2022.

**Mr. Tryambak Kumar Ojhawas involved in the following Committees**


1. Member, Time table Committee
2. Member, Scholarship Committee
3. Member, Library Committee
4. Nodal Officer, NPS Committee
5. Coordinator of fine arts club

**Siraj Ud Doulah was involved in the following Committees**

1. Exam Coordinator (Diploma) vide Memo No.: GKCIET/4496
2. Treasurer (Fest Committee) vide Memo No.: GKCIET/4454
3. Member & Maker of NAD Cell vide Memo No.: GKCIET/3464 & GKCIET/5094
4. Member of Institute Website Committee vide Memo No.: GKCIET/4584
5. Member of Technical Specification Committee vide Memo No.: GKCIET/6112
6. Member of Cultural Committee vide Memo No.: GKCIET/1523
7. Member of Grievance Redressal Cell vide Memo No.: GKCIET/5330
8. Member of GKCIET Entrance Test (GET)-2021 vide Memo No.: GKCIET/6279

9. Member of Admission Committee (Diploma)- JEXPO/ VOCLET, 2020/2021
10. Contact point of Students' Credit Card

#### 4 Technical Staff Details

	<b>Name:</b> Mr. Puspajit Sarkar
	<b>Designation:</b> Technical Assistant
	<b>Department:</b> Computer Science & Engineering
	<b>Email:</b> <a href="mailto:puspajit@gki.ac.in">puspajit@gki.ac.in</a>
<b>Education</b>	Puspajit Sarkar has received B-Tech Degree in Computer Science and Engineering from Maulana Abul Kalam Azad University of Technology, India, in 2021
<b>Total experience</b>	<b>Non-Teaching Technical Assistant: 4 Month</b> <b>Assistant Network Engineer: 3 years</b>
<b>Certification Courses</b>	<ul style="list-style-type: none"> <li>➤ RHEL-7 Red Hat system administrator</li> <li>➤ C NPT- Certified Network Penetration Tester</li> <li>➤ C CNARS- Cisco Certified Network Associate Routing and Switching</li> <li>➤ C EHP - Certified Ethical Hacker Professional</li> <li>➤ Embedded System Design &amp; Development</li> <li>➤ Python Programming &amp; Raspberry Pi Hardware</li> <li>➤ IT Networking</li> <li>➤ Hardware &amp; Networking</li> </ul>
<b>Workshop Attended</b>	<ul style="list-style-type: none"> <li>• Workshop on Mind and Memory Management at Malda College Auditorium 2017</li> <li>• Workshop on Robotics with AVR at GKIET, Malda 2018</li> <li>• Workshop on Ethical Hacking at IIT Kharagpur 5<sup>th</sup> -6<sup>th</sup> January 2019</li> <li>• Workshop on Cyber Security at ICSS 14<sup>th</sup> September 2019</li> <li>• Short Term Course on Innovation, Start-up Entrepreneurship at IIE Cell, GKIET 7<sup>th</sup> – 11<sup>th</sup> December 2020</li> </ul>
<b>Committee Member</b>	<ul style="list-style-type: none"> <li>➤ Celebration of 73<sup>rd</sup> Republic Day, Veterans India Run and Fit India Sports events on 26<sup>th</sup> January, 2022</li> <li>➤ Monitoring against COVID-19 for Academic Block-B</li> <li>➤ Visit of Hon'ble Minister of State, MoE, GoI on 12<sup>th</sup> February 2022</li> <li>➤ Videography Skill Competition 2022</li> <li>➤ IT Co-Ordinator</li> <li>➤ Requirement Exam Invigilation Duty DoE: 28.02.2022</li> <li>➤ IQAC meet on 04/03/2022 (Friday) and 05/03/2022</li> <li>➤ Celebration Women's Day 2022</li> <li>➤ Interviews/skill tests of the shortlisted candidates as per Advt. No. 02/2021 dt. 31.08</li> </ul>

# **DEPARTMENT OF APPLIED SCIENCE**

## Annual Report for Department of Applied Sciences, GKCIET for the period of 1<sup>st</sup> April 2021-31<sup>st</sup> March 2022

### ❖ About the department:

The Department of Applied Sciences, one of the oldest departments of GKCIET, was established by 2010, named as General Science & Humanities. In 2021, Department of Applied Sciences became a separate department from humanities. The Department of Applied Sciences is the base of all Engineering studies. It aims to provide high-quality teaching-learning of basic science subjects to the budding engineers facilitating them with the fundamental knowledge of the laws of nature. The subjects of Physics, Chemistry, Mathematics, and Biology are taught to re-strengthen their understanding of basic backgrounds in the subjects before they move to learn the practical application of these knowledge in their specialized branches. The students are facilitated by providing well equipped laboratories as part of their curriculum. The teaching-learning process in the department is carried by well experienced, energetic, and highly qualified dedicated faculty members. All the faculties of the department are actively engaged to pursue research on their respective thrust areas.

The Department has 6 regular faculties and 2 Technical Assistants. Among them 3 new faculties Dr. Rakesh Das, Dr. Soutik Nandi, and Dr. Debasish Ghorui joined as Assistant Professors of Physics, Chemistry, and Mathematics respectively.

***During the 2021-2022 year, the following progresses have been made by the Department.***

1. New instruments were purchased from GEM platform and also locally for Chemistry Labs. More expansion is on list to increase the capacity.
2. New instruments were also purchased for Physics Labs to increase the capacity of doing lab experiments by both Diploma and B. Tech. students.

### ❖ Vision:

The Department of Applied Sciences is committed to inculcate competence and proficiency in the students in the field of basic sciences, technology, and personality development so that they can think critically & logically. The department is dedicated for preparing sincere and responsible students with strong fundamentals to thrive and contribute to an ever- changing global society.

### ❖ Mission:

- To develop a strong scientific foundation through fundamental principles of Physics, Chemistry, Mathematics, and Biology to pursue a successful engineering career and to train the students to apply these basic principles in real world situations.
- To impart knowledge, leading to understanding the relationship between engineering and other core areas of Applied Sciences.
- To provide students the basic tools of analysis, as well as the knowledge of the principles on which engineering is based.
- To inculcate extraordinary analytical, logical and soft skill in students to make them ready for real world.
- To motivate students to think out of the box and apply new ideas of research in fundamental science and technology.

**FACULTY WISE DESCRIPTION**

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**1. Dr. Debrup Hui**

Associate Professor in Physics and

Head, Department of Applied Sciences.

Specialization: Space Physics, Space Instrumentation, and Space Engineering.

Experience: 18 years across Research and Academia

▪ ***Additional duties***

1. Training and Placement Officer, GKCIET, and
2. Coordinator, IIRS distance learning program
3. In charge of IGNITE lab

▪ ***Activities***

- Hui, D., & Vichare, G. (2021). Influence of IMF-By on the equatorial ionospheric plasma drifts: TIEGCM simulations. Journal of Geophysical Research: Space Physics, 126, e2021JA029270. <https://doi.org/10.1029/2021JA029270>
- On invitation from ISRO Headquarter, wrote a joint report for India's upcoming Aditya L-1 space mission.
- Became Life-time member of American Geophysical Union (AGU)
- Attended NNRMS-ISRO Sponsored Certificate Courses in Remote Sensing & GIS Technology and Applications (7-24 June, 2021).
- Online Orientation Training Programme for Mentors (5-9th July, 2022).
- Set up/reorganize Physics Lab and procured many instruments for the lab to match the current requirements
- Completed Hindi Pragya Examination in the institute successfully.
- Attended numerous international/national workshops, webinars

**2. Dr. Bikarna Tarafdar**

Assistant Professor in Mathematics

Specialization: Applied Mathematics.

Experience: 10 years across Research and Academia

Email: bikarna@gkciet.ac.in

▪ ***Activities***

- Participated and successfully completed the 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) during 7-11 June, 2021.
- Participated and successfully completed the 5-day online FDP on Artificial Intelligence and Machine Learning, organized by Dr. B.C. Roy Polytechnic, Durgapur during 15-19 March, 2022 .
- Registered for "Comprehensive Training Policy for Technical Teachers" under the initiative of AICTE towards promoting quality of technical education in the country organized by NITTT.
- Attended numerous Seminar, Workshop, Webinar organized by GKCIET

### 3. Mr. Abhijit Mandal

Assistant Professor in Chemistry  
Specialization: Organic chemistry  
Experience: 10 years

▪ **Additional duties**

1. Member of IIE cell
2. Departmental Coordinator of 360 deg. Feedback
3. Member of Admission and Registration Committee

▪ **Activities**

- Working on Cartesian driver based alarm system.
- Guide students to develop a Burglar alarm.
- Working on Super atom based computational chemistry.
- Supervise the development of new chemistry lab.

### 4. Dr. Rakesh Das

Assistant Professor in Physics  
Specialization: Condensed Matter Physics, Strongly Correlated Systems, Quantum Phase Transitions  
Experience: Academia: 06 years & Research: 10 years  
E-mail: [rakesh@gkciet.ac.in](mailto:rakesh@gkciet.ac.in)

▪ **Additional duties:** Joint Examination Coordinator (Diploma Section), GKCIET

▪ **Activities**

- Completed Part 1 of the online UHV Refresher-1 FDP organized by All India Council for Technical Education (AICTE) from 7th February, 2022 to 11th February, 2022.
- Participated in Patriotic Run organized by Veterans India in Collaboration with AICTE and recognized by Fit India on 26th January 2022.
- Coordinating the development of the Physics Laboratories.
- Completed 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education(AICTE) from 15th November 2021 to 19th November 2021.
- Completed Five-day National Webinar on “English for Engineers & Managers: Approaches for Enhancing Proficiency” held at Haldia Institute of Technology, West Bengal from 10th November 2021 to 14th November 2021.
- Achieved Life Membership of the Indian Physical Society, Kolkata.
- Completed One-day “National Seminar on National Education Policy 2020” organized by Haldia Institute of Technology in association with Global Institute of Science and Technology, held on 22nd November 2021.



## 5. Dr. Soutick Nandi

Assistant Professor in Chemistry

Specialization: Inorganic Chemistry.

Experience: 6 years across Research and Academia

E-mail: [soutick@gkciet.ac.in](mailto:soutick@gkciet.ac.in).

### ▪ Activities

- Participated and successfully completed the 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 31st January, 2022 to 4th February, 2022.
- Published a paper entitled “Two birds with one arrow: functionalized Al(III) MOF acts as a fluorometric sensor of dopamine in bio-fluids and recyclable catalyst for Biginelli reaction” (doi: 1039/D2TC00022A) (Published on: 23-03-22).

## 6. Dr. Debasish Ghorui

Assistant Professor in Mathematics

Specialization: Complementarity Problem and Game Theory

Experience: 2 Years in Teaching

E-mail: [debasish@gkciet.ac.in](mailto:debasish@gkciet.ac.in).

### ▪ Activities

- Participated and successfully completed the 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 31st January, 2022 to 4th February, 2022.

### ▪ Courses Taken

- Engineering Mathematics-I, Course Code : BS101/M-I (Diploma 1stSem)
- Mathematics- IA/IB, Course Code : BS-M101/102 (B. Tech 1stSem)
- Engineering Mathematics-II, Course Code : BS102/M-II (Diploma 2ndSem)
- Mathematics-IIB, Course Code : BS-M202 (B. Tech 2ndSem)
- Operations Research, Course Code: HM-HU 601 (B. Tech 6th Sem)

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### TECHNICAL ASSISTANT

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## 1. Ms.SonaliJoardar

Technical Assistant in Chemistry

Experience: 6 months

E-mail: [sonali@gkciet.ac.in](mailto:sonali@gkciet.ac.in)

### ▪ Activities

- Maintaining and preparing Chemistry Labs for B.Tech and Diploma students.

## 2. Mr. Anik Adhikari

Technical Assistant in Physics

Experience: 6.5 years across Research and Academia

E-mail: [anik@gkciet.ac.in](mailto:anik@gkciet.ac.in)

- **Additional duties**
  - Departmental IT-Coordinator.
- **Activities**
  - Pursuing PhD on Nuclear Physics (IEST, Shibpur).
  - Maintaining and preparing Physics Labs for B.Tech. and Diploma students.
  - Participated in 'NLTM-2022' (VECC, KOLKATA; 01-03 Feb, 2022).

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#### SUPPORTING STAFF

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### 1. Mojammel Hoque

Multi-Tasking Skill

Department of Applied Sciences.

Experience: 14 years

E-mail: [mojammel\\_mts@gkciet.ac.in](mailto:mojammel_mts@gkciet.ac.in)

- **Activities:**
  - Looks after many day to day requirements of the Department.

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#### DEPARTMENTAL LABORATORY

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## PHYSICS LAB



### Some glimpses of B.TECH. LAB





### Some Glimpses of DIPLOMA LAB



**DIGITAL BALANCE**



**POTENTIOMETER**



**CONDUCTIVITY METER**



**PH METER**

# **DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCE**

## ABOUT THE H.S.S. DEPARTMENT

The Department of Humanities and Social Sciences (HSS) at GKCIET, Malda is a center for skill development, research and teaching composed of disciplines such as - English, Economics, Indian Traditional Knowledge, Linguistics, Management, Sociology and Entrepreneurship Development. The department is committed to promoting communication skills, managerial skills, entrepreneurial attitude, skill development and professional ethics in the students. The faculty of English trains and designs engineering students of Diploma courses and B. Tech courses with an aim of improving their English communication skills (both written and spoken) along with other professional skills with the help of language lab and other advanced tools.

The Faculty of Economics and Management guides engineering students with the applications and concepts of applied economics principles used in the study of engineering decisions, along with the development of managerial skills and professional ethics which are required in the professional domain. The economic and management disciplines strive towards the development of student's decision-making skills, thereby promoting them to supervise a wide range of industrial work with greater efficiency.

The faculty of Sociology guides the engineering students to develop ethical responsibility towards society and sustainable development. Thus, the students are enabled to relate themselves to the wider context of society. Simultaneously students can able to apply the subjective approach in their future project works.

In December 2021 two new faculty members have joined the Dept. of HSS, Chhandita Das, Asst. Prof. in English and Anirban Saha, Asst. Prof. in Sociology.

## ABOUT LANGUAGE LABORATORY




**Equipment details:** 26 PCs with Language software Orell Talk, 01 LCD Projector

**Description:** Language Laboratory is basically a pedagogy driven and machine aided laboratory which supports different kinds of effective language instructions as well as teaching activities at the department of Humanities and Social Sciences. Among the various teaching activities, most importantly Communication Skill development courses like “HM-HU291 - Language Laboratory” for BTech and “HS105 - Communication Skills in English – Lab” for Diploma level students are conducted in this language laboratory in the specified period. Remedial classes for both programs are also partially conducted in this laboratory. The entire laboratory is well equipped with audio-visual teaching aids and all the computers have acquired language learning software **Orell Talk**. This smart class set up in this laboratory provides an advanced language teaching/learning experience.



## Annual Report (2021-2022) of the faculties of HSS

	<b>Name:</b> Dr. Shib Shankar Chowdhury
	<b>Designation:</b> Asst. Prof. & HoD
	<b>Department:</b> Humanities & Social Sciences
	<b>Email:</b> <a href="mailto:shibshankar@gkciet.ac.in">shibshankar@gkciet.ac.in</a>
<b>Education</b>	<p><b>PhD</b> from Dept. of English , Techno India University, West Bengal, completed in June 2021</p> <p><b>M.A.</b> in English, from IGNOU, Central University, New Delhi, completed in June 2008</p> <p><b>B.A.</b> in English Computer Science &amp; Engineering from West Bengal University of Technology, Kolkata in 2010.</p>
<b>Short Term Course/internship</b>	<ol style="list-style-type: none"> <li>1. Intern of 25th International Rural Youth Leadership Programme in July, 2011 at Herrsching, Munich, Under Federal Ministry of Agriculture, Food and Consumer Protection, Germany.</li> <li>2. International English Language Teachers' Training July-August 2013 from Exeter College, University of Oxford, UK</li> <li>3. Ethnomusicology course in June 2018 from Charles University, Prague, CZ</li> </ol>
<b>Total experience</b>	Teaching : <b>11</b> years
<b>Journals (04)</b>	<ol style="list-style-type: none"> <li>1. Chowdhury, Shib Shankar. "Ethnographic Study on Expression and Affect: '21st Century Anglo-American Women and Their Pop Songs.'" The Criterion An International Journal in English, vol. 12, no. I, Feb. 2021, pp. 145–61, <a href="http://www.the-criterion.com/archive">www.the-criterion.com/archive</a>.</li> <li>2. Chowdhury, Shib Shankar. "A Literature Assessment Of Women In Popular Music Based On Personal Expression And The Impact On Audiences" vol.10,no.III, May.2021 <a href="https://www.galaxyimrj.com/">https://www.galaxyimrj.com/</a></li> <li>3. Chowdhury, Shib Shankar. "Relevance Of Yoga In The 21st Century." International Journal of Engineering Technologies and Management Research, vol. 5, no. 3, 2018, pp. 251–56. Crossref, doi:10.29121/ijetmr.v5.i3.2018.198.</li> <li>4. Chowdhury, Shib Shankar. "Stress, Trauma, Psychological Problems, Quality Of Life, And Resilience Of Women As Reflected In Various Movies Around The World." International Journal of Engineering Technologies and Management Research, vol. 5, no. 4, 2018, Crossref, pp. 1–6. Doi:10.29121/ijetmr.v5.i4.2018.202.</li> </ol>
<b>Paper presentation (in person) at International Conferences (03)</b>	<ul style="list-style-type: none"> <li>• Innovation In Music, University of West London ,5-7 Dec.2019</li> <li>• EUPOP, 16-18 July, 2019, Marry Immaculate College, University of Limerick, Ireland</li> <li>• International Conference of Royal Music Association at</li> </ul>



	University of Plymouth, UK in January, 2022.
<b>FDP courses/ Workshop attended</b>	<ol style="list-style-type: none"> <li>1. One-week short term in house training programme on “Programming on Strategic Management in Technical Institutions” organized by NITTTR, Kolkata from 19-23 March 2018.</li> <li>2. "Common Follow-up Session of eSIP Online Student Induction Program". 8 to 20 Nov. 2020</li> <li>3. Five Days Online Faculty Development Programme on Organisational Behaviour Sponsored by :AICTE Training and Learning (ATAL) Academy Organized by: Department of Management, Mizoram University 21-25 Sept. 2020.</li> </ol>
<b>International Membership Media Coverage &amp; Discography (As Singer Songwriter, Composer and Executive Producer) Music Publisher</b>	<ol style="list-style-type: none"> <li>1. Member of International Association for Study of Popular Music (IASPM),</li> <li>2. Royal Music Association (RMA) Manchester, UK</li> <li>3. German Studies Association (GSA)</li> </ol> <p> <a href="https://bkshib.co.in/category/media-coverage/">https://bkshib.co.in/category/media-coverage/</a>  <a href="https://bkshib.co.in/publication-discography/">https://bkshib.co.in/publication-discography/</a>  <a href="https://www.youtube.com/watch?v=QwWnmI_kois">https://www.youtube.com/watch?v=QwWnmI_kois</a>  <a href="http://www.integritypublishing.co.uk/">http://www.integritypublishing.co.uk/</a>  <a href="https://www.songtrust.com/">https://www.songtrust.com/</a> </p>
<b>Additional academic and administrative Responsibilities at Ghani khan Choudhury Institute of Engineering &amp; Technology (GKCIET)</b>	<ol style="list-style-type: none"> <li>1. Liaison officer, SC/ST Cell (since 06.02.2016) Memo No. GKCIET/1133 dated: 06.02.2016 Renewed by Memo No: GKCIET /5293 Dated:17.04.2020</li> <li>2. Training &amp; Placement Officer, from 20.04.2017 (Memo No. GKCIET/17, Dated: 20.04.2017 to 03.09.2019 (Memo No. GKCIET/3999 dated : 03.09.2019)</li> <li>3. Cheque Signatory Authority from 14.08.2017 (Memo No. GKCIET/108 dated: 14.08.2017) to 06.03.2022 (Memo No. GKCIET/7859, Dated:07.03.2022)</li> <li>4. Chairman, Library Advisory Committee from 30.08.2017 (Memo No. GKCIET/146 Dated: 30.08.2017) to 31.12.2020 as per Memo number : GKCIET/5908, Dated: 28.12.2020</li> <li>5. Social Media Operator of the institute since 05.04.2018 (Memo No. GKCIET/818 dated: 05.04.2018)</li> <li>6. Member Secretary, Cultural Committee, Memo No. GKCIET/1523 dated: 16.11.2018</li> <li>7. Convenor (Institution-Industry Cell), Memo No. GKCIET/1578 dated: 28.11.2018</li> <li>8. Head of the Department of General Science &amp; Humanities (GS&amp;HU) from 23.03.2019 (Memo No. GKCIET/3223 dated 23.03.2019) to 15.11.2019 (Memo No. GKCIET/4496, dated:15.11.2019)</li> <li>9. Chairman (Non Formal), Annual Stock Verification Committee, Memo. No. GKCIET/3403, Dated: 06.05.2019</li> <li>10. Convener, Cultural Fest Committee 2020, Memo No. 4455, Dated: 07.11.2019</li> <li>11. Convener of Photography Club. Memo No. GKCIET/4688 dated: 01.01.2020</li> <li>12. Remained Director In-Charge (whenever required as per approval of the Director). For example order Memo No: CKCIET/5075 dated: 27.01.2020</li> </ol>

	13. Head of the Department (HoD) of Humanities and Social Sciences from 01.01.2021, Memo number GKCIET/5912, dated 29.12.2020. Renewed on 19.04.2022 as per Memo No. GKCIET/8123 dated 19.04.2022 14. Member of the Recruitment process of the institute against the advertisement No.01/2021 as per memo No. GKCIET/6474. Dated: 19.08.2021 15. Member of Departmental Promotion Committee (DPC) as per Memo No. GKCIET/7859, Dated: 07.03.2022 16. Member of the Space Allotment Committee (SAC) at institute, as per Memo No. GKCIET/7983, dated: 28.03.2022
Subjects taught	English to B.Tech. students, Communication Skills English to Diploma students

**Miss. Priyanka Sahu**  
**Assistant Professor**

Humanities and Social Science

Mobile Number: 6301716945

**Email:** [priyanka@gkciet.ac.in](mailto:priyanka@gkciet.ac.in)

**Area of Interest:** Open Macro Monetary Economics, Econometrics and Labour Economics



**Brief Bio-Note:**

Miss. Priyanka Sahu is an Assistant Professor of Economics in the Department of Humanities and Social Sciences, Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET), Malda, West Bengal. She has received Bachelor's Degree in Economics from St. Xavier's College Ranchi, Master's degree in Applied Economics from Pondicherry Central University and her M.Phil. and PhD in Economics from the University of Hyderabad. She has qualified NET and JRF in Economics. She has teaching experience for 3 years at GKCIET and she was a full-time research scholar for 3 years in the University of Hyderabad.

**Academic/ Teaching engagement at GKCIET (December 2021 to March 2022)**

Miss. Priyanka Sahu has been assigned the following subject in B.Tech. & Diploma courses:

**A. In B.Tech Courses:**

1. Course name: Principles of Management (Corse Code: HM-FT 601) for Food Processing Technology 6<sup>th</sup> semester
2. Course name: Professional ethics and IPR (Corse Code: HU-FT 401) for Food Processing Technology 4<sup>th</sup> semester.
3. Economics for Engineers (Corse Code: HM-601) Electrical Engineering 6th Semester

**B. In Diploma Courses:**

1. Course name: Industrial Management for Computer Science and Technology (CST) 6<sup>th</sup> semester.
- Besides these, Miss. Priyanka Sahu has also performed invigilation duties in different examinations in the institute.

