



Yearly Status Report - 2017-2018

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 | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| Invited Talk on | 12-Dec-2017 | | 31 | | | | | | | | | | | | | | | | |

| | | |
|--|------------------|----|
| Monolithic Refractories | 1 | |
| Regular meetings of Internal Quality Assurance Cell (IQAC) | 14-Aug-2017 1 | 10 |
| Regular meetings of Internal Quality Assurance Cell (IQAC) | 03-Nov-2017 1 | 9 |
| Regular meetings of Internal Quality Assurance Cell (IQAC) | 20-Feb-2018 1 | 8 |
| Regular meetings of Internal Quality Assurance Cell (IQAC) | 28-May-2018 1 | 10 |
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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 2190 | 6000000 |
| 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 in modifying the existing curriculum of the institute in the light of AICTE's model curriculum published. It was felt necessary to restructure the curriculum of all programmes considering AICTE recommendation to limit total credit points to 160 instead of 180 for all programmes currently practised. A bundle of MOOC courses is to be prescribed for students of different semesters to accumulate 20 extra credit points for obtaining degree with Honours. Change of academic regulation incorporating modifications in examination and evaluation system has to be worked out in line with the above changes.

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

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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 organise remedial classes for slow learners | As per reports available from HODs, classes have been running in full swing and unit tests I were taken by faculties. The performances of students have been reviewed and few remedial classes for weak performers were arranged. |
| To enhance interaction between Industry and Institute | As a part of Industry Institute partnership activity, an invitation was received from Bahrain Aluminium Company (ALBA) to deliver 7 modules on Refractory Technology for a Certificate Course on Refractory Technology for the employees of the company. Prof Rituparno Sen and Ram Chandra Das have been visiting Bahrain Aluminium Company (ALBA) on being Invited for delivering Certified Refractory Technology Course for the employees of ALBA. IQAC recognizes such Industry-Academia initiative and the 5th Module of the ongoing course would be delivered by Prof. R. Sen at Bahrain during 3rd week of November' 2017. |
| To augment the placement opportunities of students | A central placement committee with students and faculty members from all departments along with advisor to Training & placement as the member of |

| | |
|--------------------------------|---|
| | the committee to plan and coordinate training and placement activities was formed and the committee was advised to assess the progress of training and placement activities on a regular basis. |
| To conduct induction programme | The programme was organized with the following components: motivational lecture by eminent personalities, familiarization with academic regulation by COE, lecture on training placement opportunity by advisor of Training and placement |
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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 AISHE: | Yes |
|---|------------|

| | |
|--------------------|------|
| Year of Submission | 2018 |
|--------------------|------|

| | |
|--------------------|-------------|
| Date of Submission | 19-Mar-2018 |
|--------------------|-------------|

| | |
|--|------------|
| 17. Does the Institution have Management Information System ? | Yes |
|--|------------|

| | |
|---|--|
| If yes, give a brief descripton 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 |
| No file uploaded. | | | |

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 | 03/07/2017 | Energy Resources Furnaces, CT 302 | 03/07/2017 |
| BTech | Information Technology | 31/01/2017 | Data structure Algorithms (Theory, lab) ,IT303, IT393 | 03/07/2017 |
| BTech | Computer science Engineering | 20/12/2016 | Data structure Algorithms (Theory lab) ,CS304,CS394 | 03/07/2017 |
| BTech | Ceramic Technology | 03/07/2017 | Programming for Problem solving, OE 501 | 03/07/2017 |
| BTech | Computer science & Engineering/Information Technology | 20/12/2016 | Programme Practices Lab using C ,CS592,IT590 | 03/07/2017 |
| BTech | Computer science & Engineering/Information Technology | 20/12/2016 | JAVA Programming Lab ,CS-695 | 03/07/2017 |
| BTech | Information Technology | 31/01/2017 | Design Analysis of Algorithm (Theory lab) ,IT509 | 03/07/2017 |
| BTech | Computer science & Engineering | 20/12/2016 | Design & Analysis of Algorithm (Theory +lab), CS-615,CS-394 | 03/07/2017 |
| BTech | Ceramic Technology | 03/07/2017 | Refractories CT505 | 03/07/2017 |
| BTech | Information Technology | 31/01/2017 | Computer Network (Theory/ lab) IT611,IT691 | 03/07/2017 |

