



# **GOVERNMENT COLLEGE OF ENGINEERING AND CERAMIC TECHNOLOGY**

*Established 1941*

Accredited by NAAC with Grade A

(2015)

*73, Abinash Chandra Banerjee Lane*

*Kolkata-700010*

*West Bengal, India*

*E-mail: [gcctwb@gmail.com](mailto:gcctwb@gmail.com)*

*Document for*

*Academic Audit Reports*

*of*

*Government College of Engineering  
and Ceramic Technology*

*for the sessions*

*2017-18 to 2021-22*

**Academic Audit Report**  
**For**  
**Academic Year 2021-2022**

**Background:**

The academic audit committee of GCECT has been constituted in October, 2012 to consider and review the institute's mechanism for monitoring and enhancing quality and standard necessary for achieving their stated aims and objectives. Since its formation, the committee has administered academic audit for each academic year.

**Process of audit**

Process of audit requires a self-review in which the institute evaluates its progress towards achieving its objectives and identifies areas for improvement. The committee holds meeting at the beginning and at the end of each academic year to discuss details of intended plans and strategies towards achieving its mission and vision and assess the measure practiced during the academic session.

The audit panel comprises of head of departments, selected members of faculty and external members.

The panel visits the department to check and verify the academic practices laid down by the committee for evaluation and drafts an audit report.

The report commends good practices and make recommendations intended to assist the institute for continuous improvement of quality. The audit report is put up to the IQAC for monitoring and follow up activities.

**Areas of academic audits:**

1. Infrastructural development
2. Teaching –learning
3. Curriculum reforms
4. Evaluation process
5. Students' performance
6. Research activities

## 1) Infrastructural Development

- Up-gradation and procurement of new furniture in the library was done.
  - Annual subscription for KOHA for library management software and K.hub (e-resource).
  - Refilling of portable fire extinguisher was done.
  - Text and reference books were purchased in the library.
  - Total amount of Rs. 3,16,361/- was spent for infrastructural up-gradation of library.
  - Renovation work of college auditorium, ladies' common room was done.
  - Repairing of projectors and computers of class rooms were done.
  - The metal road leading to the main building, surrounding the whole campus from the entrance was renovated. Widening of existing road along the compound was completed.
  - The site for construction of girls' hostel has been earmarked and surveyed. The building plan for the hostel has already been approved. The process of estimation is going on for sanctioning of fund from appropriate authority for next financial year 2023-24.
  - This institute had spent total amount of Rs. 18,48,361/- for infrastructural up-gradation during the financial year 2021-2022.
- Commendations: The panel appreciated the infrastructural development in the Institute in spite of Covid-19 pandemic situation.
- Recommendations:
- The committee again recommended inclusion of more smart classrooms to cater ICT enabled teaching-learning process.
  - They also recommended expediting the construction of girls' hostel in the institute to accommodate girls' students coming from different parts of the state and augmentation of seats in the boys' hostel.

## 2) Teaching – Learning:

- All teaching –learning processes are being conducted through ICT and are outcome based.
- Based on the problem faced during conduct of on-line classes after the onset of pandemic, the scheduling and academic management of classrooms in Google platform were organised in a structured manner following timetable prepared by the individual department.
- The Google classroom embedded with Google Meet under G Suite is being used to carry out lectures and organise various classroom activities like conducting quiz, taking assignments and passing on study and reference materials.
- Industrial training was conducted in both on-line and off-line mode as per policy and convenience of the industries in the pandemic situation.
- The Institute encouraged and facilitated the scope of online internship and FDP opportunities for both students and teachers during Covid-19 pandemic period. Following withdrawal of covid restrictions, normal off-line classes were resumed.
- Webinars were organised on relevant topics inviting experts from industry and academia to upgrade students with cutting edge technology.
- Several lectures by eminent persons from industry and academia have been organised in virtual mode.
- A YouTube channel in the name of the College has been subscribed which is functioning as a repository for webinars, virtual workshops, conferences as online learning resources during this pandemic for use of all stake holders.
- In line with AICTE model curriculum 2018, the Institute has organised Induction Programme for the new first year undergraduate students.
- The academic schedule for final year students has been made flexible in order to facilitate completion of a project in Industry.
- Remedial classes in on-line/off-line mode were arranged for slow learners.
- Students were mentored at micro level by tagging each faculty to a small group of students.
- This institute gives more emphasis on continuous evaluation of students both in theory and sessional paper through seminar, demonstration, assignments

- Emphasis on continuous evaluation increased by introducing variety of assessment tools like assignment, test based on assignment, surprise test, quiz, presentations etc.
- In addition continuous evaluation weightage was increased to 50% from 25% of total marks of particular course.
- Based on the data available (academic year 2021-22) from percentage attainment of course outcomes, an analysis has been done to identify the area where remedial measures are to be introduced for improving the performance of the student.
- The Institute is functioning as a local chapter of NPTEL.

#### **Commendations:**

- The panel praised the Institute's initiative for holding Induction programme to orient the young minds of fresher's with the engineering system and acclimatise them with the new outcome-based education system as per AICTE guidelines.
- The panel appreciated the effort of the faculty members in conducting laboratories in virtual mode by using internal and external resources.
- The panel praised the Institute's initiative for conducting online classes and organising seminars in virtual mode.
- The panel also appreciated the Institute's effort of creating repository of recorded video class lectures to be accessed by the students in the event of his/her not being able to attend the online class due to network issues and for future references too.
- The panel noted with satisfaction the way the academic schedule of CT was made flexible in order to provide final year students the scope for completion of project in Industries.

#### **Recommendations:**

- The committee recommended inclusion of more industry oriented elective paper in UG programme after receiving suitable feedback of Industries from time to time.
- They also recommended a provision of credit transfer for final year UG student while they are engaged in internship in different industry in our country and abroad.
- This year they recommended to encourage all students of CT, IT and CSE department for doing project work in the industries.

### 3) Curriculum reforms

- The curriculum of 7<sup>th</sup> and 8<sup>th</sup> semester of CSE/IT has been modified to facilitate students to do their project work in the industry. The complete modalities of internship has been prepared and approved.
- B.Tech CSE 8<sup>th</sup> sem course structure was designed with no theory/practical papers which was drafted In the departmental meeting dated 17.12.2021 was approved in the subsequent departmental BOS meeting.
- Elective subjects based on the need of the industry has been incorporated in the final year CSE/IT programme.
- Academic council in its meeting dated 11<sup>th</sup> Nov and 6<sup>th</sup> Dec, 2022 approved guidelines for teacher for preparation of score sheet of a candidate in terms of breakup of marks in order to cover all aspects of performance evenly for a sessional paper with a view to bring uniformity to the evaluation process

#### Commendations:

- The committee appreciated the Institution's prioritising continuous evaluation system introducing 50 percent weightage to it.
- The panel praised the introduction of flexible elective paper as per the need of the industry from time to time.

#### Recommendations:

- The panel recommended inclusion of more on-line courses and encourage students to upgrade themselves with cutting edge technology where necessary experts are not available in the Institute. Alumni of the institute may be requested to share their skill and knowledge with the students in on line / off line mode.
- The panel recommended introduction of Master degree in CS&E with specialisation in emerging area.



