



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	GOVERNMENT COLLEGE OF ENGINEERING AND CERAMIC TECHNOLOGY
Name of the head of the Institution	Prof. 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

2. Institutional Status																			
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																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	http://gcect.ac.in/igac/																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	http://gcect.ac.in/download/Miscellaneous/Academic-Calendar-2019-20.pdf																		
5. Accrediation Details																			
<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														
6. Date of Establishment of IQAC	15-Dec-2017																		
7. Internal Quality Assurance System																			
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																
Regular meetings of	22-Apr-2019		10																

Internal Quality Assurance Cell (IQAC)	1	
Regular meetings of Internal Quality Assurance Cell (IQAC)	08-Feb-2019 1	10
Regular meetings of Internal Quality Assurance Cell (IQAC)	30-Oct-2018 1	9
Regular meetings of Internal Quality Assurance Cell (IQAC)	11-Jul-2018 1	10
Artificial intelligence- the future lies here	16-Nov-2018 1	110
Invited Talk on Wear Mechanism of Refractories in Ferrous and Non-ferrous Industries (in association with Tata Steel Ltd.)	14-Aug-2018 1	26
Key Success Factors for a Professional Starter	06-Sep-2018 1	25
Invited Talk on Primary Aluminium Smelter	01-Oct-2018 1	20
Invited talk on Refractory Concrete Solution	06-Mar-2019 1	31
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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 2555	7000000
GCECT	RUSA 2.0	RUSA	2015 730	20000000
GCECT	TEQIP I	WORLD BANK	2004 1825	73600000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

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	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

1. IQAC took the initiative to conduct students' satisfaction survey for the passing out students.

2. IQAC gives highest importance in academic activities of the institution. The IQAC reviewed the Academic Audit Committee report and advised to implement the recommendations therein in time bound manner as per availability of the resources.

3. Implementation of New Curriculum starting from 2018-19 academic session for the students getting admitted in 2018-19, as per AICTE guidelines.

4. MOOC courses have been introduced for the students who aspire to get B.Tech degree with Honours from the academic year 2018-19.

5. Augmentation of classroom amenities e.g. better visibility of the black-board, better audibility of classroom lectures

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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 fix up programme schedule for the 2nd Graduate Day celebration	nd Graduate Day was celebrated on first February Two Thousand Nineteen under Chairmanship of the Vice Chancellor of MAKAUT. Prof. Dr. Gautam Sutradhar, Director, NIT, Manipur graced the occasion as Chief Guest. Gold, Silver and Bronze medals were awarded to the Rank holders.
To fix the modalities of counselling/mentoring of the students	All departments from second year onwards were asked to assign its faculty members to act as mentor / advisor for the students. Mentors for 1st year students were decided to be from the teachers of Basic Science, Engineering and Humanities, who were

	entrusted with teaching of them.
To propose a plan for the Induction program for the new 1st year students joining the institution in academic session 2018-19	Induction program of 3 weeks duration was successfully conducted with the following components: • Familiarisation to the college facilities • Lecture on academic regulation • Lecture by eminent persons from industry and academia • Bridge course on physics, chemistry and mathematics • Lecture on development of communication skill • Visit to industry and places of scientific importance • Programme of social awareness
To augment the Placement opportunities of students	As per report submitted by the HODs and advisor of the placement cell, the placement of students in the department of Ceramic Technology was 90% and 70% of students of department of IT & CSE were placed. The committee recommends to take more initiative so that the percentage of placement of students can be improved further.
To fix the plan for the prospective conduction of seminars and workshops for the academic year 201819:	Seminar titled Artificial intelligence the future lies here was conducted on sixteenth November. An invited Talk on Wear Mechanism of Refractories in Ferrous and Nonferrous Industries (in association with Tata Steel Ltd.) was organized on fourteenth August. A seminar on Key success factors for a professional starter was held on sixth September. Invited talk on Primary Aluminium Smelter was organized on first October. Invited talk on Refractory Concrete Solution was organized on sixth March Two thousand nineteen.
To create opportunity for internship of third year students	Few adjustments e.g. holding third year Ceramic Technology examinations of sixth semester were conducted along with fourth year students so that they could get more time for internship before commencement of next academic session.
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14. Whether AQAR was placed before statutory body ?	No
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	2019
Date of Submission	28-Feb-2019
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 salary disbursement of all staff of the institute have been made online through Integrated Financial Management System (IFMS).

