ANNUAL REPORT

2019-2020

GOVERNMENT COLLEGE OF ENGINEERING

&

CERAMIC TECHNOLOGY

73 A.C. Banerjee Lane, Kolkata 700 010, West Bengal, India

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PREFACE

I, on behalf of all faculties and staff, welcome you heartily to the Government College of Engineering and Ceramic Technology (GCECT), Kolkata. I also congratulate you for choosing GCECT to reach the goal. This Institute (established on 3rd April, 1941), the then College of Ceramic Technology (Bengal Ceramic Institute) has been one of the oldest technological colleges in Kolkata and the only full-fledged college in India offering B. Tech, M. Tech. and Ph. D. programs in Ceramic Technology along with hands on trainings in traditional potteries and other ceramic products since its inception. The college has already completed 75 years of its glorious existence. The alumnus of the institute are well established in their professional career and spread all over the world. They are the flag bearers of the institute.

Initiating as a Diploma level institute, it was then elevated to a Degree college under Higher Education Department, Government of West Bengal and was affiliated to the University of Calcutta in the year 1962.

The institute has emerged as one of the best temples of learning and started transforming from mono-discipline institute to multi-discipline institute with the introduction of Information Technology and Computer Science & Engineering programs in 2000 and 2001 respectively. Now, the college is affiliated to Maulana Abul Kalam Azad University of Technology (MAKAUT), formerly West Bengal University of Technology since 2001.

Research & Development are an integral part of this institute of higher learning. The institute has good research activities in the under-graduate level. From 2006-2007, students from different background are reaping the benefit of M. Tech. program in Ceramic Technology. The introduction of M. Tech program in Ceramic Technology has enormously increased the scope & possibilities for research and development. Almost all teachers, students and scholars of the college are involved in research and development activities. M. Tech. program in Information Technology has also started its journey since 2014.

GCECT received World Bank assistance under Technical Education Quality Improvement Programme (TEQIP) Phase- I and successfully reaped tangible benefits by implementing various reform measures as per guidelines resulting into development and upgradation of various laboratories and infrastructure of the whole college in recent past.

The college also acquired one acre of land from adjacent West Bengal Small Industries Development Corporation Limited (WBSIDCL) to augment its infrastructure.

Recently, the college received prestigious NAAC grad 'A' accreditation, a certification of the quality of the institute in the national benchmark. As a consequence, the college received a substantial grant from Rashtriya Uchchatar Shiksha Abhiyan (RUSA). The grand has been used for the construction of hostel and other infrastructure. Now-a-days, the college has been able to establish its proud position in the country. This college is not only providing latest technology oriented courses but also is equipped with good laboratory, library and other students' amenities. The student get the scope of being guided by renowned and eminent faculties to build their career.

All members of GCECT will put their best effort to ensure that the student of the institute receive the best training to become globally competitive professional with all human values to be useful for the society.

Prof. (Dr.) Krishnendu Chakrabarty
Principal
Govt. College of Engg. & Ceramic Technology

CONTENTS

Vision of the Institute

To cultivate excellence in various fields of engineering and technology by imparting core knowledge to the students and to transform the institution into a centre of academic excellence and advanced research apart from producing skilled technologists.

Mission of the Institute

- To impart high quality technical education that will produce globally competitive engineers &technologists.
- To inculcate entrepreneurial skill and leadership quality amongst potential students.
- To stress upon acquiring advanced knowledge and research acumen among faculties and students.
- To create compassionate, responsible and innovative global citizens.

(i) CT Department

Vision Statement:

To emerge as a world class centre for education and research in the field of Ceramics, Glass and allied materials to serve the Industry and the society at large.

Mission Statement:

- To generate an environment in the department for advanced research and innovation with a view to imparting quality teaching and training in the area of Ceramics, Glass and allied materials.
- To produce graduates with a strong foundation in the area of Ceramic and Glass Technology to cater to the needs of Industry, Academia and Research organization in India and abroad.
- To emphasize Institute-Industry interaction to make the students aware of real problems in the Industries and solutions thereof.
- To motivate the faculties for meeting the requirement of leaders in industry, academic & research institutes and society.

(ii) IT Department

Vision Statement:

The Department of Information Technology of this institute envisions itself to be in the top tier departments of the country that will be recognized for its technological advancement in teaching, learning, research and innovation and serve to address evolving global needs.

Mission Statement:

- To give high quality education to educate future leaders and contribute to the professional workforce in engineering and technology.
- To inspire learners to excel in research and innovation, collaborative activities, technologies and systems with a positive contribution to the society.

(iii) CSE Department

Vision Statement:

The Computer Science & Engineering department of this Institute is committed to become a centre of excellence to meet the sprouting global challenges by imparting education and research of highest quality and thus ensures to maintain its status as a pivotal or nodal agency or a nucleus of the overall technological growth in the domain of Computer Science.

Mission Statement:

- To present our student with up-to-date curricula and pedagogy in the computer science and thus ensure that they have a solid foundation in the core concepts, equip them with problem solving and decision making skills, and prepare them for lifelong learning in the discipline.
- To produce graduates that are knowledgeable, articulate, principled, innovative, confident, and able to think critically
- To provide for and encourages collegial, intellectual and academic growth of its faculty.
- To perform research that advances the state-of–the–art in computer science.
- To inculcates the values enshrined in the Constitution and demonstrate a sense of societal and ethical responsibility in all professional endeavors.

PART 1: ADMISTRATIONS

1. Board of Governors of the College

1.	Prof. Binay K. Dutta, Formerly Chairman, West Bengal Pollution Control Board (Educationist)	Chairman
2.	Prof. Mehtab Alam, Jamia Milla University, New Delhi (UGC Nominee)	Member
3	Dr. Arup Kumar Chattopadhayay, MD, National Refractories (Educationist)	Member
4.	The Director of Technical Education, West Bengal (Govt. nominee)	Member
5.	The Registrar, Maulana Abul Kalam Azad University of Technology (University Nominee)	Member
6.	Prof. Bimal Kumar Roy, Formerly Director, ISI, Kolkata (Educationist)	Member
7.	Dr. Rituparno Sen, Professor & HOD, Ceramic Technology, Govt. College of Engg. & Ceramic Technology, Kolkata (Faculty nominated by the Principal)	Member
8.	Mr. Ranjan Ray, Associate Professor of Chemical Technology, Govt. College of Engg. & Ceramic Technology, Kolkata (Faculty nominated by the Principal)	Member
9.	The Principal, Govt. College of Engg. & Ceramic Technology, Kolkata	Ex-Officio Member Secretary

2. Administrative and Academic Positions

1.	Principal	Prof. (Dr.) Krishnendu Chakrabarty
2.	Controller of Examinations	Mr. Partha Haldar
3.	HOD of Ceramic Technology	Prof. (Dr.) Rituparna Sen
4.	HOD of Information Technology	Prof. (Dr.) Mousumi Maitra (Majumdar)
5.	HOD of Computer Science & Engineering	Dr. Kalpana Saha (Roy)
6.	HOD of Basic Science, Humanities & Engineering	Dr. Debdarpan Khan
7.	Registrar	Mr. Jayanta Kumar Chowdhury
8.	Accounts Officer	Ms. Sulagna Chatterjee
9.	Librarian	Dr. Nikhil Kumar Jas
10.	Advisor of Training & Placement Cell	Mr. Prithwijit Guha