#### **4) Evaluation Process**

- As a part of continuous internal assessment two (2) midterm examinations are held during each semester.
- To bring transparency in evaluation system, students are allowed to view their evaluated answer script of semester end and midterm examinations before publication of final result.
- The question papers are set adhering to the course outcomes (COs) of the particular course for onward mapping of direct attainment of course outcome and programme outcomes (POs).
- Introduction of tools to calculate percentage attainment of course outcomes and map questions against course outcomes in all level of examinations from even semester of 2021-2022.

#### **Commendations:**

- The panel appreciated the Institute's smooth execution of switch over from on-line mode to off-line mode without creating any inconvenience to the students.

#### **Recommendations:**

- The panel recommended to explore the advantages of on-line teaching and evaluation system, given its inherent flexibility, in normal times when the face-to-face classes and pen and paper examination resume, as an additional component.
- The panel also recommended to explore the possibility of evaluation of answer script in on-line mode in post –pandemic situation.

## 5) Students' performance

Student performance has been analyzed for all the UG programs offered by the college across all semesters through the following steps:

- **Collection of data:** The cumulative grade point average (CGPA) of each Semester end examination of all branches (CT,IT,CSE) have been collected from the office of the controller of examinations.
- **Analysis of data:** The arithmetic mean of CGPA of all students of a program for a particular semester is calculated and plotted as a bar/pie diagram (each bar/ pie representing mean CGPA of respective semester). All representative plots are furnished in Annexure 1 and Annexure 2.
- **Annexure -1** shows the mean data of CGPA 1 to CGPA 8 for UG (2018- 2022) batch.
- **Annexure 2** shows distribution of CGPA 8 for UG (2018-2022) batch, CGPA 6 for UG (2019-2023), CGPA 4 for UG (2020-2024) batch and CGPA 2 for UG 2021-2025).
- **Reporting of students' performance:** It has been revealed from the analysis of data and the plots that there has been a steady improvement in performance across all the program for the period 2018 to till date.
- It appears that the cause of gradual improvement in grades of students in higher semesters can be attributed to their gradual better synchronization with the objective of the program.
- **Commendation:** It has been observed that there is gradual improvement in students' performance with their progress into subsequent higher semesters of study.
- **Recommendation:** The panel recommended more attention on the orientation of the new entrants in order to improve their performance from the very beginning.

## 6) Research

- A good number of projects were sanctioned to faculty of each department. Main sponsoring authorities are Department of Sc and Technology (DST, Delhi); Department of Sc and Tech (DST, WB).
- Research supervision: Eight research fellows are working in this Institute under different Govt. Sponsored projects. Six faculty members are guiding these fellows.
- Three faculty members were awarded PhD in 2021-22 academic sessions.

### Commendation:

- The committee appreciated the research activities undertaken at the Institute level and the output there from in respect of publications, awards, presentation in conferences.
- They also praised the Institute's intention to enhance the research activities among the faculty and students.

### Recommendation:

- The panel encouraged faculties to complete their Doctoral degrees and encouraged students to involve in research activities.
- M.Tech projects might be oriented in such a fashion that it might either lead to publication in Scopus indexed journal or producing new technique for application in industry.
- The panel also recommended compulsory exposure of faculties in industrial practices as per notification of AICTE and thereby strengthening the institute-industry interface.

### Acknowledgements:

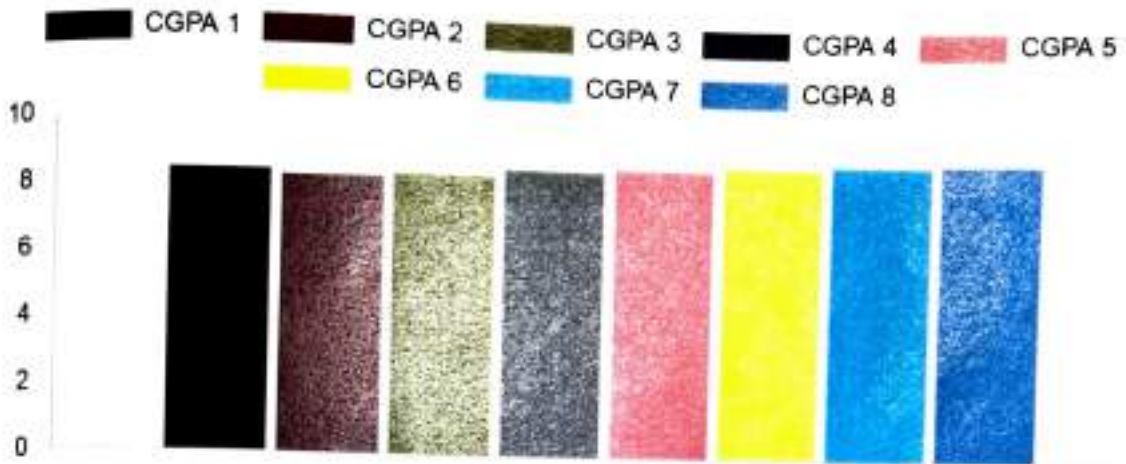
The audit panel thanks all those who contributed to the Institute's self-assessment process and compilation of the self-assessment report. The panel is most grateful for the openness and frankness of who spared their time to appear before the panel and for their constructive comments and observations.

### Audit Panel:

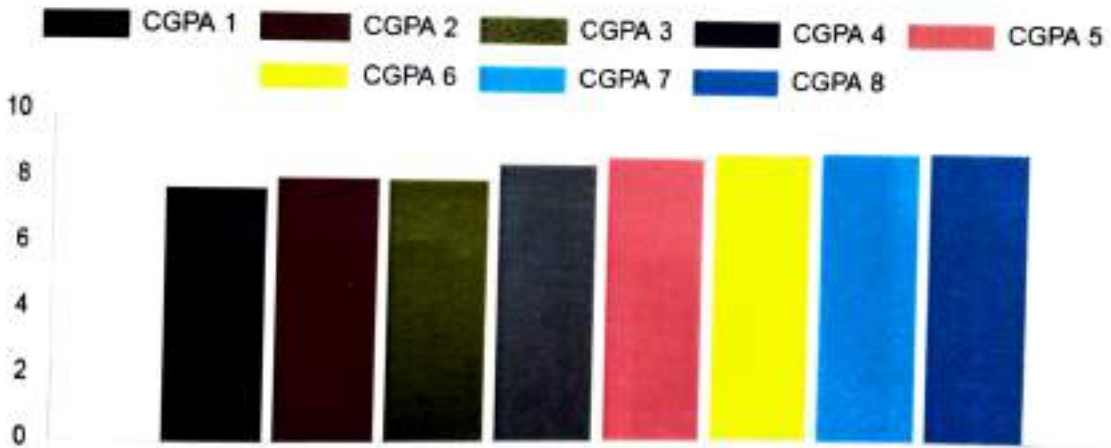
Dr. (Mrs) Urmila Kar (External Member)	
Dr. Sankar Ghatak (External Member)	
Head of the Department - Ceramic Technology	<i>Antyama Sen</i>
Head of the Department - Information Technology	<i>M. Maity</i>
Head of the Department - Computer Sc and Engg	<i>K. Saha</i>
Head of the department of Basic Sc, Engg and Humanities	<i>S. Saha</i>
Prof. Ranjan Roy	<i>Laja Roy</i>
Controller of Examinations	<i>Partha Halder</i>