### Journal Publications (April 2021-March 2022):

1. **Sahu, P.** (2021). A Study on the Dynamic Behaviour of Headline versus Core Inflation: Evidence from India. *Global Business Review*, 22(6), 1574-1593.

### Book Chapter:

- Sharma, N. K., & **Sahu, P.** (2022). Understanding the Performance of Core Inflation in India. In *Studies in International Economics and Finance* (pp. 117-144). Springer, Singapore.
- **Sahu, P.**, Elezue, C. J., & Kushawaha, R. (2022). An Analysis of Consumer Expectations, Nature and Economic Implications of Smart Banking System in India. In *Internet of Things and Its Applications* (pp. 271-279). Springer, Cham.

### Participation and Paper Presentation in the Conferences

- **5th Annual Conference, 2021, Telangana Economic Association**, Paper Entitled: A History of Methodological Perspective of Behavioral Economics" (Co-author).

### Special Award Winner:

- **Prof. D.R. Gadgil Memorial Prize for Best Paper** entitled "Inflation Dynamics and Impact of Demand and Supply Shocks; Evidence from India" published in *Artha Vijnana* (Below 40 years) Gokhale Institute of Politics and Economics, Pune, 2021.
- **Best Paper Award** entitled "A History of Methodological Perspective of Behavioral Economics" 5th Annual Conference, Telangana Economic Association, 2021.

### Short term courses/ Workshop attended

- QIP Short Term Course on Principles of Pricing, IIT Kanpur.
- Online Universal Human Values (UHV) Refresher Course, All India Council for Technical Education (AICTE).
- NITTTR examination completed

## Ms. Chhandita Das

Assistant Professor of English,

Department of Humanities and Social Sciences, GKCIET

Email: chhandita@gkciet.ac.in

Contact Number: 9609275278

ORCID: 0000-0002-8043-7143

Scopus Author ID: 57214600781



**Areas of Interests:** English Literature, Spatial Literary Studies, Women's Writing

**Brief Bio-note:** Chhandita Das is an Assistant Professor in the Department of Humanities and Social Sciences, Ghani Khan Choudhury Institute of Engineering & Technology, India. She is also a doctoral candidate in the Department of Humanities and Social Sciences, Indian Institute of Technology Patna, India. She has 2 years 11 months' professional experience as Teaching Assistant at IIT Patna. For her PhD dissertation, she is working broadly on socio-spatial reflections of/on Allahabad City through the writings of Neelum Saran Gour. It is an interdisciplinary work which intends to look at Neelum Saran Gaur's writing within the framework of spatial literary studies and deciphering 'place' as an important marker in negotiating with her creative spaces. She has 16 journal publications in reputed journals like *GeoHumanities* (Taylor and Francis), *Indian Journal of Public Administration* (Sage), *English: Journal of the English Association* (Oxford Academic), *Indian Literature* (Sahitya Akademi), *Open Cultural Studies* (De Gruyter), *Economic and Political*

Weekly, etc. She has presented 8 conference papers in the international platforms like PAMLA, NeMLA, etc. She is the life member of Pacific Ancient and Modern Language Association (PAMLA) and Indian Association for Commonwealth Literature and Language Studies i.e., IACLALS (Officially recognized as Indian Chapter of the International ACLALS). She has 4 months of teaching experience at GKCIET.

**Participation in Faculty Development Program i.e., FDP (December 2021-March 2022):**

1. Chhandita Das has participated and successfully completed the 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 31st January, 2022 to 4th February, 2022.

**Teaching/Academic Engagements at GKCIET (December 2021-March 2022):**

- Chhandita Das has taught the following credit courses:
  - A. HM-HU291 - Language Laboratory (BTech 2<sup>nd</sup> sem, EE, FPT & ME)
  - B. HS101 - Communication Skills in English (Diploma 1<sup>st</sup> sem, EE, FPT & CE)
  - C. HS105 - Communication Skills in English - Lab (Diploma 1<sup>st</sup> sem, CST, ME, EE, FPT & CE)
- Chhandita Das has done various invigilation duties (e.g., 5<sup>th</sup> sem Diploma external exam, etc.).

**Administrative and other Engagements at GKCIET (December 2021-March 2022):**

- Chhandita Das is a member of ICC (Memo No. GKCIET/7615, dated 18/2/2022).
- Chhandita Das is the convener of Canteen area Covid-19 Monitoring Committee at GKCIET (Memo No. GKCIET/7544, dated. 3/2/2022).
- Chhandita Das has been in the active coordination and organization of the program on “Maintenance of Safe Working Environment for Female Employees at Workplace” at GKCIET (Memo No. GKCIET/7987, dated 28/3/2022). She has also done anchoring in the same program.
- Chhandita Das has done anchoring in the program of ‘Women’s Day 2022’ organized by GKCIET. (Memo No. GKCIET/7860, dated 8/3/2022)
- Chhandita Das has also done anchoring in the cultural program of “Matribhasha Diwas 2022” at GKCIET.

**Journal Publications (December 2021-March 2022):**

1. **Chhandita Das**, and Priyanka Tripathi. “Exploring the Margins of Kotha Culture: Reconstructing a Courtesan’s life in Neelum Saran Gour’s *Requiem in Raga Janki*.” *CLCWeb: Comparative Literature and Culture*, Vol. 23, No. 4 (2021): <<https://doi.org/10.7771/1481-4374.3669>> (Purdue University Press) (Scopus indexed)
2. **Chhandita Das**, and Priyanka Tripathi. “Curating Cartographic Modernity: Politics and Aesthetics”. *City: Analysis of Urban Change, Theory, Action*, Vo. 26, No. 1 (2022). <https://doi.org/10.1080/13604813.2022.2029030> (Taylor and Francis)

**Conference Paper Presentation/ Webinar Participation (December 2021-March 2022):**

1. **Chhandita Das** has presented a paper entitled “Mapping Heterotopic Gendered Geography in Rijula Das’s *A Death in Shonagachhi*”. In the International Conference on “Cartographies of Gender Based Violence: Literary Reflections from South Asia and Beyond” organised by Department of Humanities and Social Sciences, Indian Institute of Technology Patna (India) in association with Shastri Indo-Canadian Institute and St. Mary’s University, Halifax (Canada) from 12<sup>th</sup>-13<sup>th</sup> March 2022.
2. **Chhandita Das** has participated in the webinar “Empowering Girl Child in Education, Health & Hygiene, Marriage, Empowerment, Gender Equality” organized by Ghani Khan Choudhury Institute of Engineering & Technology on 24<sup>th</sup> January 2022.

**Chairing Session in Conference (December 2021-March 2022):**

1. **Chhandita Das** has chaired a session in the International Conference on “Cartographies of Gender Based Violence: Literary Reflections from South Asia and Beyond” organised by Department of Humanities and Social Sciences, Indian Institute of Technology Patna (India) in association with Shastri Indo-Canadian Institute and St. Mary’s University, Halifax (Canada) from 12th-13th March 20

**MR. ANIRBAN SAHA**

**Assistant Professor of Sociology**

Department of Humanities and Social Sciences

Mobile Number: 9749038557

Email Id: [anirban@gkciet.ac.in](mailto:anirban@gkciet.ac.in)

**Area of Interest:** Food and Cultural Sociology, Economic Anthropology



**Brief Bio-Note:**

Mr. Anirban Saha working as an Assistant Professor of Sociology in the Department of Humanities and Social Sciences, Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET), Malda, West Bengal. He has completed his M.A. in Sociology from the University of North Bengal, Darjeeling and Pursuing his PhD in the Department of Sociology in Presidency University, Kolkata. He was availing JRF & SRF from the University Grants Commission (UGC). He has 7 years of teaching experience at Kaliachak College and 4 months at GKCIET.

**Attended Faculty Development Programme:**

Mr. Anirban Saha has Participated and successfully completed the 5-day online FDP on the theme “**Inculcating Universal Human Values in Technical Education**” organized by the All-India Council for Technical Education (AICTE) from 3<sup>rd</sup> January 2022 to 7<sup>th</sup> January 2022.

**Academic/ Teaching engagement at GKCIET (December 2021 to March 2022)**

Mr. Anirban Saha has been assigned with the following subject in B.Tech. & Diploma courses:

**C. In B.Tech Courses:**

4. Course name: Constitution of India (Course Code: MC 601) for Mechanical Engineering 6<sup>th</sup> semester
5. Course name: Value & ethics in Profession (Course Code: HM-EE 401) for Electrical Engineering 4<sup>th</sup> semester.
6. Course name: Essence of Indian Knowledge Tradition (Course Code: MC ME501) for Mechanical Engineering 5<sup>th</sup> semester

**D. In Diploma Courses:**

1. Course name: Industrial Management (Course code: EE/S6/IM) for Electrical Engineering 6<sup>th</sup> semester.
  2. Course name: Industrial Management for Computer Science and Technology (CST) 6<sup>th</sup> semester.
- Besides these, Mr. Anirban Saha has also performed invigilation duties in different examinations in the institute.

**Administrative duties:**

- Mr. Anirban Saha is a co-opted member of the photography club in GKCIET.



## ANNUAL REPORT FOR THE YEAR 2021-22

### NON FORMAL SECTION

#### ANNUAL REPORT OF NON FORMAL SECTION FOR THE YEAR 2021-22.

##### 1. Faculty:

SL NO.	NAME	DESIGNATION	QUALIFICATION
1	TRIDIB RANJAN DAS	SR.TRAINER	IN-CHARGE NON FORMAL, DIPLOMA, B.TECH
2	MD JIGAR ALI	SR.TRAINER	B.Sc(Bio), DIPLOMA ,B.TECH
3	AMIUNGSHU KARMAKAR	SR.TRAINER	B.TECH
4	NIKHIL DEO	SR.TRAINER	M.TECH
5	DHAJU MOHAMMAD	TRAINER	DIPLOMA
6	SANKAR MUKHERJEE	TRAINER	DIPLOMA
7	SIRAJ UD DOULAH	TRAINER	B.TECH
8	MINTU SINHA	TRAINER	DIPLOMA
9	ABHINAV KUMAR	TRAINER	B.TECH
10	PRANAB ROY	TRAINER	DIPLOMA
11	RAKTIM ROY	TRAINER	DIPLOMA ,B.TECH
12	MAHAFIZUR RAHAMAN	TRAINER	B.TECH
13	DEBADRITA ROY	TRAINER	B.TECH, M.TECH
14	PRANAB MANDAL	TRAINER	B.TECH
15	HASIBUR RAHAMAN	TRAINER	B.TECH, M.TECH & P.HD
16	MOJAHADUL ISLAM MALLICK	TRAINER	DIPLOMA
17	SILADITYA MONDAL	TRAINER	M.TECH

1. **Other Training / Skill Programs offered by GKCIET, Malda:**
2. **Other Training / Skill Programs offered by GKCIET, Malda:**
3. i) The Non Formal section and Electrical Engineering Department of GKCIET had offered the 'BSF Employee Training on Electrical Practices and Maintenance' programs under the scheme of short term TVET program are as follows:
4. The classes were done on a regular basis from 10 am to 05 pm. Detail information is given below in a table. 5th batch of BSF trainees training program was started from 9th February, 2021 and end on 30th April '2021.

Batch	Staring Date	Duration	Number of Participants	Place of Field visit
1 <sup>st</sup> Batch	23 <sup>rd</sup> January, 2018	03 Months	15	Muchia
2 <sup>nd</sup> Batch	15 <sup>th</sup> May , 2018	03 Months	20	Kanchantar
3 <sup>rd</sup> Batch	07 <sup>th</sup> January, 2019	03 Months	20	Kanchantar
4 <sup>th</sup> Batch	6 <sup>th</sup> January, 2020	03 Months	19	Not Possible due to Pandemic Situation.
5 <sup>th</sup> Batch	8 <sup>th</sup> February, 2021	03 Months	19	Not Possible due to Pandemic Situation.

- i) Non Formal Non Formal section of GKCIET has received the Approval of Extension of SKP course for the AY2021-22.
- ii) Non Formal Section of GKCIET has received the Approval of Training Partner under Utkarsha Bangla for the below courses



Sl. No.	Sector Name(Sector Code)	Course Name(Course Code)
1	CONSTRUCTION(CON)	HELPER ELECTRICIAN(CON/Q0601)
2	AUTOMOTIVE(ASC)	WELDING TECHNICIAN LEVEL 3(ASC/Q3102)
3	ELECTRONICS & HARDWARE(ELE)	FIELD TECHNICIAN-NETWORKING AND STORAGE(ELE/Q4606)
4	FOOD PROCESSING(FIC)	MULTI SKILL TECHNICIAN (FOOD PROCESSING) (FIC/Q9007)

GKCIET also take initiative to implement the short term courses under Skill India Scheme at Institute premises.



**Non-formal, Lab of Food Technology**



**Non-formal, Lab of Computer Sc. Engineering**

# STUDENT WELFARE RELATED ACTIVITIES

# ANNUAL REPORT FOR THE YEAR 2021-22

## STUDENT WELFARE RELATED ACTIVITIES

Student welfare related activities are conducted to enhance the overall personality development of students in all spheres of life, motivate students for participation in various activities, competitions at university, state and national level and to provide various schemes for development and betterment of students. Under the kind advise of Hon'ble Director, GKCIET, Dean student Welfare initiated and implemented the following activities with the counsel of various committees formed for smooth continuation of relevant endeavors of the students in 2021-22.

### Scholarship of students

For monitoring and verification of the scholarship application of the students for various scholarship schemes a committee was formed in September, 2019 consisting of Dean student Welfare, Academic Coordinator Diploma, Academic Coordinator Degree, IT system Manager and office assistant. The committee functioned for the purpose under the kind guidance of honorable Director, GKCIET in 2021-22 to forward 207 nos of applications to various Government and Private scholarship providing organisations. The following is the consolidated statement for the same:

Sl. No.	Title of the Scholarship	No. of Approval
1	Aikyashree(For Minority)	26
2	AIKYASHREE MCM	12
3	AIKYASHREE SVMCM	3
4	AIKYASHREE SVMCM (Renewal)	1
5	BSF SERVICING PERSONNEL FOR FINANCIAL ASSISTANCE	1
6	EDUCATIONAL ASSISTANCE TO THE CHILDREN	1
7	Hon'ble Chief Minister Relief Fund(General)	4
8	Kanyashree(Women Only)	2
9	NSP(General)	4
10	Oasis(For Backward Class)	79
11	Pragati(Women Only)	13
12	JnanaBhumi(AP)Post matric/ Other State	1
13	Samajik Surakha Yoyona(Children of unorganised Labours)	4
14	Scholarship of wards of BSF Serving(Children of BSF Emp)	1
15	AAI SPORTS	1
16	AICTE SAKSHAM	1
17	SVMCM (V3.0) (For meritorious students)	45
18	ONGC Foundation Scholarship	1
19	SVMCM (V3.0)(For meritorious students Renewal)	7
<b>Total</b>		<b>207</b>

Committees formed for organizing Festivals

For the organization of sports festival, cultural festival and tech festivals three committees were formed under the kind advice of Hon'ble Director, GKCIET. These committees was assigned to plan and organize festivals throughout the year for holistic development of the students with prior consultation and approval of the competent authority. A brief description of the committees is as under:

Cultural Committee:

**A. Employee Members:**

01.	Mr. Dharmeswar Dash	Asst. Professor (ME)	Chairman
02.	Mr. Shib Shankar Chowdhury	Asst. Professor (GS&HU)	Convenor
03.	Ms. Smita Anand	Lecturer (EE)	Joint Convenor
04.	Mr. Trymbak Kumar Ojha	Lecturer (CSE)	Treasurer
05.	Mr. Sumanta Kumar Guin	Technical Assistan (FPT)	Joint Treasure
06.	Mr. Goutam Kumar Ghorai	Asst. Professor (EE)	Member
07.	Mr. Tridib Ranjan Das	Sr. Trainer (ME-Non Formal)	Member
08.	Mr. Mojahadul Islam Mallick	Trainer (FT-Non Formal)	Member
09.	Mr. Sankar Mukherjee	Trainer (EE- Non Formal)	Member
10.	Mr. Raktim Roy	Trainer (ME- Non Formal)	Member
11.	Mr. Soumodip Chatterjee	Technical Assistant (ME)	Member
12.	Mr. Kajal Kumar Mandal	Je (Electrical)	Member
13.	Mr. Biman Roy	LDC Cum Typist	Member
14.	Mr. Anirban Misra	LDC Cum Typist	Member
15.	Md. Masud Karim	LDC Cum Typist	Member
16.	Ms. Antara Chowdhury	LDC Cum Typist	Member
17.	Ms. Cinchona Kumar	Multi Tasking Staff	Member
18.	Md. Ikbali Hossain	Multi Tasking Staff	Member
19.	Mr. Deepjyoti Roy	Multi Tasking Staff	Member
20.	Mr. Probir Kumar Mandal	Multi Tasking Staff	Member

**Student Members:**

01.	Phularenu Das	B.Tech. (EE), 2nd Year	Member
02.	Anubhab Paul	B.Tech. (EE), 2nd Year	Member
03.	Bhawana	Diploma (EE), 2nd Year	Member
04.	Sahin Alam	Diploma (ME), 2nd Year	Member
05.	Adarsh Kumar Singh	B.Tech. (ME), 1st Year	Member
06.	Priyanshi Gupta	B.Tech. (EE), 1st Year	Member
07.	Asha Laha	Diploma (CST), 1st Year	Member
08.	Mrinal Naiya	Diploma (CST), 1st Year	Member

**Sports Committee:****A. EmployeeMembers:**

01.	Dr. Sandip Chanda	Associate Professor (EE)	Chairman
02.	Dr. Tanmoy Sarkar	Asst. Professor (ME)	Convenor
03.	Mr. Showmik Bhowmik	Asst. Professor (CSE)	Joint Convenor
04.	Mr. Mahafizur Rahaman	Trainer (SE)	Treasurer
05.	Mr. Sudipta Ghosh	Sr. Technical Assistant (FPT)	Joint Treasure
06.	Mr. Deepanjan Das	Asst. Professor (GS&H)	Member
07.	Md. Jigar Ali	Sr. Trainer (FPT-Non Formal)	Member
08.	Mr. Tridib Ranjan Das	Sr. Trainer (ME-Non Formal)	Member
09.	Mr. Mintu Sinha	Trainer (FPT-Non Formal)	Member
10.	Mr. Hasibur Rahaman	Trainer (ME-Non Formal)	Member
11.	Mr. Pranab Mandal	Trainer (EE-Non Formal)	Member
12.	Mr. Pranab Roy	Trainer (FPT-Non Formal)	Member
13.	Mr. Dhaju Mohamad	Trainer (EE-Non Formal)	Member
14.	Mr. Kajal Kumar Mandal	JE (Electrical)	Member
15.	Mr. Debasish Das	JE (Civil)	Member
16.	Mr. Sumanta Kumar Guin	Tech. Assistant (FPT-Non Formal)	Member
17.	Mr. Priyom Sen	Tech. Assistant (ME-Non Formal)	Member
18.	Mr. Saumyajit Das	UDC/Cashier	Member
19.	Mr. Arnirban Misra	LDC Cum Typist	Member
20.	Md. Raju Mian	Multi Tasking Staff	Member
21.	Ms. Kakali Das Mandal	Multi Tasking Staff	Member
22.	Ms. Pampa Pramanik (Roy)	Multi Tasking Staff	Member

**Student Members:**

01.	Shouvik Giri	B-Tech (FT), 2nd Year	Member
02.	Swatilekha Maity	B-Tech (FT), 2nd Year	Member
03.	Abhisek Sarkar	Diploma (EE), 2nd Year	Member
04.	Aman Kumar	Diploma (EE), 2nd Year	Member
05.	Shouvik Manna	B-Tech (ME), 1st Year	Member
06.	Akshay Khan	B-Tech (FT), 1st Year	Member
07.	Sharmistha Sen	Diploma (CE), 1st Year	Member
08.	Subhendu Sarkar	Diploma (CST), 1st Year	Member

**Tech Fest:****Employee Members:**

01.	Dr. Debrup Hui	Associate Professor (GS&H)	Chairman
02.	Ms. Debadrita Roy	Trainer (CSE- Non Formal)	Convenor
03.	Dr. Mudasir Ahmed Malik	Asst. Professor (FPT)	Joint Convenor
04.	Mr. Siraj Ud Dulah	Trainer (CSE- Non Formal)	Treasurer
05.	Mr. Tamal Kanti Sinha	LDC Cum Typist	Joint Treasurer
06.	Mr. Habib Masum	Asst. Professor (ME)	Member
07.	Mr. Tapash Kumar Das	Asst. Professor (EE)	Member
08.	Mr. Subrata Roy	Asst. Professor (CSE)	Member
09.	Mr. Abhijit Mandal	Asst. Professor (GS&H)	Member
10.	Mr. Haradhan Sarkar	Asst. Professor (CE)	Member
11.	Ms. Priyanka Sahu	Asst. Professor (GS&H)	Member
12.	Mr. Gopal Bandyopadhyay	System Manager	Member
13.	Mr. Amiungshu Karmakar	Sr. Trainer (EE - Non Formal)	Member
14.	Mr. Nikhil Deo	Sr. Trainer (SCE/EC - Non Formal)	Member
15.	Mr. Siladitya Mandal	Trainer (ME- Non Formal)	Member
16.	Mr. Kajal Kumar Mandal	JE (Electrical)	Member
17.	Mr. Debasish Das	JE (Civil)	Member
18.	Mr. Saumyajit Das	UDC/ Cashier	Member
19.	Mr. Kankan Mandal	Multi Tasking Staff	Member

**Student Members:**

01.	Purnendu Barui	B-Tech (EE), 2nd Year	Member
02.	Harendra Nath Mahato	B-Tech (ME), 2nd Year	Member
03.	Sibasish Ghosh	Diploma (EE), 2nd Year	Member
04.	Alamgir Alam	Diploma (CE), 2nd Year	Member
05.	Aman Sharma	B-Tech (ME), 1st Year	Member
06.	Nairita Das	B-Tech (EE), 1st Year	Member
07.	Rishi Raj	Diploma (CST), 1st Year	Member
08.	Nibha	Diploma (EE), 1st Year	Member



### **Renovation of Play grounds of GKCIET**

To promote sports activities within the campus, Hon'ble Director GKCIET advised Dean student welfare to form a committee for the renovation of the fields of GKCIET. Hence a committee was formed in April, 2021 to renovate the fields consisting of office bearers of sports committee and JE Civil. Under this work the play field within the campus was leveled, a cricket pitch was prepared along with Barposts for the football field. The free area beside central workshop was converted to two badminton courts with posts. The volleyball court was prepared beside canteen with standard measurements.

### **Formation of committees for student activity clubs**

The following activity clubs were formed under the kind advice of Hon'ble Director of the institute to accelerate the curricular and extracurricular activities of the students in 2019-20. For each club one faculty convenor was assigned. The individual convenors were advised by the chairman of the committee to initiate and form the respective Clubs including the interested students and involving interested Faculty/Officers/Staff members of the Institute. Planning different activities of each Club and their execution shall be with prior discussion and approval of the competent authority.