3. Faculty Members

(i) Permanent Teachers

Ceramic Technology Department			
	Name	**Designation**	**Subject**
1.	Dr. Rituparna Sen	Professor	Ceramic Technology
2.	Mr. Ranjan Roy	Associate Professor	Chemical Technology
3.	Dr. Srimanta Kumar Patra	Associate Professor	Ceramic Technology
4.	Mr. Ram Chandra Das	Associate Professor	Ceramic Technology
5.	Dr. Kaberi Das	Associate Professor	Ceramic Technology
6.	Dr. Tapas Kumar Bhattacharya	Assistant Professor	Ceramic Technology
7.	Dr. Barun Kumar Sanfui	Assistant Professor	Ceramic Technology
Information Technology Department			
	Name	**Designation**	**Subject**
1.	Dr. Mausumi Maitra (Majumdar)	Professor	Information Technology
2.	Mr. Paramita Dey	Assistant Professor	Information Technology
3.	Mr. Ritwik Mondal	Assistant Professor	Information Technology
4.	Mrs. Shyama Mondal	Assistant Professor	Information Technology
5.	Mr. Pranay Adak	Assistant Professor	Information Technology
6.	Mr. Atanu Kumar Paul	Assistant Professor	Information Technology
Computer Science & Engineering Department			
	Name	**Designation**	**Subject**
1.	Dr. Kalpana Saha (Roy)	Assistant Professor	Computer Sc. & Engineering
2.	Mr. Bimal Pal	Assistant Professor	Computer Sc. & Engineering
3.	Mr. Soumit Chowdhury	Assistant Professor	Computer Sc. & Engineering
4.	Mrs. Sohini Dasgupta (On Leave)	Assistant Professor	Computer Sc. & Engineering
5.	Dr. Partha Ghosh	Assistant Professor	Computer Sc. & Engineering
6.	Mr. Ranjit Kumar Mandal	Assistant Professor	Computer Sc. & Engineering
7.	Dr. Kingshuk Chatterjee	Assistant Professor	Computer Sc. & Engineering
Basic Science, Engineering & Humanities Department			
	Name	**Designation**	**Subject**
1.	Dr. Krishnendu Chakrabarty	Professor	Electrical Engineering
2.	Mr. Alok Mukherjee	Assistant Professor	Electrical Engineering
3.	Dr. Pinaki Mukherjee	Associate Professor	Electronics
4.	Dr. Debdarpan Khan	Associate Professor	Geology
5.	Dr. Saibal Ray	Associate Professor	Physics
6.	Dr. Rajkumar Chakraborty	Associate Professor	Physics
7.	Dr. Prasenjit Paul	Assistant Professor	Physics
8.	Dr. Nilesh Mazumder	Assistant Professor	Physics
9.	Dr. Debdulal Maity	Assistant Professor	Chemistry
10.	Mr. Ambika Prasad Mukhopadhyay	Assistant Professor	Chemistry
11.	Mrs. Indrani Nag Chaudhuri	Assistant Professor	Economics
12.	Mr. Partha Haldar	Assistant Professor	Mechanical Engineering

(ii) State-Aided College Teachers

Ceramic Technology		
1.	Dr. Madhu Sudan Dutta	Ceramic Technology
2.	Mr. Pappu Halder	Ceramic Technology
3.	Miss Ruma Mallik	Ceramic Technology
4.	Miss Sangita Ghosh	Ceramic Technology (Biology)
Information Technology		
1.	Miss Shampa Mahato	Information Technology
2.	Miss Maumita Maity	Information Technology
3.	Mr. Sudip Kuila	Information Technology
4.	Miss Ananya Biswas	Information Technology
5.	Miss Bidisha Ghosh	Information Technology
6.	Mrs. Minakshi Acharya	Information Technology
7.	Dr. Rayan Saptarshi Roy	Information Technology
8.	Mrs. Susmita Samaddar	Information Technology
Computer Science & Engineering		
1	Mr. Bishwarup Das	Computer Science & Engineering
2	Dr. Bijoy Kumar Mandal	Computer Science & Engineering
3	Mrs. Rima Bhowmick	Computer Science & Engineering
4	Mrs. Sucharita Mondal	Computer Science & Engineering
5	Mrs. Pallavi Pyne	Computer Science & Engineering
6	Mrs. Amrita Biswas	Computer Science & Engineering
7.	Mr. Aritra Mahapatra	Computer Science & Engineering
Basic Science, Engineering & Humanities		
1.	Mrs. Sonali Sarkar	Ethics
2.	Mrs. Ipsita Pathak	Communicative English
3.	Mr. Firoj Mahamud	Mathematics

(iii) Profile of the other staff of the college

1.	Mr. Jayanta Kr. Chowdhury	*Registrar*
2.	Ms. Sulagna Chatterjee	*Accounts Officer & DDO (WBA & AS)*
3.	Dr. Nikhil Kumar Jas	*Librarian*
4.	Mr. Samir Biswas	*UDC & Storekeeper*
5.	Mr. Krishnendu Chatterjee	*P.A. to Principal*
6.	Mr. Rajib Chakraborty	*Technical Assistant*

7.	Mr. Rahul Mitra	*Fitter*
8.	Mr. Jiban Chandra Dey	*Lab Attendant*
9.	Mrs. Jhunu Rani Pramanick	*Peon*
10.	Miss. Kismatara Khatun	*Peon*
11.	Mrs. Pumpa Sarkar	*Peon*
12.	Mr. Soumya Chatterjee	*Peon*
13.	Mr. Jiwat Kr. Rajbhar	*Durwan*
14.	Mr. Birbal Das	*Durwan*
15.	Miss. Suman Jamadarni	*Sweeper*

PART 2: ACADEMICS

1. Academic Programmes Pursued

B. Tech and M. Tech Programmes in the following disciplines:

i)	Ceramic Technology [*B. Tech. and M. Tech. Programmes*]
ii)	Information Technology [*B. Tech. and M. Tech. Programmes*]
iii)	Computer Science and Engineering [*B. Tech. Programme*]

2. Students Profile

(i) B. Tech Programme in the following disciplines:

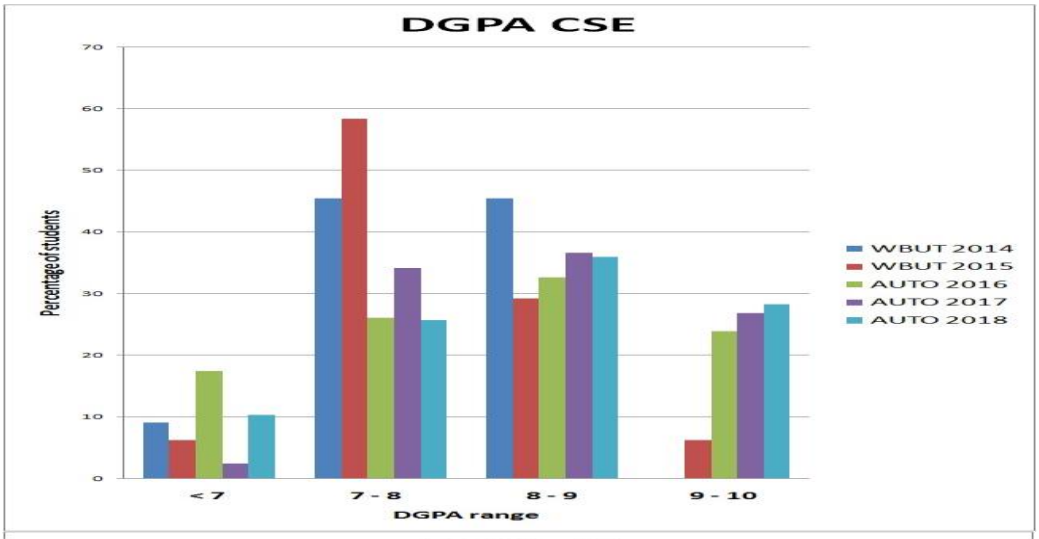
Discipline	***First Year***	***Second Year***	***Third Year***	***Forth Year***
Ceramic Technology	34	28	30	32
Information Technology	41	37	30	32
Computer Science and Engineering	31	49	45	45