## Annexure-1

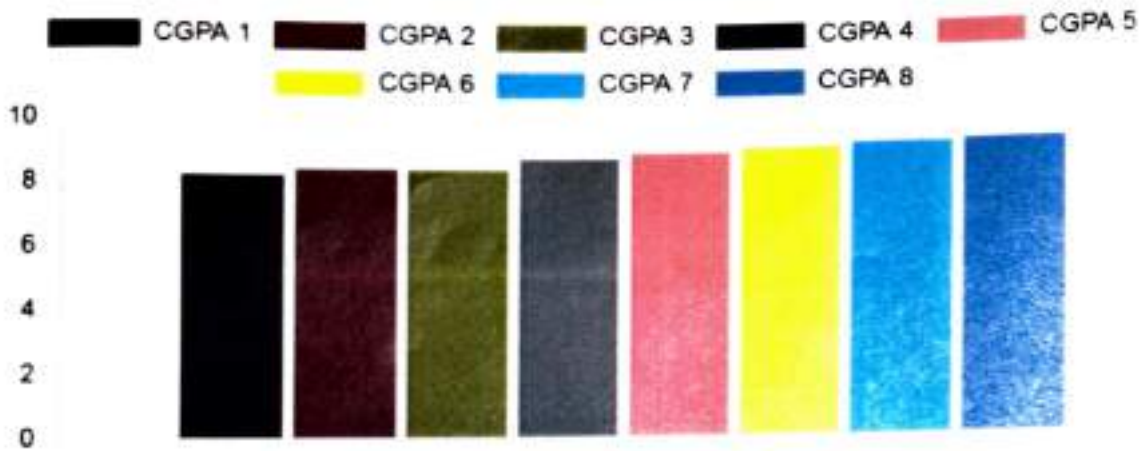
### Mean Data of CT 2018-2022



### Mean Data of IT 2018-2022

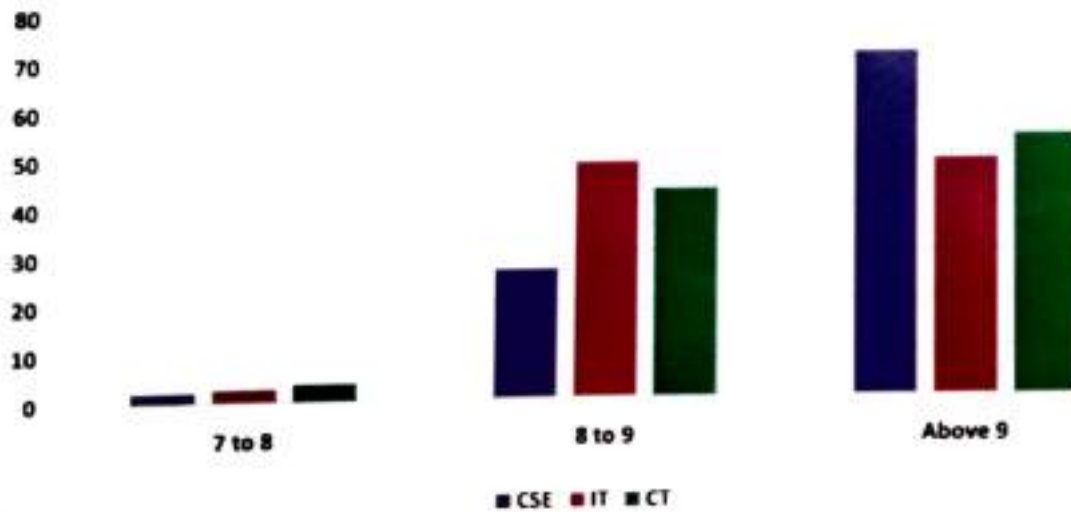


### Mean Data of CSE 2018-2022

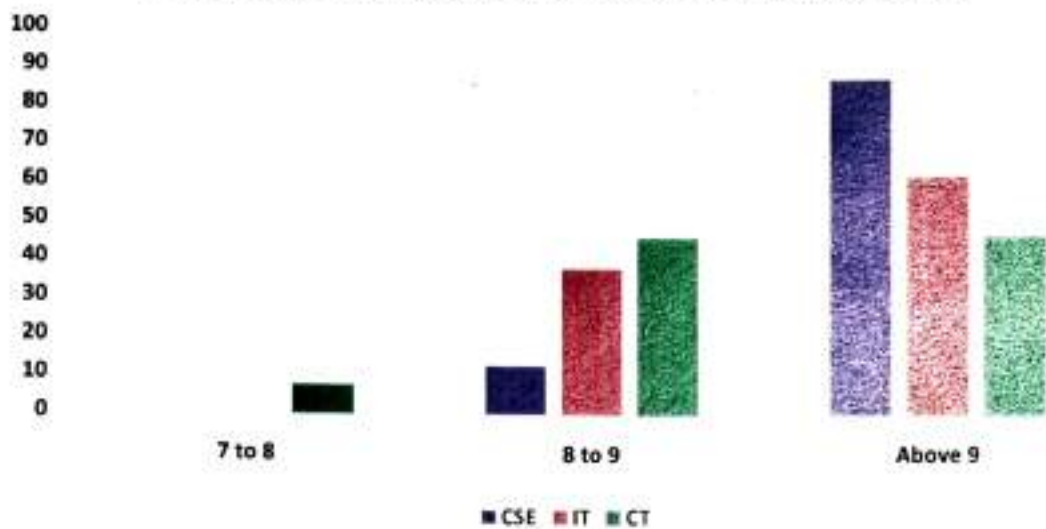


### Annexure-2

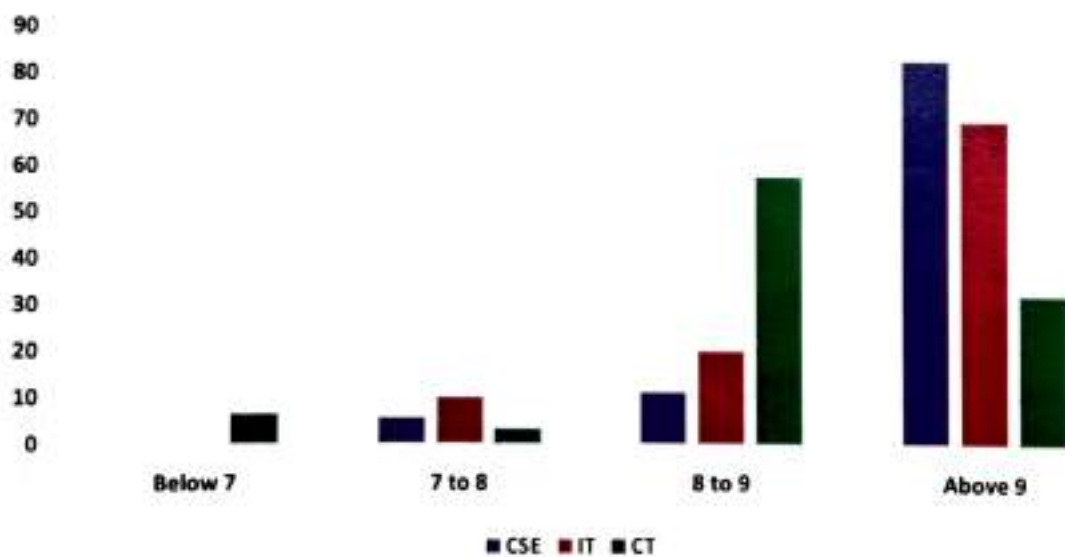
### Distribution of CGPA 8 for B.Tech 2018-2022 batch