Sl. No.	Name of the Employee	Designation	Role Assigned
01.	Dr. Nilkanta Barman	Associate Professor (ME)	Chairman
02.	Dr. Debrup Hui	Associate Professor (Gs. & Hu.)	Convenor-Space Club
03.	Dr. Sandip Chanda	Associate Professor (EE)	Convenor-Fitness Club
04.	Dr. Koushik Paul	Associate Professor (CE)	Convenor- Elocution and Debate Club
05.	Shib Shankar Chowdhury	Assistant Professor (Gs. & Hu.)	Convenor- Photography Club
06.	Habib Masum	Assistant Professor (ME)	Convenor-Robotics Club
07.	Dr. Soumi Bhattacharyya	Assistant Professor (CE)	Convenor- Drama & Dance Club
08.	Dr. Sudip Kr. Das	Assistant Professor (FPT)	Convenors- Fine Arts Club
09.	Tryambak Kr. Ojha	Lecturer (CSE)	

## **Fitness Club**

The Prime Minister of India launched the Fit India Movement on August 29, 2019. He urged the people of the country to make fitness their life style. Today lifestyle diseases are on a rise in India affecting even the young. Cases of diabetes and hypertension are on the rise and even common among children in India. But small lifestyle changes can prevent these lifestyle diseases and help people to live a healthy and prosperous life. 'Fit India Movement' is an effort to bring these small lifestyle changes.

### **Vision:**

All students and staff of Higher Education Institutions to have physical fitness, mental fitness, along with social, emotional & intellectual well-being.

### **Mission:**

To inculcate the habit amongst students and staff of HEIs to lead a healthy life by adopting a healthy lifestyle.

### **Goal:**

Atleast 50%, of higher educational institutions should have health promoting activities in their Curricular. Extra-Curricular activities by the end of year. Further, the goal is to achieve 70% and 100% of higher educational institutions to have health promoting activities in their Curricular, Extra Curricular activities by the end of 2nd year and 3rd year respectively.

### **Objectives:**

Sensitizing students and creating awareness amongst them to remain fit and adopt ways to remain fit including healthy food habits. HEIs to have fitness programmes as Co-Curricular or Extra Curricular activities.

To inculcate the culture of games and sports in all Higher Educational Systems and to Organize and participate in sports events and tournaments.

Each HEIs to have adequate facilities for at least some sports and games. Each HEIs to have primary health care / wellness center.

### **Institutions will undertake activities throughout the year which would fall broadly into the following categories:**

Activities that create awareness and sensitize students, staff and faculty to adopt healthy life options viz. physical activity, food habits, lifestyle etc.

Activities to promote, foster and support sporting acumen. Organizing sporting events. Intra Institutions

/ Inter Institutions and at national sports events.

Activities to supporting mental health, stress management etc.

Action Plan for Ghani Khan Choudhury Institute of Engineering and Technology for Fit India Campaign

Month	Activity	Action Plan
January 2020 Theme of the month: Physical Activity Key ingredients of fitness	Preparatory Activity	Formation of Fitness club. Formation of Action Plan 3. Uploading on Institute website. Academic calendar with 45 minutes of fitness hour. Preparation of Sports meet.
	Meeting of fitness club	The club will prepare the yearly action plan and an academic calendar considering 45 minutes of fitness hour in every month.

February 2020 Theme of the month: Healthy Diet for healthy life	Fitness Campaign Activity and fitness sport in gactivity	Banning the junk food sale within the campus premises. The Club will visit all the food stalls and canteen inside the campus and will ensure the same. The fitness club will take an initiative to organize the Sports meet.
March 2020 Theme of the month: Hygiene and Cleanliness	Fitness Campaign Activity	The fitness club will prepare placards on hygiene and Cleanliness and mount the same in different places of the campus.
April 2020 Theme of the month: The Perils of smoking Drug and Alcohol	Anti-Narcotics campaign	The fitness club will organize a seminar on the perils of smoking, Drug and Alcohol.
May 2020 Theme of the month: Sleep Well to stay fit	Health Check Up	The fitness club will organize a health check-up camp for faculty, staff and students.
June 2020 Theme of the month: Yoga and Meditation : Looking Inwards of Mental Peace	Fitness Regular activity	The fitness Club will be organizing expert sessions on Yoga and Meditation.
July 2020 Theme of the month: Life Style Disease	Fitness Regular activity	The fitness club will be organizing a poster competition on Life Style Disease
August 2020 Theme of the month: Stay healthy	Fitness Regular activity	The fitness club will be organising a seminar on the theme Stay Healthy

September 2020 Theme of the month: Stay Fit	Fitness Regular activity	The fitness club will be organising a 45 minute session on free hand exercise.
October 2020 Theme of the month: Cleanliness is godliness	Fitness Regular activity	A campus cleaning activity will be organized by the fitness club
November 2020 Theme of the Month : Sports for fitness	Fitness Regular activity	Fitness club will be organizing a sports activity for faculty, staff and students.
December 2020 Theme of the month: Eat light be light	Fitness Regular activity	Fitness club will be organizing an expert session of Obesity for faculty, staff and students.
January 2020 Theme of the month: Physical Activity Key ingredients of fitness	Preparatory Activity	Formation of Fitness club. Formation of Action Plan 3. Uploading on Institute website. Academic calendar with 45 minutes of fitness hour. Preparation of Sports meet.

Fitness club of Ghani Khan Choudhury Institute of Engineering and Technology

**Employee members:**

Dr. Sandip Chanda Dean, student welfare

Dr. Tanmoy Sarkar, Assistant Professor, ME

Dr. Showmik Bhowmik Assistant Professor

Mr. Sudipta Ghosh Sr. Technical Assistant, FPT

Mr. Priyom Sen Technical Assistant, ME

Mr. Dhaju Mohamad Trainer, EE

**Student Members:**

Shouvik Giri B.Tech, FT, 2nd year

Swatilekha Maity B.Tech, FT, 2nd year

Shouvik Manna B.Tech, ME, 1st Year

Abhisek Sarkar Diploma, EE, 2nd year

# ANNUAL REPORTS OF DIFFERENT SECTIONS, CLUBS, COMMITTEE ETC.



## **Debate and Elocution Club**

Elocution is the way or the manner of speaking — it is the skill of delivering the clear and expressive speech.

Elocution focuses on grammar, style of speaking, tone, proper use of gestures, stand and dress. It is an art that can help you to stand out in the crowd and draw attention. Good elocutionists focus on their gestures, vocabulary, emphasis, voice modulation, oratory skill, diction, accent and posture to increase the effectiveness of the speech to describe the topics.

In an Elocution Competition, participants speak about the same topic and the best will be selected as the winner of the competition. Debate is a process that involves formal discussion on a particular topic. In a debate, opposing arguments are put forward to argue for opposing viewpoints. A debate competition often involves a moderator and an audience in addition to the debate participants. Through these activities, students are expected to:

Cultivate their communication skills, by analysing and composing views and arguments, conversing, disagreeing and resolving conflicts;

Learn to collaborate, working in groups, sharing information and ideas; cultivate reasoning skills and scientific thinking;

Imbibe leadership and oratory skills and prepare them to become future community leaders.

Ghani Khan Choudhury Institute of Engineering and Technology (GKCiet), Malda has started an Elocution and Debate Club with Dr. Koushik Paul (Associate Professor & HOD, Civil Engineering Department; email: koushik@gkciet.ac.in) as the Convener and would welcome all interested students to enroll as its members. We would like our Elocution and Debate Club members to participate in intra- and inter-college competitions and would encourage them in all possible ways.

## **Fine Arts Club**

A Fine Arts Club has been constituted by the competent authority of Ghani Khan Choudhury Institute of Engineering and Technology, Malda for creating an art form practicing environment in this Institute, mainly to nurture its aesthetic value and its beauty. Major objectives and goals of this club are Enhance creativity of GKCiet family Cultivate new ideas and knowledge Promoting thinking in different way Elevate concentration, perfection and patience of students, faculty, staff and others employees of this Institute. Accordingly, following key art form activities have been considered at present for performing/ participating by all students' and employees.

All above information are uploaded / presented in Institute website to encourage all students and employees of the Institute to flourish their inherent creativities through their participation in any such art form in-house activities, or presenting their creativity in all intra- & inter-college competitions. To meet its goals, all students and employees of the Institute are requested to interact with following conveners of the Fine Arts Club to enroll as its member and participate in any of the above activities.



## LIBRARY SECTION

The Central Library of the Institute is accomplishing its shape very soon at main campus of the Institute, with its development since establishment of the Institute in 2010, in order to meet the academic and research needs of all students, research scholars and teachers of the Institute, and also for the nearby institutes.

This Central Library holds plenty of books mainly in humanities, management and social sciences, and basic & applied sciences along-with necessary branch-specific engineering books to all students of every diploma and undergraduate course offering by this Institute affiliated to the West Bengal State Council of Technical & Vocational Education and Skill Development, and MaulanaAbulKalam Azad University of Technology, respectively to fulfil basic need of academics.

A glimpse of department-wise available books is presented here:

Departments	Total No. of Titles	Total No. of Volumes
Applied Sciences & Humanities & Social Sciences	304	1876
	98*	1131*
Civil Engineering	380	1730
	172*	716*
Computer Science & Engineering	319	1720
	130*	658*
Electrical Engineering	425	2475
	112*	1053*
Food Processing Technology	291	1060
	106*	511*
Mechanical Engineering	417	3200
	120*	1600*
others	10	42
<i>Total</i>	2884	18832

- *Procurement is under process.*

A notable growth in the library facility is in full-swing after joining of the first regular Director of the Institute. The necessary and additional requirement of the library is being fulfilled in each of academic years by acquiring facilities (both physical & digital facilities) as per departmental as well as institutional demands, along with availing related books, journals and other necessary facilities for post graduate and research studies those are to be offered in this Institute in near future. Institute students and teachers are very keen in doing research and innovation in recent practical & emerging areas/development as per the local & global demands. In this view of development, NKN LAN/Wi-Fi connections @100Mbps have been established in the whole campus of this Institute (i.e., provided NKN LAN/Wi-Fi in library, staff & faculty, and laboratory computers) to access online academic & research related documentations. Further, this Institute subscribed digital journals and also the subscription of necessary digital journals is in progress. Details of available digital journals in our Institute are given as:

Name of the Online Journals	Area Covers
JOURNAL OF THE INSTITUTION OF ENGINEERS: <b>SERIES A</b> (IEI-Springer Journals)	<ul style="list-style-type: none"> <li>• <b>Civil Engineering</b></li> <li>• <b>Architectural Engineering</b></li> <li>• <b>Environmental Engineering</b></li> <li>• <b>Agricultural Engineering</b></li> </ul>
JOURNAL OF THE INSTITUTION OF ENGINEERS: <b>SERIES B</b> (IEI-Springer Journals)	<ul style="list-style-type: none"> <li>• <b>Electrical Engineering</b></li> <li>• <b>Electronics &amp; Telecommunication Engineering</b></li> <li>• <b>Computer Engineering</b></li> </ul>
JOURNAL OF THE INSTITUTION OF ENGINEERS: <b>SERIES C</b> (IEI-Springer Journals)	<ul style="list-style-type: none"> <li>• <b>Mechanical Engineering</b></li> <li>• <b>Aerospace Engineering</b></li> <li>• <b>Production Engineering</b></li> <li>• <b>Marine Engineering</b></li> </ul>
JOURNAL OF THE INSTITUTION OF ENGINEERS: <b>SERIES D</b> (IEI-Springer Journals)	<ul style="list-style-type: none"> <li>• <b>Metallurgical &amp; Materials Engineering</b></li> <li>• <b>Mining Engineering</b></li> </ul>
JOURNAL OF THE INSTITUTION OF ENGINEERS: <b>SERIES E</b> (IEI-Springer Journals)	<ul style="list-style-type: none"> <li>• <b>Chemical Engineering</b></li> <li>• <b>Textile Engineering</b></li> </ul>
IET DIGITAL LIBRARY COLLECTION INCLUDES 45+ JOURNALS, CONFERENCE PROCEEDINGS & E-BOOKS	<b>Under Progress</b>

(Dr. HasiburRahaman is the Nodal Person w.r.t. online access of IEI-Springer Journals)

The Institute is a member of National Digital Library of India (<https://ndl.iitkgp.ac.in/>) also. All students, staff and faculty members are able to access facilities under National Digital Library of India being one of its members.

#### **A brief of Available Library Services:**

- Bibliographic service
- Reference service
- Information service
- Reprographic facilities
- Internet facilities
- Online access to selected journals
- Database searching facilities
- Study and research support service
- Information hub for students, teachers & research scholars
- Journals of National and International repute
- Provision for accessing the rare books
- Lending facilities for books
- Display of information regarding arrival of books and journals
- Career guidance service
- Resource sharing/Inter-library loan
- Reading facilities to students and teachers
- User orientation
- Facilities for other colleges & research organizations
- Plagiarism checking up of theses/ dissertations /articles
- Journal contents service.

## Research and Development Cell

### About the Cell

Research and consultancy is an important activity of the Institute administered through Research and consultancy cell. The administrative aspects of sponsored research, industrial consultation, and faculty development program through short term course, seminar, and conference are taken care by the research and consultancy cell.

### Activities of Research and Consultancy cell

- Sponsored project (Government and Industrial)
- Consultancy projects
- MoU between premium institutes and industries
- Conferences, Short term courses, and training for faculties
- Hackathon
- ARIIA Ranking

[Home](#)

## ARIIA RANKING 2021



Institute of National  
Importance & Central  
Universities/CFTIs  
(Technical)



University & Deemed to  
be University (Govt. &  
Govt. Aided) (Technical)



University & Deemed to  
be University  
(Private/Self Financed)  
(Technical)



Colleges/Institutes  
(Govt. & Govt. Aided)  
(Technical)



Colleges/Institutes  
(Private / Self Financed)  
(Technical)



CFIs (Non-Technical) and  
General (Non-Technical)

### Institute of National Importance & Central Universities/CFTIs (Technical)

Ranked
Band-Excellent
Band-Performer
Band-Promising
Band-Beginner

### Band-Promising

Show 10 entries
Search:

InstituteID	InstituteName
ARI-U-0267	ATAL BIHARI VAJPAYEE INDIAN INSTITUTE OF INFORMATION TECHNOLOGY AND MANAGEMENT
ARI-U-0631	CENTRAL UNIVERSITY OF JAMMU
ARI-U-0372	CENTRAL UNIVERSITY OF PUNJAB
ARI-S-14559	GHANI KHAN CHOUDHURY INSTITUTE OF ENGINEERING & TECHNOLOGY, KOTWALI, MALDA
ARI-U-0593	GUJARAT FORENSIC SCIENCES UNIVERSITY
ARI-U-0863	INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN AND MANUFACTURING KURNOOL
ARI-U-0795	INDIAN INSTITUTE OF INFORMATION TECHNOLOGY GUWAHATI
ARI-U-0841	INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, NAGPUR
ARI-U-0272	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHOPAL
ARI-U-0255	INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY

**GKCIET ranked as Band-Promising in ARIIA RANKING 2021 Institute of National Importance & Central Universities/CFTIs (Technical)**

**Dean Research and Consultancy cell**

Dr Kshirod Kumar Dash

Associate Professor

Email: kshirod@gkciet.ac.in

Contact No: +91-7866931516

**Activities in details**

1. Sponsored Research is defined as those time bound research and development projects which are sponsored by National and International sponsoring agencies. Research and consultancy cell of GKCIET Malda looks after all the sponsored research activities of GKCIET starting from project submission, project management, recruitment of research personnel, interactions with the funding agency, protection of IPR and technology transfer.
2. Consultancy projects are undertaken by the institute from different industries, government and private organizations. This includes (i) Routine Testing, Certification and Calibration & (ii) Projects requiring the use of laboratory and other institute facilities. All the Consultancy Projects need to be registered with the R&C Cell. The R&C Cell acts as a facilitator between the industry and the Institute.
3. Research and consultancy cell assist the scientists, researchers and the faculty to update their knowledge to the recent developments in their area of specialisation through short term course, seminar, and conference.
4. Research and consultancy cell also plays a vital role in the initiation of new research initiatives of the Institute.

**Recognized PhD supervisors/co-supervisors of different Departments of the institute**

<b>Name of the Department</b>	<b>Name of the faculty</b>
Applied Science	Dr Debrup Hui
Civil Engineering	Dr. Koushik Paul Dr. Kiran Yarrakula Dr. Soumi Bhattacharyya
Electrical Engineering	Dr. Sandip Chanda
Food Technology	Dr. Kshirod Kumar Dash Dr. Sudip Kumar Das Dr. Mudasir Ahmad Malik
Mechanical Engineering	Dr. Nilkanta Barman

**Recognized mentors of different Departments of the institute:**

(As per the AICTE-NITTT Mentor Orientation Training Programme)

<b>Name of the Department</b>	<b>Name of the faculty</b>
Applied Science	Dr Debrup Hui
Civil Engineering	Dr. Koushik Paul Dr. Kiran Yarrakula
Electrical Engineering	Dr. Sandip Chanda
Food Technology	Dr. Kshirod Kumar Dash
Mechanical Engineering	Dr. Nilkanta Barman

# Training and Placement Office

Ghani Khan Choudhury Institute of Engineering and Technology

(A CFTI under Ministry of Education, Government of India)

Narayanpur, Malda, West Bengal-732141

Tel: +91-7866-931-505/509

Email: [tpo@gkci.ac.in](mailto:tpo@gkci.ac.in) ; Web: <https://www.gkci.ac.in/tpo>  
**Annual Report**  
**(2021-2022)**



The Training & Placement office of GKCIET works to help the student of the institute get Industrial training/internships, develop modern-day soft skills required to work in a multidisciplinary work environment in the Industry and also prepare for competitive exams.

The year 2021-22 has been a happening and crucial year of the institute as its first batch of regular Diploma students graduated in July 2021. In spite of being a pandemic hit year, GKCIET made good progress in terms of helping students get online and off-line internships, imparting soft skill training and also started inviting different companies to Campus recruitments.

## **ON-CAMPUS PLACEMENT DRIVES by**

1. Mando Automotive India Private Limited
2. Pie Infocomm Pvt. Ltd
3. L & T Power
4. ELEATION
5. LemonVB (an Indian Start-up recognized by government authorities, Ministry of Commerce & Industry, and MSME) for BE / B. Tech students.
6. Prograd (Thoughtworks (only for B. Tech female candidate) and Taylor and Francis)
7. Grefio (For Diploma Students).

## **TRAINING AND WORKSHOPS**

1. **Rubicon's "Lifeskills" Program**, supported by Barclays for the student of GKCIET from (16<sup>th</sup> February to 25<sup>th</sup> February 2022; Duration: 2 hours everyday).
2. **Online training On Communication And Soft Skills Development** organised by Training and placement office, GKCIET. (2 Days in a week; Duration: 2 hours each day).
3. **Three day workshop on Autocad and Solidworks** organised by TPO, GKCIET in association with Webflex Consultancy Service Private Limited (2<sup>nd</sup>, 3<sup>rd</sup> and 9<sup>th</sup> December 2021).



4. The online Interactive Session on the topic "**To create an awareness on National Apprenticeship Training Scheme (NATS), Govt. of India and related matters** organised by TPO FOR Final year Diploma and B. Tech students on June 3rd, 2021.

## **INDUSTRIAL VISIT**

In a mixed situation of a pandemic hit year with industries struggling with safety of employees and visitors, one big 3 day long Industrial Visit was organized.

1. Students of EE visited TLDP-IV, NHPC, Kalijhora on 20-22 Sep, 2021 for a 3 day long industrial visit.

## **INTERNSHIPS**

The institute encourage every student to go for Industrial internships and supports them in their search. The departments, faculties, and TPO work together so that every student get some exposure to real life industry scenario. Throughout the year, the TPO shared numerous internship/training opportunities with students. In the year 2021-21, students did hundreds of internships on both online and offline platforms.

**GHANI KHAN CHOUDHURY INSTITUTE OF ENGINEERING & TECHNOLOGY,  
MALDA**

**Annual Report of IT system and support Center (ITSSC) 2022**



**1. Campus Networking:**

- a. **Redesign of Campus Network:** Due to a shortfall of the proper infrastructure for the Active Network, a Passive Optical Network through Optical connectivity has been installed and configured to provide connectivity to different buildings, labs, and Offices. All the network has been logically separated through VLAN technology to manage the network properly and reduce network packet collision. CCTV and Other Devices are residing in the different networks for security and management purposes.
- b. **New LAN:** Implementation and extended 4 no of Departmental LAN connectivity.
- c. **Network Monitoring System (NMS)** has been installed and configured through SNMP and ICMP to view the connectivity Network devices.
- d. **NewFortigate firewall** has been installed and configured to facilitate VLAN, Firewalling between Networks, Routing, User Management, and aggregation of WAN networks etc.
- e. **Fortianalyser** has been configured and deployed in AWS cloud for storing Logs generated by the firewall

**2. Web Service:**

- a. Regular maintenance of Web Site for updating Notice, orders etc regularly.
- b. Necessary configuration and changes of Code have been done for the Website.
- c. Integration of Recruitment Portal with Website.
- d. Deployment: VPS deployment, Config Server Security & Firewall (csf), and Mod Security deployment for our new website.
- e. Deployment of SSL certificate for GKCIET website for this year.

**3. Software:**

- a. **Library software:** as per request a PC has been upgraded and configured to run Koha latest version. Barcode Reader also installed.
- b. **MIS Software for Terminals:** A MIS portal has been planned, developed, and deployed by undersigning, to upload all the computers, UPS, printers, and projectors details available in different departments/offices. Network and MAC address details also are uploaded through this portal. Barcode generation and printing can also be done through this portal. Barcode tag for individual Devices and generated and tagged on devices.
- c. **Recruitment Portal:** The recruitment portal has been designed, developed, and deployed to collect the online application. After several screenings, this portal has been published and successful process online applications for two recruitment drives. Necessary technical support has been provided to fix out technical issue raised by the applicant. Payment has been collected through an online payment gateway and verified each application's payment details. Sending admit card to each applicant through Email and planning for seat arrangement, gate entry, preparation of attendance, and photo verification sheets for the offline recruitment exam. Necessary technical support has been provided for processing admit cards for interviews and uploading results accordingly. Cloud service was rented and configured looking into the requirement of additional storage.

**4. Email service:**

Necessary technical support has been provided throughout the year for Email service and necessary technical support has been provided to integrate the service under the GKCIET domain.

**5. Computer Troubleshooting Service:**

Day to day Computer Troubleshooting Service had been provided in different offices and LABs throughout the year.

**6. Meeting:**

**Online Meeting:** Several conferences, webinar, BoG, and other important Meeting has been conducted through the GoToMeeting apps.

**Ministry Visit:** During the visit of Dr. Subhas Sarkar Hon'ble Minister of State for Education, Necessary arrangements for stage decoration, Live Streaming, Student Interaction through Online mood, etc. have been successfully organized.

**7. BAS maintenance service:**

Necessary technical support has been provided to continue BAS service for collecting employee attendances. Both devices are connected through our LAN with a data processing server for generating attendance reports.

**8. CCTV:** CCTV surveillance system has been installed in Admin Block, Main Gate Canteen, and C Block. A necessary configuration has been done to ingrate the CCTV Network with our LAN. Require technical work has been done to provide live streaming from different networks and monitoring device connectivity through NMS.

**9. Tender and CPPP Portal:** Necessary communication, configuration for publishing tender including critical tender evaluation process through Central Public Procurement Portal and GeM has been executed. BoQ-based bidding has been done in GeM Portal.

**10. Technical Committee:** Being a member of the Technical Committee, necessary coordination and technical evaluation have been executed to purchase items through GeM.