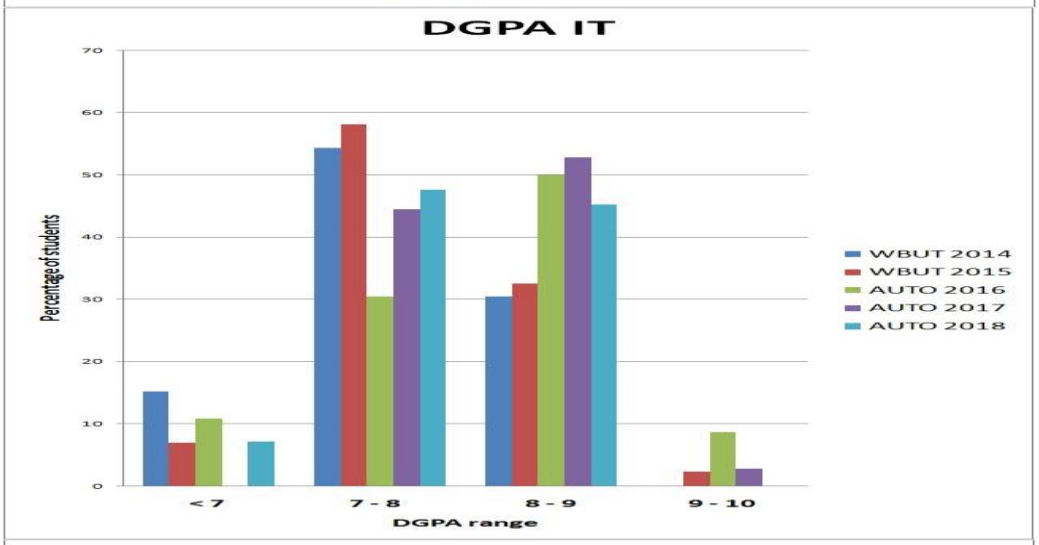
(ii) M. Tech Programme in the following disciplines:

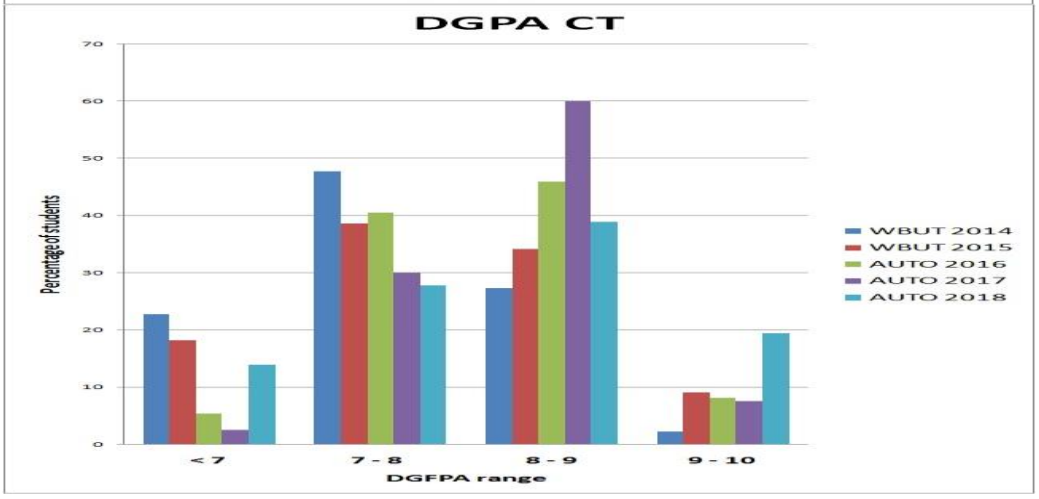
Discipline	***First Year***	***Second Year***
Ceramic Technology	00	04
Information Technology	11	10

(iii) Students Results:

Stream/DGPA	< 7	7-8	8-9	9-10
CSE (Total 45 students)	0	9	20	16
Percentage	0	20	44.44	35.56
IT (Total 32 students)	1	8	17	6
Percentage	3.13	25	53.13	18.75
CT (Total 32 students)	3	13	11	5
Percentage	9.38	40.63	34.38	15.63


DGPA CSE
Percentage of students
70
60
50
40
30
20
10
0
< 7
7 - 8
8 - 9
9 - 10
DGPA range
WBUT 2014
WBUT 2015
AUTO 2016
AUTO 2017
AUTO 2018


DGPA IT
Percentage of students
70
60
50
40
30
20
10
0
< 7
7 - 8
8 - 9
9 - 10
DGPA range
WBUT 2014
WBUT 2015
AUTO 2016
AUTO 2017
AUTO 2018


DGPA CT
Percentage of students
70
60
50
40
30
20
10
0
< 7
7 - 8
8 - 9
9 - 10
DGFPA range
WBUT 2014
WBUT 2015
AUTO 2016
AUTO 2017
AUTO 2018

3. Exchange programme

Name of the activity	Participants	Source of financial support	Duration	Department
Internship programme	27	TCS	90	IT
Internship programme	25	WIPRO	90	IT
Internship programme	34	WIPRO	90	CSE
Summer Internship	2	Amity University	60	CT
Training Internship	1	HR Johnson	42	CT
Summer Internship	1	R.K. Mission University, Belur	60	IT

4. Industrial Training programmes

(i) CT department (25.05.2020 – 10.07.2020)

Participant	Name of the partnering institution/ industry /research lab with contact details
Aakash Dalui	SRU IFICO, RINL VIZAG
Abhinav Burman	CALDERYS
Arka Chakraborty	CGCRI, National Refractories
Debarati Dutta	RHI Magnesita, IIT Guwahati
Madhumita Dutta Chowdhury	CALDERYS
Md. Sayed Ali	CUMI, RINL VIZAG
Pallabi Mondal	H&R Johnson, RINL VIZAG
Partha Das	VESUVIUS, National Refractories
Payel Sarkar	CGCRI, National Refractories
R. Srinivas	CGCRI, National Refractories
Rajib Dutta	CGCRI, National Refractories
Ram Prasad Pal	CUMI

Ranabir Paul	SRU IFICO, RINL VIZAG
Reek Chatterjee	OCL, National Refractories
Sabitabrata Chatterjee	RHI Magnesita, National Refractories
Sagnik Roy	CGCRI
Sagnik Gangopadhyay	IIT KANPUR & IIT BHU
Semanti Banerjee	H&R Johnson
Sreya Datta	TRL, National Refractories
Souradeep Ghosh	TU DRESDEN, GERMANY
Souradip Mondal	VESUVIUS, HINDALCO
Sudip Mandal	TRL, RINL (VISAG), National Refractories
Susanta Mahata	ABI , Halol, National Refractories
Swastika Paul	OCL. IIT Guwahati
Udayan Mukherjee	SRU IFICO
Suman Beniya	CALDERYS, IIT Guwahati
Sunanda Nandi	SRU IFICO, National Refractories
Mousumi Ghosh	National Refractories
Pabitra Mali	TRL, National Refractories
Puspendu Sinha	OCL, National Refractories
Sarmistha Das	CGCRI

(ii) IT department (01.06.2020 – 10.07.2020)

Participant	**Name of the partnering institution/ industry /research lab with contact details**
Aman Deep Gahlot	Globsyn Finishing School
Argha Pal	Globsyn Finishing School
Biaswayan Saha	Globsyn Finishing School