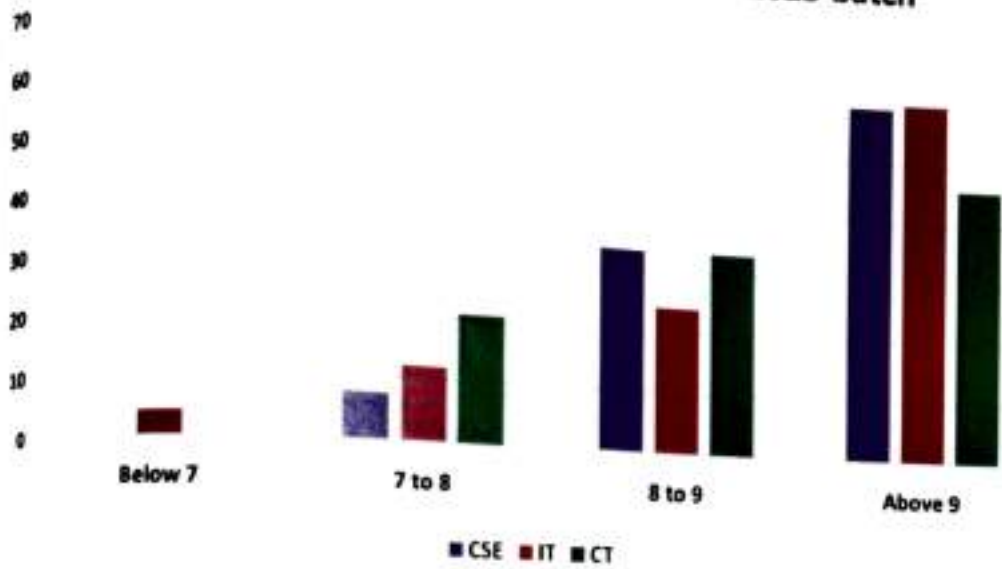
**Distribution of CGPA 6 for B.Tech 2019-2023 batch**



**Distribution of CGPA 4 for B.Tech 2020-2024 batch**



Distribution of CGPA 2 for B.Tech 2021-2025 batch





Ammevuz - 'D'

**Academic Audit Report**  
**for**  
**Academic Year 2020-2021**

K. Chakrabarti  
*Principal*  
Govt. College of Engineering  
& Ceramic Technology  
Govt. of West Bengal

**Background:**

The academic audit committee of GCECT has been constituted in October, 2012 to consider and review the institute's mechanism for monitoring and enhancing quality and standard necessary for achieving their stated aims and objectives. Since its formation, the committee has administered academic audit for each academic year.

**Process of audit**

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4. Evaluation process
5. Students' performance
6. Research activities

  
Principal  
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## 1) Infrastructural Development

1. Upgradation and procurement of new furniture in the library was done.
2. Thorough renovation of gymnasium including the equipment therein was done.
3. Thorough renovation of the skill development lab adjacent to the gymnasium was done.
4. The entire block of rooms housing the skill development lab, gymnasium etc. was thoroughly renovated
5. Major repair of elevator was also done.
6. The metal road leading to the main building from the entrance was also partly renovated.
7. Installation of Centralised AC in the mini conference room
8. Installation of equipment in sol-gel lab in the department of Ceramic Technology.
9. This institute had spent Rs. 28,87,522/- for infrastructural upgradation during the financial year 2020-2021

**Commendations:** The panel appreciated the infrastructural development in the Institute in spite of Covid-19 pandemic situation.

### **Recommendations:**

1. The committee again recommended inclusion of more smart classrooms to cater ICT enabled teaching-learning process.
2. They also recommended creation of girls' hostel to accommodate girls' students coming from different parts of the state and augmentation of seats in the boys' hostel.

  
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## 2) Teaching – Learning:

1. All teaching –learning processes are being conducted through ICT and are outcome based.
2. Based on the problem faced during conduct of on-line classes after the onset of pandemic, the scheduling and academic management of classrooms in Google platform were organised in a structured manner following timetable prepared by the individual department.
3. The Google classroom embedded with Google Meet under G Suite is being used to carry out lectures and organise various classroom activities like conducting quiz, taking assignments and passing on study and reference materials.
4. Practical classes in virtual mode were conducted by teachers as per schedule using software available in our institute and resources available from institutes of repute.
5. Industrial training was conducted in both on-line and off-line mode as per policy and convenience of the industries in the pandemic situation.
6. The Institute encouraged and facilitated the scope of online internship and FDP opportunities for both students and teachers during Covid-19 pandemic period.
7. Webinar were organised on the different relevant topics inviting experts from industry and academia to upgrade students with cutting edge technology.
8. Several lectures by eminent persons from industry and academia have been organised in virtual mode.
9. A YouTube channel in the name of the College has been subscribed which is functioning as a repository for webinars, virtual workshops, conferences as online learning resources during this pandemic for use of all stake holders.
10. In line with AICTE model curriculum 2018, the Institute has organised Induction Programme for the new first year undergraduate students.
11. The academic schedule for final year students has been made flexible in order to facilitate completion of a project in Industry.
12. Remedial classes in on-line mode were arranged for slow learners.
13. Students were mentored at micro level by tagging each faculty to a small group of students.
14. This institute gives more emphasis on continuous evaluation of students both in theory and sessional paper through seminar, demonstration, assignments.
15. The Institute is functioning as a local chapter of NPTEL.

## Commendations:

1. The panel praised the Institute's initiative for holding Induction programme to orient the young minds of freshers with the engineering system and acclimatise them with the new outcome-based education system as per NBA guidelines.
2. The panel appreciated the effort of the faculty members in conducting laboratories in virtual mode by using internal and external resources.

3. The panel praised the Institute's initiative for conducting online classes and organising seminars in virtual mode.
4. The panel also appreciated the Institute's effort of creating repository of recorded video class lectures to be accessed by the students in the event of his/her not being able to attend the online class due to network issues and for future references too.
5. The panel noted with satisfaction the way the academic schedule of CT was made flexible in order to provide final year students the scope for completion of project in Industries.

**Recommendations:**

1. The committee recommended inclusion of more industry oriented elective paper in UG programme after receiving suitable feedback of Industries from time to time.
2. They also recommended a provision of credit transfer for final year UG student while they are engaged in internship in different industry in our country and abroad.
3. This year also they recommended to extend the provision of academic flexibility of doing project practised in CT department to departments of CSE and IT.

