



Yearly Status Report - 2016-2017

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		Dr. Krishnendu Chakrabarty
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		03323701264
Mobile no.		9831509654
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	Dr. Krishnendu Dutta
Phone no/Alternate Phone no.	03323632072
Mobile no.	9477501460
Registered Email	krish_dutt@yahoo.co.in
Alternate Email	gcctwb@gmail.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	http://gcct.ac.in/iqac/
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://gcct.ac.in/download/Miscellaneous/Academic-Calendar-2019-20.pdf

5. Accrediation Details					
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	10-Mar-2014
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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
Awareness programme	06-Dec-2016	34

regarding different savings scheme organized by SBI Beliaghata	1	
Meetings of Internal Quality Assurance Cell (IQAC)	12-Jun-2017 1	15
Familiarization with Health Scheme of Govt. of West Bengal	09-Feb-2017 1	37
Growth and opportunities in ceramics, refractories and information technology industry-the insiders' view	28-Jan-2017 1	82
National seminar on Recent Advancements in Ceramic and Allied Fields (in association with MAKAUT)	30-Mar-2017 1	30
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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 1825	5000000
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:	No
Upload latest notification of formation of IQAC	No Files Uploaded !!!
10. Number of IQAC meetings held during the year :	1
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	No

the funding agency to support its activities during the year?

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

1st convocation of the institute was organized including special convocation on the 26th August 2017 (Saturday). B. Tech and M. Tech degree recipients of 2017 received degree certificates in the convocation and B. Tech degree recipients of 2016 and M. Tech degree recipients of 2014, 2015 and 2016 in the special convocation held on the same occasion.

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.

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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	Achievements/Outcomes
To fix the plan for the prospective conduction of seminars and workshops for the academic year 201-	Seminar titled Recent Advancements in Ceramic and Allied Fields (in association with MAKAUT) and Growth and opportunities in ceramics, refractories and information technology industry-the insiders' view were organized during the current academic year
To adopt strategies for better placement of the students. Mock interviews. Several Group Discussion classes have been organized with a view to improving the communication skills and better preparedness of the students for facing interviews.	Students performance in Campus interviews was improved.
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Governing Body	28-Dec-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

Yes

AISHE:	
Year of Submission	2017
Date of Submission	17-Mar-2017
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
Nil	Nil	Nil	Nil
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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	27/07/2016	Energy Resources Furnaces, CT 302	27/07/2016
BTech	Information Technology	04/11/2015	Data structure Algorithms (Theory, lab) ,IT303, IT393	27/07/2016
BTech	Computer science & Engineering	18/01/2016	Data structure Algorithms (Theory lab) ,CS304,CS394	27/07/2016
BTech	Ceramic Technology	27/07/2016	Programming for Problem solving, OE 501	27/07/2016
BTech	Computer science & Engineering/Information Technology	18/01/2016	Programme Practices Lab using C ,CS592,IT590	27/07/2016
BTech	Computer science & Engin	18/01/2016	JAVA Programming Lab	27/07/2016

	Engineering/Information Technology		,CS-695,	
BTech	Information Technology	04/11/2015	Design Analysis of Algorithm (Theory lab),IT509	27/07/2016
BTech	Computer science & Engineering	18/01/2016	Design & Analysis of Algorithm (Theory +lab), CS-615,CS-394	27/07/2016
BTech	Ceramic Technology	27/07/2016	Refractories CT505	27/07/2016
BTech	Information Technology	04/11/2015	Computer Network (Theory lab) IT611,IT691	27/07/2016
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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	Information Technology	04/11/2015
BTech	Ceramic Technology	27/07/2016
BTech	Computer science & Engineering	18/01/2016

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	01/08/2016	33
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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	Ceramic Technology	32
BTech	Information Technology	37
BTech	Computer science & engineering	38
Mtech	Information Technology	16

Mtech	Ceramic technology	3
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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)

<p>Feedback Obtained</p> <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 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.</p>
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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	Nil	37
BTech	Computer Science and Engineering	40	Nil	38
BTech	Ceramic Technology	40	Nil	32
Mtech	Ceramic Technology	18	Nil	3
Mtech	Information Technology	18	Nil	16

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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
2016	455	46	14	Nil	17

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
28	28	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 18 students (for the year 2016-17) 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
501	28	1:18