**11. Local Purchase Committee:** being a member of different local purchase committees necessary coordination and technical support has been given to purchase the different items for the institute and installed them accordingly.

**12. Digital certificates** have been created for CPPP and NAD cell.

**13. NAD Cell:** being a member of NAD cell necessary technical support and training has been conducted for other members of NAD cell.

**14. Scholarship:** Necessary support has been provided in to verify the Scholarship document submitted by students and assist Dean (SW) to process the scholarship accordingly.

**15. RTI:** Answered all RTI queriesfor this year and submitted the Annual Report accordingly. The annual report forthe last quarter is under preparation and will be submitted immediately.

**16. AICTE:** Being a Member AICTE committee, it has madethe necessary coordination and provided all technical support to process AICTE Approval process.

**17. Online Grievance:** Necessary coordination and technical support has been given to run Online Grievance Portal.

**18. Workshop and Training Programme:** Necessary technical support has been given to conduct different workshops and training programmes throughout the year.

**19. Covid:** being a member of Covid coordination committee, necessary support has been provided during the normalized pandemic situation. One AICTE Web application was hosted for sharing our resources during the pandemic situation. For accessing the portal necessary demo has been provided to faculty and staff for

**20. NIC- E-Office and Samarth ERP:** Necessary commutation is going on for getting NIC E-Office Solution and Samarth ERP for Office automation.

**21.** Successfully created Institute Documentary and uploaded it on YouTube.

# **Administration and Establishment Section**

### **HUMAN RESOURCES**

<b>Sl. No.</b>	<b>Name of the Members</b>	<b>Designation</b>	<b>E-mail ID</b>
1.	Md. Abdur Rajjaque	Deputy Registrar	deputyregistrar@gkci.ac.in
2.	Dr. Subhasis Bhattacharjee	Assistant Registrar	ar_subhasis@gkci.ac.in
3.	Debjoyti Pandit	Assistant	<a href="mailto:debjoyti_assistant@gkci.ac.in">debjoyti_assistant@gkci.ac.in</a>
4.	Sulabh Srivastava	Senior Assistant	sulabh@gkci.ac.in
5.	Md. Iqbal Hossain	MTS	<a href="mailto:ikbal_mts@gkci.ac.in">ikbal_mts@gkci.ac.in</a>

### **ACTIVITIES:**

1. Two recruitment drives have been completed successfully increasing the manpower of the institute from 68 to 109. Total 41 post has been filled to enhance the manpower requirement of the institute.
2. Through Career Advancement Scheme 1 faculty has been promoted to Professor and 7 faculty have been promoted to Stage II.
3. The process of DPC is ongoing.
4. Biometric attendance system is running in the Institute.
5. As e governance measures leaves are being monitor in online mode.




# HINDI CELL ANNUAL REPORT 2021-22

## Overview

Ghani Khan Choudhury Institute of Engineering and Technology was established in the year of 2010 and the **HINDI CELL** was started functioning in year 2014. The purpose of this cell is to create comfortable environment for the non-Hindi speaking official staff to work in the Rajbhasha-Hindi (noting & drafting). In this context, hindi cell offering four courses like Prabodh, praveen, pragya and Daksha courses for improving the knowledge and interest regularly for new joined teaching and non-teaching staff. For the better performing staff in Prabodh, pravin and pragya courses examination, central government providing one time financial benefit and special pay incremental in salary. Hindi Cell is also organising seminar, symposium, expert talk, hindi diwas etc; regularly. A Hindi officer (I/C) has already been with this office at GKCIET but in future the other official staff like Hindi translators, Hindi typists and MTS staff will provide to this office for smooth conduction of official work related to Hindi and other government works.

## Details of Officer and Official Staff Profile

Sl. No.	Photo	Name & Designation	Biography in brief
1.		Name: <b>Dr. Raja Ram Kumar</b> Designation: <b>Assistant Professor &amp; Hindi Officer (I/C)</b>	<b>Dr. RAJA RAM KUMAR</b> received the B. Tech. Degree in Electrical Engineering from the West Bengal University of Technology, Kolkata, India in 2010 and M. Tech. as well as Ph.D. Degree in Electrical Machines & Drives from the Indian Institute of Technology (Banaras Hindu University), Varanasi, India in 2012 and 2018, respectively. He has served for three years during Sept 2018 to Sept.2021 as an Assistant Professor (Under TEQIP-III) in the Department of Electrical Engineering, Jorhat Engineering College, Assam. He is currently working as an Assistant Professor in the Department of Electrical Engineering, Ghani Khan Choudhury Institute of Engineering & Technology (A Centrally Funded Technical Institute (CFTI) under Ministry of Education Govt of India), Malda, West Bengal. He received Institute Research Award from IIT (BHU) Varanasi in 2016 and second prize Paper Award in IACC Annual Meeting 2018 at Portland during IAS Annual Meeting. He was the chair-person of student branch of IEEE-IAS at IIT (BHU) Varanasi from 2016-2018. He has delivered an Expert talk in a FDP organized by Department of Electrical Engineering in National Institute of Technology Manipur, held during 21st–25th Feb 2022. He has published several research papers in international/national journals and conference proceedings. His current research interests include Renewable Energy, Electrical Machines, Electric Drives, Power Electronic Converter Design and Control.

**Hindi Cell Programme and Activity**

Hindi Cell has organised Praveen and Pragya Examination for GKCIET, malda, Teaching and Non -Teaching Staff. In this context Hindi Praveen & Pragya Exam have conducted in 2021. There are 39 numbers of candidates have received special pay incremental benefit in salary.

List of the Candidates who have scored more than 75% marks in the Hindi Pragya Exam in session 2021-22 and have received special pay incremental benefit in salary.

Sl. No.	Name	Marks obtained
1	Mr. Soumodip Chatterjee	82.5
2	Mr. Sumanta Kumar Guin	82.5
3	Mr. Amiungshu Karmakar	78.5
4	Mr. Tridib Ranjan Das	78
5	Dr. Koushik Paul	77.5
6	Dr. Habib Masum	77.5
7	Dr. Kshirod Kumar Dash	77
8	Mr. Priyam Sen	76.5
9	Mr. Mahafizur Rahaman	76
10	Mr. Debasish Das	76
11	Ms. Cinchona Kumar	75.5
12	Dr. Sudip Kumar Das	75.5

**List of candidates have registered for Hindi Pragya course in Dec 2021.**

Sl. No.	Name of Candidate	Designation/Post
1	PAMPA PARAMANIK ROY	MTS
2	BIMAN ROY	LDC
3	KAKALI DAS MANDAL	MTS
4	MD. MASUD KARIM	LDC
5	MOJAMMEL HOQUE	MTS
6	HARADHAN SARKAR	ASSISTANT PROFESSOR
7	GOUTAM KUMAR GHORAI	ASSISTANT PROFESSOR
8	TAPASH KUMAR DAS	ASSISTANT PROFESSOR
9	DR. SURAJIT CHOTTAPADHAYA	ASSOCIATE PROFESSOR
10	SUBHASHIS DAS	MTS
11	ATIS BISWAS	LDC
12	DR. SOMI BHATTACHARYYA	ASSISTANT PROFESSOR
13	MD. MOKSUD ALAM	MTS
14	SHOWMIK BHOWMIK	ASSISTANT PROFESSOR
15	HASIBUR RAHAMAN	TRAINER
16	MD. IKBAL HOSSAIN	MTS
17	PROBIR KR. MANDAL	MTS
18	SUKUMAR PRASAD	MTS
19	KAJAL KUMAR MANDAL	MTS
20	SAUMYAJIT DAS	UDC
21	ANTARA CHOWDHURY	LDC
22	DEEPJYOTI ROY	MTS

## **ROBOTICS CLUB**

### **Aim**

The club aims to promote the habit of “**thinking to solve a problem technologically**”.

### **Objectives**

- To inspire creative minds to be the driving force in the field of robotics by engaging them in exciting, mentor-based programs that build engineering skills, encourage innovation, and foster well-rounded life capabilities.
- To provide students with opportunities to express their creativity, knowledge and skill through identification of the problem, exploring the possible robotic solutions, conceptualizing and designing it.
- To offer an opportunity to apply their knowledge creatively, to see how systems interact, both with each other and with the environment.
- To develop state-of-the-art problem-solving skills, teamwork and leadership among the students which will help them in their professional life.

### **About the Robotics Club**

GKCIET has established a Robotics Club with a highly enthusiastic team of self-motivated faculty, officer, staff and student members largely for the benefit of the student community and to support innovation happening within the campus where students go, give tech-talks and learn to build innovative robotics projects utilizing their free time. The Club has been started on 01.01.2020 with the coordination of **Dr. Habib Masum** (Asst. Prof. & Convenor, Robotics Club) under the patronage of Hon'ble Director, **Prof. P. R. Alapati**. The club is run by the students under the guidance of mentors.

Currently, the club has around 200 members and they are dynamically involved in many activities including awareness programs, training, projects, competitions, etc. The club is also actively participating in organizing institute Tech Fests. The members of the club meet frequently to discuss upcoming "build" needs for competitions and more.

### **Activities of the Club:**

- Robotics awareness programs
- Hands-on training on basic robotics
- Innovative projects
- Projects on rural Technology Development
- Robotics competitions,
- e-yantra Robotics project of IIT, Bombay
- Other projects initiated by AICTE/University/others
- Techfests

### **Faculty Coordinator:**

**Dr. Habib Masum**

Assistant Professor, Department of Mechanical Engineering

## Achievements:

The following are the some of the achievements of the club:

1. Two members of the club under the mentorship of the Convener of the club, **Dr. H. Masum**, have developed an innovative inaugural lamp called "**Remotely Operated Lamp for Inaugural Program**", in short **ROLIP**.
  - It's a physical inaugural tool (lamp) that operates using a virtual platform, hence, removing the barrier of being a physical presence in the pandemic situation by keeping the emotional factors intact with the inaugural program.
  - The model has been tested in the inaugural program of our institute where the honorable chairman of AICTE, **Prof. Anil Sahasrabudde**, Joint Secretary, Ministry of Education, Government of India, **Shree Madhuranjan Kumar**, and other dignitaries lightened the lamp from different locations of India
  - The process of filing a patent is in progress.



2. The team "**MECHANIZERS**" of the Robotics club has been selected for their project demonstration at the National Convention of **AICTE-Chhatra Vishwakarma Award 2019 at AICTE Headquarter, New Delhi**. The team has designed an innovated mango harvesting tool, namely, "**Advanced Mango Picking Stick**" under the guidance of **Dr. H. Masum**.

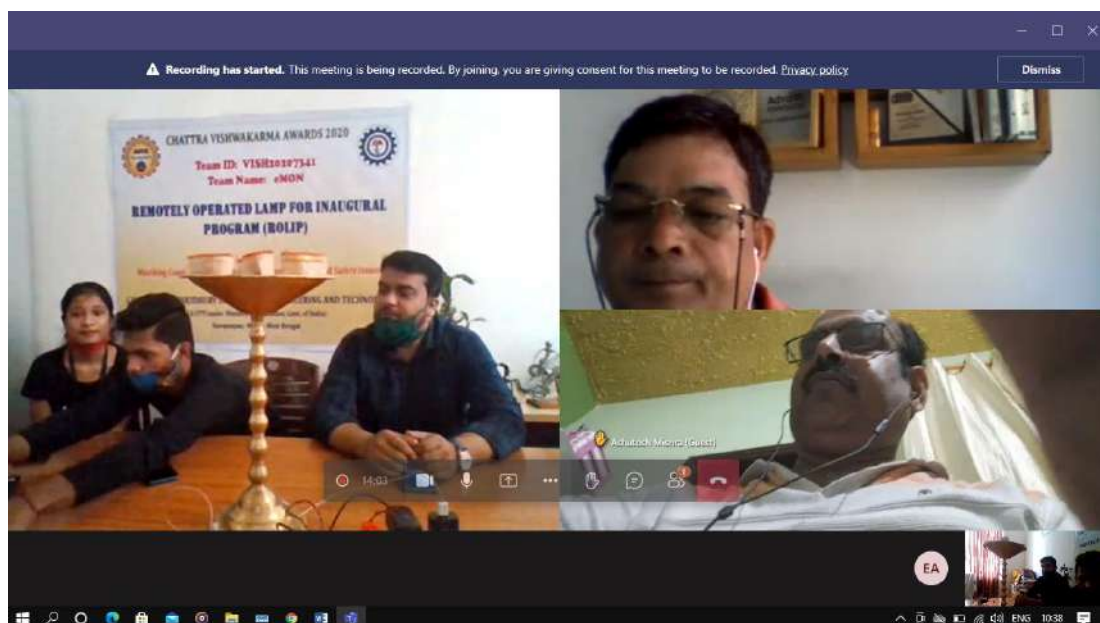


3. The team “GKCTics” of the Robotics club has been selected for their project demonstration, namely, “**Water Parameter Monitoring and Control for Biofloc Fish Farming**” at the **Reginal Convention of AICTE-Chhatra Vishwakarma Award 2019 at Kolkata**. The project has been developed and successfully demonstrated under the guidance of **Dr. H. Masum**.



4. The team “eMON” of the Robotics club has been selected for their project demonstration at the **National Convention of AICTE-Chhatra Vishwakarma Award 2020**.





5. The team “UNIQUE,” of the Robotics club has been selected for their project demonstration at the **Regional Convention of AICTE-Chhatra Vishwakarma Award 2020**. The team has submitted their idea “**Development of An Environment-Friendly Brick Using PCM for Cooling of Buildings**” under the guidance of **Dr. N. Barman** with the theme “**India’s Economic Recovery Post Covid; Reverse Migration and Rehabilitation Plan to support “Atmanirbhar Bharat”**”.



6. Five members of the club with one other student have participated in **Smart India Hackathon 2020 Hardware Edition** and won the Championship in Renewable Energy Category, under the mentorship of **Dr. Tapash Kr. Das**, for their innovative project prototype development: “**Remote Monitoring, Diagnosis, and Maintenance of Micro-grid using Arduino based Controller**”.





7. A team of members of the Robotics Club has participated in the "**Drone Dance Championship**" organized by BIAG India. The team has **ranked 2nd** in **1st National Drone Dance Completion** under **International Aviation Games Board, India**.



Ghani Khan Choudhury Institute  
of Engineering & Technology

Project Head:

Dr. Habib Masum

Team:

M Jahir Anwar, Ishani Mondal,  
Sajahan Shaikh, Raju Sarkar



The screenshot shows the website of the All India Girls' Intercollegiate Aerobics and Gymnastics Association (BIAGINDIA). The header includes the organization's logo and name in Hindi: "अंतरराष्ट्रीय विमानन खेल बोर्ड, भारत". The navigation menu includes Home, About Us, Events, Members, Membership, Job, Media, and Contact Us. The main content area is titled "DRONE Dance (1)" and features a photo of a drone. Below the photo is a table titled "TOP RANKING INSTITUTION IN DRONE EVENT" which lists the top ranking institutions at the National Level and Zone Wise (North Zone, Central Zone, and South Zone).

TOP RANKING INSTITUTION IN DRONE EVENT		
National Level		
SlNo	College Team	Rank
1	Dronacharya college	1st
2	Ghani Khan	2nd
3	PSG Teach	3rd
Zone Wise		
North Zone		
SlNo	Team College	Rank
1	Dronacharya college	1st
2	IPEC	2nd
3	IIMT	3rd
Central Zone		
SlNo	Team College	Rank
1	Chani Khan	1st
2	MJCET	2nd
3	GHRCE (1)	3rd
4	GHRCE (2)	4th
5	MIT World	5th
South Zone		
SlNo	Team College	Rank
1	PSG Teach	1st
2	CV Ramen	2nd
3	Rajlaxmi	3rd
4	TOOH Institute	4th

8. A team of three girl members of the Robotics Club has participated **Navonmesha Award - 2021** with their innovative idea, called “**Mango Leather Maker**” under the guidance of **Dr. H. Masum**. The team won the **first prize** in the “**Innovations in Engineering and Technology**” category of the Award on the occasion of **International Women’s Day 2022**.



### **Internal Complaint Committee (ICC) Annual Report 2021-22**

In accordance with the Govt. of India Gazette notification Part-II, Section-1, No. 18 "The Sexual Harassment of Women at Workplace [Prevention, Prohibition and Redressal] Act, 2013" and Part-II, Section-4 of All India Council for Technical Education [Gender Sanitization, Prevention and prohibition of Sexual Harassment of Women Employees and Students and Redressal of Grievances in Technical Institutes) Regulations, 2016, the Internal Complaint Committee (ICC) has been reconstituted in Ghani Khan Choudhury Institute of Engineering and Technology Malda twice in the session 2021-22 [Memo No. GKCIET/6596 dated 24<sup>th</sup> September, 2021 and Memo No. GKCIET/7615 dated 18<sup>th</sup> February, 2022]. The stakeholders of the current committee are as follows:

1	Dr. Soumi Bhattacharyya, Asst. Professor (CE)	Presiding Officer
2	Ms. Chhandita Das, Asst. Professor (English)	Member
3	Dr. Chiranjit Sain, Asst. Professor (EE)	Member
4	Ms. Pampa Pramanik Roy, (M.T.S)	Member
5	Ms. Jayasree Karmakar, Secretary, J.S.H.S.W.A	Member (External)
6	Ms. Shibani Das, V.P., NGO Udichi	Member (External)
7	Ms. Samiksha Mahato (Degree Student)	Member
8	Ms. Piyali Santra (Diploma Student)	Member
9	Mr. Harendra Nath Mahata (Degree Student)	Member

#### **I. Issues/cases**

In the session under consideration one complaint was lodged on 23<sup>rd</sup> February, 2022 and it was solved on 7<sup>th</sup> March, 2022. A detailed report was submitted to the competent authority.

#### **II. Actions taken with reference to the office memorandum issued by U.5 Section, Department of Higher Education, Ministry of Education, Govt. of India (F.No.18-2/2022-U.5 dt. 09.03.2022) on the subject 'Maintenance of safe working environment for female employees at Workplace' by GKCIET, Malda**

- 1. Displaying banners/ posters at conspicuous places:** Banners and posters have been displayed at different places of the Institute like class rooms, laboratories, elevators, stairs, library etc as follows.



2. **Displaying contact details of ICC members:** The names and contact details of the members of the ICC Committee, GKCIET, Malda are displayed in all the buildings of the Institute.





### 3. Uploading corresponding documents on Institute website

The following documents are uploaded on the Institute website [GKCIET](http://www.gkciet.ac.in). The corresponding links are given as follows.

Office order on ICC Committee:

[https://www.gkciet.ac.in/static\\_doc/ICC/OFFICE%20ORDER%20ON%20RECONSTITUTION%20OF%20ICC%20AT%20GKCIET.pdf](https://www.gkciet.ac.in/static_doc/ICC/OFFICE%20ORDER%20ON%20RECONSTITUTION%20OF%20ICC%20AT%20GKCIET.pdf)

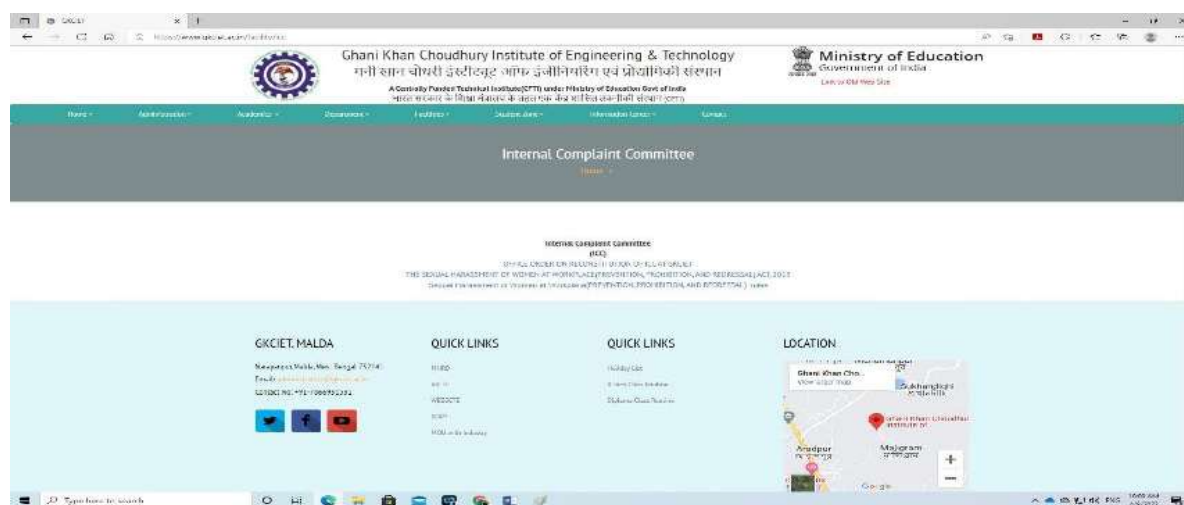
The sexual harassment of women at workplace(prevention, prohibition and redressal) act, 2013:

[https://drive.google.com/file/d/1VpCzR6C5Yk3k\\_Iby-UjXCgsmHkJYRgIZ/view](https://drive.google.com/file/d/1VpCzR6C5Yk3k_Iby-UjXCgsmHkJYRgIZ/view)

The sexual harassment of women at workplace rules:

<https://drive.google.com/file/d/1d80rVQotQuTVSf-OXw31Wuc2F7Rl5IkB/view>

**Screenshot of the Institute website:**



### 4. Organization of a training program to sensitize the employees of the Institute (under process)

**Name of the training:** Sensitization Training on Prevention, Prohibition and Redressal of Sexual Harassment of Women at Workplace

**Organized by:** Internal Complaint Committee (ICC), GKCIET, Malda

**Proposed date:** 02<sup>nd</sup> April, 2022; **Time:** 10:30 AM onwards

**Venue:** Administrative Block, GKCIET Malda

**Patron of the training:** Prof. P. R. Alapati, Director, GKCIET, Malda

**Invited speakers:**

- Chief Guest Ms. Sreerupa Mitra Chaudhury (Nirbhaya Didi), MLA, English Bazar, Malda
- Special Guest, Dr. Sailaja Alapati, First Lady, GKCIET Malda
- Special Guest, Ms. Jayasree Karmakar, Secretary, JSHSWA
- Special Guest, Ms. Shibani Das, VP, NGO Udichi



**Poster for the training:**



## Sensitization Training on Prevention, Prohibition and Redressal of Sexual Harassment of Women at Workplace

*Honourable Speakers*

  
**Patron**  
 Prof. P. R. Alapati  
 Hon'ble Director  
 GKCIET Malda

  
**Chief Guest**  
 Mrs. Sreerupa Mitra Chaudhury  
 (Nirbhaya Didi)  
 Hon'ble MLA, English Bazar, Malda

  
**Special Guest**  
 Dr. Sailaja Alapati  
 Hon'ble First Lady  
 GKCIET Malda

  
**Special Guest**  
 Mrs. Jayasree Karmakar  
 Hon'ble Secretary  
 JSHSWA

  
**Special Guest**  
 Mrs. Shibani Das  
 Hon'ble Vice President  
 NGO Udichi

**Organized by**  
**Ghani Khan Choudhury Institute of Engineering and Technology, Malda**  
*(A Centrally Funded Technical Institute under Ministry of Education, Govt. of India)*

**Program Schedule:**  
**10:30 AM-** Inauguration & Felicitation of Guests  
**10:40 AM-** Welcome address by Dr. Soumi Bhattacharyya, Presiding Officer, ICC, GKCIET Malda  
**10:45 AM-** Address by Prof. P. R. Alapati, Hon'ble Director, GKCIET Malda  
**11:05 AM-** Address by Special Guest, Dr. Sailaja Alapati, First Lady, GKCIET Malda  
**11:25 AM-** Address by Special Guest, Ms. Jayasree Karmakar, Secretary, JSHSWA  
**11:45 AM-** Address by Special Guest, Ms. Shibani Das, VP, NGO Udichi  
**12:05 PM-** Address by Chief Guest Ms. Sreerupa Mitra Chaudhury (Nirbhaya Didi), MLA, English Bazar, Malda  
**12:45 PM-** Vote of thanks by Dr. Chiranjit Sain, Member, ICC, GKCIET Malda

**DATE:** 02<sup>nd</sup> April, 2022  
**TIME:** 10:30 AM  
**VENUE:** Administrative Block,  
 GKCIET Malda

**Coordinators:**  
 Dr. Soumi Bhattacharyya  
 Dr. Chiranjit Sain  
 Ms. Chhandita Das

**Proposed schedule of the training:**

<b>SCHEDULE</b>	
<b>Sensitization Training on Prevention, Prohibition and Redressal of Sexual Harassment of Women at Workplace</b>	
<b>Venue:</b> Board room, Ground Floor, Administrative Block, GKCIET Malda	
<b>Date:</b> 2 <sup>nd</sup> April, 2022	
10:30 am	Inauguration, Felicitation and Lighting of lamp
10:40 am	Welcome address by Dr. Soumi Bhattacharyya, Presiding Officer, ICC, GKCIET Malda
10:45 am	Address by Prof. P. R. Alapati, Director, GKCIET Malda
11:05 am	Address by Special Guest, Dr. Sailaja Alapati, First Lady, GKCIET Malda
11:25 am	Address by Special Guest, Ms. Jayasree Karmakar, Secretary, JSHSWA
11:45 am	Address by Special Guest, Ms. Shibani Das, VP, NGO Udichi
12:05 pm	Address by Chief Guest Ms. Sreerupa Mitra Chaudhury (Nirbhaya Didi), MLA, English Bazar, Malda
12:45 pm	Vote of thanks by Dr. Chiranjit Sain, Member, ICC, GKCIET Malda
12:50 pm	Lunch

Beside the aforementioned activities. Internal Complaint Committee, GKCIET Malda continuously give efforts to maintain the harmony in the institute.