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	08/01/2018
BTech	1-1464979835	Information Technology	11/05/2018
BTech	1-1464979837	Computer science & Engineering	20/04/2018
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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	08/01/2018	Ceramic Raw Materials CT301	02/07/2018
BTech	Information Technology	11/05/2018	Object Oriented Programming Systems, IT 510	02/07/2018
BTech	Computer science & Engineering	20/04/2018	Database Management System, CS509	02/07/2018
BTech	Ceramic Technology	08/01/2018	Glass Science & Technology CT506	02/07/2018
BTech	Information Technology	11/05/2018	Computer Network (Theory lab) IT611, IT691	02/07/2018
BTech	Computer	20/04/2018	Software	02/07/2018

	science Engineering		Engineering (Theory lab) CS614,CS694	
BTech	Ceramic Technology	08/01/2018	Refractories (Theory lab) CT505,CT515	02/07/2018
BTech	Information Technology	11/05/2018	Multimedia Systems (Theory lab) IT614,IT694	02/07/2018
BTech	Computer science Engineering	20/04/2018	Java Programming Lab, CS695	02/07/2018
BTech	Ceramic Technology	08/01/2018	Cement & Concrete, CT 508	02/07/2018
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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
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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	Ceramic Technology	08/01/2018
BTech	Information Technology	11/05/2018
BTech	Computer science & Engineering	20/04/2018

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
TCS TAAP program	03/07/2018	40
Wipro	09/07/2018	65
MOOC	02/07/2018	168
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Information Technology	36
BTech	Computer science & engineering	38
BTech	Ceramic Technology	33

Mtech	Information Technology	11
Mtech	Ceramic technology	2
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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
<p>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</p>

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
Mtech	Information Technology	18	Nil	11
Mtech	Ceramic Technology	18	Nil	2
BTech	Ceramic Technology	40	1572	33
BTech	Computer Science and Engineering	40	3548	38
BTech	Information Technology	40	2736	36

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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
2018	435	28	15	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
33	33	8	9	5	12

[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 14 students (for the year 2018-19) 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
463	33	1:14

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
52	33	19	4	17

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
2018	Dr. Saibal Ray	Associate Professor	Visiting Associateship of UGC at IUCAA, PUNE
2018	Dr. Krishnendu Chakrabarty	Principal	Siksha Ratna Award, Govt. of West Bengal

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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	25/04/2019	17/05/2019
BTech	Information Technology	8th	25/04/2019	17/05/2019
BTech	Computer Science and Engineering	8th	25/04/2019	17/05/2019
Mtech	Information Technology	4th	25/04/2019	05/07/2019

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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
26	463	5.62

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://gcet.ac.in>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
1-1464979841	Mtech	Information Technology	12	12	100%
1-1464979837	BTech	Computer Science and Engineering	47	47	100%
1-1464979835	BTech	Information Technology	36	35	97%

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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	01/08/2017	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	Total grant	Amount received
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		agency	sanctioned	during the year
Major Projects	1095	BRNS	2756950	834424
Major Projects	1275	SERB	3006000	590000
Major Projects	1095	DST	5478750	1045000
Major Projects	1550	DST	6152450	0
Major Projects	1550	DST	6000450	850000
Minor Projects	730	WB-DST	868800	554400
Minor Projects	730	WB-DST	448800	224400
Minor Projects	1105	WB-DST	1255000	676000
Minor Projects	730	WB-DST	548000	548000
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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

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	28/09/2018
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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
Nil	Nil	Nil	Nil	Nil
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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
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Nil	Nil
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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	Computer Science and Engineering	4	1.24
International	Basic Science, Engineering and Humanities	2	5.2
International	Information Technology	1	2.61
International	Ceramic Technology	1	0

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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
Computer Science Engineering	1
Information Technology	1
Ceramic Technology	7

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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Nil	Nil	0	Nil

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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 Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Resonant energy transfer in a van der Waals stacked MoS 2-functionalized graphene quantum dot composite with ab initio validation	N. Mazumder et al.	Nanoscale	2018	4	BSEH	4
Mg _{0.5} Zn ₀	T.K. Bha	SN	2019	6	CT,	5