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### 3) Curriculum reforms

1. As per AICTE Model 2018, the Institute has offered two different programmes in UG level viz. B.Tech and B.Tech (H)
2. The Institute also gives more emphasis on MOOCS and made provision in their curriculum for conferment of B. Tech with Honours degree. A student has to earn 20 additional credits through MOOCS over and above all the existing courses taught in the college for conferment of Honours degree.
3. Course curriculum has thoroughly been restructured from 2018-2019 academic session and restricting the total credit to 160 conforming to AICTE model 2018.
4. All laboratory classes have been made sessional in the new curriculum and they are to be evaluated through continuous assessment comprising of experiment conduction, note book writing, viva, attendance, skills etc.
5. There is a provision of assessment of students' performance in lab paper through a panel of external experts of respective field in the name of comprehensive Lab assessment in each semester.
6. The new curriculum gives more importance on flexible industry friendly elective papers based on the feedback of employer, alumni and other stakeholders.
7. There is a provision for mandatory course on Constitution of India, Law for engineers, social justice, environmental awareness, right to information in the course curriculum of the Institute.
8. All courses are framed mentioning the objectives and course outcomes.
9. The criteria of promotion have been changed to allow a student to carry studies according to his/her capability without being detained at a particular level in a course with a maximum time limit prescribed in the curriculum, by removing the provision of detention in the academic regulation at a particular level due to failure in more courses than specified.

#### Commendations:

1. The committee appreciated the Institution's prioritising continuous evaluation system introducing 50 percent weightage to it.
2. The panel praised the introduction of flexible elective paper as per the need of the industry from time to time.

**Recommendations:**

1. The panel recommended inclusion of more on-line courses and encourage students to upgrade themselves with cutting edge technology where necessary experts are not available in the Institute.
2. The panel recommended introduction of Master degree in CS&E with specialisation in emerging area.

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#### 4) Evaluation Process

1. To bring transparency in evaluation system, students are allowed to view their evaluated answer script of semester end and midterm examinations before publication of final result.
2. As a part of continuous internal assessment two (2) midterm examinations are held during each semester.
3. The question papers are set adhering to the course outcomes (COs) of the particular course for onward mapping of direct attainment of course outcome and programme outcomes(POs)
4. In view of the pandemic situation due to COVID-19, a new method of on-line evaluation of students in the form of on-line quiz, on-line MID term and semester end examinations (SEE) had been successfully implemented with the concurrence of Academic Council.
5. Apart from on-line MCQ examinations, an on-line viva-voce examination was also conducted successfully as a component of whole evaluation system during this pandemic.

#### Commendations:

1. The panel appreciated the Institute's approach of viewing evaluated answer script in Google form by the students before the publication of final results as a unique measure of transparency in evaluation system.
2. Successful completion of on-line examination during the pandemic of COVID-19 in the form of on-line MCQ examination through Google Form and on-line viva-voce examination in Google Meet platform and subsequent publication of even semester examinations was highly appreciated. It might not be out of place to mention that the premier institutes of India also recommended the same methods of evaluation of students during this pandemic.

#### Recommendations:

1. The panel recommended to explore the advantages of on-line teaching and evaluation system, given its inherent flexibility, in normal times when the face-to-face classes and pen and paper examination resume, as an additional component.
2. The panel also recommended to explore the possibility of evaluation of answer script in on-line mode in post –pandemic situation.



## 5) Students' performance

Student performance has been analyzed for all the UG programs offered by the college across all semesters through the following steps:

1. Collection of data: The cumulative grade point average (CGPA) of each Semester end examination of all branches (CT,IT,CSE) have been collected from the office of the controller of examinations.

2. Analysis of data: The arithmetic mean of CGPA of all students of a program for a particular semester is calculated and plotted as a bar/pie diagram (each bar/ pie representing mean CGPA of respective semester). All representative plots are furnished in Annexure 1, Annexure 2 and Annexure 3.

Annexure -1 shows the distribution of CGPA 1 to CGPA 6 for UG (2018- 2022) batch.

Annexure 2 shows distribution of CGPA 6 for UG (2018-2022) batch.

Annexure 3 shows distribution of CGPA 2 for UG (2020-2024) batch, CGPA 4 for UG (2019-2023) and CGPA 6 for UG (2018-2022) batch.

3. Reporting of students' performance: It has been revealed from the analysis of data and the plots that there has been a steady improvement in performance across all the program for the period 2018 to till date.

- It appears that the cause of gradual improvement in grades of students in higher semesters can be attributed to their gradual better synchronization with the objective of the program.

**Commendation:** It has been observed that there is gradual improvement in students' performance with their progress into subsequent higher semesters of study.

**Recommendation:** The panel recommended more attention on the orientation of the new entrants with the objective of their respective programs in order to improve their performance from the very beginning.

*K. Chakrabarti*  
**Principal**  
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## 6) Research

1. A good number of projects were sanctioned to faculty of each department. Main sponsoring authorities are Department of Sc and Technology (DST, Delhi); University Grants Commission (UGC, Minor); Department of Sc and Tech (DST, WB).
2. Research supervision: Eight research fellows are working in this Institute under different Govt. Sponsored projects. Six faculty members are guiding these fellows.
3. One faculty member was awarded PhD in 2020-21 academic session.

### Commendation:

1. The committee appreciated the research activities undertaken at the Institute level and the output therefrom in respect of publications, awards, presentation in on-line conferences.
2. They also praised the Institute's intention to enhance the research activities among the faculty and students.

### Recommendation:

1. The panel encouraged faculties to complete their Doctoral degrees and encouraged students to involve in research activities.
2. M.Tech projects might be oriented in such a fashion that it might either lead to publication in UGC-CARE journal or producing new technique for application in industry.
3. The panel also recommended compulsory exposure of faculties in industrial practices as per notification of AICTE and thereby strengthening the institute-industry interface.

