



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		GOVERNMENT COLLEGE OF ENGINEERING AND CERAMIC TECHNOLOGY
Name of the head of the Institution		Dr. Krishnendu Chakrabarty
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		03323701264
Mobile no.		9339207179
Registered Email		gcectwb@gmail.com
Alternate Email		principal.gcect@gcect.ac.in
Address		73 Abinash Chandra Banerjee Lane, Beliaghata, Kolkata-700010
City/Town		Kolkata
State/UT		West Bengal
Pincode		700010

<b>2. Institutional Status</b>																			
Autonomous Status (Provide date of Conformant of Autonomous Status)	04-Oct-2012																		
Type of Institution	Co-education																		
Location	Urban																		
Financial Status	state																		
Name of the IQAC co-ordinator/Director	Prof. Rituparno Sen																		
Phone no/Alternate Phone no.	03323632072																		
Mobile no.	9831509654																		
Registered Email	rsen63@gmail.com																		
Alternate Email	rituparno_sen@gcect.ac.in																		
<b>3. Website Address</b>																			
Web-link of the AQAR: (Previous Academic Year)	<a href="http://gcect.ac.in/iqac/">http://gcect.ac.in/iqac/</a>																		
<b>4. Whether Academic Calendar prepared during the year</b>	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://gcect.ac.in/download/Miscellaneous/Academic-Calendar-2019-20.pdf">http://gcect.ac.in/download/Miscellaneous/Academic-Calendar-2019-20.pdf</a>																		
<b>5. Accrediation Details</b>																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.13</td> <td>2015</td> <td>11-May-2015</td> <td>10-May-2020</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.13	2015	11-May-2015	10-May-2020
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.13	2015	11-May-2015	10-May-2020														
<b>6. Date of Establishment of IQAC</b>	06-May-2019																		
<b>7. Internal Quality Assurance System</b>																			
Quality initiatives by IQAC during the year for promoting quality culture																			
Item /Title of the quality initiative by IQAC		Date & Duration		Number of participants/ beneficiaries															
Seminar on Globalization		20-Sep-2019		168															

of information Communication Technologies: Possible Threats and Opportunities	1	
Regular meetings of Internal Quality Assurance Cell (IQAC)	23-Apr-2020 1	18
Regular meetings of Internal Quality Assurance Cell (IQAC)	28-Jan-2020 1	17
Regular meetings of Internal Quality Assurance Cell (IQAC)	04-Sep-2019 1	16
Regular meetings of Internal Quality Assurance Cell (IQAC)	08-Jul-2019 1	18
Sustainable Growth through making in India	25-Jan-2020 1	187
<a href="#">View File</a>		

**8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
GCECT	AUTONOMY	UGC	2012 2920	8000000
GCECT	RUSA 2.0	RUSA	2015 730	20000000
GCECT	TEQIP I	WORLD BANK	2004 1825	73600000
<a href="#">View File</a>				

<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities</b>	No

during the year?

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

Strategies were developed for better placement of students.

Seminar and workshops on emerging areas were conducted during the academic year 2019 20.

Modalities of counselling / mentoring of the students were fixed.

The time schedule and modalities of publication of college journal were fixed.

Old best practices adopted by the institute were reviewed and new best practices were identified and adopted

[View File](#)

**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achivements/Outcomes
To propose a plan for the Induction program for the new 1st year students joining the college on & from 1st August' 2019.	Induction program was successfully conducted with the following components: Organizing Motivational lectures, Organizing Classes on Universal Human Values, Organizing bridge courses on Physics, Chemistry and Mathematics, Organizing awareness program on safe drive, save life, Organizing awareness program on drug abuse, Organizing industrial visits, Organizing demonstrative presentation on Yoga
To adopt strategies for better placement of the students.	Placement committee has been reconstituted comprising of Advisor to Training Placement, respective HODs, faculty and student representatives with the object of conducting Mock interviews. Several Group Discussion classes and mock interviews have been organized with a view to improving the communication skills and better preparedness of the students for facing interviews.
To fix the plan for the prospective conduction of seminars and workshops for the academic year 2019 20.	Seminars titled Sustainable Growth through making in India and Seminar on Globalization of information Communication Technologies: Possible Threats and Opportunities were held during the academic year 201920

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body

Meeting Date

Governing Body

27-Aug-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

19-Feb-2020

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

The College has set up an integrated Educational MIS by WEBEL, Govt. of West Bengal. Various modules have been created and are functioning like Admission Module, Attendance keeping module, Examination related module, Result preparation module. They include data on student admission, student qualification and other academic courses and results. Students' data are mostly digitized and the admission is partly online. Some aspects of teachers' information especially records on their salary are digitized.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	1-1464979832	Ceramic Technology	18/01/2019
BTech	1-1464979835	Information Technology	14/05/2019
BTech	1-1464979837	Computer science & Engineering	14/05/2019

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Ceramic technology	18/01/2019	Energy Resources Furnaces, PC(CT) 303	01/07/2019
BTech	Information Technology	14/05/2019	Data structure Algorithms (Theory lab) ,PC(CS/IT) 302,PCL(CS/IT)304	01/07/2019
BTech	Computer science & Engineering	14/05/2019	Data structure Algorithms (Theory lab) ,PC(CS/IT) 302,PCL(CS/IT)304	01/07/2019
BTech	Ceramic technology	18/01/2019	Programming for Problem solving, ES(CT)101	01/07/2019
BTech	Computer science & Engineering/ Information Technology	14/05/2019	Programming Lab using C++, PCL(CS/IT)410	01/07/2019
BTech	Information Technology	14/05/2019	IT Workshop (python/matlab), PCL(CS/IT)305	01/07/2019
BTech	Computer science & Engineering	14/05/2019	IT Workshop (python/matlab), PCL(CS/IT)305	01/07/2019
BTech	Information Technology	14/05/2019	Design & Analysis of Algorithm (Theory +lab), PC(CS/IT)406, PCL(CS/IT)409	01/07/2019
BTech	Computer science & Engineering	14/05/2019	Design & Analysis of Algorithm (Theory +lab), PC(CS/IT)406, PCL(CS/IT)409	01/07/2019
BTech	Information Technology/ Computer science &	14/05/2019	Computer Architecture, PC(CS/IT)408	01/07/2019

Engineering

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## 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	nil	Nil
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Information Technology	14/05/2019
BTech	Ceramic Technology	18/01/2019
BTech	Computer science & Engineering	14/05/2019

## 1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
MOOC courses	01/07/2019	252
Wipro	01/07/2019	69
TCS	05/08/2019	37
Value added course in syllabus	01/07/2019	112
<a href="#">View File</a>		

1.3.2 – Field Projects / Internships undertaken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Ceramic Technology	32
BTech	Information Technology	32
BTech	Computer science & engineering	45
Mtech	Information Technology	11
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## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?