Bumba Kar	Globsyn Finishing School
Debarchan Maiti	Globsyn Finishing School
Debdoot Sen	Globsyn Finishing School
Dipankar Ghosh	Globsyn Finishing School
Mainak Singha	Globsyn Finishing School
Priyam Mukherjee	Globsyn Finishing School
Rajarshi Bhowmik	Globsyn Finishing School
Rajat Saha	Globsyn Finishing School
Sayan Kumar Saha	Globsyn Finishing School
Shawan Basu	Globsyn Finishing School
Shubhadeep Nandy	BSNL
Silvia Sultana	IIT Patna
Somlata Saha	Globsyn Finishing School
Somnath Chakraborty	Globsyn Finishing School
Subham Mondal	Globsyn Finishing School
Sucheta Panda	Globsyn Finishing School
Suvam Das	Globsyn Finishing School
Swarnendu Biswas	Globsyn Finishing School
Swastik Chatterjee	Globsyn Finishing School
Urmila Kewat	Eastern Railway
Ankita Hansda	Globsyn Finishing School
Asish Bera	Globsyn Finishing School
Jamuna Majhi	Globsyn Finishing School
Krishnendu Nandy	Globsyn Finishing School
Rajdeep Paul	Globsyn Finishing School
Rupam Ganguly	Eastern Railway

Subhankar Naskar	Globsyn Finishing School
Subrata Paul	Globsyn Finishing School

(iii) CSE department (14.04.2020 – 27.05.2020)

Participant	Name of the partnering institution/ industry /research lab with contact details
Rose Dhar	Internshala
Anulekha Ghosh	Internshala
Ishan Biswas	Udemy and NPTEL
Aritra Roy	Udemy
Subrata Sarkar	IISER Bhopal(under Kushal Shah)
Soumya Mukherjee	Internshala
Saranya Naha Roy	Internshala
Shreya Saha	Internshala
UTTAM SHARMA	SmartBridge
Surajit Sarkar	Internshala
Ritika Sinha	TCS iON
Shabdik Chakraborty	Supraja Technologies
Sibeswar Prasad Singha	MyWBUT, Globsyn & Internshala
Amitava Chatterjee	Forage
Dipanjan Panja	QrioctyBox education service, Rll Technology pvt ltd, GeoGo Techsolutions pvt ltd
Sweta Sarkar	Internshala
Rashed Mehdi	NA
Pratyusha Sinha	Internshala
Soham Mahapatra	GUVI
Ritesh Kumar	Coursera

Aditya Kumar Shaw	Courses on HackerRank and Edx
Anirban Chakraborty	Webtek Labs , TCS ION

5. Placement status:

Off campus Placement detalis of B.Tech IT, 2019-2020					
Sl No.	**College Roll Number**	**Student Name**	**Name of Company for on Campus Drive**	**No of Student Participated**	**No of Student Placed**
1	GCECTB-R16-2034	Suvam Das	Allied Media	5	1
2	GCECTB-R16-2036	Swastik Chatterjee	Asmaka Ventures	6	1
3	GCECTB-R-16-2037	Urmila Kewat	Ayoconnect	5	1
4	GCECTB-L17-2003	Krishnendu Nandy	Byjus	4	1
5	GCECTB-R16-2011	Debarchan Maiti	Capgemini	6	1
6	GCECTB-R16-2021	Rajat Saha	Cognizant	12	5
7	GCECTB-R16-2008	Bishwayan Saha			
8	GCECTB-R16-2017	Mainak Sinha			
9	GCECTB-R16-2032	Subham Mondal			
10	GCECTB-R16-2029	Somlata Saha			
11	GCECTB-R16-2012	Debdoot Sen	Infosys	12	3
12	GCECTB-R16-2020	Rajarshi Bhowmik			
13	GCECTB-R16-2033	Sucheta Panda			
14	GCECTB-R16-2009	Bumba Kar	Intelmetic	4	1
15	GCECTB-L17-2006	Rupam Ganguly	Sensibol	3	1
16	GCECTB-R16-2035	Swarnendu Biswas	TCS	12	4
17	GCECTB-R16-2024	Sayan Kumar Saha			
18	GCECTB-R16-2019	Priyam Mukherjee			
19	GCECTB-R16-2003	Amandeep Gahlot			
On Campus Placement detalis of B.Tech CT, 2019-2020					
Sl No.	**College Roll Number**	**Student Name**	**Name of Company for on Campus Drive**	**No of Student Participated**	**No of Student Placed**
1	GCECTB-R-16-1001	Aakash Dalui	Maithan Ceramics Ltd	12	4
2	GCECTB-R-16-1004	Debarati Dutta			
3	GCECTB-R-16-1015	Ram Prosad Pal			
4	GCECTB-R-16-1027	Sudip Mandal			
5	GCECTB-R-16-1003	Arka Chakraborty	OCL	5	1
6	GCECTB-R-16-1006	Madhumita Dutta Chowdhury	IFGL	7	2
7	GCECTB-R-16-1018	Sabitabrata Chatterjee			
8	GCECTB-R-16-1007	Md Ismail Ali	Castwel Industries	6	2

9	GCECTB-R-16-1008	Md Sayed Mandal			
10	GCECTB-R-16-1009	Pallabi Mandal	RAK Ceramics	4	1
11	GCECTB-R-16-1010	Partho Das	Havells India Ltd	5	2
12	GCECTB-R-16-1019	Sagnick Roy			
13	GCECTB-R-16-1011	Payel Sarkar	Accenture Solutions	4	1
14	GCECTB-R-16-1012	R. Srinivas	Lizmontangens India Pvt Ltd	5	2
15	GCECTB-L17-1002	Pabitra Mali			
16	GCECTB-R-16-1013	Rajib Dutta	Sree Radhe Shyam Ceramics	3	1
17	GCECTB-R-16-1016	Ranabir Paul	Special Ceramics Pvt Ltd	4	1
18	GCECTB-R-16-1017	Reek Chatterjee	Heatworks Pvt Ltd	5	2
19	GCECTB-R-16-1022	Semanti Banerjee			
20	GCECTB-R-16-1020	Sagnik Gangopadhyay	H&R Johnson	5	2
21	GCECTB-R-16-1023	Shreya Datta			
22	GCECTB-R-16-1024	Souradeep Ghosh	Creative Chemicals (Rep. Sojitz Corp.)	6	2
23	GCECTB-L17-1001	Mousumi Ghosh			
24	GCECTB-R-16-1026	Souryadip Mondal	Modern Insulators	3	1
25	GCECTB-R-16-1031	Swastika Paul	TRL	4	1
26	GCECTB-R-15-1033	Sunanda Nandi	RASHMI METALLIKS	2	1
27	GCECTB-L17-1003	Pushpendu Sinha	Balaji Ceramics	3	1

Off campus Placement detalis of B.Tech CSE, 2019-2020

Sl No.	College Roll Number	Student Name	Name of Company for on Campus Drive	No of Student Participated	No of Student Placed
1	GCECTB-R16-3005	Amit Chakraborty	Infosys	15	6
2	GCECTB-R16-3017	Pratiksha Das	Infosys		
3	GCECTB-R16-3019	Rajab Ali Mondal	Infosys		
4	GCECTB-R16-3020	Riya Karan	Infosys		
5	GCECTB-R16-3025	Satendra Sharma	Infosys		
6	GCECTB-R16-3030	Soumya Sarkar	Infosys		
7	GCECTB-R16-3010	Debalekha Chakraborty	TCS	20	13
8	GCECTB-R16-3012	Devanshi Gupta	TCS		
9	GCECTB-R16-3014	Md Shamsher Alam	TCS		
10	GCECTB-R16-3021	Romok Das	TCS		
11	GCECTB-R16-3041	Saheli Chakraborty	TCS		
12	GCECTB-R16-3023	Santanu Banik	TCS		
13	GCECTB-R16-3027	Sayan Sanyal	TCS		
14	GCECTB-R16-3028	Sontu Mistry	TCS		
15	GCECTB-R16-3031	Soumyadeep Malakar	TCS		
16	GCECTB-R16-3032	Sreemoyee Chakrabarti	TCS		