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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 | 03/07/2017 |
| BTech | Information Technology | 31/01/2017 |
| BTech | Computer science & Engineering | 20/12/2016 |

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 proram | 07/08/2017 | 33 |
| MOOC | 02/01/2018 | 2 |
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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 | 28 |
| BTech | Information Technology | 34 |
| BTech | Computer science & Engineering | 38 |
| Mtech | Information Technology | 11 |
| 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)

| Feedback Obtained |
|---|
| The College collects feedback in regular interval from different stakeholders like students, teachers, alumni, noted academicians, parents and employers for designing the course curriculum and projects in both UG and PG programmes. From the students, college collects two types of feedbacks. One is taken after completion of each course at the end of semester and the other, after completion of course. Regular students are asked to submit feedback regarding the adaptability of the courses and pedagogy. Apart from that, college has a proven system in form of "Course End Survey" from the outgoing batch of every |

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

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

| Name of the Programme | Programme Specialization | Number of seats available | Number of Application received | Students Enrolled |
|-----------------------|----------------------------------|---------------------------|--------------------------------|-------------------|
| BTech | Ceramic Technology | 40 | Nill | 28 |
| BTech | Information Technology | 40 | Nill | 34 |
| BTech | Computer Science and Engineering | 40 | Nill | 38 |
| Mtech | Ceramic Technology | 18 | Nill | 3 |
| Mtech | Information Technology | 18 | Nill | 11 |

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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 |
|------|---|---|---|---|--|
| 2017 | 486 | 30 | 14 | Nil | 16 |

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 |
|----------------------------|---|-----------------------------------|----------------------------------|----------------------------|---------------------------------|
| 30 | 30 | 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 17 students (for the year 2017-18) 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 |
|--|-----------------------------|-----------------------|
| 518 | 30 | 1:17 |

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 | 30 | 22 | 2 | 16 |

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 |
|---------------|---|-------------|--|
|---------------|---|-------------|--|

| | | | |
|---------------------------|----------------|---------------------|--|
| 2017 | Dr. Saibal Ray | Associate Professor | Visiting Associateship of UGC at IUCAA, PUNE |
| View File | | | |

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 |
|---------------------------|----------------------------------|----------------|--|---|
| Mtech | Information Technology | 4th | 23/04/2018 | 08/06/2018 |
| BTech | Ceramic Technology | 8th | 23/04/2018 | 11/05/2018 |
| BTech | Information Technology | 8th | 23/04/2018 | 11/05/2018 |
| BTech | Computer Science and Engineering | 8th | 23/04/2018 | 11/05/2018 |
| View File | | | | |

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 |
|---|--|------------|
| 54 | 518 | 10.42 |

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://gcect.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 |
|----------------|----------------|----------------------------------|---|---|-----------------|
| 1-1464979835 | BTech | Information Technology | 42 | 40 | 95% |
| 1-1464979837 | BTech | Computer Science and Engineering | 39 | 39 | 100% |
| 1-1464979841 | Mtech | Information Technology | 13 | 13 | 100% |
| 1-1464979832 | BTech | Ceramic Technology | 36 | 35 | 97% |

[View File](#)

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://gcect.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

No file uploaded.