(maximum 500 words)

#### Feedback Obtained

The College collects feedback in regular interval from different stakeholders like students, teachers, alumni, noted academicians, parents and employers for designing the course curriculum and projects in both UG and PG programmes. From the students, college collects two types of feedbacks. One is taken after completion of each course at the end of semester and the other, after completion of course. Regular students are asked to submit feedback regarding the adaptability of the courses and pedagogy. Apart from that, college has a proven system in form of "Course End Survey" from the outgoing batch of every programme to collect feedback on the curricula. This feedback questionnaire contains various aspects like enhancement of knowledge, employability skill, technical communication skill, research mind-set etc. All these feedback questionnaires are framed as per guidelines of different regulatory bodies. The feedback thus obtained is analysed by the respective Heads of Departments and discussed in details in departmental meetings followed by IQAC and academic audit meeting. The useful suggestions are adopted and placed in the Board of Studies for consideration. Informal feedback through discussions is also received from the students and other stake holders and taken care of at appropriate levels. Faculty members provide their feedbacks both in departmental and BOS meeting. They actively participate in curriculum and course design. There are different statutory bodies like Governing Body, Academic Council, where representative faculty members can present their feedbacks. The college has a specific framework to interact with academicians of national and international repute at various stages of designing the curriculum. Noted academicians in respective subjects are members of Board of Studies of the departments and members of Academic Council, who are basically entrusted with the task of framing and approving the curriculum. Alumni Association of the College has been reconstituted in 2014. It has always been a source of inspiration towards achieving the stated vision of the College. Various suggestions are put forward by the valued Alumni and these are discussed and reviewed in the different Board of Studies, Academic Council and also in the Governing Body. Final decisions of different forums are executed properly by the Departmental Heads and finally by the Principal to reach the goals. Views and suggestions from recruiters/industrialists/experts from industries are received during their visit to the College for campus interviews/seminars. The Placement cum Career Counselling Cell, with the active leadership of the Training and Placement Officer (TPO), gathers their views and suggestions on changing of curriculum based on recent technological need, which are subsequently communicated to the respective HODs and the Principal for proper implementation. Students also avail internship and get accustomed with the real-life field projects within the tenure of their undergraduate program. Parents' feedbacks are also considered for the betterment of the curriculum and for the overall academic progress of the student. Generally, the teachers and also the Principal collect feedback from the parents both in formal and informal way and their suggestions are taken care of.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Information Technology	40	2978	36
BTech	Computer	40	3635	37



	Science and Engineering			
BTech	Ceramic Technology	40	1641	36
Mtech	Information Technology	18	Nil	12
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## 2.2 – Catering to Student Diversity

### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	504	25	14	Nil	18

## 2.3 – Teaching - Learning Process

### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
32	32	10	9	5	17

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Students of our college are from varied socio-economic background and also many students are from rural areas. Therefore, the students' mentoring system has been devised to provide a better understanding of individual student and bring out their highest potential. It also appears to be the most effective method for mitigating cases of those students who are vulnerable to drop-out from studies. All departments assign one faculty member per 17 students (for the year 2019-20) to act as mentor / advisor for the students. The students can share their difficulties, if any, on academic matters, career planning, campus/hostel affairs and personal matters with the faculty advisor either in groups or individually. The respective faculty member initially tries at his/her level to address the problems to the extent possible. In case something is beyond his/her domain, the problem is referred to higher authorities, either to the Head of the Departments or the Head of the Institution for necessary action. In isolated cases, parents are called for counselling/special meetings with the Principal as per the suggestion of the Mentor. If a student is identified as having weakness in a particular subject, it is the duty of the Mentor to intimate the concerned subject teacher for remedial classes. Many a time, personal problems of the students are taken care of with friendly advices and counselling with a human face. This institutional practice of Mentoring System has been designed and implemented to be student-centric and renders legitimate service to students of varied academic economic backgrounds.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
529	32	1:17

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned	No. of filled positions	Vacant positions	Positions filled during	No. of faculty with

positions			the current year	Ph.D
52	32	20	Nil	20

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Krishnendu Chakrabarty	Principal	Teacher of the Year
2019	Dr. Saibal Ray	Associate Professor	Visiting Associateship of UGC at IUCAA, PUNE

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## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	Ceramic Technology	8th	06/07/2020	20/07/2020
BTech	Information Technology	8th	08/07/2020	20/07/2020
BTech	Computer Science and Engineering	8th	06/07/2020	20/07/2020
Mtech	Information Technology	4th	18/06/2020	20/07/2020
Mtech	Ceramic Technology	4th	19/06/2020	20/07/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
8	459	1.74

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://gcct.ac.in/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year	Number of students passed in final year examination	Pass Percentage
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			examination		
1-1464979841	Mtech	Information Technology	11	10	91
1-1464979839	Mtech	Ceramic Technology	4	4	100
1-1464979837	BTech	Computer Science and Engineering	45	45	100
1-1464979835	BTech	Information Technology	32	32	100
1-1464979832	BTech	Ceramic Technology	32	32	100
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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://gcet.ac.in/igac/>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

No

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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Saibal Ray	Associateship	31/07/2019	UGC via IUCAA, Pune
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### 3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	1105	WB-DST	1255000	676000
Minor Projects	730	WB-DST	548000	548000
Minor Projects	730	WB-DST	448800	224400
Minor Projects	730	WB-DST	868800	554400
Major Projects	1550	DST	6000450	0

Major Projects	1095	DST	5478750	0
Major Projects	1550	DST	6152450	900000
Major Projects	1275	SERB	3006000	500000
Major Projects	1095	IREL	5873800	4248400
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