.5Fe2O4 Polyurethane thin nanocomposite coating as broadband microwave absorber	ttacharya	Applied Sciences			GCECT	
Brain Tumor Segmentation on MR Image using K-means and Fuzzy-Possibilistic Clustering	M. Maitra et al.	IEMGRAPH	2018	2	IT, GCECT	2
Microcontroller Based Speed Control And Speed Regulation Scheme For Bldc Motor Under Variable Loading Conditions	A. Mukherjee et al.	Acta Tech. Corvin.-Bull. Eng.	2018	3	BSEH	3
Non-regular unary language and parallel communicating Watson-Crick automata systems	K. Chatterjee et al.	Theor. Comput. Sci.	2018	0	CSE, GCECT	Nil
Innovative ranking strategy for IPL team formation	K. Chatterjee et al.	Int. J. Eng. Adv. Technol. (IJEAT)	2019	1	CSE, GCECT	1
Unary Watson-Crick automata	K. Chatterjee et al.	Theor. Comput. Sci.	2019	1	CSE, GCECT	1
Use of Spectral Clustering Combined	P. Ghosh et al.	Patt. Recog. Image Anal.	2018	1	CSE, GCECT	1

with Normalized Cuts (N-Cuts) in an Iterative k-Means Clustering Framework (NKSC) for Superpixel Segmentation with Contour Adherence

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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
Resonant energy transfer in a van der Waals stacked MoS ₂ -functionalized graphene quantum dot composite with ab initio validation	N. Mazumder et al.	Nanoscale	2018	4	4	BSEH
Mg _{0.5} Zn _{0.5} Fe ₂ O ₄ Polyurethane thin nanocomposite coating as broadband microwave absorber	T.K. Bhattacharya et al.	SN Applied Sciences	2019	6	5	CT, GCECT
Brain Tumor Segmentation on MR Image using K-means and Fuzzy-Possibilistic Clustering	M. Maitra et al.	IEMGRAPH	2018	8	2	IT, GCECT

Microcontroller Based Speed Control And Speed Regulation Scheme For Bldc Motor Under Variable Loading Conditions	A. Mukherjee et al.	Acta Tech. Corvin.-Bull. Eng.	2018	6	3	BSEH
Non-regular unary language and parallel communicating Watson-Crick automata systems	K. Chatterjee et al.	Theor. Comput. Sci.	2018	6	Nil	CSE, GCECT
Innovative ranking strategy for IPL team formation	K. Chatterjee et al.	Int. J. Eng. Adv. Technol. (IJEAT)	2019	6	1	CSE, GCECT
Unary Watson-Crick automata	K. Chatterjee et al.	Theor. Comput. Sci.	2019	6	1	CSE, GCECT
Use of Spectral Clustering Combined with Normalized Cuts (N-Cuts) in an Iterative k-Means Clustering Framework (NKSC) for Superpixel Segmentation with Contour Adherence	P. Ghosh et al.	Patt. Recog. Image Anal.	2018	2	1	CSE, GCECT
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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	3	2	Nil	Nil
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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)
Electronics	Design optimization of broadband microstrip antenna	WB-DST	0
Physics	Fabrication of CuPc nanotube based all-organic flexible photodiode for light detection and solar energy conversion	WB-DST	0
Physics	Studies on Compact Stellar Objects	WB-DST	0
Ceramic Technology	Studies on the effect of fly ash addition on the properties of Porcelainised Ceramics	WB-DST	0
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	33533
Ceramic Technology	Development of Pre/In-situ Formed CNT Reinforced MgAl2O4 Spinel Matrix Composites	SERB	24717
Information	Embedding	BRNS	0

Technology	Segmentation of PET Images for Medical Applications in Brain Disorders	
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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	0	0
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
Orientation Program of NSS	NSS, GCECT	2	92
Eye Screening Camp	NSS, GCECT	2	97
Swachh Bharat Summer Internship Program	NSS, GCECT	10	20
Anti Drug Addiction Program (Half Day)	NSS, GCECT	2	74
Safe Drive Save Life Program (Half Day)	NSS, GCECT	2	74
Sapling Plantation Program	NSS, GCECT	2	74
Karate Show	NSS, GCECT	2	35
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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
Nil	Nil	Nil	Nil
No file uploaded.			