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	28	24	1	15

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
2016	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	21/04/2017	25/05/2017
BTech	Information Technology	8th	21/04/2017	25/05/2017
BTech	Computer Science and Engineering	8th	21/04/2017	25/05/2017
Mtech	Information Technology	4th	21/04/2017	01/07/2017
Mtech	Ceramic Technology	4th	21/04/2017	17/07/2017

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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
80	501	15.97

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 examination	Number of students passed in final year examination	Pass Percentage
1-1464979832	BTech	Ceramic Technology	40	40	100
1-1464979835	BTech	Information Technology	37	36	97
1-1464979837	BTech	Computer Science and Engineering	42	42	100
1-1464979841	Mtech	Information Technology	17	16	94
1-1464979839	Mtech	Ceramic Technology	9	9	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://gcct.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	01/08/2014	UGC affiliated 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
Minor Projects	1095	UGC	365000	365000

Major Projects	1550	DST	6000450	0
Major Projects	1550	DST	6152450	0
Major Projects	1095	DST	5478750	3346000
Major Projects	1275	SERB	3006000	1750000
Major Projects	1095	Nil	2500000	Nil
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

6

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
One day seminar on Recent Advances in Computing and Communication Technology	Organized by IT department in association with MAKAUT	18/03/2017
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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
Nil	Nil

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	Basic Science, Engineering and Humanities	9	3.97
International	Computer Science	3	2.76

	Engineering		
International	Information Technology	2	2.14
International	Ceramic Technology	1	1.86
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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	1
Information Technology	6
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Nil0	Nil1	0	Nil1
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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
Network centrality based team formation: A case study on T-20 cricket	P. Dey et al.	Appl. Comput. Info.	2016	17	IT, GCECT	16
Gravastars with higher dimensional spacetimes	S. Ray et al.	Phys. Lett. B	2017	36	Physics Department, GCECT	27
All spherically symmetric charged an isotropic solutions for compact star	S. Ray et al.	Eur. Phys. J. C	2017	52	Physics Department, GCECT	51
Gravastars in $f(R,T)$	S. Ray et al.	Phys. Rev. D	2017	80	Physics Department, GCECT	55

gravity						
Relativistic model for anisotropic strange stars	S. Ray et al.	Ann. Phys.	2017	80	Physics Department, GCECT	56
A Generalized Model for Compact Stars	S. Ray et al.	Eur. Phys. J. C	2016	17	Physics Department, GCECT	14
A new model for spherically symmetric anisotropic compact star	S. Ray et al.	Eur. Phys. J. C	2016	106	Physics Department, GCECT	100
Relativistic electromagnetic mass models in spherically symmetric spacetime	S. Ray et al.	Astrophys. Space Sci.	2016	30	Physics Department, GCECT	24
Compact stars in $f(R,T)$ gravity	S. Ray et al.	Eur. Phys. J. C	2016	84	Physics Department, GCECT	64
A new model for spherically symmetric charged compact stars of embedding class 1	S. Ray et al.	Eur. Phys. J. C	2016	56	Physics Department, GCECT	45
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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
An Unsupervised Modified Spatial	M. Maitra et al.	ICACCI, LNMIIT	2016	9	7	IT, GCECT

Fuzzy C-mean Method for Segmentati on of Brain MR Image						
Microstr ucture and phase evolution of Indian magnesite? derived MgAl2O4 as a function of stoichi ometry and ZrO2 doping	K. Das et al.	Int. J. Appl. Ceram. Tech.	2017	5	Nil	CT, GCECT
Network centrality based team formation: A case study on T-20 cricket	P. Dey et al.	Appl. Comput. Info.	2016	6	7	IT, GCECT
Comparat ive Analysis of Proposed FCM Clustering Integrated Enhanced F irefly-Optimized Algorithm (En-FAOFCM) for MR Image Segm entation and Perfor mance Evaluation	P. Ghosh et al.	J. Image Process. Patt. Recog. Progr.	2016	2	1	CSE, GCECT
Dynamic Authentica tion Protocol Using Multiple signatures	S. Chowdhury et al.	Wireless Personal Commun.	2017	2	Nil	CSE, GCECT
All sphe	S. Ray	Eur.	2017	32	51	Physics