Sd-  
 Dr. Soumi Bhattacharyya  
 Presiding Officer, ICC  
 GKCIET, Malda

# GIRLS' HOSTEL (ARCHANACHATRABAS)

## ANNUAL REPORT FOR THE YEAR 2021-22

### GIRLS' HOSTEL (ARCHANACHATRABAS)

The hostel (rented) is allotted for 1st year, 2nd year and 3rd year students of 3-year Diploma (under WBSCT&VE&SD) and 4-year B. Tech (under MAKAUT) courses since August, 2019. The total capacity of the hostel is approximately 50.

Due to COVID-19, according to the instruction of college authority, college and hostel were closed for students since April-2020, and it has been reopened with complete sanitization as the institute reopen. The girl's hostel is sanitized on a regular basis from time to time.

Room Details: There are total 14 rooms. In ground and first floor, each room contains two to three cots but in second and third floor, the rooms are hall rooms. Each hall room contains five to six cots. The rooms are properly ventilated and provided with fans, bulbs, furnished with cots & mattresses etc. A study table/ multipurpose table is also given to all students. The facilities such as cot, mattress, aqua guard, television, refrigerator etc. are provided for students. Security guards are deputed in the hostel for 24 X 7.

#### **Girls' hostel staff:**

Sl No.	Name of Employee	Designation
1	Dr.ChiranjitSain	Chief Warden
2.	Ms. Priyanka Sahu	Warden
3.	Ms. Chhandita Das	Warden
4.	Kakoli Das Mandal	Care taker
5.	Security guard (rotation wise)	

#### **Rules and Regulations for Hostel Boarders:**

- Students must stay only in the room allotted to him/her.
- Students should carry GKCIET identity card wherever they move and must produce on demand. Students must produce the Boarder's identity card to enter the hostel premises.
- Warden team member or any authorized member of the Institute may inspect the room of any student in the hostel at any time to ensure proper cleanliness and other discipline related matters.
- Students must lock their rooms before going out for bath, food, etc. (In the cases pertaining to double / triple/four seated accommodations, each roommate should have a key of the door lock of his/her room.)
- Students should not keep valuables & costly items in their rooms. Safe guard of Laptop, mobile phone, computer, purse, calculator, wristwatch, wallet or any other valuable item is their own responsibility.

- Senior students must refrain from ragging the junior students in any form and violation of this will be treated as a gross misconduct and attract appropriate disciplinary action under UGC anti ragging rules.
- Students must switch off the lights and fans, when they are not in use in their rooms.
- Girls' students must remain in their hostel during 8 p.m. to 5a.m. and if any emergency or requirement arises to remain absent during this period she must obtain prior permission of the warden.
- Boys' students must remain in their hostel during 10 p.m. to 5a.m. and if any emergency or requirement arises to remain absent during this period he must obtain prior permission of the warden.
- The student must not be involved directly or indirectly in fighting, gambling, strike, anti-social activities, picketing, and fasts. Consumption of alcoholic drink, intoxicating drugs, will be viewed as serious offence; and he/she would be summarily expelled.
- Parents/relatives/friends are not allowed to stay in the hostel.
- Male visitors are not permitted to enter the girls' hostel. Only parents are permitted to meet their wards in the visitor's room/common room from 4:30 pm to 7:30 pm. Female visitors are not permitted to enter the boys' hostel. Any female visitor is not allowed to stay after 8 pm in the girls' hostel.
- Any visitor to any hostel (Boys'/Girls') must enter their details in the register kept with security guard and must leave by the designated time (8pm in girls' hostel & 10 pm in boys hostel).
- Students must maintain room furniture, electric fittings, and LAN fittings in good condition. At the time of room allotment and while leaving the hostel inventory may be properly taken/handed over. Any damage shall attract fine.
- When mess facility will be started, every student residing in the hostel must compulsorily join the mess attached to that hostel. Individual cooking is not permitted.
- Use of audio equipment in hostels is acceptable only if it is not objectionable to other boarders.
- Students should not display obscene posters, calendars, wall writings etc. in the rooms or anywhere in the hostel.
- Students should wear proper dress in the hostel.
- All students are expected to treat fellow boarders, institute staff, hostel staff, mess staff with dignity and decorum.

## National Cadet Corps (NCC), GKCIET Malda Annual Report 2021-22

**CTO:** Dr. Soumi Bhattacharyya, Assistant Professor, CE

Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET), Malda applied to 11 Bengal Battalion NCC, Malda in order to open a coy of NCC in the institute on 13.03.2020 [Memo no. GKCIET/5253(A) dated 13.03.2020]. Dr. Soumi Bhattacharyya, Assistant Professor, Department of Civil Engineering was recommended as the Caretaker Officer (CTO), NCC, GKCIET Malda [Memo no. GKCIET/5253 dated 13.03.2020]. The application of GKCIET Malda was approved by NCC on 10.02.2021 and a platoon of 55 cadet strength was allotted to the institute by NCC GP HQ. Darjeeling [Memo no. 2341/WR/SD/SW/G(Plg) dated 10.02.2021].

19 cadets (13 SD - boys and 6 SW - girls) have been enrolled for the session 2021-22 from GKCIET Malda under 11 Bengal Bn NCC, Malda as follows. The necessary documents of the cadets have been submitted to NCC Office, Malda.

Sl. No.	NAME OF CADET	NCC NUMBER
01.	INDRANI DEBNATH	WB21SWA 211238
02.	NAZIFA KHATOON	WB21SWA 211239
03.	NARAYANASETTI GAYATRI	WB21SWA 211240
04.	TANIYA NATH	WB21SWA 211241
05.	MADHURIMA MONDAL	WB21SWA 211242
06.	POULOMI ROY	WB21SWA 211243
07.	MD ABUL KALAM	WB21SDA 211244
08.	BIKASH GOPAL TEWARY	WB21SDA 211245
09.	RAJU SARKAR	WB21SDA 211246
10.	SWAPNADEEP CHAKRABORTY	WB21SDA 211247
11.	ABHAY CHAUDHARY	WB21SDA 211248
12.	MASUD HAQUE	WB21SDA 211249
13.	SUBHRANKUR NAYEK	WB21SDA 211250
14.	SUBHADEEP MAHATA	WB21SDA 211251
15.	TONMOY GHOSH	WB21SDA 211252
16.	RUDRAPRASAD MAJI	WB21SDA 211253
17.	MD SAFDER KARIM	WB21SDA 211254
18.	CHINTA DAVID PAUL	WB21SDA 211255
19.	ATANU BEPARI	WB21SDA 211256

1. All the enrolled cadets registered in NCC Digital Forum and followed NCC official Twitter accounts as directed by the 11 Bengal Bn.



2. Cadets attended online classes conducted by 11 Bengal Bn NCC Malda.
3. Cadets made posters for Independence Day 2021 as given in the next page and uploaded their activities in the NCC Digital Forum.





- Cadets participated in Republic Day 2022 by making posters, videos and drawing pictures and uploaded their activities in the NCC Digital Forum. Some of the cadets celebrated with family members and civilians.

Cadet Indrani Debnath compiled a video which is given in the following link.

<https://youtu.be/9MOyQ66NbK4>



Drawn by Cadet Rudraprasad Maji on the occasion of Republic Day 2022



As the regular classes was conducted online during the session 2021-22 and the cadets were at their home during this period, all the NCC activities were conducted online throughout the session. CTO Dr. Soumi Bhattacharyya made several visits to 11 Bengal Bn NCC Malda to ensure the fulfilment of all the necessity of NCC activities.

The enrollment process of the cadets for the session 2022-23 will start shortly in GKCIET Malda.

Sd-  
Dr. Soumi Bhattacharyya  
Care Taker Officer (CTO), NCC  
GKCIET, Malda

## **Drama and Dance Club Annual Report 2021-22**

**Convener:** Dr. Soumi Bhattacharyya, Assistant Professor, Civil Engineering  
Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET), Malda has started this Drama & Dance Club and welcomes all interested students and staffs to participate in the club activities.

The contemporary dance and acting are the modern forms of Natyadharmi Abhinaya and Lokadharmi Abhinaya. These extreme forms of creativity not only improve the physical fitness but also enhance the mental and intellectual growth of a student. These extra-curricular activities help to build their moral character and make learning easier by relaxing their minds.

Drama & Dance Club members are encouraged to perform in cultural programmes and also to participate in intra-college and inter-college competitions and the club supports in all possible ways.

### **Domains explored through club activities:**

- All the forms of acting: play, drama, dance-drama, opera, mime etc.
- All the forms of classical and contemporary dances.

### **Objectives of the club:**

- To encourage thinking
- To enhance the physical and mental fitness of a learner
- To make learning easier by relaxing the mind
- To encourage creation
- To improve coordination in team work

In spite of the global pandemic situation, Drama and Dance Club has arranged the following online events, in association with Women Empowerment Committee, to ensure the mental and physical wellbeing of the students.

### **Activities conducted**

- I. Two events have been organized in collaboration with Women Empowerment Committee, GKCIET Malda, for '***Kala shresthi Award for dance***' and '***Mirabai Award for drama***' according to the plan of action reported in the previous year i.e. 2020-21. The results of these two events are as follows.

#### **1) Result for 'Kala Shresthi Award for dance'**

**Event name:** 'Nrityangik'

**Faculty Coordinator:** Dr. Soumi Bhattacharyya

1<sup>st</sup> Place: UpasanaDohutia, Food Technology, B.Tech

2<sup>nd</sup> Place: Prantika Barman, Electrical Engineering, B.Tech


3<sup>rd</sup> Place: Saborni Roy, Food Technology, B.Tech

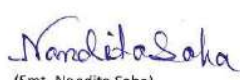
The female winner of the event, UpasanaDohutia, was awarded '**Kala Shresthi Award for dance**' and **Rs. 5000/-** on International Women's Day, 8<sup>th</sup> March, 2022.

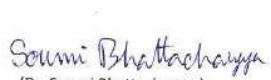



### **Judgement summary:**


<b>Ghani Khan Choudhury Institute of Engineering &amp; Technology</b> <i>A Centrally Funded Technical Institute (CFTI) under Ministry of Education Govt of India</i> <b>Judgement for the event Nrityangik</b>																	
Name of the participant	Expression (10)			Taal (10)			Mudra (10)			Costume (10)			Overall performance (10)			Total marks	Remarks
	AP	NS	Average	AP	NS	Average	AP	NS	Average	AP	NS	Average	AP	NS	Average		
Alisha Rahaman	5	6	5.5	7	5	6	6	5	5.5	6	6	6	7	6	6.5	29.5	
Phularenu Das	5	5	5	6	5	5.5	5	5	5	6	5	5.5	6	5	5.5	26.5	
Prantika Barman	8	7	7.5	7	7	7	8	8	8	9	8	8.5	8	8	8	39	2nd
Saborni Roy	7	5	6	5	5	5	5	5	5	6	8	7	7	7	7	30	3rd
Susmita Bose	7	6	6.5	5	6	5.5	6	6	6	5	6	5.5	5	6	5.5	29	
Upasana Dohutia	9	8	8.5	8	8	8	9	7	8	8	9	8.5	9	8	8.5	41.5	1st
Samrpta Dey	6	6	6	7	5	6	5	5	5	5	5	5	6	6	6	28	

  
 (Smt. Atasi Pandit)  
 Judge

  
 (Smt. Nandita Saha)  
 Judge

  
 (Dr. Soumi Bhattacharyya)  
 Coordinator &  
 Member Secretary

  
 (Dr. Kshirod Kumar Dash)  
 Chairman

  
 16/2  
 Prof. (Dr.) P. R. Alapati  
 Director, GKCIET Malda

### **External expert**

Mrs. Atasi Pandit  
 Nritya Acharya, Indian Classical Dance (Bharatnatyam)  
 Malda – 732101  
 Mobile no.: 9932634150  
 Email id: atasi.pandit.mld@gmail.com



### **External expert**

Mrs. Nandita Saha  
 Nritya Acharya, Indian Classical Dance (Kathak)  
 Examiner, Prachin Kala Kendra, Chandigarh  
 Malda – 732101  
 Mobile no.: 8617326605/ 9614574829  
 Email id: sahanandita1963@gmail.com



## **2) Result for ‘Mirabai Award for Dramatics’**

**Event name:** ‘Natyam’

**Faculty Coordinator:** Dr. Soumi Bhattacharyya

1<sup>st</sup> Place: Alisha Rahaman, Food Technology, B.Tech

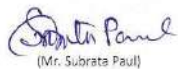
2<sup>nd</sup> Place: Gita Rai, Food Processing Technology, Diploma

3<sup>rd</sup> Place: Phularenu Das, Electrical Engineering, B.Tech

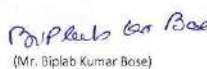
The female winner of the event, Alisha Rahaman, was awarded ‘**Mirabai Award for Dramatics**’ and **Rs. 5000/-** on International Women’s Day, 8<sup>th</sup> March, 2022.

### Judgement summary:


Ghani Khan Choudhury Institute of Engineering & Technology																							
A Centrally Funded Technical Institute (CFTI) under Ministry of Education Govt of India																							
Judgement for the event Natyam																							
Name of the participant	Acting skill (10)			Pronunciation (10)			Costume (10)			Music (10)			Choreography/ composition (10)			Videography (10)			Script/theme (10)			Total marks	Remarks
	SP	BKB	Average	SP	BKB	Average	SP	BKB	Average	SP	BKB	Average	SP	BKB	Avg	SP	BKB	Avg	SP	BKB	Average		
Alisha Rahman	7	8	7.5	8	9	8.5	8	9	8.5	7	8	7.5	7	8	7.5	6	9	7.5	9	9	9	56	1st
Phularenu Das	4	6	5	0	0	0	7	9	8	8	7	7.5	6	8	7	8	8	8	8	8	8	43.5	3rd
Gita Rai	6	7	6.5	9	9	9	9	9	9	5	6	5.5	4	7	5.5	8	8	8	7	9	8	51.5	2nd
Raju Sarkar	4	5	4.5	3	5	4	8	8	8	3	4	3.5	7	7	7	8	8	8	7	8	7.5	42.5	
Rifah Islam	2	2	2	2	2	2	5	6	5.5	6	8	7	4	4	4	5	7	6	3	4	3.5	30	




(Mr. Subrata Paul)  
Judge




(Mr. Biplab Kumar Bose)  
Judge



(Dr. Soumi Bhattacharyya)  
Coordinator & Member Secretary



(Dr. Kshirod Kumar Dash)  
Chairman



Prof. Dr. F. R. Alapati  
Director, GKCIET Malda

2/3/2022

### External expert

Mr. Subrata Paul  
 Theatre Director  
 Malda Theatre Platform (MTP)  
 Malda – 732101  
 Mobile no.: 9475722620  
 Email id: [subrata.paul07@gmail.com](mailto:subrata.paul07@gmail.com)



### External expert

Mr. Biplab Kumar Bose  
 Theatre Director  
 Malda Theatre Platform (MTP)  
 Malda – 732101  
 Mobile no.: 9834821255  
 Email id: [biplabbose06@gmail.com](mailto:biplabbose06@gmail.com)



Sd-  
 Dr. Soumi Bhattacharyya  
 Convener  
 Drama and Dance Club  
 GKCIET, Malda

**Women Empowerment Committee Annual Report 2021-22**

In order to promote gender equality in institutions and to motivate girl students adopting best practices from ancient Indian wisdom, All India Council for Technical Education (AICTE) has proposed a guideline to conduct different activities during the academic year 2020-21. Ghani Khan Choudhury Institute of Engineering and Technology Malda constituted the Women Empowerment Committee (WEC) as follows (Memo No. GKIET/5854 dated 04<sup>th</sup> December, 2020) to accelerate the procedure in the institution. (Attachment 1)

1	Dr. Kshirod Kumar Dash, HoD - FPT	Chairman
2	Dr. Soumi Bhattacharyya. Asst. Professor	Member Secretary
3	Mr. Dharmeswar Dash, Asst. Professor	Member
4	Mr. Showmik Bhowmik, Asst. Professor	Member
5	Priyanka Sahu, Asst. Professor	Member
6	Smita Anand, Lecturer	Member
7	Debadrita Roy, Trainer	Member
8	Pampa Pramanik Roy, MTS	Member

Different award schemes for women students, faculty members and staff members were analyzed from AICTE guidelines and the specific awards were pointed out by the committee members. Each award carries a cash prize of Rs. 5000.00 besides Certificate.

**1. Awards/activities for B. Tech and Diploma students**

Award Name	Number of awards	Faculty coordinators
Medhavi chhatra Award	3+2=5	Mr. Showmik Bhowmik
Udyamita Award	1	Ms. Priyanka Sahu
Kala shresthi Award for dance	1	Dr. Soumi Bhattacharyya
Kala shresthi Award for arts	1	Ms. Smita Anand
Mirabai Award for music	1	Ms. Debadrita Roy
Mirabai Award for drama	1	Dr. Soumi Bhattacharyya
Ojaswi Award	1	Ms. Smita Anand
Nivida Award	1	Ms. Debadrita Roy
Navonmesha Award	1	Mr. Showmik Bhowmik
Vaicharik Award	1	Ms. Priyanka Sahu



**I. Awards for Female faculty/ staff members**

Award Name	Number of awards	Faculty coordinators
Maa Saraswati Award for faculty	1	Mr. Dharmeswar Dash
Maa Saraswati Award for staff	1	Mr. Dharmeswar Dash

**II. Seminar on women empowerment**

Seminar	Number of Seminars	Faculty coordinators
Women empowerment	4	Dr. Kshirod Kumar Dash Dr. Soumi Bhattacharyya Ms. Priyanka Sahu

**Activities conducted**

- III. Two events have been organized for '*Kala shresthi Award for dance*' and '*Mirabai Award for drama*' according to the plan of action reported in the previous year i.e. 2020-21. The results of these two events are as follows.

**1. Result for 'Kala Shresthi Award for dance'**

**Event name:** 'Nrityangik'

**Faculty Coordinator:** Dr. Soumi Bhattacharyya


1<sup>st</sup> Place: Upasana Dohutia, Food Technology, B.Tech

2<sup>nd</sup> Place: Prantika Barman, Electrical Engineering, B.Tech


3<sup>rd</sup> Place: Saborni Roy, Food Technology, B.Tech

The female winner of the event, Upasana Dohutia, was awarded '**Kala Shresthi Award for dance**' and **Rs. 5000/-** on International Women's Day, 8<sup>th</sup> March, 2022.


Ghani Khan Choudhury Institute of Engineering & Technology																	
A Centrally Funded Technical Institute (CFTI) under Ministry of Education Govt of India																	
Judgement for the event Nrityangik																	
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	AP	NS	Average	AP	NS	Average	AP	NS	Average	AP	NS	Average	AP	NS	Average		
Alisha Rahaman	5	6	5.5	7	5	6	6	5	5.5	6	6	6	7	6	6.5	29.5	
Phularenu Das	5	5	5	6	5	5.5	5	5	5	6	5	5.5	6	5	5.5	26.5	
Prantika Barman	8	7	7.5	7	7	7	8	8	8	9	8	8.5	8	8	8	39	2nd
Saborni Roy	7	5	6	5	5	5	5	5	5	6	8	7	7	7	7	30	3rd
Susmita Bose	7	6	6.5	5	6	5.5	6	6	6	5	6	5.5	5	6	5.5	29	
Upasana Dohutia	9	8	8.5	8	8	8	9	7	8	8	9	8.5	9	8	8.5	41.5	1st
Samrpta Dey	6	6	6	7	5	6	5	5	5	5	5	5	6	6	6	28	




(Smt. Atasi Pandit)  
Judge




(Smt. Nandita Saha)  
Judge



(Dr. Soumi Bhattacharyya)  
Coordinator &  
Member Secretary



(Dr. Kshirod Kumar Dash)  
Chairman



Prof. (Dr.) P. R. Alapati  
Director, GKCIET Malda

## 2. Result for ‘Mirabai Award for Dramatics’

**Event name:** ‘Natyam’

**Faculty Coordinator:** Dr. Soumi Bhattacharyya

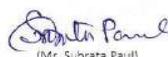
1<sup>st</sup> Place: Alisha Rahaman, Food Technology, B.Tech

2<sup>nd</sup> Place: Gita Rai, Food Processing Technology, Diploma

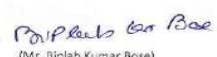
3<sup>rd</sup> Place: Phularenu Das, Electrical Engineering, B.Tech

The female winner of the event, Alisha Rahaman, was awarded ‘**Mirabai Award for Dramatics**’ and **Rs. 5000/-** on International Women’s Day, 8<sup>th</sup> March, 2022.