17	GCECTB-R16-3042	Sushrima Datta	TCS		
18	GCECTB-R16-3035	Tama Raychowdhury	TCS		
19	GCECTB-R16-3038	Zeba Iqbal	TCS		
20	GCECTB-R16-3039	Arunjyoti Sanyal	CTS	5	2
21	GCECTB-R16-3040	Kojagori Maity	CTS		
22	GCECTB-R16-3008	Apromit Mukherjee	Wipro	4	1
23	GCECTB-R16-3036	Tanvir Raihan Islam	CAPGEMINI	3	1
24	GCECTB-R16-3016	Nilagnik Chakraborty	American Express	4	1
25	GCECTB-R16-3001	Abhi Goswami	Embibe	3	1

6. Students progression:

Sl No.	Student's Name	Programme graduated from	Exam. passed	Name of programme admitted to	Name of institution joined
1	Devanshi Gupta	B.Tech in CSE	GATE	M.Tech	IIT Delhi
2	Sontu Mistry	B.Tech in CSE	GATE	M.Tech	IIT Khargapur
3	Tama Ray Chowdhury	B.Tech in CSE	GATE	M.Tech	IIT PATNA
4	Sufal Sikder	B.Tech in CSE	GATE	M.Tech	IIT PATNA
5	Deep Bhuinya	B.Tech in CSE	GATE	M.Tech	IIT Guwahati
6	Subrata Maity	B.Tech in CSE	GATE	M.Tech	NIT Durgapur
7	Saheli Chakraborty	B.Tech in CSE	GATE	M.Tech	IIT Hyderabad
8	Kojagori Maity	B.Tech in CSE	GATE	M.Tech	IIT Bhubaneswar
9	Abhinav Burman	B.Tech in CT	CAT	MBA	IIM Bodh Gaya
10	Semanti Banerjee	B.Tech in CT	IELTS	MSC	Technical University of Dresden
11	Bishwayan Saha	B.Tech in IT	GATE	M.Tech	IIEST, Shibpur
12	Subrata Paul	B.Tech in IT	GATE	M.Tech	IIEST, Shibpur
13	Silvia Sultana	B.Tech in IT	GRE	Masters in Datata Sc. And AI	Technische Universitiet of Eindhoven

7. Students award:

Title of Innovation	Name of Awardees	Awarding agency
B.Tech Project Work on "Effects of Cr2O3 on the densification and microstructure of Alumina ceramics"	Tilak Matabbar & Abhishek Das	INDIAN REFRACTORY MAKERS' ASSOCIATION
B.Tech project work on "Effect of Bauxite and Zirconia additions on the densification and microstructural properties of Mullite aggregates derived from Sillimanite beach sand"	Dipika Sarkar & Safikul Islam	INDIAN REFRACTORY MAKERS' ASSOCIATION

8. Students scholarship:

Name of the Scheme	Year	Class	Department	Full Freeship	Per head sanction amount	Half Freeship	Per head sanction amount	Financial Aid Available on time (Y/N)
Freeship	2019 - 2020	1st Yr	CT	1	500	4	250	Y
			CSE	0		1	500	Y
			IT	0		2	1000	Y
		2nd Yr	CT	0		3	250	Y
			CSE	0		4	500	Y
			IT	4	2000	4	1000	Y
		3rd Yr	CT	0		1	250	Y
			CSE	0		2	500	Y
			IT	3	2000	3	1000	Y
		4th Yr	CT	3	500	4	250	Y
			CSE	4	1000	5	500	Y
			IT	3	2000	4	1000	Y
						Total amount	576000	

Name of the Scheme	Year	Class	No of students benefitted	Per head sanction amount	Total amount	Financial Aid Available on time (Y/N)		
Swami Vivekananda Merit-Cum-Means Scholarship	2019 - 2020	Btech & Mtech	37	60000	2220000	Y		

Name of the Scheme	Year	Class	No of students benefitted	Per head sanction amount	Total amount	Financial Aid Available on time (Y/N)		
SC/ST/OBC	2019 - 2020	SC	39		1141600	Y		
		ST	3			Y		
		OBC-A	4			Y		
		OBC-B	13			Y		

Name of the Scheme	Year	No of students benefitted	Total amount	Financial Aid Available on time (Y/N)
International Scholarship from Islamic Development Bank, SAUDI ARABIA	2019 - 2020	1	65000	Y

Name of the Scheme	Year	No of students benefitted	Total amount	Financial Aid Available on time (Y/N)
Muslim Education Trust,Delhi	2019 - 2020	2	72000	Y

Name of the Scheme	Year	No of students benefitted	Total amount	Financial Aid Available on time (Y/N)
Minority Development Trust ,WB	2019 - 2020	3	66000	Y

PART 3: RESEARCH PROGRAMMES

1. Sponsored/ Consultancy projects:

Funding Agency	Type of Project	Project Title	Role in Project	Grant (Rs.)	Duration
DST	Major Research Project	High Strength Light Weight Building Blocks From Agricultural Waste	Dr. B.K. Sanfui, Assistant Professor, Principal Investigator	60,00,450	31.03.2016 - 30.06.2020
DST	Major Research Project	Development of Insulating Refractories and Abrasion Resistant Ceramics from Coal Ash	Dr. B.K. Sanfui, Assistant Professor, Principal Investigator	61,52,450	07.05.2016 - 06.08.2020
DST	Minor Research Project	Development of CO2 selective Ceramic Membrane for Separation of CO2 from Flue gas and Natural Gas (With IIT-G)	Dr. B.K. Sanfui, Assistant Professor, Principal Investigator	54,78,750	14.10.2016 - 13.10.2019
SERB	Minor Research Project	Development of Pre/In-situ Formed CNT Reinforced MgAl2O4 Spinel Matrix Composites	Dr. B.K. Sanfui, Assistant Professor, Principal Investigator	30,06,000	04.05.2017 - 03.11.2020
IREL	Major Research Project	Study of Sinterability and Product Development based on Zirconia Powders to be Supplied by IREL	Dr. B.K. Sanfui, Assistant Professor, Principal Investigator	58,73,800	28.08.2019 - 27.08.2022
WB-DST	Minor Research Project	Design optimization of broadband microstrip antena	Dr. Pinaki Mukherjee, Assistant Professor, Principal Investigator	5,48,000	2018-2020
WB-DST	Minor Research Project	Fabrication of CuPc nanotube based all-organic flexible photodiode for light detection and solar energy conversion	Dr. Nilesh Mazumder, Assistant Professor, Principal Investigator	12,55,000	2019-2022
WB-DST	Minor Research Project	Studies on Compact Stellar Objects	Dr. Saibal Ray, Associate Professor, Principal Investigator	4,48,800	02.05.2019 - 01.05.2021
WB-DST	Minor Research Project	Studies on the Microstructural characterization of ceramic materials using Image processing Technique	Dr. T.K. Bhattacharya, Assistant Professor, Principal Investigator	8,68,800	28.01.2019 - 27.01.2021