  
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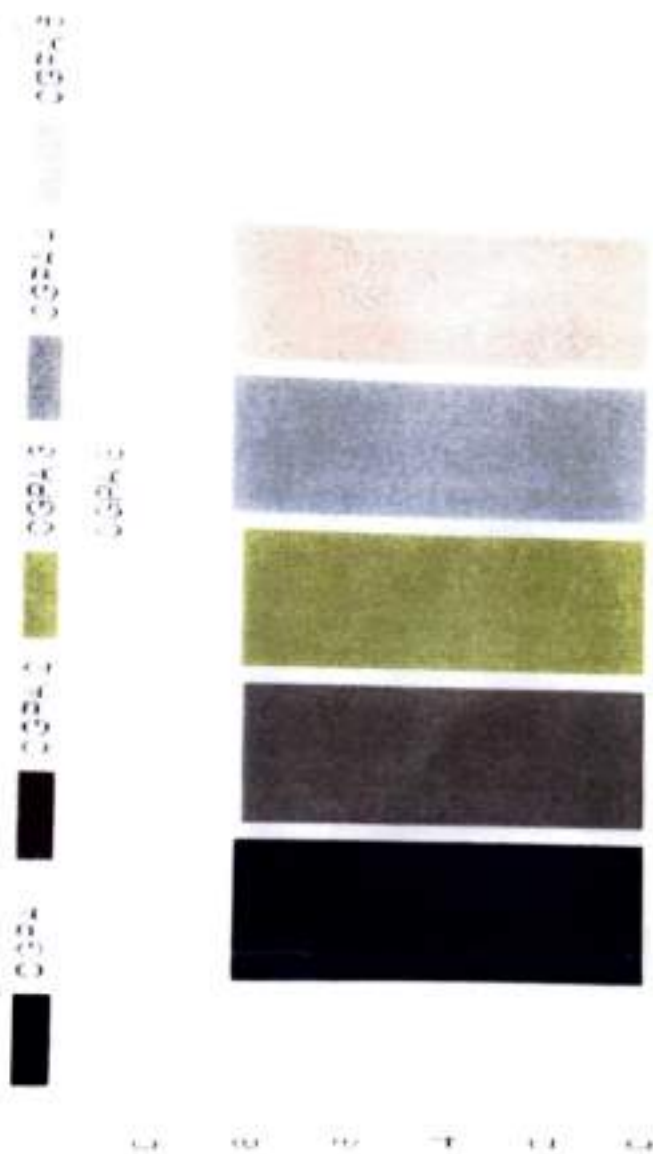
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## Audit Panel:

Dr. (Mrs) Urmila Kar (External Member)	U Kar
Dr. Sankar Ghatak (External Member)	S. Ghatak
Head of the Department – Ceramic Technology	P. Prasad
Head of the Department - Information Technology	M. Mishra
Head of the Department – Computer Sc and Engg	K. Saha
Head of the department of Basic Sc, Engg and Humanities	S. R.
Prof. Ranjan Roy	Ry
Controller of Examinations	P. Prasad
Convener	Kalpana Das

K. Chakraborty  
Principal  
Govt. College of Engineering  
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Govt. of West Bengal

Mean Data of CT 2018-2022



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Mean Data of IT 2018-2022



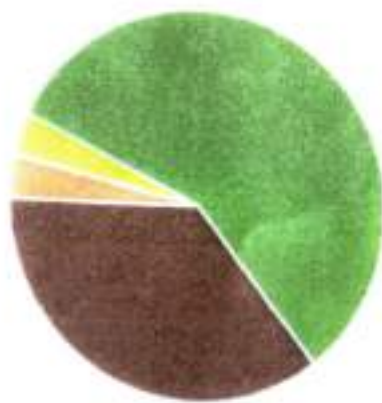
K. C. K. K. K.  
Principal  
Govt. College of Engineering  
& Ceramic Technology  
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Mean Data of CSE 2018-2022



  
 Principal  
 Govt. College of Engineering  
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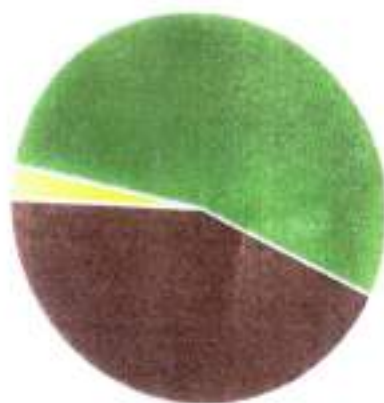
## Distribution of CGPA 6 for UG CT (2018-22 Batch)



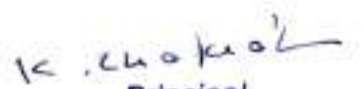
Below 7    7 to 8    8 to 9    Above 9

*K. Chakrabarti*  
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& Ceramic Technology  
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## Distribution of CGPA 6 for UG IT (2018-22 Batch)



Below 7    7 to 8    8 to 9    Above 9

  
Principal  
Govt. College of Engineering  
& Ceramic Technology  
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# Distribution of CGPA 6 for UG CSE (2018-22 Batch)



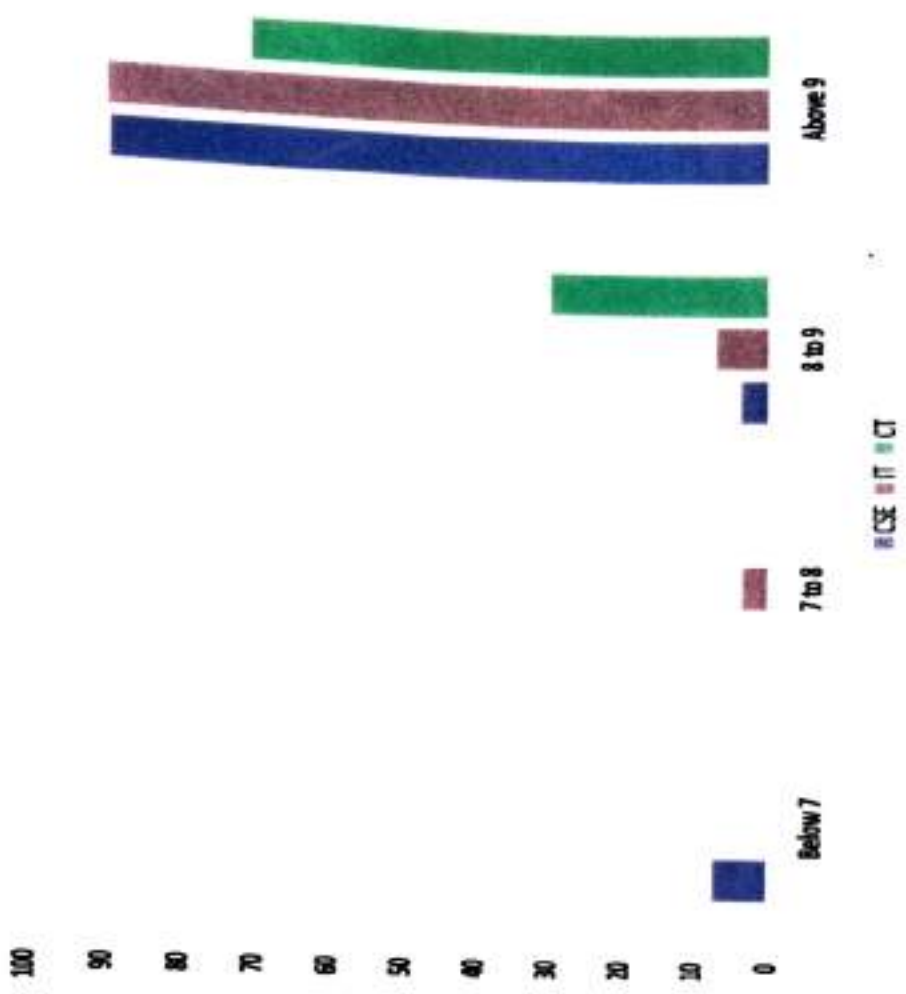
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Distribution of CGPA 2 for B.Tech 2020-2024 batch

	CSE	IT	CT
Below 7	7.142857	0	0
7 to 8	0	3.448276	0
8 to 9	3.571429	6.896552	29.62963
Above 9	89.28571	89.65517	70.37037