9
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### 3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Workshop on Industry-Academia Innovative Practices	CT, IT, CSE	24/09/2019
<a href="#">View File</a>		

3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Stock Market Analysis	Swarnendu Biswas, Rajarshi Bhowmik, Somnath Chakraborty	Globsyn Finishing School	27/07/2019	Data Science
Effect of Bauxite and Zirconia additions on the densification and microstructural properties of Mullite aggregates derived from Sillimanite beach sand	TILAK MATABBAR and ABHISHEK DAS	INDIAN REFRACTORY MAKERS ASSOCIATION	20/09/2019	Refractory Technology
Effects of Cr <sub>2</sub> O <sub>3</sub> on the densification and microstructure of Alumina ceramics	DIPIKA SARKAR and SAFIKUL ISLAM	INDIAN REFRACTORY MAKERS ASSOCIATION	20/09/2019	Refractory Technology

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### 3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	Nil	Nil	Nil	Nil	Nil
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### 3.4 – Research Publications and Awards

#### 3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Basic Science, Engineering and Humanities	3

#### 3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Information Technology	6	1.06
International	Computer Science and Engineering	8	1.05
International	Basic Science, Engineering and Humanities	43	2.35
National	Basic Science, Engineering and Humanities	2	1.01
International	Ceramic Technology	5	3.79

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#### 3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Basic Science, Engineering and Humanities	5
Computer Science and Engineering	8
Information Technology	3
Ceramic Technology	4

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#### 3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
NIL	Nil	Nil	Nil
No file uploaded.			

#### 3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the	Name of	Title of journal	Year of	Citation Index	Institutional	Number of
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Paper	Author		publication		affiliation as mentioned in the publication	citations excluding self citation
Study of Quality of Service (QoS) Measurement Using Joint Call Admission Control (CAC) Protocol	K.Saha (Roy) and S. Banerjee	Int. J. Wire. Net. Commun.	2019	9	CSE, GCECT, Kolkata-10	9
Relativistic strange stars in Tolman-Kuchowicz spacetime	S. Ray et al.	Ann. Phys.	2019	9	BSEH, GCECT, Kolkata-10	8
Constraining values of bag constant for strange star candidates	S. Ray et al.	Int. J. Mod. Phys. D	2019	14	BSEH, GCECT, Kolkata-10	8
Strange stars in Krori-Barua space-time under $f(R,T)$ gravity	S. Ray et al.	Ann. Phys.	2019	24	BSEH, GCECT, Kolkata-10	16
Study on charged strange stars in $f(R,T)$ gravity	S. Ray et al.	JCAP	2019	12	BSEH, GCECT, Kolkata-10	8
Exploring physical features of anisotropic strange stars beyond standard maximum mass limit in gravit	S. Ray et al.	MNRAS	2019	58	BSEH, GCECT, Kolkata-10	49

Y						
Strange stars in f(R,T) gravity	S. Ray et al.	JCAP	2019	44	BSEH, GCECT, Kolkata-10	38
Anisotropic strange star with Tolman-Kuchowicz metric under f(R,T) gravity	S. Ray et al.	Eur. Phys. J. C	2020	21	BSEH, GCECT, Kolkata-10	13
An efficient wavelet and curvelet-based PET image denoising technique	M. Maitra et al.	Med. Bio. Engg.	2019	9	IT, GCECT, Kolkata-10	9
Graphene oxide-ferrite hybrid framework as enhanced broadband absorption in gigahertz frequencies	T.K. Bhattacharya et al.	Nature Sci. Rept.	2019	20	CT, GCECT, Kolkata-10	19
<a href="#">View File</a>						

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
3D unsupervised modified fuzzy c-means method for segmentation of 3D	Kamarujjaman and M. Maitra	Patt. Anal. Applications	2019	5	6	IT, GCECT, Kolkata-10
Effect of nano-crystalline	P. Halder et al.	IOP Conf. Series:	2019	3	Nil	BSEH, GCECT, Kolkata-10

TiO <sub>2</sub> addition on reciprocating frictional behaviour of alumina ceramics		Mater Sci. Engg.					
Zener-like electrical transport in polyaniline-graphene oxide nanocomposites	R.K. Chakraborty et al.	RSC Adv.	2020	3	2	BSEH, GCECT, Kolkata-10	
Application of principal component analysis for fault classification in transmission line with ratio-based method and probabilistic neural network: a comparative analysis	A. Mukherjee et al.	J. Inst. Engineers: Series B	2020	5	Nil	BSEH, GCECT, Kolkata-10	
Influence of selenium dioxide (SeO <sub>2</sub> ) on properties of bioglass in SiO <sub>2</sub> -Na <sub>2</sub> O-CaO-P <sub>2</sub> O <sub>5</sub> system	K. Das et al.	J. Austral. Cer. Soc.	2019	5	5	CT, GCECT, Kolkata-10	
Diracs Large Number Hypothesis: a journey from concept to implicatio	S. Ray et al.	Int. J. Mod. Phys. D	2019	32	3	BSEH, GCECT, Kolkata-10	



n						
Enhancement of radiative transitions in Sm <sup>3+</sup> activated CaTiO <sub>3</sub> nanophosphor by modulating co-activator concentration	N. Mazumder et al.	J. Mater. Sci.: Materials in Electronics	2019	11	5	BSEH, GCECT, Kolkata-10
Influence maximization in online social network using different centrality measures as seed node of information propagation	P. Dey et al.	S?dhan?	2019	4	5	IT, GCECT, Kolkata-10
Watson Crick quantum finite automata	K. Chatterjee et al.	Acta Informatica	2020	5	2	CSE, GCECT, Kolkata-10
Biological Applications of Schiff base Metal Complexes- A Review	D. Maity	IJRAR	2019	5	2	BSEH, GCECT, Kolkata-10
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#### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	1	20	2	11
Presented papers	4	1	1	Nil
<a href="#">View File</a>				

### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

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

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#### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
NIL	Nil	Nil	Nil	Nil

No file uploaded.