2. Ph. D. supervision by the teachers:

Sl. No.	Name of the Supervisor	Name of the student with qualification	Title of the thesis	University where registered	Status of the programme
1.	Dr. S. Ray, *Associate Professor*	Debabrata Deb, M.Sc. (Physics)	Studies on strange stars in general relativity and alternative gravity	IIEST, Shibpur	Awarded
2.	Dr. S. Ray, *Associate Professor*	Shounak Ghosh, M.Sc. (Physics)	Gravastars in general relativity	IIEST, Shibpur	Awarded
3.	Dr. S. Ray, *Associate Professor*	Abdul Aziz, M.Sc. (Physics)	Homotopy Theorem in Astrophysical system	IIEST, Shibpur	Awarded
4.	Dr. S. Ray, *Associate Professor*	Rikpratik Sengupta, M.Sc. (Physics)	Studies on Wormholes in braneworld gravity	Aliah University	Pursuing
5.	Dr. S. Ray, *Associate Professor*	Biplab Paik, M.Sc. (Physics)	Semi-classical inflation and black holes	Aliah University	Pursuing
6.	Dr. T.K. Bhattacharya, *Assistant Professor*	Partha Haldar M.Tech. (Mechanical Engineering)	The Effect of Nano-oxide addition in Alumina Ceramics and its impact on Mechanical and Trbological Properties	Jadavpur University	Pursuing
7.	Dr. B.K. Sanfui, *Assistant Professor*	Paramita Das M.Tech. (Ceramics)	Synthesis and Characterization of YAG and CNT reinforced Magnesium aluminate Spinel Composites	Calcutta University	Pursuing
8.	Dr. B.K. Sanfui, *Assistant Professor*	Savan Kumar Sharma M.Tech. (Ceramics)	Studies on Nano-porous alumina based ceramics membrane for separation of flue gas	MAKAUT	Pursuing
9.	Dr. Mausumi Maitra *Professor*	Kamarujjaman	Studies on Image De-noising and Segmentation of Medical Images	MAKAUT	Pursuing

3. Research/Review papers published in National/International Journals:

Name of the author	Title of the paper	Name of the journal	Impact Factor
B.K. Sanfui et al.	Fabrication and Performance Evaluation of Industrial Alumina-Based Graded Ceramic Substrate for CO_2 Selective Amino Silicate Membrane	*ACS Appl. Mater. Interfaces*	9.229
K. Das et al.	Microstructure and phase evolution of Indian magnesite -derived MgAl2O4 as a function of stoichiometry and ZrO2 doping	*Int. J. Appl. Cera. Tech.*	1.861

K. Das et al.	Influence of selenium dioxide (SeO2) on properties of bioglass in SiO2-Na2O-CaO-P2O5 system	*J. Austral. Cer. Soc.*	1.526
T.K. Bhattacharya et al.	Graphene oxide-ferrite hybrid framework as enhanced broadband absorption in gigahertz frequencies	*Nature Sci. Rept.*	4.379
T.K. Bhattacharya et al.	Adsorption effect of Zn^{+2} and Co^{+2} on the antibacterial properties of SiC-porcelain ceramics	*Int. J. Appl. Cer. Tech.*	1.968
Kamarujjaman and M. Maitra	3D unsupervised modified spatial fuzzy c-means method for segmentation of 3D	*Patt. Anal. Applications*	2.58
M. Maitra et al.	Early started hybrid denoising technique for medical images	*Adv. Intell. Syst. Comput.*	
M. Maitra et al.	An efficient wavelet and curvelet-based PET image denoising technique	*Med. Bio. Engg.*	2.602
P. Dey et al.	Influence maximization in online social network using different centrality measures as seed node of information propagation	*Sādhanā*	1.188
R. Mondal et al.	Effect of Mobility and Receive Window on TCP inDevice to Device Communication	*ICRCICN*	
R.S. Ray et al.	A Study and Analysis of Lock and STM Overheads	*IJCSE*	
S. Chowdhury et al.	Digital Signature Protocol for Visual Authentication	*Int. Arab J. Info. Tech.*	1.91
S. Chowdhury et al.	Multi-Phase Digital Authentication of e-Certificate with Secure Concealment of Multiple Secret Copyright Signatures	*Int. J. Inno. Tech. Explor. Engg.*	1.27
K.Saha (Roy) and S. Banerjee	Study of Quality of Service (QoS) Measurement Using Joint Call Admission Control (CAC) Protocol	*Int. J. Wire. Net. Commun.*	0.544
K. Saha (Roy) and T. Ghosh	Study of Packet Loss Prediction using Machine Learning	*Int. J. Mo. Commun. Net.*	1.551
K. Saha (Roy) and S. Khan	Study of Dynamicity of Call Management and System Resource Management Using Call Admission Control (CAC) Protocol	*Adv. Wire. Mob. Commun.*	
K. Saha (Roy) and R. Hazra	An approach of Searching Mobile User Location with QoS provisioning in 5G Cellular Networks	*Int. Conf. Mob. Comput. Sustain. Info.*	
K. Chatterjee et al.	Watson Crick quantum finite automata	*Acta Informatica*	0.375
K. Chatterjee et al.	Effect of bilingualism on aphasia recovery	*Aphasiology*	2.773
D. Maity	Biological Applications of Schiff base Metal Complexes-A Review	*IJRAR*	5.75

D. Maity	Recent Studies on Applications of Schiff Bases and Their Complexes in Atmospheric Carbon Dioxide Capture	*Rus. J. Gen. Chem.*	0.81
A. Mukherjee et al.	Application of principal component analysis for fault classification in transmission line with ratio-based method and probabilistic neural network: a comparative analysis	*J. Inst. Engineers: Series B*	0.17
A. Mukherjee et al.	Power system fault identification and localization using multiple linear regression of principal component distance indices.	*Int. J. Appl. Power Eng.*	
A. Mukherjee et al.	Transmission line faults in power system and the different algorithms for identification, classification and localization: a brief review of methods	*J. Inst. Engineers: Series B*	0.17
A. Mukherjee et al.	Transmission line fault location using PCA-based best-fit curve analysis	*J. Inst. Engineers: Series B*	0.17
A. Mukherjee et al.	Effect of bilingualism on aphasia recovery	*Aphasiology*	0.77
A. Mukherjee et al.	Classification and fast detection of transmission line faults using signal entropy	*J. Inst. Engineers: Series B*	
P. Haldar et al.	Effect of nano-crystalline TiO2 addition on reciprocating frictional behaviour of alumina ceramics	*IOP Conf. Series: Mater Sci. Engg.*	
N. Mazumder et al.	Enhancement of radiative transitions in Sm 3+ activated CaTiO3 nanophosphor by modulating co-activator concentration	*J. Mater. Sci.: Mater. Electron.*	2.19
N. Mazumder et al.	Negative capacitance switching in size-modulated Fe3O4 nanoparticles with spontaneous non-stoichiometry: confronting its generalized origin in non-ferroelectric materials	*Nanoscale*	7.79
N. Mazumder et al.	Size-modulation of functionalized Fe3O4: nanoscopic customization to devise resolute piezoelectric nanocomposites	*Dalton Transactions*	4.05
N. Mazumder et al.	Strain-induced partial phase transition in TiO2 nanoparticles manifesting frequency dispersive pseudo-inductive switching of capacitance	*Cer. Int.*	3.83
R.K. Chakraborty et al.	Zener-like electrical transport in polyaniline–graphene oxide nanocomposites	*RSC Adv*.	3.361
R.K. Chakraborty et al.	Nonlinearity exponent: A phase sensitive parameter in disordered systems	*Phys. B: Cond. Matt*.	2.436
P. Paul et al.	Inflation in anisotropic brane universe using tachyon field	*Int. J. Mod. Phys. D*	2.154
P. Paul and R. Sengupta	Generalized Phenomenological Models of Dark Energy	*Advances in High Energy Physics*	1.777