Total students	28	29	27
Below 7	2	0	0
7 to 8	0	1	0
8 to 9	1	2	8
Above 9	25	26	19

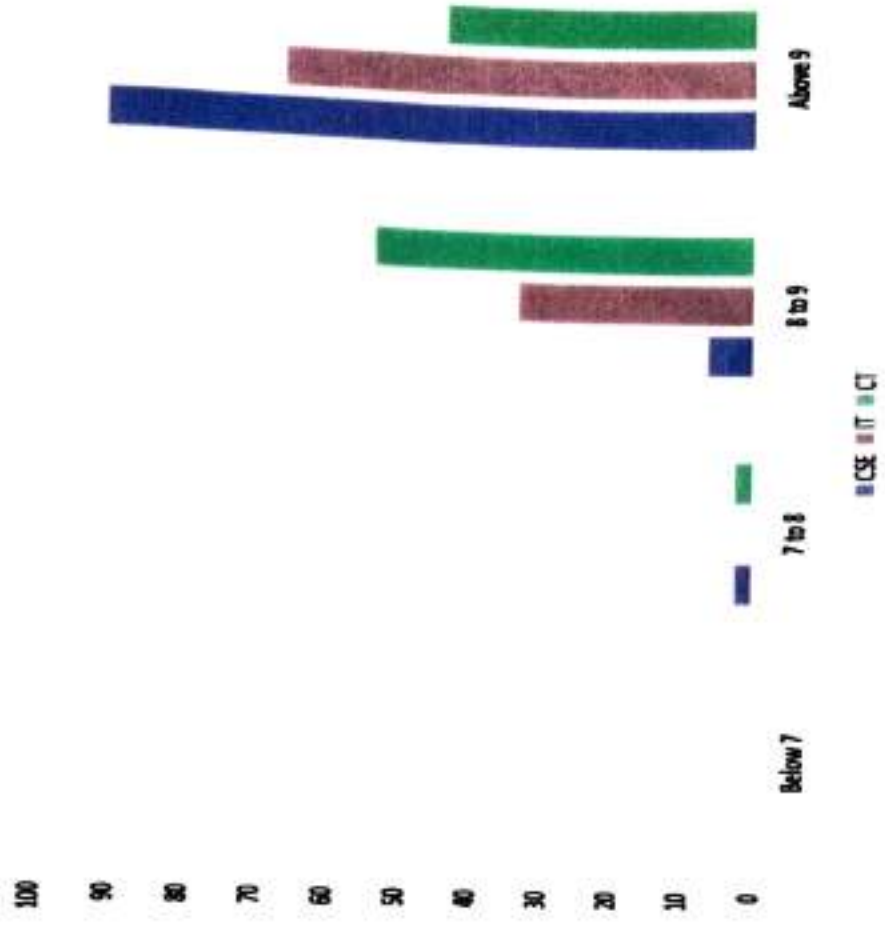


K. Choudhury  
Principal  
Govt. College of Engineering  
& Ceramic Technology  
Govt. of West Bengal

Distribution of CGPA 4 for B.Tech 2019-2023 batch

	CSE	IT	CT
Below 7	0	0	0
7 to 8	2.12766	0	2.439024
8 to 9	6.382979	33.333333	53.65854
Above 9	91.48936	66.66667	43.90244

Total students	47	42	41
Below 7	0	0	0
7 to 8	1	0	1
8 to 9	3	14	22
Above 9	43	28	18

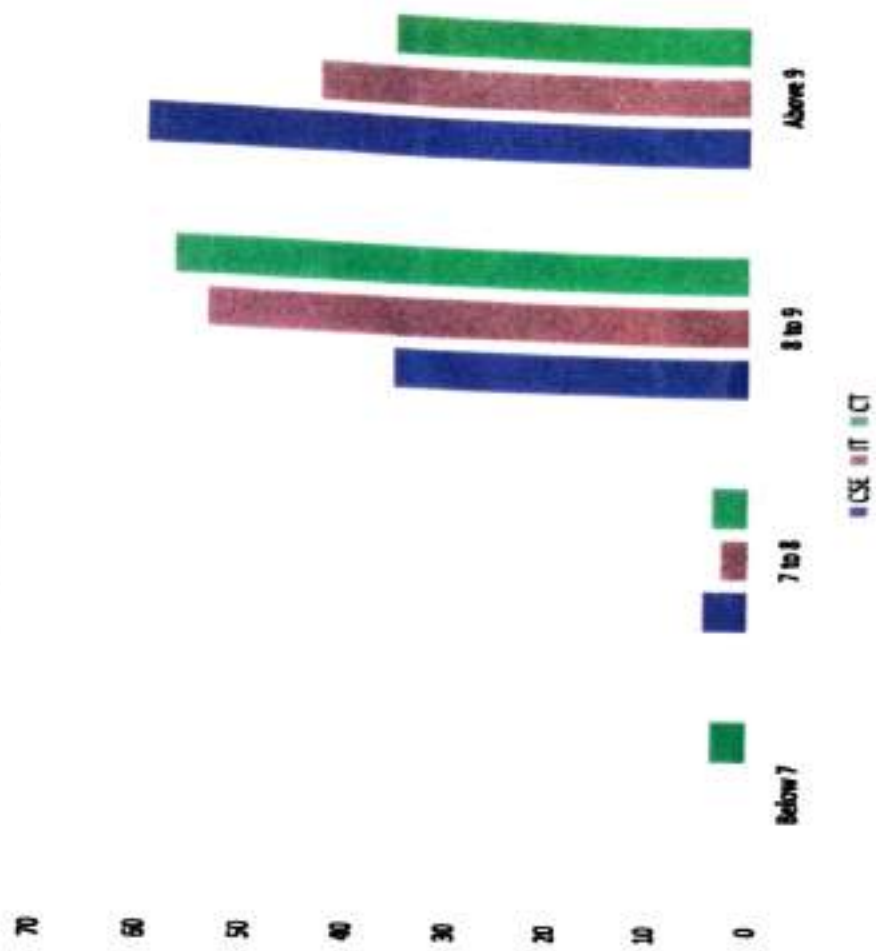


K. Chakrabarti  
Principal  
Govt. College of Engineering  
& Ceramic Technology  
Govt. of West Bengal

**Distribution of CGPA 6 for B.Tech 2018-2022 batch**

	CSE	IT	CT
Below 7	0	0	3.571429
7 to 8	4.444444	2.702703	3.571429
8 to 9	35.555556	54.05405	57.14286
Above 9	60	43.24324	35.71429

Total students	45	37	28
Below 7	0	0	1
7 to 8	2	1	1
8 to 9	16	20	16
Above 9	27	16	10



*K. Chatterjee*  
**Principal**  
 Govt. College of Engineering  
 & Ceramic Technology  
 Govt. of West Bengal

# ACADEMIC AUDIT REPORT

(ACADEMIC SESSION 2019- 2020)

**Background:**

The academic audit Committee of Govt College of Engg and Ceramic Technology has been constituted in October, 2012 to consider and review the Institute's mechanism for monitoring and enhancing academic quality and standard necessary for achieving their stated aims and objectives. Since its formation, the committee has administered academic audit for each academic year.