rically symmetric charged an isotropic solutions for compact star	et al.	Phys. J. C				Department , GCECT
Gravastars in f(R,T) gravity	S. Ray et al.	Phys. Rev. D	2017	32	55	Physics Department , GCECT
Relativistic model for anisotropic strange stars	S. Ray et al.	Ann. Phys.	2017	32	56	Physics Department , GCECT
A new model for spherically symmetric anisotropic compact star	S. Ray et al.	Eur. Phys. J. C	2016	32	100	Physics Department , GCECT
Compact stars in f(R,T) gravity	S. Ray et al.	Eur. Phys. J. C	2016	32	64	Physics Department , 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	1	1	1	Nil
Presented papers	2	1	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)
Ceramic Technology	Studies on the effect of fly ash addition on the properties of Porcelainised Ceramics	UGC	0
Ceramic Technology	High Strength Light Weight Building Blocks	DST	18728

	From Agricultural Waste		
Ceramic Technology	Development of Insulating Refractories and Abrasion Resistant Ceramics from Coal Ash	DST	9880
Ceramic Technology	Development of CO2 selective Ceramic Membrane for Separation of CO2 from Flue gas and Natural Gas	DST	23752
Ceramic Technology	Development of Pre/In-situ Formed CNT Reinforced MgAl2O4 Spinel Matrix Composites	SERB	4119
Information Technology	Embedding Segmentation of PET Images for Medical Applications in Brain Disorders	BRNS	0
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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
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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
Tree Plantation in the GCECT campus	NSS, GCECT	78	4
Eye Screening Camp	NSS, GCECT	74	4
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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
Research Project	Outstanding Paper (Oral Presentation)	DST, West Bengal	1
Research Project	Best Paper (Oral	DST, West Bengal	1

Presentation)

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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
Eye Camp	NSS, GCECT	Eye Screening Camp	4	74
Environmental awareness	NSS, GCECT	Tree Plantation in the GCECT campus	4	78

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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	Student	HR Johnson	Nil
Nano Research	Student	IIT (Banaras Hindu University)	Nil
Certificate Course in Refractory	Student	Industry GCECT	Nil
Collaborative Project	Teachers as Resource Persons	Alluminium Bahrain (ALBA)	Nil
Collaborative Research	Teachers	BRNS, DAE.	Nil
Industrial Training	Teachers	UGC Fellowship of research scholar.	Nil
Industrial Training	Student	CUMI	60
Industrial Training	Student	Ardent	30
Industrial Training	Student	Globsyn Business School	30

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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	GCECT and Industries	16/05/2016	26/06/2016	33

Institute-Industry collaboration	Industrial Training	GCECT and Industries	04/07/2016	06/08/2016	38
Institute-Industry collaboration	Industrial Training	GCECT and Industries	22/05/2016	15/07/2016	40
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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 !!!			
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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
227.22	227.22

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Campus Area	Existing
Class rooms	Existing
Classrooms with Wi-Fi OR LAN	Existing
Laboratories	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Seminar Halls	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
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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 partially)	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	11242	4359383	50	41258	11292	4400641

Books						
Reference Books	4013	1562230	10	8250	4023	1570480
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
View File						

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	250	152	252	5	70	3	20	100	0
Added	60	30	30	0	30	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
144.46	144.46	225.47	225.47

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 play-ground 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
Financial Support from institution	Freeship	89	975000
Financial Support from Other Sources			
a) National	Chief Minister merit cum means Fund, / Swami Vivekananda merit cum means	91	2747500

	fund/Muslim Education Trust, Delhi/Minority Development Trust, West Bengal/SC,ST, OBC/Others		
b) International	Iswamic 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
Personal Counselling	01/08/2016	107	In House/GCECT
Soft Skill Development	01/08/2016	107	In House/GCECT
Bridge Course	01/08/2016	107	In House/GCECT
Language Lab	01/08/2016	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
2017	GATE	39	39	20	8
2017	GRE	2	2	1	Nil
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
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)	40	32	MNCs, Start ups (Details Attached)	79	41

[View File](#)

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2017	5	B.Tech	Computer Science Engineering	IITs,C.U., NIT.GCECT	M.Tech
2017	1	B.Tech	Information Technology	Jadavpur University	M.Tech
2017	3	B.Tech.	Ceramic Technology	IITs	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	19
GRE	1
Any Other	8

[View File](#)

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

Activity	Level	Number of Participants
Carrom	College Level (Intra)	32
Cricket	College Level (Intra)	80
Football Boys	College Level (Intra)	72
Cultural Fest-Jagriti	College Level (Intra)	86