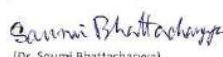
Ghani Khan Choudhury Institute of Engineering & Technology																							
A Centrally Funded Technical Institute (CFTI) under Ministry of Education Govt of India																							
Judgement for the event Natyam																							
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Gita Rai	6	7	6.5	9	9	9	9	9	9	5	6	5.5	4	7	5.5	8	8	8	7	9	8	51.5	2nd
Raju Sarkar	4	5	4.5	3	5	4	8	8	8	3	4	3.5	7	7	7	8	8	8	7	8	7.5	42.5	
Rifah Islam	2	2	2	2	2	2	5	6	5.5	6	8	7	4	4	4	5	7	6	3	4	3.5	30	




(Mr. Subrata Paul)  
Judge




(Mr. Biplob Kumar Bose)  
Judge



(Dr. Soumi Bhattacharyya)  
Coordinator & Member Secretary



(Dr. Kshirod Kumar Dash)  
Chairman



Prof. (Dr.) P. R. Alapati  
Director, GKCIET Malda

2/3/2022

## IV. Navonmesha Award

**Event name:** ‘Innovations in Engineering and Technology’

**Faculty Coordinators:** Dr. Kshirod Kumar Dash, Dr. Showmik Bhowmik and Dr. Soumi Bhattacharyya

### Plan of action

The Women Empowerment Committee (WEC) of GKCIET Malda is inviting innovative ideas or proposals for the event ***Innovations in Engineering and Technology***. All the current students of GKCIET, Malda are eligible to take part in this event.

In order to participate in the event, the students have to follow the guidelines as mentioned below.

1. The student has to prepare the proposal as follows

- a. The proposal must possess a new idea.
- b. The proposal must possess the following sections in the specified sequence
  - I. Title of the proposal
  - II. Name of the Student
  - III. Department
  - IV. Program (B.Tech/Diploma)
  - V. Semester
  - VI. Body of the proposal

- c. The body of the proposal should consist of
  - i. Introduction (Background of the problem)
  - ii. Importance of the problem (Social importance)
  - iii. Problem statement
  - iv. Method to be adopted to achieve the desired solution.

If required, figures and tables can also be added.

- d. The proposal should not contain more than **1000** words.
2. The proposal should be submitted in pdf format and the pdf file should be named as '**Navonmesha2021\_Your Name**' (e.g. if your name is Rimi Sen, the folder should be named as 'Navonmesha 2021\_Rimi Sen').
  3. Fill up the google form and upload your file in pdf here.  
<https://forms.gle/oRV02uKwLyDz8xrD6>
  4. The procedure should be completed on or before **01/08/2021**.
- 1) Selected ideas will be called for presentation. Participation certificate will be awarded to the presenters. Winners will be given special certificates.

Winner from the girls will be awarded with the **Navonmesha 2021 award**.

### Approved note sheet and notification

NOTESHEET	NOTIFICATION
<p>The following committees have been formed for the Webinar/Seminar on "Innovations in Engineering and Technology" and "Navonmesha award" during July 2021 with the following composition. The 'Navonmesha award' is one of the awards proposed by AICTE for the girl students who comes up with novel ideas in Technology and Innovation.</p> <p>1. <b>Patron</b> Prof. Parameswara Rao Alapati: Director, GKCIET</p> <p>2. <b>Coordinators</b> Dr. Kshirod Kumar Dash, Associate Professor and HoD, FPT Mr. Showmik Bhowmik, Assistant Professor, CSE Dr. Soumi Bhattacharyya, Assistant Professor, CE</p> <p>3. <b>Members</b> Mr. Dharmeswar Dash, Assistant Professor, ME Mr. Showmik Bhowmik, Assistant Professor, CSE Ms. Priyanka Sahu, Assistant Professor, HS Ms. Smita Anand, Lecturer, EE Ms. Debadrita Roy, Trainer, CSE</p> <p><i>(Signature)</i> 17/06/2021 Dr. Soumi Bhattacharyya</p> <p><i>(Signature)</i> 17/06/2021 Mr. Showmik Bhowmik</p> <p><i>(Signature)</i> 17/06/2021 Dr. Kshirod Kumar Dash</p> <p>This is placed for your kind approval.</p> <p><i>(Signature)</i> 17/06/2021 Director, GKCIET</p>	<p>Date: 08/07/2021</p> <p>Sub: Innovations in Engineering and Technology 2021</p> <p>The Women Empowerment Committee (WEC) of GKCIET Malda is inviting innovative ideas or proposals for the event <i>Innovations in Engineering and Technology</i>. All the current students of GKCIET, Malda are eligible to take part in this event.</p> <ul style="list-style-type: none"><li>In order to participate in the event, the students have to follow the guidelines as mentioned below.<ol style="list-style-type: none"><li>The student has to prepare the proposal as follows<ol style="list-style-type: none"><li>The proposal must possess a new idea.</li><li>The proposal must possess the following sections in the specified sequence<ol style="list-style-type: none"><li>Title of the proposal</li><li>Name of the Student</li><li>Department</li><li>Program (B.Tech/Diploma)</li><li>Semester</li><li>Body of the proposal</li></ol></li></ol></li><li>The body of the proposal should consist of<ol style="list-style-type: none"><li>Introduction (Background of the problem)</li><li>Importance of the problem (Social importance)</li><li>Problem statement</li><li>Method to be adopted to achieve the desired solution.</li></ol></li></ol></li></ul> <p>If required, figures and tables can also be added.</p> <ol style="list-style-type: none"><li>The proposal should not contain more than 1000 words.</li></ol> <ol style="list-style-type: none"><li>The proposal should be submitted in pdf format and the pdf file should be named as '<b>Navonmesha 2021_Your Name</b>' (e.g. if your name is Rimi Sen, the folder should be named as 'Navonmesha 2021_Rimi Sen').</li><li>Fill up the google form and upload your file in pdf here: <a href="https://forms.gle/oRV02uKwLyDz8xrD6">https://forms.gle/oRV02uKwLyDz8xrD6</a></li><li>The procedure should be completed on or before 01/08/2021.</li></ol> <ul style="list-style-type: none"><li>Selected ideas will be called for presentation. Participation certificate will be awarded to the presenters. Winners will be given special certificates.</li><li>Winner from the girls will be awarded with the <b>Navonmesha 2021 award</b>.</li></ul> <p>This issues with approval of the competent authority:</p> <p>Sd/- Mr. Showmik Bhowmik Assistant Professor, CSE Member, WEC GKCIET Malda</p>

## Poster



**Innovations in Engineering and Technology**  
*for the best novel and innovative idea*

Organized by  
**Women Empowerment Committee**

**Ghani Khan Choudhury Institute of Engineering and Technology, Malda**  
(A Centrally Funded Technical Institute under Ministry of Education)

Coordinator: Mr. Showmik Bhowmik

**Eligibility: Current students of GKCIET Malda**

Fill up the google form and upload your proposal in pdf here.  
<https://forms.gle/oRV02uKwLyDz8xrD6>

- ✓ The proposal must possess a new idea.
- ✓ The word limit is 1000.
- ✓ Selected ideas will be called for presentation.

**Last date of submission: 01/08/2021**

**NAVONMESHA AWARD 2021**

*Participation certificate will be awarded to the presenters. Winners will be given special certificates.*

**Result:** On the basis of the event result, ‘Navonmesha’ award and cash prize of **Rs. 1250/-** were given to the following female winners each on International Women’s Day, 8<sup>th</sup> March, 2022.

- 1) Sayani das, Food Technology, B.Tech
- 2) Ishani Mondal, Mechanical Engineering, B.Tech
- 3) Indrani Debnath, Mechanical Engineering, B.Tech
- 4) Sampurna Debnath, Mechanical Engineering, B.Tech





## Innovations in Engineering and Technology

For the best Novel and Innovative Idea

Organized By

Women Empowerment Committee

Ghani Khan Choudhury Institute of Engineering and Technology  
Narayanpur, Malda

Results of the completion "Innovations in Engineering and Technology" held on 23<sup>rd</sup> December 2021.

Topic	Presenter(s)	Position
Dairy waste Cottage Cheese Whey utilization and Protein extraction	Souvik Giri, FT Sayani Das, FT	1 <sup>st</sup>
Mango Leather Maker	Ishani Mondal, ME Indrani Debnath, ME Sampurna Debnath, ME	
Segmentation of lesion image for skin cancer detection using Generative Adversarial Network: A deep learning approach	Nemai Roy, CST Achisman Kundu, CST Pritiman Sikder, CST	2 <sup>nd</sup>
Bazaar4u	Korak Sengupta, EE	
Smart App	Anku Kumar, ME	3 <sup>rd</sup>

*[Signature]*  
08/02/2022

Dr. Debrup Hui,  
Associate Prof. & HoD,  
Applied Science (Expert)

*[Signature]*  
08/02/2022

Dr. Koushik Paul  
Associate Prof. & HoD  
CE (Expert)

*[Signature]*  
08/02/2022

Dr. Sandip Chanda  
Associate Prof. & HoD  
EE (Expert)

*[Signature]*  
08/02/2022

Dr. Nilkantha Barman  
Associate Prof. & HoD  
ME (Expert)

*[Signature]*  
08/02/2022

Dr. Kiran Yarrakula  
Associate Prof., CE  
(Expert)

*[Signature]*  
08/02/2022

Dr. Showmik Bhowmik  
Assistant Prof. & HoD, CSE  
(Co-ordinator)

*[Signature]*  
08/02/2022

Dr. Soumi Bhattacharyya  
Assistant Prof., CE  
(Co-ordinator)

*[Signature]*  
08/02/2022

Dr. Kshirod Kr. Dash  
Associate Prof. & HoD, FPT  
(Expert, Co-ordinator & Chairman)

*[Signature]*  
16/2

Prof. P. R. Alapati  
Director, GKCIET

### V. Kala Shresthi Award for Art (in progress)

**Event name:** 'Art & Design'

**Faculty Coordinators:** Dr. Soumi Bhattacharyya and Ms. Smita Anand

#### About the Award

In order to promote gender equality in institutions and to motivate girl students adopting best practices from ancient Indian wisdom, All India Council for Technical Education (AICTE) has proposed a guideline to conduct different activities during the academic year 2020-21. 'Kala Shresthi Award for Art' is one of the awards proposed by AICTE for

the girl students showing exceptional performance in Art, only if the college is associated with organizations like SPIC MACAY or the student is trained in dance by the institution or outside the institution or self-trained.

Women Empowerment Committee, Ghani Khan Choudhury Institute of Engineering and Technology, Malda is going to organize an event for arts. The topic will be 'design of iconic structure for this institute'.

### **Mode of competition**

Considering the present pandemic situation, the award program is planned to be conducted in online mode to avoid gathering.

### **Eligibility of the student to participate:**

Only the current students of GKCIET Malda are allowed to participate in this event.

### **Necessary instruction for the candidates:**

All the students who want to participate in this competition have to follow the following procedure.

1. Students have to send at least three photos as follows
  - a) First photo after 25% completion.
  - b) Second photo after 75% completion.
  - c) Third/final photo after 100% completion.
2. All photos must be in pdf format with good resolution.
3. All photos have to send to [smiita@gkciet.ac.in](mailto:smiita@gkciet.ac.in) only.
4. Only icon is permitted for this competition. Any other kind of arts may suffer rejection.

**Necessary points for email:** All these three files should be zipped in a folder named by the student's name and sent to the program coordinator via email with a subject 'Participation for Art & Design'.

***Mode of judgment:*** All the zipped folders will be collected by the coordinator and will be sent to the experts' panel for judgement. Marks will be given to them and the final result will be derived by applying the method of averaging by the coordinators.

**Declaration of result:** The final result will be declared in the institute website.

**Award:** The winners will be felicitated by certificates. The highest scorer among the girl students will be awarded 'Kala Shresthi Award for Arts' and Rs. 5000/-.



## **Notification**

Date: 28.07.2021

### NOTIFICATION

Sub: 'Art & Design' 2021 – The art challenge

An online Art event 'Art & Design 2021' is being organized by the Women Empowerment Committee (WEC) of GKCIET Malda. All the current students of GKCIET Malda are eligible to participate in the event.

Topic: Design an iconic structure for GKCIET Malda.

In order to participate in the event, the students have to follow the guidelines as mentioned below.

1. Students need to prepare an icon for the institute and have to send at least three photos of the icon as follows

- a) First photo after 25% completion.
- b) Second photo after 75% completion.
- c) Third/final photo after 100% completion.

2. All photos must be in pdf format with good resolution.

3. Make a folder containing the aforementioned files and name the folder as 'Icon design 2021\_Your Name' (e.g. if your name is Rimi Sen, the folder should be named as Icon design 2021\_Rimi Sen).

4. Upload the folder in google drive send to [smita@gkciet.ac.in](mailto:smita@gkciet.ac.in). Name, department, course, year, roll no. should be mentioned in the email.

The procedure should be completed on or before 31/08/21.

This issue with approval of the competent authority.

Sd/-  
Ms. Smita Anand  
Lecturer, EE  
Member, WEC  
GKCIET Malda

Sd/-  
Dr. Soumi Bhattacharyya  
Assistant Professor, CE  
Member Secretary, WEC  
GKCIET Malda

## **Poster**



# Art & Design 2021

The Art challenge

Topic: Design an iconic structure for GKIET Malda

Organized by

## Women Empowerment Committee

### Ghani Khan Choudhury Institute of Engineering and Technology, Malda

(A Centrally Funded Technical Institute under Ministry of Education)

**Coordinators: Dr. Soumi Bhattacharyya, Ms. Smita Anand**

**Eligibility: Current students of GKIET Malda**

Submit zipped folder to [smita@gki.ac.in](mailto:smita@gki.ac.in)

**Last date of submission: 31<sup>st</sup> August, 2021**

*Participation Certificate will be awarded to all the participants. Winners will be given special certificates.*



The last date of submission has been extended.

Sd-  
Dr. Soumi Bhattacharyya  
Member Secretary  
Women Empowerment Committee  
GKIET, Malda

Sd-  
Dr. Kshirod Kumar Dash  
Chairman  
Women Empowerment Committee  
GKIET, Malda

## **SPIC MACAY Heritage Club, GKCIET Malda Annual Report 2021-22**

**Principal Faculty Advisor:** Dr. Soumi Bhattacharyya, Assistant Professor, CE

SPIC MACAY (The Society for the Promotion of Indian Classical Music and Culture Amongst Youth) is a voluntary movement trying to bring into the educational system the missing elements of Indian Classical Music and Culture. It is working for the past 39 years in educational institutions in about 400 towns in India and approximately 50 abroad. With Vision 2020, SPIC MACAY is committed to reach out to every student of this country.

In order to make students aware of the gentler, more aesthetic, and diverse, yet integrated, strands of India's culture by systemically introducing them to various forms of Indian classical music and dance in Schools, Colleges, and universities throughout the land, All India Council for Technical Education (AICTE) has proposed all the institutions to be a volunteering institute for SPIC MACAY.

Dr. Soumi Bhattacharyya, on behalf of Ghani Khan Choudhury Institute of Engineering and Technology Malda, applied to SPIC MACAY and proposed to work as a volunteering institution on 08.06.2020 [Memo no. GKCIET/Director/5337]. An online application was also submitted to SPIC MACAY portal on 15.02.2021, as suggested by SPIC MACAY authority. An online orientation program was arranged by SPIC MACAY in GKCIET Malda on 18.02.2021 to initiate the volunteering activities by the institute. Finally, GKCIET Malda received the approval letter from SPIC MACAY on 22.03.2021 [Memo No. SM/HEG/HC001].

An executive committee was constituted in order to conduct the activities of 'SPIC MACAY Heritage Club, GKCIET Malda' [Memo. No. GKCIET/6202 dated 23.03.2021]. The regulations for 'SPIC MACAY Heritage Club, GKCIET Malda' was declared.

**SPIC MACAY**  
Society for the promotion of Indian Classical Music and Culture amongst youth

  
Government of India

## Orientation Program

Ghani Khan Choudhury Institute of Engineering and Technology, Malda  
(A Centrally Funded Technical Institute under Ministry of Education)

Date – 18<sup>th</sup> February, 2021 Time – 2:30 PM to 4:00 PM

**Meeting link**  
<https://zoom.us/j/92769944847?pwd=dEdhMVdpZHMwY3RhMkVOOC9zY1k5Zz09>  
Meeting ID: 927 6994 4847  
Passcode: spicmacay  
Bit.ly/spicmacayorientation

**\*Attendance is mandatory for student community, staffs and faculty members of the institute.**



- Approval letter from SPIC MACAY [Memo No. SM/HEG/HC001 dt. 22.03.2021]



Memo No. SM/HEG/HC001

22<sup>nd</sup> March, 2021

Dr. Soumi Bhattacharyya  
Assistant Professor, Department of Civil Engineering  
Principal Faculty Advisor, SPIC MACAY Heritage Club  
Ghani Khan Choudhury Institute of Engineering and Technology  
Malda, West Bengal – 732141

Dear Dr. Soumi Bhattacharyya,

Namaskar from SPIC MACAY.

We are writing this letter, congratulating and thanking you and the management of GKCIET for your continued and persistent efforts in ensuring a SPIC MACAY Heritage Club is established at your esteemed institute.

Kindly note that an Executive Committee has to be formed in your institute, to initiate activities of the Heritage Club, as per the guidelines discussed during the orientation session we had on 18<sup>th</sup> February, 2021. The regulations for SPIC MACAY Heritage club, GKCIET Malda is enclosed with this letter.

We at SPIC MACAY are indeed looking forward to collaborate along with the Heritage Club of GKCIET in expanding our global movement and furthering our common aim of preserving and propagating Indian culture and heritage.

Wishing you a long and consistent contribution to the movement and the noble cause of inspiring our youth through constant exposure to our rich cultural tapestry.

Thank you.

Regards,

For Higher Education Group, SPIC MACAY

Aaditya Rangan R  
Convenor, Higher Education Group, SPIC MACAY

Enclosed:

- Regulations for SPIC MACAY Heritage Club, GKCIET Malda

Copy to:

- Director, GKCIET Malda
- Higher Education Group, SPIC MACAY

Registered Office: 41/42, Lucknow Road, Delhi - 110054 | FB: [www.facebook.com/spicmacay](https://www.facebook.com/spicmacay)  
Website: [www.spicmacay.org](http://www.spicmacay.org)

Resource Centre: Flat No. 4 Modern School, Barakhamba Road, New Delhi - 110001



- 'SPIC MACAY Heritage Club, GKCIET Malda' [Memo. No. GKCIET/6202 dt 23.03.2021]



E-mail: ar\_est@gkci.ac.in

**Ghani Khan Choudhury Institute of Engineering and Technology**  
(A Centrally Funded Technical Institute under Ministry of Education, Govt. of India.)  
Narayanpur, Dist.: Malda, Pin- 732141, West Bengal

Memo No: GKCIET/6202

Date: 23.3.2021

### **OFFICE ORDER**

In compliance to the letter vide Memo No. SM/HEG/H0001, dated 22<sup>nd</sup> March, 2021, issued by SPIC MACAY, the Director of GKCIET is pleased to constitute the following Executive Committee to initiate activities of the Heritage Club as per the regulations provided by SPIC MACAY at GKCIET, Malda with immediate effect.

Sl. No.	Name of the Person Assigned	Capacity	Contact details
01.	Dr. Soumi Bhattacharyya <i>Asst. Professor (CE)</i>	Principal Faculty Advisor	E-mail: soumi@gkci.ac.in Mobile: 9143382169/9836772169
02.	Ms. Debadrita Roy <i>Trainer (CSE)</i>	Second Faculty Advisor	E-mail: debadrita@gkci.ac.in Mobile: 9475539067
03.	Phularenu Das <i>Student</i>	Programme Co-ordinator	E-mail: phularenu@gmail.com Mobile: 08250969970
04.	Adarsh Kr. Singh <i>Student</i>	Joint Programme Co-ordinator	E-mail: adarshkumars318@gmail.com Mobile: 7005791069
05.	Ishani Mandal <i>Student</i>	Individual Activity Co-ordinator	E-mail: ishanimondal2017@gmail.com Mobile: 8016916630
06.	Moni Moban karmakar <i>Student</i>		E-mail: monimohankarmakar9@gmail.com Mobile: 9433619748
07.	Sayani Das <i>Student</i>		E-mail: sayanidas2k@gmail.com Mobile: 9804006011
08.	Asha Laha <i>Student</i>		E-mail: ashalaha4444@gmail.com Mobile: 7679408068
09.	Md. Abdur Rajjaque <i>Asst. Registrar (A&amp;E/Fin)</i>	Member	E-mail: ar_est@gkci.ac.in Mobile: 9002484861
10.	Dr. Sandip Chanda <i>Dean-S/W</i>	Member	E-mail: sandip@gkci.ac.in Mobile: 9836921589

The Executive Committee shall function from the campus and the tenure period of the students members of this Committee is 1 (one) year.

This issues with the approval of the competent authority.

(Md. Abdur Rajjaque)  
Asst. Registrar (A&E)

### **Copy to:**

1. Concerned Persons (by name)
2. All Deans/HoD's/HoS'
3. Asst. Registrar (Fin)
4. Director - for kind information please
5. File copy

- **Activities in the institute**

This club continuously encourages students to practice India's culture by systematically introducing them to various forms of Indian classical music and dance through lectures and student induction programs. The students perform classical and folk music and dance in various cultural activities in the institute such as celebration of Independence Day, Republic Day, Gandhi Jayanti, Rabindra Jayanti, International Mother Language Day, International Women's Day etc.



- **Anubhav 2021**

The stakeholders of GKCIET Malda have participated in Anubhav 2021 during 21<sup>st</sup>-27<sup>th</sup> June, 2021. The faculty advisor personally attended the workshop of Odissi dance conducted by Vidushi Sujata Mohapatra.



Society for the Promotion of Indian Classical Music And Culture Amongst Youth  
DIAMOND JUBILEE YEAR OF IIT DELHI



युवा कल्याण और खेल मंत्रालय  
DEPARTMENT OF YOUTH AFFAIRS  
MINISTRY OF YOUTH AFFAIRS & SPORTS  
MINISTRY OF TEXTILES  
GOVERNMENT OF INDIA





SPIC MACAY





21st - 27th June  
**Anubhav 2021**

Join us - <http://www.youtube.com/spicmacayofficial> Get schedule at [spicmacay.org/anubhav2021](http://spicmacay.org/anubhav2021)

 Shri Dinesh Kumar Singer	 Shri Shikha Anand Singer	 Vishal Tandon Singer	 Dr. Usha Varshney Singer	 Shri Subhashish Dasgupta Singer	 Dr. Anand Kumar Singer	 Dr. Suresh Kumar Singer	 Dr. Shikha Anand Singer	 Dr. Anand Kumar Singer	 Dr. Suresh Kumar Singer	 Dr. Shikha Anand Singer	 Dr. Anand Kumar Singer	 Dr. Suresh Kumar Singer	 Dr. Shikha Anand Singer
 Dr. Rajendra Kumar Singer	 Dr. Shikha Anand Singer	 Dr. Anand Kumar Singer	 Dr. Suresh Kumar Singer	 Dr. Shikha Anand Singer	 Dr. Anand Kumar Singer	 Dr. Suresh Kumar Singer	 Dr. Shikha Anand Singer	 Dr. Anand Kumar Singer	 Dr. Suresh Kumar Singer	 Dr. Shikha Anand Singer	 Dr. Anand Kumar Singer	 Dr. Suresh Kumar Singer	 Dr. Shikha Anand Singer
 Dr. Rajendra Kumar Singer	 Dr. Shikha Anand Singer	 Dr. Anand Kumar Singer	 Dr. Suresh Kumar Singer	 Dr. Shikha Anand Singer	 Dr. Anand Kumar Singer	 Dr. Suresh Kumar Singer	 Dr. Shikha Anand Singer	 Dr. Anand Kumar Singer	 Dr. Suresh Kumar Singer	 Dr. Shikha Anand Singer	 Dr. Anand Kumar Singer	 Dr. Suresh Kumar Singer	 Dr. Shikha Anand Singer

Inauguration by Honorable Sh. Ravi Shankar Prasad (Chief Guest)  
Union Minister- Law and Justice, Electronics and Information Technology and Communications

Turner Morrison Foundation Takshila

SPREADING HOPE AND POSITIVITY

At present the club has initiated the process of organizing a classical dance program on Gaudiya Nritya in collaboration with SPIC MACAY.