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 |

[View File](#)

3.2 – Resource Mobilization for Research

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

| Nature of the Project | Duration | Name of the funding agency | Total grant sanctioned | Amount received during the year |
|-----------------------|----------|----------------------------|------------------------|---------------------------------|
| Major Projects | 1275 | SERB | 3006000 | 0 |
| Major Projects | 1095 | DST | 5478750 | 0 |
| Major Projects | 1550 | DST | 6152450 | 0 |
| Major Projects | 1550 | DST | 6000450 | 0 |
| Major Projects | 1095 | UGC | 365000 | 0 |
| Minor Projects | 730 | DST-WB | 548000 | 548000 |
| Major Projects | 1095 | BRNS | 2500000 | 757025 |
| Any Other (Specify) | 1095 | Nil | 900000 | 300000 |

[View File](#)

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

8

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 |
|---------------------------------------|--|------------|
| 7-day Workshop on Data Science with R | Organized by IT department in association with MAKAUT and Islamic University of Science and Technology, JK | 23/03/2018 |
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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 |
| No file uploaded. | | | | |

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 |
| No file uploaded. | | | | | |

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

| Name of the Department | Number of PhD's Awarded |
|---|-------------------------|
| Basic Science, Engineering and Humanities | 2 |

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

| Type | Department | Number of Publication | Average Impact Factor (if any) |
|---------------------------|---|-----------------------|--------------------------------|
| International | Information Technology | 4 | 4.14 |
| International | Ceramic Technology | 1 | 0 |
| International | Basic Science, Engineering and Humanities | 7 | 3.60 |
| View File | | | |

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 |
|---|-----------------------|
| Information Technology | 7 |
| Computer Science and Engineering | 1 |
| Basic Science, Engineering and Humanities | 3 |
| View File | |

3.4.4 – Patents published/awarded during the year

| Patent Details | Patent status | Patent Number | Date of Award |
|----------------|---------------|---------------|---------------|
|----------------|---------------|---------------|---------------|

| | | | |
|-------------------|-----|-----|-----|
| Nil | Nil | Nil | Nil |
| No file uploaded. | | | |

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

| Title of the 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 |
|--|--------------------------|---------------------------------|---------------------|----------------|---|---|
| Mg _{0.5} Zn _{0.5} Fe ₂ O ₄ Polyurethane thin nanocomposite coating as broadband microwave absorber | T.K. Bhattacharya et al. | SN Appl. Sci. | 2018 | 6 | CT, GCECT | 5 |
| Brain Tumor Segmentation on MR Image using K-means and Fuzzy-Possibilistic Clustering | M. Maitra et al. | IEMENTech 2018, IEEE | 2017 | 21 | IT, GCECT | 16 |
| Early Started Hybrid Denoising Technique for Medical Images | M. Maitra et al. | AISC, vol 727. Springer | 2018 | 11 | IT, GCECT | 9 |
| Social Network Analysis of Cricket Community Using a Composite Distributed Framework: From Implementation Viewpoint | P. Dey et al. | IEEE Transac. Comput. Soc. Sys. | 2018 | 16 | IT, GCECT | 16 |
| Compact star in pseudo-spheroidal space-time | S. Ray et al. | Astrophys. Space Sci. | 2017 | 7 | BSEH, GCECT | 4 |

| | | | | | | |
|--|---------------|---------------------------|------|----|-------------|----|
| Relativistic model for anisotropic strange stars | S. Ray et al. | Ann. Phys. | 2017 | 80 | BSEH, GCECT | 24 |
| Anisotropic strange stars under simplest minimal matter-geometry coupling in the $f(R, T)$ gravity | S. Ray et al. | Phys. Rev. D | 2017 | 56 | BSEH, GCECT | 13 |
| Anisotropic strange star with Tolman V potential | S. Ray et al. | Int. J. Mod. Phys. D | 2018 | 6 | BSEH, GCECT | 2 |
| Anisotropic strange stars in the Einstein-Maxwell spacetime | S. Ray et al. | Eur. Phys. J. C | 2018 | 41 | BSEH, GCECT | 5 |
| Exploring physical features of anisotropic strange stars beyond standard maximum mass limit in $f(R, T)$ gravity | S. Ray et al. | Mon. Not. R. Astron. Soc. | 2018 | 56 | BSEH, GCECT | 13 |
| View File | | | | | | |