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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
2017	Nil	National	Nil	Nil	Nil	Nil
2017	Nil	Internat ional	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 organizing various co-curricular activities for 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. Also, they look after the welfare of the students as a whole and put forward grievances of the student community, if there be any, before the authority. 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 representatives 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

Yes, the college has a registered Alumni association. The Alumni Association of Govt. College of Engineering and Ceramic Technology is very active and functional. The alumni association is working continuously 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. Alumni Association also funds different programmes jointly organized with the institution for the benefit of students and faculty. Some alumni members are members of BOS of Ceramic Technology as well as Academic Council 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: <https://www.gcectalumnus.org> for communicating purpose, the association uses an email id: gcectalumnus@gmail.com. The College collects feedback from the alumni and suggestions from that end are being well considered for developing the curricula and other developmental activities of the College.

5.4.2 – No. of registered Alumni:

134

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

504863

5.4.4 – Meetings/activities organized by Alumni Association :

1. One General Body Meeting 2. Two Executive Committee Meeting 3. One National Symposium cum Alumni Meet. This is the 1st National Symposium on "Growth and Opportunities in Ceramics, Refractories and Information Technology Industries – an Insiders' view" on 28th January, 2017.

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	<p>1. Upgrading curriculum from the previous academic session with required modification of the syllabus, if necessary and continuing with upgrading of curriculum in each semester taking continuous feedback from employers, industries and stake holders. 2. Emphasizing on industry oriented 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.</p>
Teaching and Learning	<p>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. 3. Modernization of laboratories incorporating modern equipment 4. Teachers maintain their respective detailed lesson plans and share the</p>

	<p>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. Examination is conducted intermediately with two unit tests conducted at periodic intervals, followed by end semester examination. 2. Final evaluation of marks consists of considering both unit tests and the semester examination. 3. Apart from these two unit tests, students are also given assignments on selected topics. 4. After the answer scripts are evaluated by the concerned teachers, the students can apply for Post Publication Viewing (PPV), Post Publication Reviewing (PPR) and PPS (Post publication Scrutiny) if they find the marks unsatisfactory. 5. YGPA/DGPA model is followed for grading the results. 6. Minimum qualifying marks has been set as 40. 7. There is a regulation for Year Lag of a student if he/she is not able to pass any back log paper. The student is no allowed to be promoted to a higher class unless he/she cannot pass in all the back log papers.</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</p>

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 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.

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 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 in online portal for managing the administrative jobs in online mode.
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 online portal of the Government of West Bengal and that of bank.
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
2017	Nil	Nil	Nil	Nil
2016	Nil	Nil	Nil	Nil
View File				

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)
2016	Awareness programme regarding different savings scheme organized by SBI Beliaghata	Awareness programme regarding different savings scheme organized by SBI Beliaghata	06/12/2016	06/12/2016	22	12
2017	Familiarization with Health Scheme of Govt. of West Bengal	Familiarization with Health Scheme of Govt. of West Bengal	09/02/2017	09/02/2017	27	10

[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
Faculty Development Programme- Sponsored by Deptt. of Science Technology, Govt. of India	1	09/01/2017	20/01/2017	12
Short Term Course	1	23/06/2017	27/06/2017	5
UGC-Sponsored Special Winter School	1	02/02/2017	22/02/2017	21
Orientation Program (UGC-Academic staff college, Jadavpur University)	1	13/06/2016	11/07/2016	29
Refresher Course in Astronomy and	1	15/05/2017	16/06/2017	33

Astrophysics				
STTP on Data Structure Algorithm, conducted by NITTTR, Kolkata	1	04/07/2016	17/07/2016	14
Capacity Building Workshop on Big data, Economics and Finance, conducted by Presidency University, Kolkata	1	20/10/2016	26/10/2016	7
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
4	3	Nil	Nil

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>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	504863	Organizing technical seminars
View File		

6.4.3 – Total corpus fund generated

6903000

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, especially during the admission process, 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. Awareness programmes regarding service and financial rules of Government of WB 3. 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 in teaching-learning and evaluation process 3. Emphasizing more on taking students' feedback. 4. Teacher evaluation by students is practiced. 5. There is a provision of taking graduate feedback. 6 The college also performs a course end survey.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
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
2017	National Symposium organized by GCECT Alumnus on Growth and Opportunities in Ceramics, Refractories and Information Technology Industries - An Insiders view	Nil	28/01/2017	28/01/2017	82
2017	National seminar on Recent Advancements in Ceramic and Allied Fields (in association with MAKAUT)	Nil	30/03/2017	30/03/2017	30
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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
No Data Entered/Not Applicable !!!				