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
Orientation Program of NSS	NSS unit, GCECT	Orientation Program of NSS	2	92

Eye Screening Camp	NSS unit of GCECT	Eye Camp	2	97
Swachh Bharat Summer Internship Program	NSS unit of GCECT	Swachh Bharat Summer Internship Program	10	20
Safe Drive Save Life Program (Half Day)	NSS unit, GCECT	Safe Drive Save Life	2	74
Anti Drug Addiction Program (Half Day)	NSS unit, GCECT	Anti Drug Addiction Program	2	74
Sapling Plantation Program	NSS unit, GCECT	Sapling Plantation Program	2	35
Karate Show	NSS unit, GCECT	Self Defense Technique	2	10
View File				

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
Collaborative Project	Department of Information Technology (GCECT), RCCIIT, VECC and Apollo Gleneagles Hospital.	BRNS, DAE	1095
Collaborative Research	Department of Information Technology (GCECT) and Department of Computer Science (IIEST)	UGC Fellowship of research scholar	1825
Internship	ITC Infotech	ITC Infotech	60
Internship	National e-Governance Division	National e-Governance Division	60
Industrial Training	Students, GCECT	Ct, IT, CSE	60
View File			

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 collaboration	Industrial Training Industries, GCECT	Nil	Nil	35
Institute-Industry collaboration	Industrial Training Industries, GCECT	Nil	Nil	37
Institute-Industry collaboration	Industrial Training Industries, GCECT	Nil	Nil	17
View File				

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
No Data Entered/Not Applicable !!!			
No file uploaded.			

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
120.97	120.97

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
View File	

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	2005

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	Text Books	11292	4400641	225	206159	11517
Reference Books	4023	1570480	75	68720	4098	1639200
e-Books	3135809	5900	Nil	Nil	3135809	5900
e-Journals	6237	5900	195	867045	6432	872945
Digital Database	1	Nil	Nil	Nil	1	Nil
CD & Video	8224	Nil	Nil	Nil	8224	Nil
Library Automation	1	270000	Nil	Nil	1	270000
Weeding (hard & soft)	495	198000	Nil	Nil	495	198000

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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
No Data Entered/Not Applicable !!!			
No file uploaded.			

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	0	0	0	0	0	0	0	0	0
Total	310	182	282	5	100	3	20	100	0

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
45.93	45.93	106.15	106.15

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 infrastructures 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 assistant 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 playground area of the institute. Security and house keeping services are outsourced by following the Govt. rules. To meet the information need 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 are regularly framing various policies and procedures for the development as well as betterment of the library.

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
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Financial Support from institution	Freeship	65	834000
Financial Support from Other Sources			
a) National	Swami Vivekananda Merit Cum Means/Muslim Education Trust, Delhi/Minority Development Trust, West Bengal/SC,ST,OBC	79	2363000
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 implemetation	Number of students enrolled	Agencies involved
Personal Counselling	01/08/2018	107	GCECT Faculties
Soft Skill Development	01/08/2018	107	In House/GCECT
Bridge Course	01/08/2018	107	In House/GCECT
Language Lab	01/08/2018	107	In House/GCECT
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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
2019	GATE	23	23	13	12
View File					

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
No Data Entered/Not Applicable !!!		

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations	Number of students	Number of students placed	Name of organizations	Number of students	Number of students placed

visited	participated		visited	participated	
MNCs, Start-Ups (Details Attached)	28	25	MNCs, Start-Ups (Details Attached)	83	38
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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
2019	3	B.Tech.	Computer Science & Engineering	IIT, IIM	M.Tech & MBA
2019	3	B.Tech	Information Technology	IITs, ISRB	M.Tech
2019	1	B.Tech	Ceramic Technology	IITs, IIM	M.Tech
View File					

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	12
GRE	2
Any Other	2
CAT	3
View File	

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

Activity	Level	Number of Participants
Cultural Fest(Technical)-Karmatech	College Level (Intra)	16
Cricket	College Level (Intra)	64
Football Boys	College Level (Intra)	72
Cultural Fest-Jagriti	College Level (Intra)	64
View File		

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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Nil	National	Nil	Nil	Nil	Nil
2019	Nil	International	Nil	Nil	NIL	NIL

No file uploaded.