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 |
|--------------------|----------------|------------------|---------------------|---------|---|---|
| Exploring | S. Ray et al. | Mon. Not. R. | 2018 | 32 | 33 | BSEH, GCECT |

| | | | | | | | |
|---|---------------|---------------------------------|------|----|----|-------------|--|
| physical features of anisotropic strange stars beyond standard maximum mass limit in $f(R,T)$ gravity | | Astron. Soc. | | | | | |
| Anisotropic strange stars in the Einstein-Maxwell spacetime | S. Ray et al. | Eur. Phys. J. C | 2018 | 32 | 36 | BSEH, GCECT | |
| Anisotropic strange stars under simplest minimal matter-geometry coupling in the $f(R, T)$ gravity | S. Ray et al. | Phys. Rev. D | 2017 | 32 | 33 | BSEH, GCECT | |
| Relativistic model for anisotropic strange stars | S. Ray et al. | Ann. Phys. | 2017 | 32 | 56 | BSEH, GCECT | |
| Compact star in pseudo-spheroidal spacetime | S. Ray et al. | Astrophys. Space Sci. | 2017 | 32 | 3 | BSEH, GCECT | |
| Social Network Analysis of Cricket Community Using a Composite Distributed Framework: From Implementation | P. Dey et al. | IEEE Transac. Comput. Soc. Sys. | 2018 | 6 | 6 | IT, GCECT | |

| | | | | | | |
|--|--------------------------|----------------------|------|---|-----|-----------|
| Viewpoint | | | | | | |
| Social Network Analysis of Cricket Community Using a Composite Distributed Framework: From Implementation Viewpoint | M. Maitra et al. | AISC | 2018 | 8 | 4 | IT, GCECT |
| Early Started Hybrid Denoising Technique for Medical Images | M. Maitra et al. | IEMENTech 2018, IEEE | 2017 | 8 | 16 | IT, GCECT |
| Mg _{0.5} Zn _{0.5} Fe ₂ O ₄ Polyurethane thin nanocomposite coating as broadband microwave absorber | T.K. Bhattacharya et al. | SN Appl. Sci. | 2018 | 6 | 5 | CT, GCECT |
| Effect of strontium oxide (SrO) on the microstructure and bioactivity of melt derived bioactive silicate glass | K. Das et al. | J. Ind. Chem. Soc. | 2018 | 5 | Nil | CT, GCECT |

[View File](#)

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

| Number of Faculty | International | National | State | Local |
|-----------------------------|---------------|----------|-------|-------|
| Attended/Seminars/Workshops | 2 | 2 | Nil | Nil |
| Presented papers | 4 | 1 | Nil | Nil |

[View File](#)

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

| Name of the Consultan(s) department | Name of consultancy project | Consulting/Sponsoring Agency | Revenue generated (amount in rupees) |
|-------------------------------------|---|------------------------------|--------------------------------------|
| Ceramic Technology | Development of Insulating Refractories and Abrasion Resistant Ceramics from Coal Ash | DST | 9880 |
| Ceramic Technology | High Strength Light Weight Building Blocks From Agricultural Waste | DST | 18728 |
| Ceramic Technology | Development of CO2 selective Ceramic Membrane for Separation of CO2 from Flue gas and Natural Gas | DST | 33533 |
| Ceramic Technology | Development of Pre/In-situ Formed CNT Reinforced MgAl2O4 Spinel Matrix Composites | SERB | 24717 |

[View File](#)

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 |

[View File](#)

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 |
|-------------------------|--|--|--|
| Nil | Nil | Nil | Nil |

No file uploaded.

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 |
|--------------------|---|-------------------------|--|--|
| Extension activity | NSS unit of GCECT | Briksha-Ropan program | 2 | 30 |
| Eye Camp | NSS unit of GCECT | Eye Screening Camp | 2 | 48 |
| Extension activity | NSS unit of GCECT | Campus cleaning program | 2 | 26 |

[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 |

[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 | Details shown in the Uploaded file | 21/05/2018 | 14/07/2018 | 35 |
| Institute-Industry collaboration | Industrial Training | Details shown in the Uploaded file | 01/05/2017 | 01/06/2017 | 43 |
| Institute-Industry collaboration | Industrial Training | Details shown in the Uploaded file | 01/05/2017 | 01/06/2017 | 12 |