### 3.6 – Extension Activities

#### 3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Karate Show	Govt. College of Engineering and Ceramic Technology	2	67

[View File](#)

#### 3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
B.Tech Project	Refractory	INDIAN REFRACTORY	2

Work on Effects of Cr2O3 on the densification and microstructure of Alumina ceramics	Technology	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	Refractory Technology	INDIAN REFRACTORY MAKERS ASSOCIATION	2

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### 3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Anti Drug Addiction	Kolkata Police	Social Awareness	2	65
Save Water Save Life Program	Govt. College of Engineering and Ceramic Technology	Environmental Awareness	2	80
Safe Drive Save Life Program	Kolkata Police	Social Awareness	2	65
Sapling Plantation Program	Govt. College of Engineering and Ceramic Technology	Environmental Awareness	2	26

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### 3.7 – Collaborations

#### 3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Internship programme	69	WIPRO	90
Internship	2	Amity University	60
Internship	1	HR Johnson	42
Internship	1	R.K. Mission University, Belur	60
Internship programme	27	TCS	90
Collaborative	1	Department of	365

Research		Ceramic Engineering, IIT, BHU	
Industrial Training	31	Industries	60
Industrial Training	30	Industries	30
Industrial Training	23	Industries	30
<a href="#">View File</a>			

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Institute-Industry col laboration	Industrial training	Industries	25/05/2020	10/07/2020	31
Institute-Industry col laboration	Industrial Training	Industries	01/06/2020	10/07/2020	30
Institute-Industry col laboration	Industrial Training	Industries	15/04/2020	27/05/2020	23
<a href="#">View File</a>					

3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
West Bengal Animals and Fisheries University	12/12/2019	Collaborative Research	2
<a href="#">View File</a>			

## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
170.49	170.49

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing

Seminar halls with ICT facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
Classrooms with LCD facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
<a href="#">View File</a>	

#### 4.2 – Library as a Learning Resource

##### 4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
LIBSYS	Fully	Libsys 4 (Rel 5.0)	2005

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	11517	4606800	165	83094	11682	4689894
Reference Books	4098	1639200	329	165718	4427	1804918
e-Books	3135809	5900	316	566490	3136125	572390
e-Journals	6432	872945	7	9430	6439	882375
Digital Database	1	Nill	Nill	Nill	1	Nill
Library Automation	1	270000	Nill	Nill	1	270000
CD & Video	8224	Nill	Nill	Nill	8224	Nill
Weeding (hard & soft)	495	198000	Nill	Nill	495	198000
<a href="#">View File</a>						

##### 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
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No Data Entered/Not Applicable !!!

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#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	310	182	282	5	100	3	20	100	0
Added	50	37	37	0	0	2	3	0	8
Total	360	219	319	5	100	5	23	100	8

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
No Data Entered/Not Applicable !!!	

#### 4.4 – Maintenance of Campus Infrastructure

##### 4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
179.62	179.62	62.05	62.05

##### 4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

The College being a government institute, Public Works Department (Civil and Electrical division), Govt. of West Bengal looks after the maintenance work of all the physical infrastructure as and when required. In this aspect, PWD carries out detailed inspection as per requisition of the institute and submits the estimated budget for the proposed work. This budget is then placed to the higher education department for their approval and the work is subsequently executed. For urgent plumbing and sanitary maintenance work, the College authority can execute it and submit the bill to the Kolkata Pay A/Cs office for payment. The PWD electrical division has set up an office within the college campus for day-to-day maintenance activities of all the electrical appliances and installations. In addition to these, there are certain procedures adopted for maintenance and purchase of academic as well as other support facilities. The concerned faculty puts forward requisition through the HODs to the Principal to decide on purchase and maintenance of laboratory equipment under the State budget. All purchases and maintenance are decided by the Purchase committee, with the Registrar of the College as the convener. Any purchase costing over Rs. 10,000/- is done following West Bengal Financial Rules. Occasionally, few equipment which are not covered under annual maintenance contract are looked after by faculty and support staff. In addition to this, a network maintenance committee is also constituted with faculties and technical

assistants to look after the smooth functioning of the internet connection facilities within the college campus. Finally, the college authority ensures regular cleaning and sanitization of the whole campus including gym and play-ground area of the institute. Security and house keeping services are outsourced following Govt. rules. To meet the information needs of the teachers, students and research scholars, the concerned HODs, in consultation with the teachers, selects the books and e-contents for collection. Students demands are noted down in the book requisition register maintained in the library. Collected materials are processed either by the librarian or through outsourcing depending upon the volume of collection. Day to day house keeping operation viz. accessioning, shelving, retrieval, issue, return, restoration, shelf rectification, cataloguing, data entry are done by the librarian. Dusting and cleaning, pest controlling and binding of damaged books are done through outsourcing. Collection of books are examined periodically for the purpose of repair, replacement or removal. Maintenance of computer and photocopier machines are done through AMC. The library committee members discuss regularly regarding various policies and procedures for the betterment and development of the library.

<http://gcect.ac.in/igac/>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Freeship	55	576000
Financial Support from Other Sources			
a) National	Swami Vivekananda Merit cum Means/Muslim Education Trust, Delhi/Minority Development Trust, West Bengal /SC, ST, OBC	99	3564600
b) International	Islamic Development Bank, SAUDI ARABIA	1	65000

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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Language Lab	05/08/2019	106	In House/GCECT
Soft Skill Development	05/08/2019	106	In House/GCECT
Yoga and meditation	03/09/2019	96	Yoga Master Partha Pratim Banerjee
Bridge Course	05/08/2019	106	In House/GCECT

Personal Counselling	05/08/2019	106	GCECT Faculties
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2020	GATE	34	34	14	10
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
MNCs, Start-ups (Details attached)	27	26	MNCs, Start-ups (Details attached)	56	44
<a href="#">View File</a>					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	2	B.Tech	Ceramic Technology	IIT and IIM	M.Tech and MBA
2020	8	B.Tech	Computer Science Engineering	IITs and NITs	M.Tech
2020	3	B.Tech	Information Technology	IIEST	M.Tech
<a href="#">View File</a>					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying



GATE	14
CAT	2
GRE	1
Any Other	2
<a href="#">View File</a>	

#### 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Cultural Fest- Jagriti	College Level. (Intra and Inter College)	81
Foot Ball (Boys)	College Level. (Intra and Inter College)	113
Foot Ball (Women)	College Level (Intra)	16
Cricket	College Level (Intra and Inter College))	102
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### 5.3 – Student Participation and Activities