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student 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 of the college. The students welfare Association are also responsible for assisting ,motivating,counselling and organizing various events during Jagriti-their cultural annual fest and Karmatec-an inter college technical fest held at the campus respectively.. General Secretary of the Welfare Association is a member of the Governing Body of the college. A few student representative are actively involved in assisting the HODs and training placement cell for organizing industrial training, industry visits and both on and off campus placement drives.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The college has a newly reconstituted Alumni association and the Alumni Association of Govt. College of Engineering and Ceramic Technology is registered and functional.. The alumni association is working on to organize special lectures, different technical seminars, academic convention, workshops,and yearly event like National symposium cum alumni meet at the college campus to strengthen the bonding between the former students and current students and faculties of the institution.Many alumni make scope for the internship to the present students.Few alumni are senior VPs/managing directors of reputed industries,few are heading production, international marketing,project divisions etc.It maintains a secured website: //www.gcetalumnus.org.for communicating purpose, the association uses an email id: gcetalumnus@gmail.com The College collects feedback from the alumni and suggestions from that end are being well considered for developing the curricula and other development activities of the College.

5.4.2 – No. of registered Alumni:

300

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

1044041

5.4.4 – Meetings/activities organized by Alumni Association :

1.One Annual General Body Meeting, 2. Six Executive Committee Meeting 3. One seminar on "Artificial Intelligence - the Future Lies Here" on 16th Nov,2018 4. One National Symposium on "Sustainable Growth in Coming Decades through Effective Research and Development in Ceramic, Metallurgy, Refractories and IT" on 2nd February, 2019

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. Emphasizing on continuous evaluation method from this session. 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 process while other class rooms are functioning with audio-visual system.

	<p>3. Modernization of laboratories incorporating modern equipment 4. Teachers maintain their respective detailed lesson plans and share the same with the students. 5. Class lectures are supplemented by assignments, discussions, quizzes, students' projects and presentations. 6. Students are encouraged to use institutional WiFi connectivity to access a wide range of e-resources.</p>
<p>Examination and Evaluation</p>	<p>1. Theory and Laboratory classes are evaluated through continuous assessment model. 2. Comprehensive Lab Assessment (CLA) is conducted through a panel of external experts for assessing students' performance at the end of the semester. 3. Viewing of answer script by the students before publication of final result is performed. 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. 5. The minimum qualifying marks of 50 6. There is provision of obtaining additional 20 credits from MOOCS for the award of Honours degree.</p>
<p>Research and Development</p>	<p>1. Faculties are encouraged to obtain Research Grant and engage research scholars. 2. Faculties are encouraged to present papers and attend seminars, conferences, workshops and publish research papers in national and international journals. 3. Research committee provides motivation and guidance to researchers. 4. Encouragement is provided to faculties for availing research schemes, projects and grants from funding agencies like UGC, state DST. 5. As the college has three major departments, duly assisted by the faculties of Basic Science, Engineering, Economics and Humanities interdisciplinary work and collaborative work is always encouraged among the faculties and students to enhance the quality of research. 6. Encouragement to submit research articles to college published Journal titled Scientific Voyage.</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. 2. High speed internet and WiFi facilities for use of e-resources in the digitized library and computer laboratory. 3. Procurement of books and</p>

laboratory equipment are done on 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. Activities by the college NSS committee 4. Self Appraisal records are maintained through teachers' detailed attendance resister 5. Institutional support to faculty members for attending Faculty Development Programmes like Orientation, Refresher and Short Term Courses, conferences, seminars, Workshops etc. 6. Provision of student counselor. 7. Workshop on financial issues for all teaching and non teaching staff.

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 (FMS) and human resource management software (HRMS) 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 are carried out to facilitate students in online mode through bank. Maintenance of student database is done in the academic section in digital form. Access of e-books, and different lectures is available in college library.
Examination	Filling up of examination form and issue of admit card is done in the academic section. Teachers are advised to submit marks, written in duly filled marks slip, to the controller section. Publication of results is done in college notice board post result declaration and maintained in digital 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
2019	Nil	Nil	Nil	Nil
2018	Nil	Nil	Nil	Nil
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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)
2018	Awareness programme regarding different savings scheme organized by SBI Beliaghata	Awareness programme regarding different savings scheme organized by SBI Beliaghata	06/12/2018	06/12/2018	25	11
2019	Familiarization with Health Scheme of Govt. of West Bengal	Familiarization with Health Scheme of Govt. of West Bengal	07/02/2019	07/02/2019	20	11

[View File](#)

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 Program	1	09/07/2018	13/07/2018	5
Short Term Training Program	1	26/11/2018	30/11/2018	5
Refresher Course	1	31/12/2018	22/01/2019	23

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

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

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Same as State Government schemes	Same as State Government schemes	Students Health Card, Students' Welfare

<p>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>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>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>
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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	1044041	Organizing technical seminars
View File		

6.4.3 – Total corpus fund generated

5802000

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)

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.