[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 |
|-------------------|--------------------|--------------------|---|
| Nil | Nil | Nil | Nil |
| 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 |
|--|--|
| 259 | 259 |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities | Existing or Newly Added |
|--|-------------------------|
| Campus Area | Existing |
| Class rooms | Existing |
| Laboratories | Existing |
| Seminar Halls | Existing |
| Seminar halls with ICT facilities | Existing |
| Value of the equipment purchased during the year (rs. in lakhs) | Newly Added |
| Others | Newly Added |
| Number of important equipments purchased (Greater than 1-0 lakh) during the current year | Newly Added |
| Classrooms with Wi-Fi OR LAN | 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 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 Books | 11292 | 4400641 | Nil | Nil | 11292 | 4400641 |
| Reference Books | 4023 | 1570480 | Nil | Nil | 4023 | 1570480 |

| | | | | | | |
|---------------------------|------|--------|---------|------|---------|--------|
| e-Books | Nil | Nil | 3135809 | 5900 | 3135809 | 5900 |
| e-Journals | Nil | Nil | 6237 | 5900 | 6237 | 5900 |
| Digital Database | 1 | Nil | Nil | Nil | 1 | Nil |
| CD & Video | 8224 | Nil | Nil | Nil | 8224 | Nil |
| Weeding (hard & soft) | 495 | 198000 | Nil | Nil | 495 | 198000 |
| Library Automation | 1 | 270000 | Nil | Nil | 1 | 270000 |
| 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 | 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)

| |
|---|
| No Data Entered/Not Applicable !!! |
|---|

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 |
|--|--|--|--|
| 109.74 | 109.74 | 265.39 | 265.39 |

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

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 | 69 | 780000 |
| Financial Support from Other Sources | | | |
| a) National | Swami Vivekananda Merit cum Means/SC, ST,OBC/Muslim Education Trust, Delhi/Minority Development | 29 | 1102000 |

| | | | |
|---------------------------|--|---|-------|
| | Trust, West Bengal | | |
| b) International | Islamic Development Bank, SAUDI Arabia | 1 | 65000 |
| View File | | | |

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

| Name of the capability enhancement scheme | Date of implementation | Number of students enrolled | Agencies involved |
|---|------------------------|-----------------------------|-------------------|
| Language Lab | 01/08/2017 | 100 | In House/GCECT |
| Soft Skill Development | 01/08/2017 | 100 | In House/GCECT |
| Bridge Course | 01/08/2017 | 100 | In House/GCECT |
| Personal Counselling | 01/08/2017 | 100 | GCECT Faculties |
| View File | | | |

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 |
|---------------------------|--------------------|--|--|--|---------------------------|
| 2018 | GATE | 18 | 18 | 11 | 11 |
| 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) | 36 | 30 | MNCs, Start-Ups. (Details Attached) | 81 | 29 |
| View File | | | | | |

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

| Year | Number of students enrolling into | Programme graduated from | Department graduated from | Name of institution joined | Name of programme admitted to |
|------|-----------------------------------|--------------------------|---------------------------|----------------------------|-------------------------------|
|------|-----------------------------------|--------------------------|---------------------------|----------------------------|-------------------------------|

| | | | | | |
|---------------------------|------------------|--------|--------------------------------|--------------------------|-------------|
| | higher education | | | | |
| 2018 | 4 | B.Tech | Ceramic Technology | IIT, IIM | M.Tech, MBA |
| 2018 | 9 | B.Tech | Computer Science & Engineering | IITs, NITs, ISI, JU, IIM | M.Tech, MBA |
| 2018 | 1 | B.Tech | Information Technology | NIT Trichi | MBA |
| 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 | 11 |
| CAT | 3 |
| GRE | 1 |
| Any Other | 2 |
| 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-Jagruti | College Level (Intra) | 64 |
| Foot Ball | College Level (Intra) | 96 |
| Cricket | 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 |
| 2018 | 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 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 Jagruti, 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.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 developmental activities of the College.