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	1
Ramp/Rails	Yes	1
Scribes for examination	Yes	Nil
Physical facilities	Yes	1

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

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Lecture on Human Values and Professional Ethics	16/06/2017	A program was held in the College Auditorium on Human Values and Professional Ethics. Principal Prof. Krishnendu Chakrabarty and Assistant Professor Dr. Krishnendu Datta delivered lectures on Human Values and Professional Ethics. 65 students, staff(s) and faculty members participated in the program.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!			
No file uploaded.			

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. Placing of Vats at strategic Points to keep the campus litter-free

D. Composting of Solid Organic Waste

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: Installation and commissioning of 7KWP Solar PV power plant at the rooftop of old building
The Objective: • To cut down on the cost of power and to promote alternative eco-friendly source of power supply. • To indirectly help reduce the consumption of coal in thermal power plants thereby reducing the burden on air pollution and the cost of disposal of fly ash. • To promote awareness among stakeholders about the benefits of solar energy thereby creating a consciousness for making a pledge to enhance the capacity of such units in future. The Practice: In May, 2017, Solar Panels of 7 KWP energy have been installed and commissioned on the roof top of the old building of our college by M/s RMB Power Projects Pvt. Ltd, under active guidance of CESC, the electric power supply agency to the college. The solar energy thus produced is being used for outdoor lighting of our campus. By an average estimate it has been found to be supplying about 9 of total electrical energy requirement of the college. In future we have a plan to cover other rooftops by setting up more solar power plants in order to enhance the quantum of green energy use.

Best Practice 2: Promoting research activities in relevant engineering disciplines and allied fields of basic science
The Objective: • To attain excellence by expanding the horizon of knowledge base of the institute • To encourage the faculty members to venture into the newer fields relevant to the requirement of respective engineering disciplines in order to keep those disciplines up to date. • To encourage the faculty members to bring projects on upcoming areas from various funding agencies. This benefits the institute both by improving the infrastructure and gaining on knowledge pool. • To encourage the faculty members to engage themselves in collaborative research and projects with other institutions of repute which benefits the institution immensely by increasing the scope of resource and knowledge sharing. • To bring the students into the loop of research activities by assigning them projects on problems currently being addressed by various industries and encourage them to attend the conferences or workshops, organized by professional organizations, to present papers on such activities. The Practice: • Ceramic Technology Dept 1.

Dr. Kaberi Das, Asst. Professor of Ceramic Technology Department secured a minor project for the period 2017-2019 from UGC of Rs. 4.86 lakh on development of low cost Bio-active glass and she along with two students got a paper published in Int. J. of Applied Ceramic Technology on zirconia doped Mag-Al in 2017. 2. Prof. Saikat Maitra who is on lien to serve as the Vice-chancellor of MAKAUT got many papers published in international/national journals on various topics like doping of nano particles to improve the properties of ceramic materials, application of sol-gel technique to make precursors of ceramic materials etc. • Comp. Sc. Engg. Dept 1. Sri Partha Ghosh presented a paper in International Conference(ICAET-2016) on FCM Algorithm application on Magnetic Resonance Images of Brain Tissues and got three papers published in international national journals on topics like Superpixel Segmentation, Comparative Analysis of FAOFCM Algorithm for MRI. 2. Sri Soumit Chowdhury got papers published in both national international journals on Dynamic Authentication Protocol Color Image Authentication in 2016-17. • Information Technology Dept 1. a) Prof. Mausumi Maitra had taken special initiative to engage research scholars and a project fellow of UGC major research to write two book chapters jointly on image processing, published by IGI Global. She also presented a paper in an international conference on segmentation of brain