#### 5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Nil	National	Nill	Nill	Nill	Nill
2019	Nil	Internat ional	Nill	Nill	Nill	Nill
2019	Nil	National	Nill	Nill	Nill	Nill
2020	Nil	Internat ional	Nill	Nill	Nill	Nill
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#### 5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Students Welfare Association and its representatives are responsible for taking care of mental, academic and social well being of 400 plus students in the campus and assessing the requirements of the students for putting them before the Principal of the college for necessary action. The students representatives work as facilitators for the functions of training and placement cell. The students Welfare Association are also responsible for assisting, motivating, counselling and organizing various events round the year for holistic development of the students. The leading representatives play pivotal role as organizers and coordinators for cultural and technical events during Jagriti - their cultural annual fest and Karmatec - an inter-college technical fest organized by the Students Welfare Association held at the campus respectively. General Secretary of the Welfare Association is a member of the Governing Body of the College. A few student representatives are actively involved in assisting the HODs and Training Placement Cell for organizing industrial training, industry visits and both on and off campus placements drives.

### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni Association of Government College of Engineering Ceramic Technology is registered and functional. The Association organizes special lectures, workshops, different Technical Seminars for the students and faculty and yearly event like National Symposium cum Alumni Meet in the college campus to strengthen bonding of former students with current students and faculties of the institution. Many alumni make scope for internship to the present students. The Alumni Association has organized monthly free Medical Health check up at alumni room for the benefits of present students, alumni, faculty and their family members. Few alumni are Senior VPs/Managing Directors of reputed Industries, many are heading production, international marketing, project divisions etc. The association has Executive committee of thirty five members from across different parts of the Globe. It also has regional coordinator to communicate with alumni in different geographical area. It maintains a secured website: <https://www.gecetalumnus.org>. For communicating purpose, the association uses an email id: [gcectalumnus@gmail.com](mailto:gcectalumnus@gmail.com). The Objectives of the association are: 1. To develop networking between the present and future alumni on a common platform on a continuous basis 2. To advise and suggest matters relating to the betterment of the Institute 3. To maintain the honor and dignity of the fellow alumni as well as to maintain camaraderie and fraternity amongst the ex-students of the Institute by promoting social and cultural association amongst themselves 4. To associate with the Institute for arranging and holding annual re-union of the past and present students 5. To systematically uplift the image and status of the Institute, both nationally and internationally 6. To help the Institute organizing National and International seminars/workshops/ conferences/symposia on selected topics of science technology to disseminate latest trends practices in industries among the students, faculty and attendees 7. To help the Institute organizing series of lectures delivered by renowned scientists, technologists, economists, etc. on cutting edge technology, social issues, community services, etc. 8. To approve/promote establishment of alumni association units or chapters in different geographical locations having adequate congregation of alumni

5.4.2 – No. of registered Alumni:

473

5.4.3 – Alumni contribution during the year (in Rupees) :

1111819

5.4.4 – Meetings/activities organized by Alumni Association :

1. Seminar on "Globalization of Information Communication Technologies: Possible Threats and Opportunites" on 20th Sept, 2019 (Friday) at the College Auditorium, GCECT, Kolkata Jointly organized by "Government College of Engineering Ceramic Technology (GCECT)" and "Alumni Association of GCECT" 2. 4th National Symposium organised by GCECT Alumni Association On "Sustainable growth through making in India" on 24th Jan, 2020 at College Auditorium and on 25th Jan, 2020 at the Stadel Hotel, Kolkata. 3. The association organized monthly Homoeopathic Medical Health Camp at GCECT Alumni office from April 2019 to March 2020. The tentative timing of the camp has been from 11am to 2pm on a day convenient to all. The purpose of the camp is regular health check-up and initiative for treatment of the college students, alumni members, Faculty, Staff and their family members in the event of any indisposition.

**CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

**6.1 – Institutional Vision and Leadership**

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization happens at various levels of the institution: A. Administration:- Various statutory committees e.g., Anti Ragging Committee, Grievance Redressal Committee, Admission Committee, Examination Committee, Establishment Committee for SC/ST) help the institute to run the administration smoothly. B. Academics:- BOS, Academic Council help the institute in academic matters. C. Quality Assurance:- IQAC, Library Committee etc. help the institute in Quality management, Two practices of decentralization and participative management are as follows: 1) The college is under the administrative control of Higher Education Department, Government of West Bengal and is overseen by the Directorate of Technical Education. The institution follows West Bengal Service Rules and West Bengal Financial Rules. Proposals in respect of upgradation and augmentation of infrastructure are initiated from the departmental level with inputs from the students and other stake-holders, which are then placed before the Principal. After making necessary formalities for purchase, the matter is placed to the purchase committee, consisting of faculties and administrative staff. For any new construction, proposal is placed before the GB for recommendation and onward transmission to the HE department through the Directorate of Technical education, Govt. of West Bengal for administrative approval and sanction of funds for the same for both the cases. 2) All faculties, students and stake holders are involved in the development of the curriculum of the college. The proposals received in respect of designing of the curriculum and introduction of new course, if any, are discussed in the departmental meetings and placed in the respective Board of Studies. This is then placed to the Academic Council and finally to the Governing Body for approval and implementation. The academic regulations are also framed and approved and implemented following the same procedures. This is worth mentioning that there is representation of faculty, administrative staff and external experts in the respective Boards of Studies of all departments, the Academic Council and Governing Body.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	1. Upgrading curriculum from the academic session 2018-19 and continuing with upgrading of curriculum in each semester taking continuous feedback from employers, industries and stake holders. 2. Emphasizing on industry driven elective papers based on the feedback of employer, alumni and other stakeholders. 3. Industrial training also helps in enriching the curriculum in the form of feedback of the students.
Teaching and Learning	1. Regular theory and practical classes and tutorial classes are held with periodic evaluation. 2. The Institute has five Smart Classrooms to cater to ICT enabled teaching-learning