5.4.2 – No. of registered Alumni:

222

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

704870

5.4.4 – Meetings/activities organized by Alumni Association :

1. One Annual General Body Meeting 2. Seven Executive Body Meetings 3. One seminar on "Recent Developments in Information and Communication Technology" at college campus on 12th September, 2017 4. One National Symposium Cum Alumni Meet on "Expert's views on Opportunities and Strategies in Refractories - Ceramics - IT industries" on 27th January, 2018 (Saturday).

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 |
|--------------------------------------|---|
| Admission of Students | <ol style="list-style-type: none"> 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. |
| Industry Interaction / Collaboration | <ol style="list-style-type: none"> 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. |
| Human Resource Management | <ol style="list-style-type: none"> 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. |
| Library, ICT and Physical Infrastructure / Instrumentation | <ol style="list-style-type: none"> 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 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. |
| Research and Development | <ol style="list-style-type: none"> 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. |
| Examination and Evaluation | <ol style="list-style-type: none"> 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.

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. 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.

Curriculum Development

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.

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 |
| 2018 | 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 | Title of the administrative training programme organised for | From date | To Date | Number of participants (Teaching staff) | Number of participants (non-teaching staff) |
|------|---|--|-----------|---------|---|---|
|------|---|--|-----------|---------|---|---|

| | teaching staff | non-teaching staff | | | | |
|---------------------------|--|--|------------|------------|----|----|
| 2017 | Awareness programme regarding different savings scheme organized by SBI Beliaghata | Awareness programme regarding different savings scheme organized by SBI Beliaghata | 05/12/2017 | 05/12/2017 | 24 | 11 |
| 2018 | Familiarization with Health Scheme of Govt. of West Bengal | Familiarization with Health Scheme of Govt. of West Bengal | 07/02/2018 | 07/02/2018 | 25 | 9 |
| 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 |
|---|---------------------------------|------------|------------|----------|
| Data science with R (one week long workshop) | 4 | 23/03/2018 | 29/03/2018 | 7 |
| FDP on Digital Skill Readiness Programme, conducted by Wipro Ltd , Electronic City, Bangalore | 1 | 07/05/2018 | 18/05/2018 | 12 |
| View File | | | | |

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

| Teaching | | Non-teaching | |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent | Full Time |
| 8 | 4 | Nil | Nil |

6.3.5 – Welfare schemes for

| Teaching | Non-teaching | Students |
|---|---|--|
| Same as State Government schemes including general provident fund, gratuity on superannuation and | Same as State Government schemes including general provident fund, gratuity on superannuation and | Students' Welfare Association, Different Scholarships, Financial help to Students' Welfare Association for |

| | | |
|---|--|--|
| <p>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>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>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 | 704870 | Organizing technical seminars |
| View File | | |

6.4.3 – Total corpus fund generated

| |
|---------|
| 6210000 |
|---------|

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 | Yes | Departmental |

| | | | | |
|----------------|-----|---------------------------------------|-----|-------------------------|
| | | Audit Committee | | 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 | Invited Talk on Monolithic Refractories | 03/11/2017 | 12/12/2017 | 12/12/2017 | 31 |
| View File | | | | | |

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 | Period from | Period To | Number of Participants |
|--------------|-------------|-----------|------------------------|
|--------------|-------------|-----------|------------------------|

| | | | | |
|---|------------|------------|--------|------|
| programme | | | Female | Male |
| Self defense training specially for girls | 01/02/2018 | 31/05/2018 | 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 |
|-------------------------|--------|-------------------------|
| Provision for lift | Yes | 2 |
| Ramp/Rails | Yes | 2 |
| Scribes for examination | Yes | Nil |
| Physical facilities | Yes | 2 |

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 |
|---------------------------|--|--|------------|----------|--------------------|--------------------|--|
| 2017 | 1 | 1 | 15/09/2017 | 1 | Eye Camp | Eye Screening Camp | 48 |
| 2018 | 1 | 1 | 01/02/2018 | 17 | Karate Training | Self Defence | 26 |
| View File | | | | | | | |