Sd-  
Dr. Soumi Bhattacharyya  
Principal Faculty Advisor  
SPIC MACAY Heritage Club  
GKCIET, Malda

Freshers' Welcome Webinar Swagatam 2020-21 batch of B.Tech

Date : 22nd April, (Thursday) 2021 ,Time : 10 AM

Freshers' Welcome Webinar Swagatam 2020-21 batch of Diploma Students

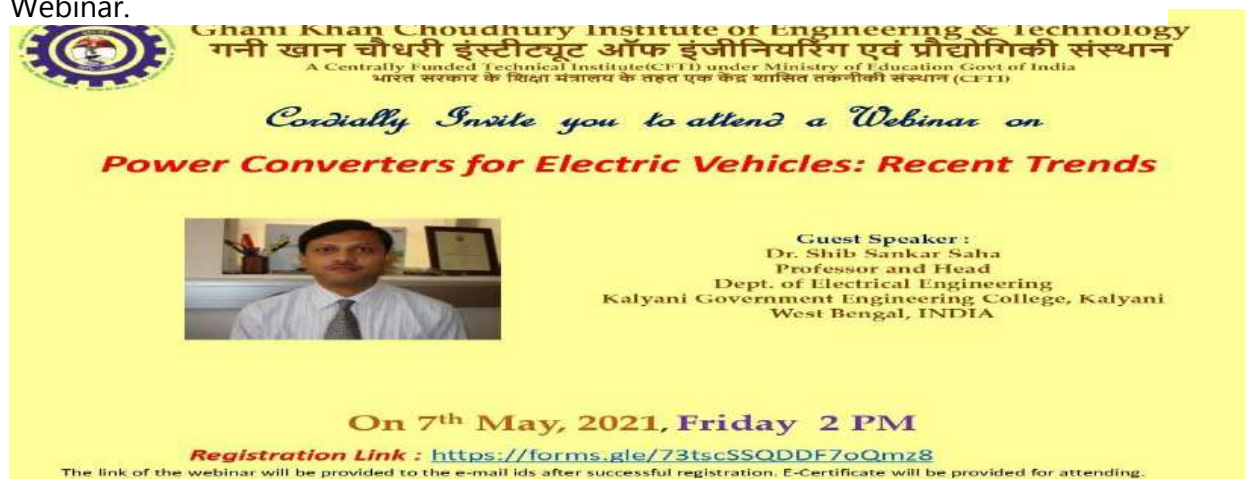
Date : 23rd April, (Friday), Time : 10 AM



Ghani Khan Choudhury Institute of Engineering and Technology is organising a Webinar on " Power Converters for Electric Vehicles: Recent Trends" on 7th May, 2021, Friday 2 PM Onwards. Interested faculty staff and students may register in the link below for attending the Webinar :

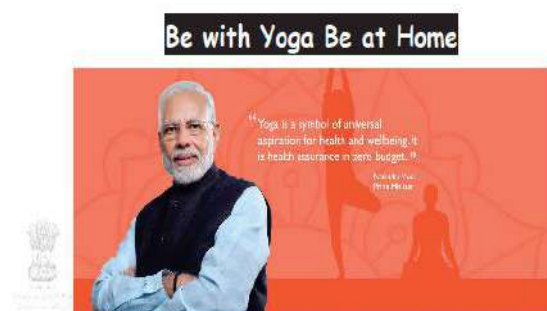
<https://forms.gle/9nJg5HjUbagyhhGS9>

The link of the Webinar will be provided in the Email ID of the participants. The last date of registration is 6th May, 2021, 12 Noon. There is no registration fee for this Webinar.





## International Day of Yoga on 21<sup>st</sup> June, 2021



**Message**

"Yoga is an invaluable gift of ancient Indian tradition. It embodies unity of mind and body; thought and action; restraint and fulfillment; harmony between man and nature and a holistic approach to health and well-being. Yoga is not about exercise but to discover the sense of oneness with ourselves, the world and Nature. By changing our lifestyle and creating consciousness, it can help us to deal with climate change."

Start your week with YOGA at

This year, due to the pandemic situation, the observation will be virtual just like IDY-2020. As in 2020, the national lead event of IDY-2021 is likely to be in the virtual/ televised mode. This year IDY is being observed with a thematic message of #Be with Yoga Be at Home.



### PROGRAMME OF CEREMONIES

Please connect with us & join @

<https://global.gotomeeting.com/join/894894973>

Time	PROGRAMME
07:30 to 07:32 am	Welcome of Hon'ble Director (GKCIET) & Chairman (BoG, GKCIET)
07:32 to 07:33 am	National Anthem
07:33 to 07:40 am	A short speech on fundamentals of yoga by Hon'ble Director, GKCIET
07:40 to 07:45 am	A short speech on yoga by Hon'ble Chairman, BoG, GKCIET
07:45 to 08:45 am	Common Yoga Protocol
08:45 am	Vote of THANKS



## Celebration of 75th Independence day of the Nation at GKCIET, Malda. 15th August, 2021.



Ek Bharat Shreshtha Bharat Club on 25<sup>th</sup> September, 2021



Students' performance in the cultural program on the occasion of Gandhi Jayanti on 2<sup>nd</sup> October, 2021



Present students of GKCIET may participate in the event on 23<sup>rd</sup> October, 2021





Ek Bharat Shreshtha Bharat club of GKCIET had celebrated Rstriyo Ekta Divas today 31st October, 2021. Nationwide this day is celebrated on the Birthday of Iron Man of India Sardar Vallabhbhai Patel. Faculty staff and students of the institute participated whole heartedly in the event. On this occasion a Walkathan was also organised in the memory of Sardar Patel and his contribution to the nation.



Foundation Day 1<sup>st</sup> November, 2021



GKCIET FB QUIZ: Testing Knowledge on 16<sup>th</sup> November, 2021

**When can the clauses of “Liquidated Damages” be applied in a civil construction work?**

- a. When contractor has lost all liquidity.**
- b. When contractor has damaged all the water pipes kept at site.**
- c. When the contractor fails to submit EMD during tendering.**
- d. When the contractor overshoots the time of completion of a project.**



## **Painting Competition will be organized on 4<sup>th</sup> December, 2021**

### **Rules for Painting Competition**

**Painting Competition** will be organized on 04<sup>th</sup> Dec 2021 by EBSB Cell, NIT Arunachal Pradesh in association with NIT Meghalaya and GKCIET, Malda, looking for an attractive Painting inculcating the theme of ‘**Traditional Dresses of North East India**’.

#### **Terms and Conditions:**

- Ø The contest is open to **NIT Arunachal Pradesh, NIT Meghalaya and GKCIET, Malda**.
- Ø **Digital painting** will not be considered for evaluation.
- Ø The winner will receive **attractive prize**.
- Ø Multiple paintings by the same participant would be considered but should be in one submission only.
- Ø Mention of your name(s)/contact number/email ID will only lead to qualification. Entries with incomplete profiles would not be considered.
- Ø Please note that the painting must be **one of the/your traditional dresses of North East India**.
- Ø Mention the **traditional dress name** at the bottom of your painting.
- Ø Paintings would be judged on the basis of **elements of first impression, creativity, originality, technical excellence, simplicity, and artistic merit**.
- Ø None of the paintings must contain any provocative, objectionable or inappropriate content.
- Ø All the paintings would be assessed by an Editorial Team. Their decision will be the final one.
- Ø Submit your paintings digitally to **Dr. K. Vijayakumar, Coordinator, EBSB, Email: [ebsbnitap@yahoo.com](mailto:ebsbnitap@yahoo.com)**.
- Ø The paintings are to be submitted from **10 am to 03 pm** on **04<sup>th</sup> Dec, 2021**. Paintings received after **03.00 pm** will not be considered for assessment. The results will be declared by 11<sup>th</sup> Dec. 2021.
- Ø Submit Self-declaration “I/We, the undersigned Mr/Ms/Dr ..... declare that the painting submitted hereby, titled “.....”, is my/our own painting and has not been previously submitted to any other competition/copied from any other resources”.

Dr. K. Vijayakumar  
Coordinator  
EBSB Club, NIT-AP







7<sup>th</sup> December, 2021




8<sup>th</sup> December, 2021



**GHANI KHAN CHOUDHURY INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(A Centrally Funded Technical Institute under the Ministry of H.R.D., Govt. of India)  
Narayapur, Malda, West Bengal-732141




**Virtual Labs**  
An MHRD Govt of India Initiative  
IIT Kharagpur



*in association with*

**Presents**

**A ONE DAY WORKSHOP ON**  
**"HANDS ON PRACTICE IN VIRTUAL LABORATORY"**  
**December 8, 2021**  
( 10 AM-10:30 AM)  
Inauguration of the Workshop  
( 10:30 AM-11:30 AM)  
Subject :Computer Science Engineering Virtual Laboratories  
( 11:30 AM-12:30 AM)  
Subject : Mechanical and Civil Engineering Virtual Laboratory  
(12:30 PM – 1:30 PM)  
Subject : Electrical and Electronics Engineering Virtual Laboratory



**Speaker**  
**Prof. Alok Kanti Deb**  
Outreach Co-ordinator, Virtual Labs,  
IIT Kharagpur

**Hands on Assistance**  
Virtual Laboratory Team of IIT Kharagpur

Ghani Khan Choudhury Institute of Engineering and Technology had organized a one day workshop on Virtual Laboratory in association with IIT Kharagpur on 8<sup>th</sup> December, 2021. Prof. Alok Kanti Deb , IIT Kharagpur visited the campus with his team of Virtual Laboratory and conducted the workshop for the students and

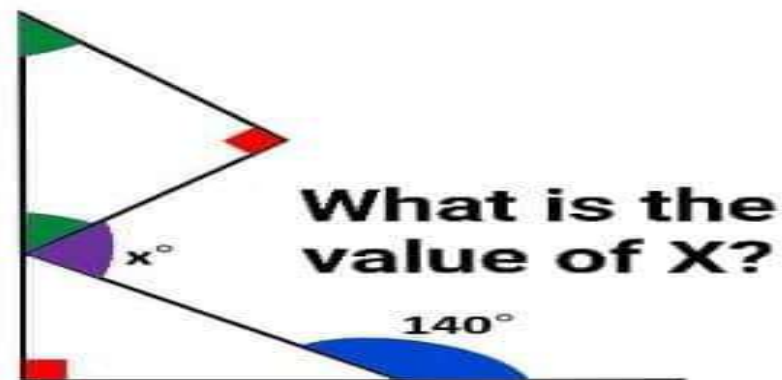
Teachers of the institute.  
9<sup>th</sup> December, 2021



GKCIET pays tribute to CDS Bipin Rawat Sir  
10<sup>th</sup> December, 2021

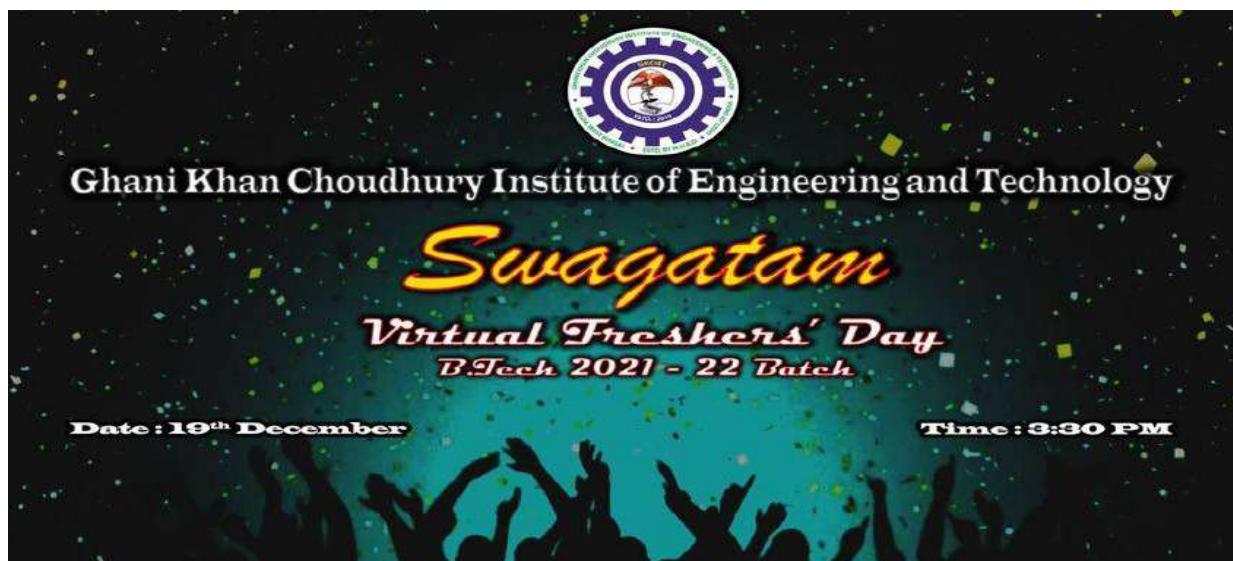


GKCIET FB Quiz: Testing Knowledge  
14<sup>th</sup> December, 2021





15<sup>th</sup> December, 2021

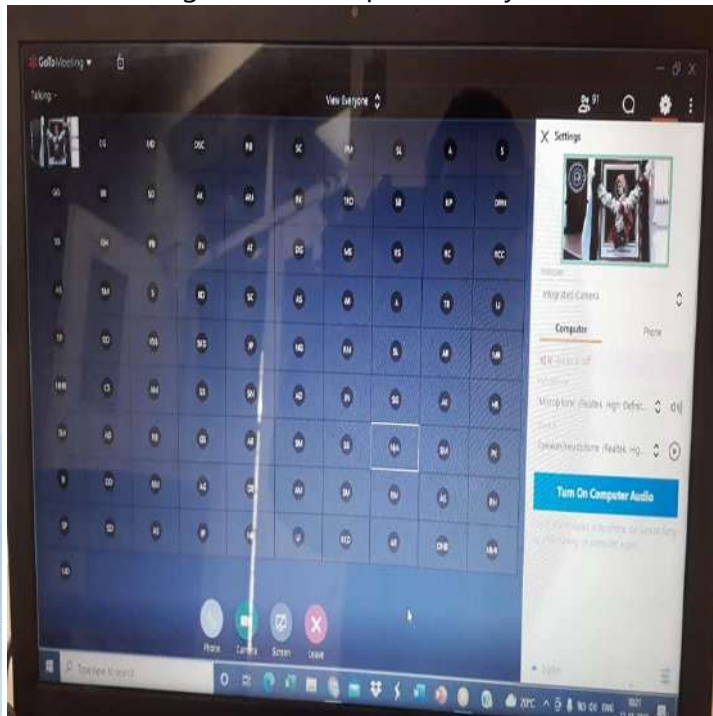




Ghani Khan Choudhury Institute of Engineering and Technology had organized the celebration of National Youth Day and Birth anniversary of Swami Vivekananda today 12th January, 2022 in virtual mode. On the occasion a debate competition for students was also organized on the topic " Artificial Intelligence will help humanity".



The poster features the GKCIET logo at the top. Below it, the text reads: "GHANI KHAN CHOUDHURY INSTITUTE OF ENGINEERING AND TECHNOLOGY (A Centrally Funded Technical Institute under the Ministry of Education, Govt. of India) Narayapur, Malda, West Bengal-732141 Celebrates National Youth Day and Birth Anniversary of Swami Vivekananda". A portrait of Swami Vivekananda is shown on the right. The main text says "National Youth Day 12 January 2022". A quote from Swami Vivekananda is included: "Talk to yourself once in a day, otherwise you may miss meeting an intelligent person in this world." The schedule lists an inaugural address by Prof. P. R. Alapati at 10:10 AM and a debate competition on "The development of artificial intelligence/Technology will help humanity" starting at 10:30 AM. The debate will be in Hindi, English, or Bengali. Registration and webinar links are provided at the bottom, along with the date "January 12, 2022".

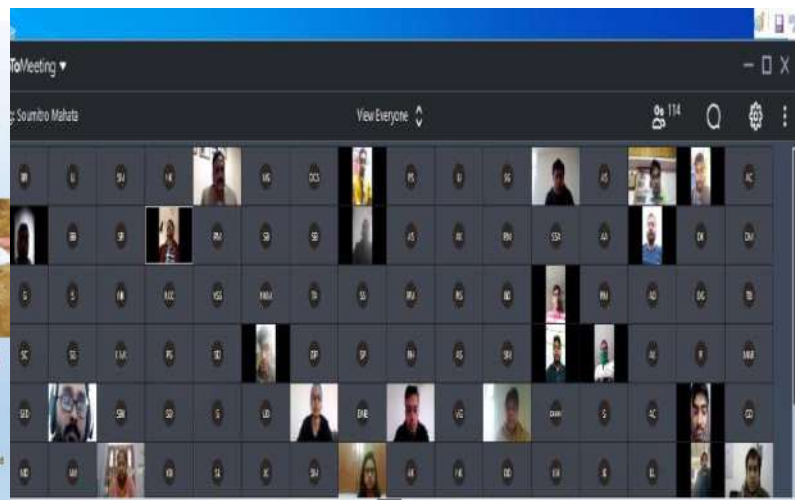


GKCIET Celebrates Birth Anniversary of Netaji Subhash Chandra Bose in the August presence of Hon'ble Director, Prof. P. R. Alapati 23<sup>rd</sup> January, 2022



On 24th January, 2022, Ghani Khan Choudhury Institute of Engineering and Technology celebrated National Girl child day through a Webinar. Hon'ble

Director, GKCIET Prof. P.R. Alapati addressed faculty, staff and students present online on the importance of the day. Dr. Nilkanta Barman and Dr. Koushik Paul also addressed the gathering on the occasion. Other faculty, staff and students also participated in the event.



Ghani Khan Choudhury Institute of Engineering and Technology celebrated 73rd Republic Day on 26th January, 2022 in the institute campus. Hon'ble Director GKCIET, Prof. P.R. Alapati addressed the gathering on this occasion. On this day Veterans India Run was organised for the faculty and staff of the institution in association with AICTE and Veterans India. This event was a part of Azaadi ka Amrut Mohotsav and Fit India freedom, initiatives of Gol. A day long sporting activit.





GKCIET by Hon'bl Minister Dr. Subhas Sarkar, MoS, Govt. India in the august presence of Prof. P. R. Alapati, Director, GKCIET, Malda, Govt. Of India 12<sup>th</sup> February, 2022



Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering and Technology Malda, West Bengal, is going to organise a second online International conference on “Emerging Technologies in Food Processing-II (ETFP-2022)” during March 25 and March 26, 2022.

<p><b>INTERNATIONAL CONFERENCE ON</b></p> <p><b>Emerging Technologies in Food Processing-II (ETFP-2022)</b></p> <p><b>March 25-26, 2022</b></p>  <p><b>Organized by</b> Department of Food Processing Technology Ghani Khan Choudhury Institute of Engineering and Technology Malda, West Bengal - 732101 Website: <a href="http://www.gkciet.ac.in">http://www.gkciet.ac.in</a></p>	<p><b>ABOUT THE INSTITUTE</b></p> <p>Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET) was established in the year of 2010 by the Ministry of Education, Govt. of India with the objective to create a world-class technical education and research center. The institute is an international institution for the development and transfer of technical competence in education. It is committed to provide the best possible technical education from grass root level to higher level and to cater to the specific needs of women, and other disadvantaged sections of the society by organizing a large number of short or long term skills training programs for economic upliftment and inclusive growth of the society.</p>  <p><b>ABOUT THE DEPARTMENT</b></p> <p>The Department of Food Processing Technology is one of the five constituent departments of the Institute. The aim of the department is to generate human resources capable of accepting the current and future challenges of food processing sector of the country. The department is currently offering 3 years Diploma and 4 years B.Tech. programs.</p>	<p><b>ABOUT THE PROGRAM</b></p> <p>The conference will provide a platform to the food scientists, young professionals, academicians, engineers, industrial personnel and leading industries across globe to share their research ideas. The conference will provide the scientific environment to discuss the new research ideas and will help new collaborations. The conference will focus on the various emerging technologies in food processing sector. Food being the perishable commodity, it is imperative to maintain the quality of food. The biggest challenge to the food technologists is to ensure the availability of safe, wholesome and sustainable food to the people. Food being the basic requirement for human to survive, it needs extra care to maintain the wholesome nature of food. It poses a lot of difficulties in reaching every corner of the world, in its natural form. Technological intervention in the sector of food processing is required to make food available in every corner of the world. Food processing technologies that make the food available for a more extended period need more advancement with aim to have maximum storage life and minimal effect on the wholesomeness of food. In this conference, food scientists will discuss the global and share their knowledge about various processing and technologies to have safe food for human.</p> <p><b>CONFERENCE THEMES</b></p> <ul style="list-style-type: none"> <li>Food Process Engineering</li> <li>Food Packaging and Preservation</li> <li>Food Security, Safety, and Sustainability</li> <li>Valorization of Food Processing By-Products</li> <li>Food Biotechnology and Microbiology</li> <li>Simulation and Modeling in Food Engineering</li> <li>Nutritional Food and Nutraceuticals</li> </ul>
<p><b>CALL FOR PAPERS</b></p> <p>Invited, original, scientific, research articles, reviews in the field of food processing and allied areas. The conference will accept research papers, posters and oral presentations for papers.</p> <p><b>SUBMISSION OF ABSTRACT</b></p> <p>Authors are invited to submit abstracts on or before 15<sup>th</sup> March 2022. The abstracts should be submitted in MS Word format (font size 12, single spaced, 15% margin) and should be submitted in PDF format. The abstracts should be submitted in the format of the abstract template provided. The abstracts should be submitted in the format of the abstract template provided. The abstracts should be submitted in the format of the abstract template provided.</p> <p><b>SUBMISSION OF FULL LENGTH PAPER</b></p> <p>The full length version of the full length paper should be submitted on or before 20<sup>th</sup> March 2022. The full length paper should be submitted in MS Word format (font size 12, single spaced, 15% margin) and should be submitted in PDF format. The full length paper should be submitted in the format of the full length paper template provided. The full length paper should be submitted in the format of the full length paper template provided.</p>	<p><b>ORGANIZING COMMITTEE</b></p> <p><b>Patron</b> Hon'ble Minister, Govt. of India Director, GKCIET</p> <p><b>Organizing Secretary</b> Dr. Subhas Sarkar, MoS, Govt. of India Dr. P. R. Alapati, Director, GKCIET Dr. Subhas Sarkar, MoS, Govt. of India Dr. P. R. Alapati, Director, GKCIET</p> <p><b>Co-organizing Secretary</b> Dr. Subhas Sarkar, MoS, Govt. of India Dr. P. R. Alapati, Director, GKCIET Dr. Subhas Sarkar, MoS, Govt. of India Dr. P. R. Alapati, Director, GKCIET</p> <p><b>IMPORTANT DATES</b></p> <p><b>Conference Dates:</b> 25<sup>th</sup> - 26<sup>th</sup> March, 2022 <b>Abstract Submission:</b> 15<sup>th</sup> March, 2022 <b>Acceptance of abstract:</b> 18<sup>th</sup> March, 2022 <b>Full Length Paper Submission:</b> 20<sup>th</sup> March, 2022</p> <p><b>MODE OF CONFERENCE</b></p> <p>The conference will be held on virtual mode. The details of the virtual mode will be provided to the participants in the conference.</p> <p><b>CONTACT PERSON</b></p> <p>Dr. K. B. Das, Director, GKCIET Dr. Subhas Sarkar, MoS, Govt. of India Dr. P. R. Alapati, Director, GKCIET Email: <a href="mailto:alapati@gkciet.ac.in">alapati@gkciet.ac.in</a> Department of Food Processing Technology Ghani Khan Choudhury Institute of Engineering and Technology Malda, West Bengal - 732101</p>	<p><b>ADVISORY COMMITTEE</b></p> <p><b>Members:</b> Dr. B. K. Das, Director, GKCIET Dr. P. R. Alapati, Director, GKCIET Dr. Subhas Sarkar, MoS, Govt. of India Dr. P. R. Alapati, Director, GKCIET Dr. Subhas Sarkar, MoS, Govt. of India Dr. P. R. Alapati, Director, GKCIET</p> <p><b>Patron:</b> Dr. Subhas Sarkar, MoS, Govt. of India Dr. P. R. Alapati, Director, GKCIET Dr. Subhas Sarkar, MoS, Govt. of India Dr. P. R. Alapati, Director, GKCIET</p> <p><b>Co-organizing Secretary:</b> Dr. Subhas Sarkar, MoS, Govt. of India Dr. P. R. Alapati, Director, GKCIET Dr. Subhas Sarkar, MoS, Govt. of India Dr. P. R. Alapati, Director, GKCIET</p> <p><b>Registration Details</b></p> <p><b>Registration Fee:</b> Rs. 500/- (One Thousand only) <b>Registration Fee:</b> Rs. 500/- (One Thousand only) <b>Registration Fee:</b> Rs. 500/- (One Thousand only)</p>