	<p>process while other class rooms are functioning with audio-visual system.</p> <p>3. Modernization of laboratories incorporating modern equipment</p> <p>4. Teachers maintain their respective detailed lesson plans and share the same with the students.</p> <p>5. Class lectures are supplemented by discussions, quizzes, students' projects and presentations.</p> <p>6. Students are encouraged to use institutional WiFi connectivity to access a wide range of e-resources.</p> <p>7. Teaching through online modes.</p> <p>8. There is a repository of recorded lectures for the benefit of the students.</p>
<p>Examination and Evaluation</p>	<p>1. Theory and Laboratory classes are evaluated through continuous assessment model.</p> <p>2. Comprehensive Lab Assessment through a panel of external experts for assessing students' performance.</p> <p>3. Viewing of answer script by the students before publication of final result.</p> <p>4. From academic session 2018-19, grading system are converted to CGPA from old YGPA/DGPA system to keep pace with all India system of grading, with minimum qualifying marks of 50</p> <p>5. There is provision of obtaining additional 20 credits from MOOCS for the award of Honours degree.</p> <p>6. Online examination and evaluation introduced.</p>
<p>Research and Development</p>	<p>1. Faculties are encouraged to obtain Research Grant and engage research scholars.</p> <p>2. Faculties are encouraged to present papers and attend seminars, conferences, workshops and publish research papers in national and international journals.</p> <p>3. Research committee provides motivation and guidance to researchers.</p> <p>4. Encouragement is provided to faculties for availing research schemes, projects and grants from funding agencies like UGC, state DST.</p> <p>5. Encouragement to submit research articles to college published Journal titled Scientific Voyage</p> <p>6. Weekly seminar by faculty members regarding research topics of their respective fields.</p>
<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>1. Students are encouraged to use book bank and e-resources available at the Library.</p> <p>2. High speed internet and WiFi facilities for use of e-resources in the digitized library and computer laboratory.</p> <p>3. Procurement of books and laboratory equipment are done on</p>

regular basis. 4. Library committee looks after the upgradation and modernization of the library. 5. Free reprographic facilities for students on requirement basis. 6. Smart class room are being used for ICT and outcome based teaching-learning. 7. Renovation of washrooms.

Human Resource Management

1. College has Anti Ragging Committee, RTI Cell, Grievance Redressal Cell and Internal Complaints Committee to address students' issues. 2. Mentoring the students. 3. Provision of student counselor. 4. Workshop on financial issues for all teaching and non teaching staff. 5. Activities by the college NSS committee 6. Self Appraisal records are maintained through teachers' detailed attendance register 7. Institutional support to faculty members for attending Faculty Development Programmes like Orientation, Refresher and Short Term Courses, conferences, seminars, Workshops etc.

Industry Interaction / Collaboration

1. The HODs and faculties of the institute keep in touch with the industries on a regular basis 2. Periodic seminars and training programmes are organized by the college in collaboration with different industries where eminent persons from the industries share their vital encouraging thoughts with the students. 3. Students visit the industries and interact with the industrial persons 4. Summer internship, training, one day visit to plants are conducted to familiarize students with the production environment.

Admission of Students

1. The college strictly adheres to the guidelines of Government of West Bengal and regulatory authorities for admission criteria and intake capacity. 2. Government reservation policies are strictly adhered to during admission. 3. The initial admission is conducted as per counselling and allotment made by West Bengal Joint Entrance Examination Board (WBJEEB). Later on, as per Government guidelines, decentralized counselling is carried out based on the availability of vacant seats. Notice is published, and on receipt of valid applications, seats are allotted on the basis of WBJEE merit rank.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Email, WhatsApp and college website are used to connect teachers, students, staff and others. Government of West Bengal has established e-office. The college is also using these facilities.
Administration	E tendering is done through online portal. College uses financial management software and human resource management software for managing the administrative jobs in online mode. Urgent notices are notified through the college website and SMS Gateway.
Finance and Accounts	E tendering is done through online portal. All financial transactions and accounting are run through financial management software of the Government of West Bengal Salary is disbursed electronically through HRMS portal of the Government of West Bengal.
Student Admission and Support	Admission, registration and payment of fees in online modes. Online maintenance of student database. Online access of e-books, and recorded lectures.
Examination	Filling up of examination form, issue of admit card, submission of marks by the examiner and publication of results are done in online mode.

**6.3 – Faculty Empowerment Strategies**

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
<b>No Data Entered/Not Applicable !!!</b>				
No file uploaded.				

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Methods of online teaching	None	08/06/2020	08/06/2020	35	Nil

2020	Guidelines to preparation of course file	None	17/01/2020	17/01/2020	31	Nil
2019	Awareness programme regarding Management Information System (MIS)	Awareness programme regarding Management Information System (MIS)	03/07/2019	03/07/2019	16	9
<a href="#">View File</a>						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Short Term Training Programme on "Induction Training"	3	06/01/2020	10/01/2020	5
Short Term Training Programme on "Active Learning under Engineering Education"	2	08/07/2019	19/07/2019	12
Refresher Course on Non-Conventional Energy-A Paradigm Shift towards Sustainability	4	06/01/2020	18/01/2020	13
Professional Development Programme on Advanced Technology Programme	1	17/02/2020	19/02/2020	3
Short Term Course on Image Authentication, WSN and IoT	1	22/06/2020	26/06/2020	5
Experts training programme on	2	27/02/2020	27/02/2020	1

NBA

[View File](#)

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nil	Nil	5	5

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Same as State Government schemes including general provident fund, gratuity on superannuation and pension, entitlement to get residential accommodation in Government Housing Estates, Provisions for various types of loans such as house building, computer, vehicle etc. Government health scheme, group insurance policies, child care leave, and others. There is a provision for festival bonus/advance, depending on the basic pay of the employee.</p>	<p>Same as State Government schemes including general provident fund, gratuity on superannuation and pension, entitlement to get residential accommodation in Government Housing Estates, Provisions for various types of loans such as house building, computer, vehicle etc. Government health scheme, group insurance policies, child care leave, and others. Apart from these, on demise of in-service Government staff (depending on pay scale), there is a provision for the appointment of his/her son/ unmarried daughter on compensatory ground. There is a provision for festival bonus/advance, depending on the basic pay of the employee.</p>	<p>Health Card, Students' Welfare Association, Different Scholarships, Financial help to Students' Welfare Association for conducting different activities, Tuition fee concession (Half free and Full fee waiver). Apart from these, on demise of guardian, there is a provision for complete fee waiver on compensatory ground. Students are entitled to receive railway concession.</p>