P. Paul et al.	Weyl transformation: A dynamical degree of freedom in the light of Dirac's Large Number hypothesis	*Int. J. Mod. Phys. D*	2.154
S. Ray et al.	Dirac's Large Number Hypothesis: a journey from concept to implication	*Int. J. Mod. Phys. D*	2.154
S. Ray et al.	Strange stars in *f(R,T)* gravity	*J. Cos. AstroPartphys.*	5.524
S. Ray et al.	Study on charged strange stars in *f (R,T)* gravity	*J. Cos. AstroPartphys.*	5.524
S. Ray et al.	A study on charged compact stars	*Int. J. Mod. Phys. D*	2.154
S. Ray et al.	Exploring physical features of anisotropic strange stars beyond standard maximum mass limit in gravity	*Mon. Not. R. Astron. Soc.*	5.231
S. Ray et al.	Strange stars in Krori-Barua space-time under *f(R;T)* gravity	*Ann. Phys.*	2.267
S. Ray et al.	A study of anisotropic compact stars based on embedding class 1 condition	*Int. J. Mod. Phys. D*	2.154
S. Ray et al.	Neutron star under homotopy perturbation method	*Ann. Phys.*	2.267
S. Ray et al.	Gravastars in (3+1) dimensions admitting Karmarkar condition	*Ann. Phys.*	2.267
S. Ray et al.	Study of compact stars with Class 1 metric under general relativity	*Can. J. Phys*	1.016
S. Ray et al.	Charged anisotropic strange stars in Finslerian geometry	*Eur. Phys. J. C*	4.843
S. Ray et al.	Gravastars with Kuchowicz metric potential	*Res. Phys.*	3.042
S. Ray et al.	Relativistic strange stars in Tolman-Kuchowicz spacetime	*Ann. Phys.*	2.267
S. Ray et al.	Constraining values of bag constant for strange star candidates	*Int. J. Mod. Phys. D*	2.154
S. Ray et al.	Classical and Quantum Approaches to Black Holes	*Adv. High Energy Phys.*	1.777
S. Ray et al.	Anisotropic strange star inspired by Finsler geometry	*Int. J. Mod. Phys. D*	2.154
S. Ray et al.	Gravastars in *f(T;T)* gravity	*Int. J. Mod. Phys. Lett. A*	1.367
S. Ray et al.	Study of gravastars under *f(T)* gravity	*Nucl. Phys. B*	3.185
S. Ray et al.	Anisotropic strange star with Tolman-Kuchowicz metric under *f(R,T)* gravity	*Eur. Phys. J C*	4.843
S. Ray et al.	Gravastar: an alternative to black hole	*Int. J. Mod. Phys. D*	2.154

S. Ray et al.	Cosmological models with squared trace in modified gravity	*Int. J. Mod. Phys. D*	2.154
S. Ray et al.	Nonsingular solution with anisotropic fluid in mini bang cosmology	*Int. J. Mod. Phys. D*	2.154
S. Ray et al.	Revisiting primordial black hole evolution	*Axioms*	1.2
S. Ray et al.	Study on anisotropic strange stars in *f (T;T)* gravity	*Universe*	1.752
S. Ray et al.	Gravastar in the framework of braneworld gravity	*Phys. Rev. D*	4.368
S. Ray et al.	Charged perfect fluid sphere in higher-dimensional spacetime	*Ind. J. Phys.*	1.016
S. Ray et al.	Cosmological models with variable anisotropic parameter in *f(R;T)* gravity	*Ind. J. Phys.*	1.016

4. **Seminar/workshop attended/papers presented in National/International Conferences:**

Name of the faculty	**Title of the seminar/ workshop/ Name of the article**	**Place/ Ooganization**	**Date**
Mausumi Maitra	Third International Conference on Computing and Communication	NEHU, Shillong	28.04.2020 - 30.04.2020
Rituparno Sen	Expert training program on NBA, AICTE	New Delhi	27.02.2020
Rituparno Sen	Sustainable Growth through making in India	Jointly organized by GCECT Alumnus with TRL-Krosaki	24.01.2020- 25.01.2020
Ram Chandra Das	Expert training program on NBA, AICTE	New Delhi	27.02.2020
Ram Chandra Das	Sustainable Growth through making in India	Jointly organized by GCECT Alumnus with TRL-Krosaki	24.01.2020- 25.01.2020
Partha Haldar	Faculty Development Program for Student Induction (FDP-SI)	SNU, Kolkata	18.07.2019- 20.07.2019
Partha Haldar	INDUCTION TRAINING	NITTTR, Kolkata	06.01.2020 - 10.01.2020
Partha Haldar	Introduction to Robotics	Organized by IIT Bombay	20.08.2019- 21.08.2019
Partha Haldar	NPTEL SPOC MEET	Organized by IIT Kharagpur	01.02.2020

Partha Haldar	COVID 19 & Beyond: The new normal in HEIs	IQAC, J.C. Bose University of Science and Technology, YMCA, Faridabad	10.06.2020
Kingshuk Chatterjee	INDUCTION TRAINING	NITTTR, Kolkata	06.01.2020 - 10.01.2020
Alok Mukherjee	INDUCTION TRAINING	NITTTR, Kolkata	06.01.2020 - 10.01.2020
Soumit Chowdhury	Advanced Technology Programme	Wipro Ltd. Electronic City-Bangalore	17.02.2020 - 19.02.2020
Bimal Pal	Internet of Things Security	MAKAUT, West Bengal	07.11.2020 - 11.11.2020
Srimanta Kumar Patra	Sustainable Growth through making in India	Jointly organized by GCECT Alumnus with TRL-Krosaki	24.01.2020-25.01.2020
Nilesh Mazumder	Faculty Development Program for Student Induction (FDP-SI)	SNU, Kolkata	18.07.2019-20.07.2019
Srimanta Kumar Patra	Sustainable Growth through making in India	Jointly organized by GCECT Alumnus with TRL-Krosaki	24.01.2020-25.01.2020
Kingshuk Chatterjee	Workshop on student induction programme for teachers	UGC	6-8.11.2019
Alok Mukherjee	NPTEL SPOC MEET	Organized by IIT KGP	01.02.2020
Kingshuk Chatterjee	Introduction to Robotics	Organized by IIT BOMBAY	20.08.2019-21.08.2019
Alok Mukherjee	Introduction to Robotics	Organized by IIT BOMBAY	20.08.2019-21.08.2019
Partha Haldar	Artificial Intelligence Using Python	Jointly organized by GCECT and Brainovision Solutions India Pvt. Ltd. and National Youth Council of India	14.09.2020-19.09.2020
Partha Haldar	Advanced Course on Image Processing and Machine Learning	WBDST, Bikash Bhaban	23.09.2019 - 27.09.2019
Partha Haldar	Sustainable Growth through making in India	Jointly organized by GCECT and GCECT alumni association	25.01.2020
Partha Haldar	Globalization of information Communication Technologies: Possible Threats and Opportunities	Jointly organized by GCECT and GCECT alumni association	20.09.2019
Kingshuk Chatterjee	Sustainable Growth through making in India	Jointly organized by GCECT and	25.01.2020