MR image in association with the said scholars. b) A research project entitled "Embedding Segmentation of PET images for medical applications in brain disorders" of amount Rs.27.57 lakhs was completed by Dr. Mausumi Maitra, Dept. of Information Technology from BARC, DAE, in collaboration with RCCIIT, Kolkata and BRNS, Salt Lake. 2. a) Smt. Somdatta Chakravorty, Asst. Professor, in association Sri Devdatta Sinha got a paper published with the title "Development of higher-order model for nonlinear interactions in hyperspectral data of mangrove forests" in Current Science, Vol. 111, No. 6, 25 September 2016. b) Smt. Somdatta Chakravorty, Asst. Professor, also guided the following projects during 2016-17: (i) Project title: Development of algorithms for spectral unmixing and sub pixel classification of hyperspectral image data fund received from DST - Rs.35 lakhs during 2016-2020. (ii) Project title: Digital image processing of hyperspectral data for pattern recognition and change detection of saline banks and associated mangrove species: A case study of Sunderban biosphere reserve, WB. fund received from UGC Rs.12.08 lakhs during 2015-2018. 3. A paper titled " A study to find the most suitable set of prominent genes from microarray data for disease prediction of Shri Ritwik Mondal, was published in the proceedings of the 3rd international conference on Foundations and Frontier in Computer, Communication and Electrical Engineering, 2016(C2E2-2016), 15-16 Jan 2016. 4. Smt. Paramita Dey got her paper on application of network centrality for T-20 cricket team formation published in the journal of Applied Computing and Informatics, Vol.13, Issue 2, July 2017 5. Shri Ryan Saptarshi Ray, had his papers published with the following details: a) Implementation and Consistency issues in Distributed Shared Memory Debendranath Das, Ryan Saptarshi Ray, Utpal Kumar Ray International Journal of Computer Sciences and Engineering (IJCSE), 2016. b) Hybrid Parallel Programming Using Locks and STM Ryan Saptarshi Ray, Parama Bhaumik, Utpal Kumar Ray International Journal of Computer Sciences and Engineering (IJCSE), 2017. • Basic Science Dept Dr. Saibal Ray, Associate Professor of physics, expanded his domain of research by adding to his already very rich repository of publications of fourteen papers in various national international journals on compact stars, in the academic session 2016-17.

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

The institute was born in the year 1941 as a pioneer in the field of Ceramics, both as a production unit and a training cum education centre, and in the backdrop of partition of India, took up a noble cause of providing livelihood to many displaced persons from the then East Pakistan by training them in pottery production to find jobs in small units which mushroomed in the vicinity with active technical support from the institute. The old alumni from the institute, very naturally, bore a strong bond between them and the institute and imbibed the culture of sharing with fellow people and the underprivileged. The culture holds sway over the alumni without any break even after introduction of two new disciplines, as is evident from the overwhelming support the institute use to receive on each occasion whenever such need arises. Each year the alumni meet in assembly, at the institute and outside, to celebrate their great heritage through many events like technical seminars, employer-institute management-student meet etc. This forum greatly benefits the institute by creating more scope of fresh employment each year as many accomplished professionals from the alumni participate with the desire of actively supporting the cause of the institute, one of the most important

components being generation of employment for fresh graduates. The registered alumni association, on the lines of old tradition of philanthropy, regularly organize health camps to offer free services to the local community, especially the underprivileged, in addition to the stake holders of the institute, thus help inculcate a sense of fellow feeling among the current students. Along with many other activities aimed at social welfare, being conducted by the faculty members too, has created an environment here conducive for producing graduates with leadership qualities and a bent of mind for service to society, the country and the world in general. The uniqueness of such attributes of the graduates of the institute admittedly deserves a special mention.

Provide the weblink of the institution

8.Future Plans of Actions for Next Academic Year

The institute, with a view to cut down cost of power and promote alternative eco-friendly source of power supply, installed and commissioned 7KWP Solar PV plant at the rooftop. The set up would be maintained with utmost care and the ambit of such network would be further augmented in future. Enhancement of quantum of green energy and carry all the stake holders along, in that pledge, by creating awareness among them about the benefits of solar energy usage, which indirectly helps reduce the consumption of coal in thermal power plants thereby reducing the burden on air pollution and the cost of disposal of fly ash, would be one of the priority areas of the institution in the coming days. The institute would be concentrating more in research activities, which have established a strong foundation already in the minds of faculties in the coming years. Faculties extensively engaged in active research would be encouraged to apply for more funded projects and be given more incentives for more effective industry-institute collaborative research activities. They would further be encouraged to publish the result of their research in National and International Journals of repute in the relevant fields, besides presenting papers in Workshops and Conferences held periodically throughout the year.