**6.4 – Financial Management and Resource Mobilization**

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

College has statutory Financial Management Committee and a defined mechanism of CAG audit of its accounts regularly as per Govt. Finance rules. Office of Principal Accountant General (Audit), WB provides an Inspection Report of college accounts for onward transmission through the department of Higher Education. Internal audit is conducted by Internal Audit Wing of Finance Department. Autonomy grants sanctioned by the UGC are audited by registered Chartered Accountants appointed by college. The Audited Utilization Certificate is sent to UGC within stipulated time. Other grants received for seminars, symposiums, research projects etc. are also audited by qualified auditors appointed by college.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)



Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Alumni Association, GCECT	1111819	For organizing technical seminars
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

5346000
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**6.5 – Internal Quality Assurance System**

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Academic Audit Committee	Yes	Departmental Academic Audit and IQAC
Administrative	Yes	Principal Secretary, Higher Education	Yes	Principal

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

<p>1. Parents are invited during the Induction programme and they are made aware of the rules and regulations of the college, examination process and assessment systems, outreach and co-curricular programmes, and career oriented courses. 2. There is often communication between parents and departmental teachers, and/or through teacher mentors, HODs, either personally or over telephone, regarding the academic progress of the students and any other matters related to college 3. Suggestions and recommendations from parents are discussed with the faculty members during departmental meetings and with the Principal. 4. There is a provision for participation of parent/guardian as a member of the IQAC of the institute.</p>
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6.5.3 – Development programmes for support staff (at least three)

<p>1. Discussion on different schemes of personal savings under different organizations is conducted for all staff members, including support staff. 2. Training is organized by college to train the office staff to familiarize them with the HRMS systems initiated by the state Government 3. Training is also organized by college for the support staff for managing e-governance activities of the college regarding admission, examination and other administrative works.</p>
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6.5.4 – Post Accreditation initiative(s) (mention at least three)

<p>1. Restructuring the course structure as per the need of industries and stakeholders 2. Emphasizing continuous evaluation process in teaching-learning and evaluation process 3. Introducing Comprehensive Lab Assessment through a panel of external experts of respective field for assessing students' performance in lab paper. 4. Introduction to Honours courses with additional 20 credit points to be acquired through the online MOOC platform by the students. 5. Introduction of taking students' feedback in online mode.</p>
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6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes

c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Globalization of Information Communication Technologies: Possible Threats and Opportunities	08/07/2019	20/09/2019	20/09/2019	105
2019	Showing of Documentary films on Scientist Satyendranath Bose and Freedom Fighter Matangini Hazra	08/07/2019	14/09/2019	14/09/2019	56
2020	National Symposium on Sustainable growth through making in India	08/07/2019	25/01/2020	25/01/2020	160

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**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**

**7.1 – Institutional Values and Social Responsibilities**

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Legal aids for protection of Individual rights	19/08/2019	13/03/2020	36	76
Awareness Program on Women's Rights	24/09/2019	28/02/2020	35	24

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
The institute meets partially its electrical power requirement from the solar

energy sources installed at various points inside the campus. Total percentage of solar power is about 09.

#### 7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	5
Ramp/Rails	Yes	5
Scribes for examination	Yes	Nil
Physical facilities	Yes	5

#### 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	20/08/2019	8	Health Camp	Health Check-up	302
2019	Nil	1	02/07/2019	47	Karate Training	Self Defense	26

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#### 7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Save water save life rally	23/07/2019	About 80 nos. faculty-student-staff members made a round of the locality with banners and posters on the importance of saving water in order to create awareness in the neighborhood
Setting up of banner against ragging	30/07/2019	It is intended to create awareness regarding menace of ragging and its legal consequences among the existing students
Safe Drive Save Life	06/08/2019	A half day seminar was held in the auditorium jointly with Traffic Department of Kolkata Police.
Anti-Drug Campaign	06/08/2019	A half day seminar was held in the auditorium jointly with Narcotic Cell of Kolkata Police.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Lecture delivered by Sister B K Usha of PRAJAPITA BRAHMA KUMARIS on Self Development	07/08/2019	07/08/2019	123
Lecture on YOGA by Maharaj of Shivananda Yogashram, Kolkata	14/08/2019	14/08/2019	67
Organizing KARATE SHOW by trained students before the new entrants	14/08/2019	14/08/2019	74
Lecture delivered by Swami Suparnananda on Spiritual Upliftment	24/01/2020	24/01/2020	162
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

A - Sapling Plantation
B- Utilization of Solar Power
C- Composting of Solid Organic Waste
D- Placing of Vats at strategic Points to keep the campus litter free
E- Ensuring reduction of wastage of water by putting warning sticker near every water tap

**7.2 – Best Practices**

7.2.1 – Describe at least two institutional best practices

A- Establishing maximum transparency in evaluation of answer scripts - It occurred in the minds of the Principal and the Controller of Examinations after conducting examinations and publication of results for a few semesters that post publication answer scripts review/scrutiny can be simplified with more transparency, to the satisfaction of the students, by introducing certain reform measures. Previously, post publication scrutiny, review and viewing of answer scripts, a standard procedure, would cost a student Rs.200, Rs.400 and Rs.800 (gradually increasing) respectively. The figures clearly indicate that it might have acted as a deterrent for a student to opt for evaluated answer script viewing as the cost he/she has to bear is the highest, i.e., Rs.800 per paper. Given the fact that many of the students after qualifying through Joint Entrance Examination opt for the institute because being a government institution it offers them the scope to study engineering at a very low cost, forking out Rs.800 per paper may not be always possible for them. Sensing this and with a view to establish more transparency, the institute has introduced the scope of viewing the answer script by the students after evaluation in presence of the evaluator himself/herself and rectification of the score, if there is any possibility, in agreement with the evaluator. However, if the disagreement still persists between the two sides, the student is free to pursue the standard laid down procedures to settle the grievance. This system applies to both mid term and semester end examinations. The new procedure has made a marked improvement in the grievance settlement as is evident from the