7.1.5 – Human Values and Professional Ethics

| Title | Date of publication | Follow up(max 100 words) |
|---|---------------------|---|
| A program titled Role of students in providing Social Service as a part of student orientation, organized by NSS Regional Directorate | 30/08/2017 | Orientation Program of NSS was conducted in association with Regional Directorate of NSS. Regional Director and Youth Officer of NSS encouraged the NSS Volunteers by delivering lectures and 92 volunteers participated. |

7.1.6 – Activities conducted for promotion of universal Values and Ethics

| Activity | Duration From | Duration To | Number of participants |
|---------------|---------------|-------------|------------------------|
| Swachh Bharat | 01/06/2018 | 30/06/2018 | 10 |

Summer Internship
Program

[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 Power

C. Composting of Solid Organic Waste

D. Placing of VATs at Strategic Points to keep the campus litter-free

E. Ensuring reduction of wastage of water by putting warning sticker near every water tap

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1: Refurbishment and thorough facelifting of the old museum maintained at first floor open lounge
The Objective: • To exhibit products, to the visitors, manufactured at various industries linked to the engineering disciplines being run by the college with special emphasis on the oldest discipline, i.e., Ceramic Technology. • To enhance first hand awareness and arouse curiosity among the fresh students about the products the industries manufacture in which they might explore the scope of their employment. • To encourage alumni, closely linked to the college and playing important role in creating job prospect for the outgoing students, to display the products, manufactured by the industries in which they are attached, thereby creating a scope of continuously enriching the repository of the museum with new additions. • To create interest and awareness among the prospective parents and guardians who visit the institute to explore the possibility of admission for their children/dependents in search of a good career for them.
The Practice: Old good Samaritans, happened to be mostly illustrious alumni, used to donate many valuable products of ceramic industry in the past as a symbol of their indebtedness and love to their alma matter. It was a very closely knit community and the combined good wishes from them all through the then principal had been able to give birth to the museum at the same place where it is being presently maintained. The good culture of donating representative samples from industry including invaluable books by the alumni is still surviving and expanding with the broadening base of the notable alumni. However, with introduction of two new disciplines at the start of this millennium, the focus was shifted to different areas and the maintenance of the museum failed to draw the due attention. New products from industry, however valuable and attractive those may be, coming as free samples, started to be getting dumped here and there. In the year 2017-18, a budgetary provision was made to give the museum a proper facelift with up-to-date aesthetic look and allocation of more space so that it doesn't escape the attention of visitors including the employers to fulfill the objectives listed above.

Best Practice 2: Encouraging students to take part in extended activities to reach out to various sections of the society that include service to village community and primary school therein
The Objective: • To expose the students to various sources of scientific and technological knowledge lying outside the domain of curricular activities • To encourage the students to participate in competitions outside the curricular activities to prove their application of mind in their approach towards solution of industrial problems. • To encourage the students to provide service to the underprivileged community by engaging them in real activities with few weeks duration which help improve the environmental awareness of village people and small children of primary school in the same locality. • To create among the students a sense of social responsibility by engaging them in activities