		GCECT alumni association	
Alok Mukherjee	Globalization of information Communication Technologies: Possible Threats and Opportunities	Jointly organized by GCECT and GCECT alumni association	20.09.2019
Soumit Chowdhury	Globalization of information Communication Technologies: Possible Threats and Opportunities	Jointly organized by GCECT and GCECT alumni association	20.09.2019
Soumit Chowdhury	Image Authentication, WSN & IoT	JIS College of Engineering, West Bengal, Kalyani	22.06.2020 - 26.06.2020
Srimanta Kumar Patra	Globalization of information Communication Technologies: Possible Threats and Opportunities	Jointly organized by GCECT and GCECT alumni association	20.09.2019
Partha Ghosh	Globalization of information Communication Technologies: Possible Threats and Opportunities	Jointly organized by GCECT and GCECT alumni association	20.09.2019
Rituparno Sen	Globalization of information Communication Technologies: Possible Threats and Opportunities	Jointly organized by GCECT and GCECT alumni association	20.09.2019
Ram Chandra Das	Globalization of information Communication Technologies: Possible Threats and Opportunities	Jointly organized by GCECT and GCECT alumni association	20.09.2019
Barun Kumar Sanfui	Globalization of information Communication Technologies: Possible Threats and Opportunities	Jointly organized by GCECT and GCECT alumni association	20.09.2019
Partha Haldar	Reciprocating Frictional Behaviour of Nano Crystalline MgO based Alumina Ceramics	ICAME, 2020, Aliah University, Kolkata	18.01.2020
Partha Haldar	Potential of Pumped Hydro Storage as an Electrical Energy Storage in India	ICESD, 2020; Jointly organized by Jadavpur University and IEI	14.02.2020-15.02.2020
Soumit Chowdhury	COMSYS 2020: 1. Multi Data Driven Validation of E-Document Using Concern Authentic Multi-signature Combinations 2.A Novel High-Density Multilayered Audio Steganography Technique in Hybrid Domain	Jalpaiguri Govt. Engg. College	13.01.2020-15.01.2020
Paramita Dey	ANTS, 2019: Hierarchical Ego based community detection in social network	IEEE Communication Society, India. venue: BITS, Pilani, KK Birla, Goa campus	16.12.2019-19.12.2019
Partha Haldar	Friction Coefficient Analysis of Nano-Crystalline Copper Oxide added Alumina Ceramics	NCETAE 2020; Organized by School of Automotive Engineering; Jadavpur University, Kolkata.	3.03.2020-4.03.2020
Partha Haldar	Bayesian Inference based Tool to Identify Most Influencing Parameter Range in Combined Cycle Power Plant	4th regional science congress, MAKAUT	21.09.2019-22.09.2019

5. Book Chapter Published/Accepted:

Name of the author	Title of the Book/Chapter
B.K. Sanfui et al.	Synthesis and Characterization of Sol-Gel Derived Mesoporous γ-Alumina
B.K. Sanfui et al.	Studies on the mechanical activation assisted low temperature synthesis of magnesium aluminate spinel
P. Haldar, T.K. Bhattacharya and N. Modak	The Effect of Normal Load and Sliding Frequency on the Reciprocating Friction Behavior of Nanocrystalline CuO-Based Alumina Ceramics
R. Sen et al.	Fiber Reinforced Nanocomposites: Fundamentals and Applications
P. Dey and S. Roy	Hierarchical Ego based Community Detection in Social Network
P. Dey and S. Roy	Governance in smart city: An approach based on social network. In *Smart Cities: A Data Analytics Perspective*
P. Dey	Characterization of online social network: a case study on Twitter data
S. Chowdhury et al.	A Novel High-Density Multilayered Audio Steganography Technique in Hybrid Domain, Published in Proceedings of International Conference on Frontiers in Computing and Systems
S. Chowdhury et al.	Multi Data Driven Validation of E-Document Using Concern Authentic Multi-signature Combinations
K. Chatterjee et al.	Bengali Handwritten Character Classification Using Transfer Learning on Deep Convolutional Network
K. Chatterjee et al.	A review of Steganography techniques suitable for ECG signal
K. Chatterjee et al.	How successful is a lockdown during a pandemic?
K. Chatterjee et al.	Effect of Climatic Conditions on Gender Segregated COVID-19 Infections and Fatalities
K. Chatterjee et al.	New Heuristics to Minimize Makespan of Permutation Flowshop Scheduling Problem with Uniformly Distributed Processing Times
P. Ghosh	Basic Concepts of C-Programming
A. Mukherjee et al.	New Heuristics to Minimize Makespan of Permutation Flowshop Scheduling Problem with Uniformly Distributed Processing Times
N. Mazumder et al.	En route to the Conductivity Bottleneck in p-type CuCr1-xMxO2-ySy (M= Li, Mg)
P. Haldar et al.	The Effect of Normal Load and Sliding Frequency on the Reciprocating Friction Behavior of Nanocrystalline CuO-Based Alumina Ceramics
S. Ray et al.	Dark Matter and Dark Energy in General Relativity and Modified Theories of Gravity
S. Ray et al.	Theory and Mathematical Aspects of Black Holes

6. Research Collaboration:

Organization	Date of MOU signed	Purpose/Activities	Number of teachers participated under MOUs
West Bengal Animals and Fisheries University	12-12-2019	Collaborative Research	Dr. S. Ray & Dr. T.K. Bhattacharya

7. Revenue generated from Consultancy during the year:

Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Development of Insulating Refractories and Abrasion Resistant Ceramics from Coal Ash	DST	9880
High Strength Light Weight Building Blocks From Agricultural Waste	DST	18728
Development of CO2 selective Ceramic Membrane for Separation of CO2 from Flue gas and Natural Gas	DST	9780
Development of Pre/In-situ Formed CNT Reinforced MgAl2O4 Spinel Matrix Composites	SERB	24717

PART 4: EXTENSION PROGRAMMES

1. Award / recognition of the teacher

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Professor (Dr.) Krishnendu Chakroberty	Teacher of the Year	2019	
National	Dr. Saibal Ray	Visiting Associateship	01/08/2017 - 31/07/2020	UGC via IUCAA, Pune

2. Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Department	Date
Workshop on Industry- Academia Innovative Practices	CT, IT, CSE	24/09/2019

3. National Service Scheme (NSS):

Sl. No.	Name of the activity	Dates (dd/mm/yyyy)	Number of student participated	Number of teachers coordinated the programs
1	Karate Show	14.08.2019	67	2
2.	Safe Drive Save Program	06.08.2019	65	2
3.	Anti Drug Addiction	06.08.2019	65	2
4.	Sapling Plantation	05.06.2019	26	2
5.	Save Water Save Life Program	23.07.2019	80	2

4. The College journal: *Scientific Voyage*

A quarterly research journal published in the college under an editorial board with national and international experts in the fields [URL: Scientific Voyage].

5. Students activities

Sl. No.	Name of Event	Type	No. of Team Participate
1	Cultural Fest Jagriti	Intra	6 (Music) + 4 (Dance)
		Inter	5
2	Football Boys	Intra	8
		Inter	3
3	Football Women	Intra	2
4	Cricket Boys	Intra	8
		Inter	2

6. Infrastructure Augmentation and equipment added details

Item	Quantity	Amount (Rs)	G.O No.	Date
Led Screen	2	282240	357/(SANC)(HED)-20011(18)/21	22.8.2019
P sim Software	1	494892	234/(SANC)(HED)-20011(99)/15	3.7.2019
Amplifier	12	488400	235/(SANC)(HED)-20011(99)/14	3.7.2019
Furniture		2175870	360/(SANC)(HED)-20011(99)/19	27.8.2019
ISILS Software for Language Lab	1	498314	260/(SANC)(HED)-20011(99)/17	17.7.2019
Operating System Winpro	1	182789	534/(SANC)(HED)-20011(18)/27	24.10.2019
Desktop Computers	50	3146400	647/(SANC)(HED)-20011(18)/28	12.12.2019
Furnace(Spectro Photometer & pc control)	1	3255000	420/(SANC)(HED)-20011(18)/25	16.9.2019
Fully Computer Controlled high precision compressive strength testing machines	1	735000	680/(SANC)(HED)-20011(18)/50	18.12.2019
Non destructive elastic property analyzer	1	336193	129/(SANC)(HED)-20011(18)/73	4.6.2019
Fully automatic micro hardness Tester Machine	1	3234630	102/(SANC)(HED)-20011(18)/70	29.5.2019
Matlab Software	1	527680	106/(SANC)(HED)-20011(18)/83	29.5.2019
Trinocular Microscope	1	1575000	292/(SANC)(HED)-20011(18)/40	2.8.2019
Telescope	1	116912		26.11.2019