reduction of number of applications received for reconsideration of result after the publication of result. In consecutive two years, 2018-19 and 2019-20, there was no application from the students for reconsideration of results in any form whatsoever, unlike the previous years. B- Encouragement for best performance in the examination by making provision of best graduate award- Presently, the institute is celebrating Graduate Day, which is equivalent to convocation of a university, in which the Vice Chancellor of the affiliating university, in presence of the Principal, hand over the degree certificates to the eligible candidates from the institute. The Graduate Day celebration, held with due pomp and grandeur, is a very special occasion for the college as the members of the Governing Body and the Academic Council, participate in the event in large numbers. Eminent people as special guests are invited to give lectures on various aspects of social and professional life before the graduates to create a sense of high spirit among them. The event starts with a procession, headed by the Vice Chancellor and followed by the governing body and academic council members, everybody wearing special robe commensurate with the occasion to give it a distinctly graceful look, and ends inside the decorated auditorium. After everybody take their designated seats the vice chancellor declares the session open. The atmosphere thus created makes the participant graduates immensely joyful and excited. in such an environment, receiving medal of the best graduate from the hands of the Vice Chancellor, in presence of so many eminent people, makes the graduate ecstatic. His/her feeling reverberates among the juniors and bears a message of inspiration or encouragement for better performance to reach the top spot.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://gcct.ac.in/igac/>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The seed of this institution, known as the Bengal Ceramic Institute, way back in 1941, was sown with a humble ambition of spreading Ceramic education with hands-on training on traditional potteries and other ceramic products since inception. This was later renamed as College of Ceramic Technology, which had been one of the oldest technological colleges in West Bengal and the only full-fledged Government College in India offering degree programme in Ceramic Technology (CT) from 1962 under the University of Calcutta. This has emerged as one of the best temples of higher learning of Ceramic Technology and was reinforced by the introduction of two new courses, IT and CSE from 2000 and 2001 respectively. With the vision of cultivating excellence in the field by imparting core knowledge to the students and transforming the institution into a Center of Academic Excellence Advanced Research apart from producing skilled technologists, CT department proceeded for successful NBA accreditation as a result of which the institution received a World-Bank funded TEQIP grant of 7.36 crore for development of infrastructure, new laboratory equipment for new departments (IT/CSE), maintenance and upgradation of old laboratory equipment, funding for research and travel to attend conferences and seminar by faculty in the country and abroad and most importantly establishing a campus-wide LAN infrastructure, in addition to effort towards community development and overall growth of the institution. The institution has all along prioritized imparting quality education and training to the students. Students of CT are regularly sent for internship to various industries and almost all students get placement through campus interviews organized. The alumni of CT, the products of its golden harvests, had shone brightly as the dynamic exponents of Ceramics in the country and across the Globe as well. Major thrust has been given on research

in upcoming fields of Ceramic Technology that could automatically earn grants from different funding agencies like UGC, DST, SERB, IREL and CSIR and praises from National Networks. In recent years, several projects on emerging areas have been sanctioned to faculty members worth crore of rupees by the DST, AICTE, CSIR, DSTWB and IREL. Faculty members are also engaged in collaborative work with IIT, CU, JU, CSIR-CGCRI. The department has the rare distinction of having 2 direct CSIR fellows, one researcher selected as Woman Scientist scheme of DST and one Ph.D scholar under RGNF working in diverse areas of the discipline leading to their Ph.D degrees under the able guidance of faculty members. Students of B. Tech and in the past, M. Tech also, have received cash awards in recognition to their excellent project work in final year by the famous Indian Refractory Makers' Association. With a perspective vision of emerging as a Center of Excellence in the field of Ceramic education and research through successful fulfillment and achievement of departmental missions, the department of Ceramic Technology is striving hard towards producing graduates and post graduates, more numbers of Ph.Ds and through establishment of strong bonding with Industries and Research Institutes in India and abroad.

Provide the weblink of the institution

<http://gcect.ac.in/igac/>

### **8.Future Plans of Actions for Next Academic Year**

The advent of new academic session amidst COVID-19 pandemic, resulting lock-down and consequent closure of all academic institutions including technical institutions like ours across the Country, compel us to take some innovative decisions in respect of conduct and maintenance of new normal academic schedule for 2020-21 in an unprecedented situation. The academic activities that are being run amidst pandemic situation are thought to be undertaken in more organized ways. Few online classes that were being taken using online platforms individually, are planned to be organized on behalf of the Institution. Official license would be taken from MS-Team or GSuite platforms, with provisions for individual classroom for each and every subject as per a "New Normal" web class routine to be prepared. The envisaged online classrooms would have restricted entries to the focused group of semester students and the teacher teaching the subject. Official licensed platform is contemplated to be used from the start of the next academic session for having a close monitoring of the online classes being held, with automatic recording of attendances of students. Separate ID would be created for each student and teacher. The teachers would be able to record all classes being taken, share the video recordings in the classroom, take online quizzes, give assignments and assess the classwork/assignments in the classroom itself. It would be immediately shared among the students who would be able to view their progress in a continuous manner from the start of the academic year, always leaving better scopes for improvement, should there be any declining trend. On exercise of academic autonomy, initiatives would be taken to devise mechanism of holding final and intermediate semester examinations under the constraints of pandemic and resulting lockdown and closure of academic institutions across the State. The assessments, necessarily being online only, would be thought to be devised in various phases and modes for all-round assessment of the students. The necessary departure from academic regulations in respect of conduct of various types of examinations such as Mid-Term and Semester End examinations in the "New-Normal" situation would be planned, documented and placed before the Academic Council members for according approval. Amidst pandemic and restrictions all around, the offline summer industrial training/internships of the students would be deferred for a considerable period. The organizations would be approached for phased deferment of summer training schedules and in some cases, would be approached for imparting online training. Few cultural activities would be planned online to encourage the students till

the time there would be no other option to be physically present in the campus. Such programmes would be organized centrally on behalf of the institution to boost the mental health of the students. Periodic review meetings would be held by the Principal taking all teachers in loop using the official platform and using official IDs for monitoring the academic progress from the next academic session. Statutory Committee meetings of the institution would be organized online in the next academic session using the planned, licensed official platform of the institution.