6.5.3 – Development programmes for support staff (at least three)

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. Awareness programmes regarding service and financial rules of Government of WB 4. Training is also organized by college for the support staff for managing admission, examination and other administrative works

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Restructuring the course structure as per the need of industries and stakeholders 2. Emphasizing more on industry oriented subjects and requirements and 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. Emphasizing more on taking students' feedback.

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
2018	Artificial Intelligence - The future lies here	30/10/2018	16/11/2018	16/11/2018	110
2018	Invited Talk on Wear	11/07/2018	14/08/2018	14/08/2018	26

	Mechanism of Refractories in Ferrous and Non-ferrous Industries (in association with Tata Steel Ltd.)				
2018	Key Success Factors for a Professional Starter	11/07/2018	06/09/2018	06/09/2018	25
2018	Invited Talk on Primary Aluminium Smelter	11/07/2018	01/10/2018	01/10/2018	20
2019	Invited talk on 'Refractory Concrete Solution" by Mr. Dharmesh Parekh of Radhaswami Industries	08/02/2019	06/03/2019	06/03/2019	31
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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
Self defense training specially for girls	16/07/2018	28/02/2019	21	5

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. The total percentage of solar power is about 09.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	3

Provision for lift	Yes	3
Scribes for examination	Yes	Nil
Ramp/Rails	Yes	3

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
2018	1	1	16/07/2018	48	Karate Training	Self Defense	26
2019	1	1	11/04/2019	03	Health Check up	Health Check up	50

[View File](#)

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Safe Drive Save Life	13/08/2018	A half day seminar was held in the auditorium jointly with Traffic Department of Kolkata Police. 74 students, staff(s) and faculty members participated.
Anti-Drug Capaign	13/08/2018	A half day seminar was held in the auditorium jointly with Narcotic Cell of Kolkata Police. 74 students, staff(s) and faculty members participated.
Participation at National Integration Camp	25/11/2018	Two Students participated in the National Integration Camp held in the State of Gujarat from 25.11.2018 to 01.12.2018.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Awareness creation on Dengue Fever among local residents of our college	23/07/2018	28/07/2018	35

[View File](#)

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

A. Sapling Plantation

B. Utilization of Solar Panel

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

Best Practice 1: Implementation of student mentoring process The Objective: • To cater to the various needs of students outside the scope of routine curricular activities • To act as facilitator for providing information on financial assistance, in the form of scholarships etc., available and the procedure to avail it, especially to students coming from financially weaker background. • To act as a liaison person between the subject teacher and a student, failing to make good performance in that subject, in order to improve the communication between the two for better understanding of the subject for the student • To provide psychological support in case a student, generally from rural background, faces difficulty in coping with the ways of urban life and tend to lose self-esteem. • To hold counselling session in presence of the principal with the parents/guardians of the students in case the above measures fail. The Practice: Being a government college, the cost of education is very modest here and this is one of the main reasons why the meritorious but financially weak students from districts, not so advanced as Kolkata, prefer to join this college located at the heart of the city. Therefore, the students' mentoring system has been designed to provide a better platform to such students to adjust with the fully urbanized ways of life with their limited means 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 new entrants have to go through an induction program which provide them a good scope of getting acquainted the general environment of the institution and form a bond with the faculty members of first year. All departments assign one faculty member per 14 students (for the year 2018-19) 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 special 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 wide variety of services to students coming from varying economic backgrounds.

Best Practice 2: Special Focus on development of skill and placement-based training in Engineering Education. The Objective: • To enhance the employability of the students pursuing studies for B.Tech degree. • To build up leadership quality so that a student can grow in his/her career. • To enhance the soft skill of the students with an aim of better performance before the interview-board of employers and among the peers of other institutions. • To develop command over a subject matter which a student is asked to deal with. • To provide exposure, for a certain period of time, to real environment under which various industries function and scope of performing certain tasks assigned to them