like organizing health camps and persuading the local community around the institute to participate in such camps. The Practice: A) Under the guidance of the Nodal Officer, Sri Bimal Pal, Asst. Professor of CSE, ten (10) students participated in SWACCH BHARAT summer internship program, conducted jointly by Ministry of Youth Affairs Sports in collaboration with Ministry of Drinking Sanitation and Ministry of Human Resource Development, held during June-July, 2018, in which they took part in various environmental awareness activities in a north 24-parganas village in different capacities as listed below i) In THAKDARI village the students spent a few days to clean a park thoroughly by removing all littered plastic materials and weeds. ii) The students carried out a door-to-door campaign under the active patronage of MAHISHBATHAN GRAM PANCHAYAT (No.2) in MAHISHGOT village about health and economic benefits of keeping the house clean by taking small measures. iii) The students demonstrated the benefits of environmental awareness with the help of Youtube videos in front of primary students, teachers and staff, numbering about 100, in MAHISGOT PRATHAMIC VIDYALAYA. The effect was so overwhelming that when chocolates were being distributed at the end, a girl child spontaneously picked up a plastic vat form outside and put it before the other children for throwing the plastic wrapper of the chocolate into the vat. [Each participant received certificate of appreciation issued jointly by Ministry of Youth Affairs Sports, Ministry of Drinking Sanitation and Department of Higher Education, Ministry of Human Resource Development] B) Twenty-nine students of first year visited Science Engineering Fair (Eastern India) at Birla Industrial Technological Museum on 10th January, 2018, under the guidance of Sri Bimal Pal, Asst. Professor of CSE. C) The model apparatus displayed by two third year students for measurement of air pollution at Science Engineering Fair (Eastern India) was adjudged the best applied project for that year (competition held between 9-13 January, 2018. D) A free eye screening camp was held on 15th September, 2017, in the campus in collaboration with Susrut Eye Foundation and Research Centre, a renowned eye care institute, in which students took the initiative to mobilize the local people in good numbers, in addition to the beneficiaries of the college to get the free check-up.

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

Research, Publication of online Journal alongside regular course-curriculum development The research-and-development is one of the key thrust-areas of the institute beside producing well trained graduates and post-graduates through well-structured course-curriculum, regularly being upgraded in tune with the changing needs of the industry. The faculties across three engineering and allied basic science disciplines are engaged in myriad research activities, many times in collaboration with other reputed academic and research institutes, which is evident from the number and quality of publication in national and international journals of high impact factors. In pursuing research, given the limited financial and other resources the institute can provide, the faculty members successfully use to defend their research projects before the funding agencies like UGC, DST, Board of Research in Nuclear Science under Department of Atomic energy etc. to fetch substantial financial assistance, apart from other resources, the record of which is readily available in the financial data of the institute. Such a sound background in research activities prompted the administration to contemplate about having an online research journal of its own with regular periodicity. Now the institute

owns a full-fledged online journal, SCIENTIFIC VOYAGE, of quarterly periodicity, having an ISBN tag with an editorial board studded with internationally acclaimed scientists. Moreover, even in the last two years of pandemic the publication of the journal did not suffer any break in regular periodicity and came up with one or two entries from international authors in each issue. Creation of an environment, in which the young faculty members finds research work very rewarding, got such a push due to the activities mentioned above, that a forum of interested faculty members has been constituted before which one faculty member presents progress in his/her research work/area in the form of a seminar and question answer session in each month. Focus of the above activities is to create a distinctively identifiable environment of research work in which academically minded students and the young faculties get drawn into very easily without much effort with possibility of being rewarded at the right point of time.

Provide the weblink of the institution

8.Future Plans of Actions for Next Academic Year

The institute, very recently, has taken extra care for proper upkeep of the museum and made budgetary provision for its facelifting in order to draw the attention of visitors/alumni/industrialists/Interviewers/Recruiters and allocated more space to house all important exhibits. It was decided that extensive efforts would be made by faculty members having close liaison with industry houses and small-scale industries, to collect varieties of products relevant to the disciplines to enrich the museum further. It would be upgraded by providing more elegant casings made of teak wood frames complete with durable transparent glass panes and modern illumination system fitted with LED bulbs for enabling all visitors to have a good view of the items at any point of time of the whole day. The source and item description would also be exhibited following scientific guidelines for common understanding of the viewers. The Institute is planning to put stress upon collection of more specialized products and rare items for enriching the museum repository. It would also appreciate donation of books and journals from personal collection of alumni of the college, as practiced earlier, with due recognition. ? Various programmes, outside the scope of curricular work, have already been organized by the NSS unit of the institution in order to promote all- round personality building among the students to make them socially responsible good human being. More efforts will be made in enhancing students' participation in various extra-curricular activities, science exhibitions and social activities by creating incentives that will attract them.