Celebration of Matribhasha Diwas on 21 Feb. 2022



1. International Women's day celebration. 8 March, 2022






## **ANNUAL REPORT: APRIL, 2021 – MARCH, 2022**

### **STORE AND PURCHASE**

#### **Profile of Store Section**

Office of the Store and Purchase
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	<p>Name: Dr. Dharmeswar Dash</p> <p>Designation: Controller, Store and Purchase</p>	<p>Contact Details</p> <p>Email: <a href="mailto:controller@gkciet.ac.in">controller@gkciet.ac.in</a></p> <p>Contact: +91 7866931519</p>	
Others Members			
Photo	Name of Employee	Designation	Email ID
	Antara Chowdhury	LDC	<a href="mailto:antara_ldc@gkciet.ac.in">antara_ldc@gkciet.ac.in</a>
	Md. Raju Mian	MTS	<a href="mailto:raju_mts@gkciet.ac.in">raju_mts@gkciet.ac.in</a>

**Procurement/ Purchase details**

As per the records entered in the fixed assets record book for the financial year 2021-22 the total information is being provided below:-

Sl. No.	Goods/ Items Name	Supplier	Challan/Bill No.	Date	Quantity	Rate per Unit	Amount	Remarks
1	30"X39" Black Stone Printing	Majumder Enterprise		11-02-2022	1	22,850.00	22,850.00	Direct Purchase
2	4 Port 3 GEAPON OLT	Farakka Broadband	2021-22/21	28-12-2021	1	44,360.00	44,360.00	LPC
3	4TB Portable External Hard Disk	Amazon.in (Appario Retail Pvt Ltd)	CCU-1-4685331	08-03-2022	1	7,999.00	7,999.00	Direct Purchase



4	6U Rack	Sarkar Electronics	1215	02-08-2021	2	4,400.00	8,800.00	LPC
5	6U Rack	Farakka Broadband	2021-22/21	28-12-2021	5	4,400.00	22,000.00	LPC
6	AC 18K 3 Star Emperia NX Split	Matri Electronics	ME/21-22/00329	07-09-2021	1	32,700.00	32,700.00	LPC
7	AC 18K 3 Star Emperia NX Split AC	Matri Electronics	ME/21-22/00330	07-09-2021	2	32,700.00	65,400.00	LPC
8	AC 24K Estrella NEO (3Star) WRAC AC R32	Matri Electronics	ME/21-22/00329	07-09-2021	1	33,425.00	33,425.00	LPC
9	AC 24K Estrella NX (3Star) WRAC AC R32	Matri Electronics	ME/21-22/00329	07-09-2021	1	33,425.00	33,425.00	LPC
10	AC 24K Estrella NX (3Star) WRAC AC R32	Matri Electronics	ME/21-22/00330	07-09-2021	1	33,425.00	33,425.00	LPC
11	AC Voltus 2.0Ton W AC 242 LZH	Matri Electronics	ME/21-22/338	11-09-2021	1	33,425.00	33,425.00	LPC
12	Allyson Adjustable Bench	Das Fitking	7	01-09-2021	2	7,000.00	14,000.00	LPC
13	ARD for Lift	Otis Elevator Company (India) Ltd	WB/T/21000326	17-08-2021	2	3,10,000.00	6,20,000.00	Tender
14	Auto PH Meter	Batra Trading Company	3952	15-11-2021	2	4,200.00	8,400.00	GeM
15	Avon Magnetic Recumbent Bike	Das Fitking	7	01-09-2021	1	22,818.00	22,818.00	LPC
16	Bitdefender Gravity Zone Business Security New 3Year	AIM Technosoft	AIMT/2122/542	15-06-2021	130	725.70	94,341.00	Before 3 Year LPC Purc

								hase, Rate same as earli er
1 7	Bitdefender Gravity Zone Business Security Renewal 3Year	AIM Technosoft	AIMT /2122/ 542	15- 06- 202 1	70	725. 70	50, 799 .00	Befo re 3 Year LPC Purc hase, Rate same as earli er
1 8	Black Board 6 mm Ply Yellow Framing 6'x4'	Deys	158	07- 12- 202 1	2	4,75 0.00	9,5 00. 00	Dire ct Purc hase
1 9	Bread Board	Deys	145	18- 11- 202 1	4	250. 00	1,0 00. 00	Dire ct Purc hase
2 0	Burple 5kg	Das Fitking	7	01- 09- 202 1	2	1,80 0.00	3,6 00. 00	LPC
2 1	Cabinet with 10 Nos Drawers with Locking System	Prasad Rexine	844	05- 11- 202 1	1	16,7 40.0 0	16, 740 .00	Dire ct Purc hase
2 2	Carry Foster Bridge	Orientallabs Retails Services Private Limited (Labkafe)	LK/21 - 22/A/ 0274	20- 11- 202 1	4	11,8 00.0 0	47, 200 .00	LPC
2 3	Ceiling Fan	Premlata Electricals	674	16- 032 022	6	2,45 0.00	14, 700 .00	LPC
2 4	Ceilling Fan (Usha Mango Lid Bloom)	Suraj Electrical	1326	05- 08- 202 1	1	2,70 0.00	2,7 00. 00	Dire ct Purc hase
2 5	Centre Table	Prasad Rexine	1081	10- 01- 202 1	3	10,5 00.0 0	31, 500 .00	LPC
2 6	Centre Table	Prasad Rexine	1202	14- 02- 202 2	1	11,7 00.0 0	11, 700 .00	Dire ct Purc hase
2 7	Centre Table	Prasad Rexine	1202	14- 02- 202	1	13,0 00.0 0	13, 000 .00	Dire ct Purc

				2				hase
28	Centre Table	Prasad Rexine	1203	14-02-2022	1	8,100.00	8,100.00	Dire ct Purchase
29	Centre Table	Prasad Rexine	1203	14-02-2022	1	8,900.00	8,900.00	Dire ct Purchase
30	Centre Table	Prasad Rexine	1203	14-02-2022	1	7,500.00	7,500.00	Dire ct Purchase
31	Chin-up Bar	Das Fitking	7	01-09-2021	1	2,500.00	2,500.00	LPC
32	Comot Hindware	M.C. Traders	74	18-02-2022	1	2,250.00	2,250.00	Dire ct Purchase
33	CP Plus Network Camera 4MP	Farakka Broadband	2021-22/21	28-12-2021	3	4,590.00	13,770.00	LPC
34	Crusial SSD 240 GB Sata	Digital Consultants	DC/GST/21-22/555	22-03-2022	50	2,525.00	1,262.50	LPC
35	Sandisk 2TB External Pro Portable SSD	Amazon.in (Appario Retail Pvt Ltd)	SCCG - 1019412	29-03-2022	1	29,069.00	29,069.00	Dire ct Purchase
36	CTL-6100WL/KO-CX Wacom New Intus Medium Bluetooth (Black)	India Webcomm Solution	PSI/GN/21-22/0726	19-06-2021	1	11,700.00	11,700.00	Dire ct Purchase
37	Digital Potentiometer	Astellar Lab Equipments	220	18-11-2021	2	11,100.00	22,200.00	GeM
38	D-Link RJ45	Farakka Broadband	30/2021-22	10-03-2022	1	495.60	495.60	Dire ct Purchase
39	Electric Calling Bell 12"	Suraj Electrical	2998	08-08-2021	2	1,500.00	3,000.00	Dire ct Purchase
40	LCD Micro Weighing Machine Capacity 220 g	Micro Technologies	283	02-03-2021	1	50,900.00	50,900.00	GeM

4 1	Electronics Weighing Scale Capacity 10 kg-1 kg	Maruti Weightech Private Limited	008/2021-22	07-04-2021	1	6,25 0.00	6,2 50. 00	GeM
4 2	Electronic Digital Balance Hexone Make Capacity 100kg	Sk Chemicals	2392	01-12-2021	1	15,0 00.0 0	15, 000 .00	Dire ct Purc hase
4 3	Electronics Digital Balance Hexane Make, Capacity 30kg	Sk Chemicals	2392	01-12-2021	1	9,00 0.00	9,0 00. 00	Dire ct Purc hase
4 4	Energy Band Gap Apparatus	Orientallabs Retails Services Private Limited (Labkafe)	LK/21 - 22/A/ 0274	20-11-2021	1	5,54 6.00	5,5 46. 00	LPC
4 5	Fancy Moragachha	Jagannath Basanalaya	1096	22-03-2022	1	12,1 90.0 0	12, 190 .00	Dire ct Purc hase
4 6	Fire Extinguisher DCP 4 kg Capacity	Fire Sheild Engineering Equipements	FSEE/332/21-22	18-11-2021	2	6,63 7.00	13, 274 .00	GeM
4 7	Fortigate 100F Appliances	AIM Technosoft	AIMT /2122/ 694	30-06-2021	1	1,28 ,738 .00	1,2 8,7 38. 00	LPC
4 8	G-Epon	Farakka Broadband	2021-22/21	28-12-2021	1	2,39 0.00	2,3 90. 00	LPC
4 9	Glass Prism 60°x60°x60°	Orientallabs Retails Services Private Limited (Labkafe)	LK/21 - 22/A/ 0274	20-11-2021	10	82.6 0	826 .00	LPC
5 0	Glass Slab	Deys	145	18-11-2021	4	125. 00	500 .00	Dire ct Purc hase
5 1	Godrej Scout 1 str Recliner	Bilash Enterprise	769	09-12-2021	1	29,8 20.0 0	29, 820 .00	LPC
5 2	Grating Holder with rod	Orientallabs Retails Services Private Limited (Labkafe)	LK/21 - 22/A/ 0274	20-11-2021	2	177. 00	354 .00	LPC
5 3	Handy PH Meter	Tej Corporation	TEJ/21-22/149	15-11-2021	2	746. 00	1,4 92. 00	GeM
5 4	Hercules Elliptical with Saddle Magnetic	Das Fitking	7	01-09-	1	24,2 91.0	24, 291	LPC

	Tension			2021		0	.00	
55	Hercules Ellitical Mannal Magnetic Tension (EL39)	Das Fitking	7	01-09-2021	1	28,341.00	28,341.00	LPC
56	Hercules Multigym-100 lbs	Das Fitking	7	01-09-2021	1	53,991.00	53,991.00	LPC
57	Hercules Treadmil 2.5 HP - Motorised	Das Fitking	7	01-09-2021	1	33,291.00	33,291.00	LPC
58	Hikvision 4MP IP Dome Camera	Sarkar Electronics	1215	02-08-2021	18	4,450.00	80,100.00	LPC
59	Hooks Law Setup	Sk Chemicals	2399	06-12-2021	1	1,250.00	1,250.00	Direct Purchase
60	HP Desktop 800 G6	P.R. Computer	PRC/GST/21-22/73	20-07-2021	2	1,36,500.00	2,73,000.00	GeM
61	Induction Melting & Tilting Furnace (Floor Model)	Naskar and Company	16/2021-2022	06-10-2021	1	11,35,425.00	11,35,425.00	Tender
62	Kirshhoff's Law Setup	Sk Chemicals	2399	06-12-2021	1	3,600.00	3,600.00	Direct Purchase
63	Magnifier	Orientallabs Retails Services Private Limited (Labkafe)	LK/21-22/A/0274	20-11-2021	2	153.40	306.80	LPC
64	Mercury Lamp Wooden SLIT Box	Orientallabs Retails Services Private Limited (Labkafe)	LK/21-22/A/0274	20-11-2021	1	1,416.00	1,416.00	LPC
65	Meter Scale	Deys	145	18-11-2021	2	150.00	300.00	Direct Purchase
66	Methodex Intellect 01 (NSK0L01) Metal Selving Rack	Methodex Systems Pvt Ltd	CL/R S/21/0814	31-03-2021	10	23,500.00	2,35,000.00	GeM
67	Mili Ammeter & Voltas meter	Deys	145	18-11-2021	4	600.00	2,400.00	Direct Purchase



68	Multimeter	Deys	145	18-11-2021	3	250.00	750.00	Direct Purchase
69	NVR CP Plus 32 Channel CP-UNR-4K4322-V2	Sarkar Electronics	1215	02-08-2021	1	13,200.00	13,200.00	LPC
70	NVR CP Plus 32 Channel CP-UNR-4K4322-V2	Farakka Broadband	2021-22/21	28-12-2021	1	12,800.00	12,800.00	LPC
71	Office Chair (HB)	M/S TM Enterprise	TME/04/2021-22	09-02-2022	1	18,500.00	18,500.00	LPC
72	Office Chair (MB)	M/S TM Enterprise	TME/04/2021-22	09-02-2022	1	10,000.00	10,000.00	LPC
73	Visitor Chair	M/S TM Enterprise	TME/04/2021-22	09-02-2022	8	6,900.00	55,200.00	LPC
74	Office Table	Prasad Rexine	1081	10-01-2021	23	8,800.00	2,02,400.00	LPC
75	OHM's Law Apparatus	Deys	145	18-11-2021	1	2,500.00	2,500.00	Direct Purchase
76	PH 244 Steel Wire 100gm	Orientallabs Retails Services Private Limited (Labkafe)	LK/21-22/A/0274	20-11-2021	10	94.40	944.00	LPC
77	PoE Switch 8 Port - DH-PFS3010-8ET-65	Sarkar Electronics	1215	02-08-2021	3	3,800.00	11,400.00	LPC
78	PoE Switch 8 Port - DH-PFS3010-8ET-65	Farakka Broadband	2021-22/21	28-12-2021	1	3,700.00	3,700.00	LPC
79	Power Supply (DC Regulated)	Orientallabs Retails Services Private Limited (Labkafe)	LK/21-22/A/0274	20-11-2021	1	7,080.00	7,080.00	LPC
80	Printer Cannon LBP 6030B	Digital Systems & Solution	Dss/GST/2587	01-09-2021	1	11,400.00	11,400.00	Direct Purchase
81	Printer HP Colour Laser jet 150 NW	Vrindavan Store	VS/E/262/2	08-11-	2	32,990.00	65,980.00	LPC

			1-22	2021		0	.00	
82	Printer HP M1136	Digital Systems & Solution	DSS/GST/2586	01-09-2021	1	18,300.00	18,300.00	Direct Purchase
83	Printer TVS Barcode LP46 Neo	Farakka Broadband	30/2021-22	10-03-2022	1	14,200.12	14,200.12	Direct Purchase
84	Reagent Bottle	Orientallabs Retails Services Private Limited (Labkafe)	LK/21 - 22/A/0274	20-11-2021	2	153.40	306.80	LPC
85	Resistance Coil Round	Orientallabs Retails Services Private Limited (Labkafe)	LK/21 - 22/A/0274	20-11-2021	5	47.20	236.00	LPC
86	Rheostat - 100Ω	Deys	145	18-11-2021	1	975.00	975.00	Direct Purchase
87	Scanner Cannon LIDE 300	Pankaj Enterprise	1968	03-11-2021	1	5,300.00	5,300.00	Direct Purchase
88	Scanner Epson perfection V39 Flated Colour	Digital Consultants	60	26-01-2022	1	7,800.00	7,800.00	Direct Purchase
89	Specific Gravity Bottle 25CC	Sk Chemicals	2399	06-12-2021	2	110.00	220.00	Direct Purchase
90	Specific Gravity Bottle 50 CC	Sk Chemicals	2399	06-12-2021	1	120.00	120.00	Direct Purchase
91	Screw Gauge	Sk Chemicals	2399	06-12-2021	4	360.00	1,440.00	Direct Purchase
92	Searal's Apparatus (Brass)	Orientallabs Retails Services Private Limited (Labkafe)	LK/21 - 22/A/0274	20-11-2021	1	2,065.00	2,065.00	LPC
93	Speaker i-Ball	Amazon.in (Aaptica Retail Corporation)	BOM 7-3554	09-02-2022	1	650.00	650.00	Direct Purchase
94	Spherometer	Sk Chemicals	2399	06-12-2021	4	300.00	1,200.00	Direct Purchase

95	Spray Machine	R. A. Electricals	1	15-02-2022	2	4,000.00	8,000.00	Direct Purchase
96	SS Milk Cane	Malda Distract Service cum Marketing Industrial Co-operative Union Ltd.	1657	08-09-2021	1	750.00	750.00	Direct Purchase
97	Steel Handi with Cover	Laxmi Aluminium Stores	210	04-09-2021	1	650.00	650.00	Direct Purchase
98	Steel Suspen with Cover	Laxmi Aluminium Stores	210	04-09-2021	1	1,200.00	1,200.00	Direct Purchase
99	Submersible Pump (2HP)	Premlata Electricals	690	30-03-2022	1	44,445.00	44,445.00	LPC
100	Surveillance HDD WD Purple	Sarkar Electronics	1215	02-08-2021	2	13,900.00	27,800.00	LPC
101	Tonner Cart for 150W Set of 4	Vrindavan Store	VS/E/262/21-22	08-11-2021	2	20,400.00	40,800.00	LPC
102	TP Link Switch 24 Port Gigabyte	Farakka Broadband	2021-22/21	28-12-2021	4	5,980.00	23,920.00	LPC
103	Trolley Aristocraft 78	Malda Chhata Bhandar	1825	06-11-2021	1	5,990.00	5,990.00	Direct Purchase
104	Trolley Skybags 78	Malda Chhata Bhandar	1825	06-11-2021	1	6,950.00	6,950.00	Direct Purchase
105	Ultrasonic Homogenizer	BR Biochem Life Science Pvt. Ltd	BRBL S/20-21/1472	23-03-2021	1	2,800.00	2,800.00	GeM
106	UPS 650 Microtek Legend	Digital Systems & Solution	DSS/GST/2611	01-09-2021	1	2,500.00	2,500.00	Direct Purchase
107	UPS Luminous Pro 600	Farakka Broadband	2021-22/21	28-12-2021	1	1,920.00	1,920.00	LPC
108	Vernier Caliper	Sk Chemicals	2399	06-12-	4	450.00	1,800.00	Direct

8				2021			00	Purchase
109	Visual Display Unit - Wall Mounted	Das Fitking	7	01-09-2021	1	22,000.00	22,000.00	LPC
110	Voltage Stabilizer V-Guard (VGB-500 Model) Digital	Premlata Electricals	525	16-05-2021	2	8,000.00	16,000.00	Direct Purchase
111	Voltage Stabilizer V-Guard (VGB-500 and VGB-40 Model) Digital	Premlata Electricals	540	24-06-2021	2	8,000.00	16,000.00	Direct Purchase
112	Wacom Tutous Bluetooth CTL Tablet/ Writing Pad	Amazon.in (Appario Retail Private Ltd.)	CCUI - 4208550	13-01-2022	1	11,730.00	11,730.00	Direct Purchase
113	Wall Mount for Searal's Apparatus	Orientallabs Retails Services Private Limited (Labkafe)	LK/21 - 22/A/0274	20-11-2021	1	236.00	236.00	LPC
114	Wall Mounting Fan	Premlata Electricals	645	10-03-2022	1	3,360.00	3,360.00	Direct Purchase
115	Western Digital Elements ITB Portable External Hard Drive (Black)	Amazon.in (Appario Retail Private Ltd.)	HYD3 - 685729	22-06-2021	1	3,799.00	3,799.00	Direct Purchase
116	White Screen Wooden 40x40 cm	Orientallabs Retails Services Private Limited (Labkafe)	LK/21 - 22/A/0274	20-11-2021	2	408.00	816.00	LPC
117	Wire Cutter	Sk Chemicals	2399	06-12-2021	1	60.00	60.00	Direct Purchase
<b>Total</b>							<b>46,73,926.32</b>	





# FINANCE REPORT 2021-22

## FINANCE REPORT

### 1. Details of Fund Received for Ministry for the financial year 2021-22

Object Head	Amount (Rs. In Lakh)
OH-31 Plan (Recurring/Non-Recurring)	100.00
OH-35 (Plan Capital / Assets (Non-Recurring)	2170.00
OH-36 Salary (Recurring)	1190.00

<b>Sub Total Rs.</b>	<b>3460.00</b>
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## 2. Details of Expenditure for the financial year 2021-22

Object Head	Amount (Rs. In Lakh)
OH-31 Plan (Recurring/Non-Recurring)	479.59
OH-35 (Plan Capital / Assets (Non-Recurring))	1981.94
OH-36 Salary (Recurring)	1007.58
<b>Sub Total Rs.</b>	<b>3469.11</b>

**FINANCE REPORT**

## 3. Details of Fund Received for Ministry for the financial year 2021-22

Object Head	Amount (Rs. In Lakh)
OH-31 Plan (Recurring/Non-Recurring)	100.00
OH-35 (Plan Capital / Assets (Non-Recurring))	2170.00
OH-36 Salary (Recurring)	1190.00
<b>Sub Total Rs.</b>	<b>3460.00</b>

## 4. Details of Expenditure for the financial year 2021-22

Object Head	Amount (Rs. In Lakh)
OH-31 Plan (Recurring/Non-Recurring)	479.59
OH-35 (Plan Capital / Assets (Non-Recurring))	1981.94
OH-36 Salary (Recurring)	1007.58
<b>Sub Total Rs.</b>	<b>3469.11</b>

Present condition of fire and safety system of the institute, GKCIET, Malda as on March'2022.

The numbers of fire extinguishers installed at the different buildings (Block A- 16 Nos, Block B- 16 Nos, Block C- 15 Nos, Admin Blok- 06 Nos and Substation- 02 Nos, Total= 55 Nos) and as well as Newly constructed Girls hostel.

The construction process of Under Ground Tank is under process, as a result the fire and safety system was not ready for proper working. Also the fire water line for fire safety system is connected with UGT, but interrupted water supply could not provide by the NBCC till date due to ongoing construction work.

Officer

Fire & Safety

GKCIET, Malda

Annual Report: Photography Club:

As per Memo No. : WB SCTVESD/TED/12021-22/0935 Dated: 15th February, 2022 few GKCIET students participated in the a “Videography Skill Competition” that was held with other Polytechnic and ITI students.