under that environment in order to make them ready to work under such environment without much preparation time. • To provide the scope of doing internship, sometimes in the form of extended training, so that the students can be readily absorbed as an employee just after the completion of graduation. The Practice: Students, especially those who studied in vernacular medium before the entry into the institution, in many cases, found to be weak in communication in english, both in verbal and written form and the lack of communication skill in english severely jeopardizes the prospect of employment in these days of cut-throat competition. With an aim to enhance the power of communication, a language laboratory has been set up and a course, designed to suit the requirements of such laboratory, to test and upgrade the skill of english communication, has been introduced as a compulsory part of the curriculum. A two-month training program in industry forms a major part of the curriculum and skill developed there is also evaluated and made a part of their score card. Under this program each student has to complete certain tasks during the training period under the supervision of the industry management and is required to submit a report at the end of the program. Course components like seminar and group discussion have also been introduced to enhance oratory skill, command over a subject matter, leadership quality and capacity to work in a group harmoniously. In recent years the students are being encouraged to undertake internship program in related industries, for further improving the job prospect, for which academic curriculum has been made flexible, especially in the 4th year of study, without compromising on the basic requirement of B.Tech degree.

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

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

Transparent evaluation system with dynamic course structure having components like industrial training programs as a compulsory element in order to produce happy graduates with updated skills and exposure to current state of industry: Being an autonomous institution, no permission from external academic hierarchy is needed by the institute to upgrade the curriculum or incorporate a new course to address the evolving and continuously changing technological requirement of industry. To take advantage of the above fact, a major initiative was taken up to thoroughly overhaul the academic regulation in the academic year 2018-19 in order to establish more transparency in examination system to reduce the grievances of the examinees about answer script evaluation by providing them the scope to check evaluated answer scripts in presence of the evaluator and remove the scope of disagreement to the extent possible, on the one hand, and create a provision for introduction of dynamic course structure in the form of changeable electives, not a fixed bucket (ordinarily papers remain fixed within a bucket over a period of time) of papers to be chosen from with a possibility of introducing a new paper and dropping another depending upon the availability of expertise, keeping in view the fast changing requirement of skills of the industry, on the other. Dynamic Electives are offered after careful analysis of the market requirement in the year under consideration. Given the fact that in today's world major interdisciplinary programs becoming the norm, the dynamic electives are also offered across the disciplines so that a student of one discipline can pick up important skills of other department. In order not to confine the students within the four walls of the institute in theory and practical sessions and to enhance employability, it has been made mandatory to undertake training program for a period of two

months in industry for each student and each one has to submit a training report which was evaluated in presence of faculty members having good exposure to industry and evaluated marks become a part of their scorecard. In some cases, the training gets extended to internship for which the curriculum is kept flexible especially in the 7th and 8th semester which enhances the prospect of the internee being absorbed in the concerned industry at the end of successful completion of degree requirement. Enhanced transparency in evaluation of answer script has substantially reduced the grievance redressal application from the students and continuous tuning of the industrial training program and associated evaluation process have been able to increase the job prospect of the graduates substantially. The idea of the above exercises is to create a congenial and friendly atmosphere for the students in terms of their evaluation method while providing them best possible opportunities through various trainings in industry to land a job.

Provide the weblink of the institution

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

8.Future Plans of Actions for Next Academic Year

FUTURE PLAN OF ACTION FOR THE NEXT ACADEMIC YEAR Student Mentoring system is in practice in the institute and this institutional practice of Mentoring System has been designed and implemented to be student-centric and renders wide variety of services to students coming from varying economic backgrounds. Services rendered which are worth mentioning are:

- Catering to the various needs of students outside the scope of routine curricular activities
- Acting as facilitator for providing information on financial assistance, in the form of scholarships etc., available and the procedure to avail it, especially to students coming from financially weaker background.
- Acting as a liaison person between the subject teacher and a student, failing to make good performance in that subject, in order to improve the communication between the two for better understanding of the subject for the student
- Providing psychological support in case a student, generally from rural background, faces difficulty in coping with the ways of urban life and tend to lose self-esteem.
- Holding counselling session in presence of the principal with the parents/guardians of the students in case the above measures fail.

The institute plans to constantly improve upon the above practices so that a strong bond of students and faculty that nucleates after joining in first year further gets strengthened in future bringing in a holistic improvement in the academic environment. New syllabus has been implemented from the academic session 2018-19 with new regulations and with examination reforms. The institute plans to make the academic programmes much more flexible in tune with the demand of the industries. It envisages to create more internship opportunities for the students in newer and newer organizations and with lot more flexibilities in the coming years. The practice of letting students join an industry as an intern after their 7th semester are over, undertaking projects in the industry and finally join as GET or MT after completing final semester examinations would further be explored with more numbers of organizations. The industry institute interaction is planned to be strengthened more by doing collaborative projects through MOUs.