**Process of audit:**

The process of audit requires a self-review in which the Institute evaluates its progress towards achieving its objectives related to the areas of the audit and identifies areas for improvement.

The committee holds meeting in the beginning and end of each academic year to discuss details of intended plans and strategies with respect to enhancement initiatives and assess the measure practised during the academic session.

The audit panel comprises of head of Departments, selected members of faculty and external members. The panel visits the departments to check and verify the academic practices laid down by the committee for evaluation and drafts an audit report. The report commends good practice and makes recommendations intended to assist the Institute in its own programme of continuous improvement of quality. The audit report is put up to the Internal Quality Assurance Cell (IQAC) for monitoring and follow up activities.

## **Areas of Academic Audit:**

### **1. Infrastructural Development**

1. All classrooms are functioning with wall mounted projection facility.
2. CCTV surveillance has been augmented to cover up every corner of the campus.
3. Raised concrete platforms in classrooms have been constructed in order to facilitate better visibility of the speaker to the students.
4. Podiums with sound systems have been installed in all classrooms.
5. The Institute has procured lectures in digital form on different subjects delivered by prominent teachers at premier Institutes, to be accessed by the students in the library.
6. On-line grievance redressal portal is established in college website to comply with mandatory requirements of AICTE.
7. On-line Covid-19 grievance redressal portal has also been established in April 2020.
8. A museum has been created in first floor lounge of the main building exhibiting ceramic industrial products and artefacts.
9. Language Lab has been renovated and upgraded with state-of-the-art facility.
10. Fully automated student management software is functioning.
11. Audio-visual facility with smart LED display unit has been created in the main conference room.
12. Library facility has been created with all necessary infrastructure like computers with internet access, furniture and books in the Boys' hostel.
13. Playground has been thoroughly revamped with drainage system all around to prevent water logging in the ground.
14. Old defective sewerage systems have been modernised for better disposal of rainwater and liquid waste.
15. Solar streetlights in the College campus have been installed to revamp the existing illumination system.
16. The metalled road from the college entrance to the main building has been widened and revamped.

17. The open land on the right side of the metalled road has been beautified by creating tiled pathways dotted with small flower gardens.
18. This Institute has spent Rs 44,70,000 for infrastructural upgradation during the academic year 2019-2020.

### **Commendations:**

- The panel commended the Institute for creating and augmenting several state-of-the-art facilities.

### **Recommendations:**

- The committee recommended inclusion of more smart classrooms to cater ICT enabled teaching-learning process.
- They also recommended creation of girls' hostel to accommodate girls' students coming from different parts of the state.



## 2. Teaching – Learning

- a. All teaching –learning processes are being conducted through ICT and are outcome based.
- b. The college has subscribed “Google G Suite for Education” for conducting online classes and assessment with a provision of video recording.
- c. The Google classroom embedded with Google Meet under G Suite is being used to carry out lectures and organise various classroom activities like conducting quiz, taking assignments and passing on study and reference materials.
- d. Industrial training is mandatory in the curriculum to expose students in industrial set up.
- e. The Institute encouraged and facilitated the scope of online internship and FDP opportunities for both students and teachers during Covid-19 pandemic period.
- f. Seminars and workshops are organised on the different relevant topics inviting experts from industry and academia to upgrade students with cutting edge technology.
- g. Several lectures by eminent persons from industry and academia have been organised in virtual mode.
- h. A YouTube channel in the name of the College has been subscribed which is functioning as a repository for webinars, virtual workshops, conferences as online learning resources during this pandemic for use of all stake holders.
- i. In line with AICTE model curriculum 2018, the Institute has organised three weeks Induction Programme comprising of inspiring lectures, industry visits, lectures by industry experts, entrepreneurs, social activists, psychologists to groom the new entrants to enthuse them to be responsible global citizens.
- j. The academic schedule for final year students has been made flexible in order to facilitate completion of a project in Research Institute and Industry.
- k. Remedial classes are arranged for slow learners.
- l. Students are mentored at micro level by tagging each faculty to a small group of students. This Institute also has a provision of structured student counselling in a periodic manner through professional counsellors.
- m. This institute gives more emphasis on continuous evaluation of students both in theory of sessional paper through seminar demonstration, assignments, micro teaching, flip teaching, disruptive teaching etc.
- n. The Institute is functioning as a local chapter of NPTEL.

### Commendations:

- The panel praised the Institute’s initiative for holding Induction programme to orient the young minds of freshers with the engineering system and acclimatise them with the new outcome-based education system as per NBA guidelines.

- The panel praised the Institute's initiative for conducting online classes and organising seminars, FDP in virtual mode.
- The panel also appreciated the Institute's effort of creating repository of recorded video class lectures to be accessed by the students in the event of his/her not being able to attend the online class due to network issues and for future references too.
- The panel noted with satisfaction the way the academic schedule of CT made flexible in order to provide final students the scope for completion of project in Research Institute and Industry.

### **Recommendations:**

- The committee recommended inclusion of more industry oriented elective paper in final year UG programme after receiving suitable feedback from Industry.
- They also recommended a provision of credit transfer for final year UG student while they are engaged in internship in different industry in our country and abroad.
- They recommended to extend the provision of academic flexibility practised in CT department to other departments like CSE and IT.

### 3. Curriculum reforms

1. As per AICTE Model 2018, the Institute has offered two different programmes in UG level viz. B.Tech and B.Tech (H)
2. The Institute also gives more emphasis on MOOCS and made provision in their curriculum for conferment of B. Tech with Honours degree. A student has to earn 20 additional credits through MOOCS over and above all the existing courses taught in the college for conferment of Honours degree.
3. Course curriculum has thoroughly been restructured from 2018-2019 academic session and restricting the total credit to 160 conforming to AICTE model 2018.
4. All laboratory classes have been made sessional in the new curriculum and they are to be evaluated through continuous assessment comprising of experiment conduction, note book writing, viva, attendance, skills etc.
5. There is a provision of assessment of students' performance in lab paper through a panel of external experts of respective field in the name of comprehensive Lab assessment in each semester.
6. The new curriculum gives more importance on flexible industry friendly elective papers based on the feedback of employer, alumni and other stakeholders.
7. There is a provision for mandatory course on Constitution of India, Law for engineers, social justice, environmental awareness, right to information in the course curriculum of the Institute.
8. All courses are framed mentioning the objectives and course outcomes.
9. The criteria of promotion have been changed to allow a student to carry studies according to his/her capability without being detained at a particular level in a course with a maximum time limit prescribed in the curriculum, by removing the provision of detention in the academic regulation at a particular level due to failure in more courses than specified.

#### **Commendations:**

- The committee appreciated the Institution's prioritising continuous evaluation system introducing 50 percent weightage to it.
- The panel praised the introduction of flexible elective paper as per the need of the industry from time to time.

#### **Recommendations:**

- The panel recommended inclusion of more on-line courses and encourage students to upgrade themselves with cutting edge technology where necessary experts are not available in the Institute.
- The panel recommended introduction of master degree in CS&E with specialisation in emerging area as per the recommendation laid down by AICTE EOA Handbook 2019.

## 4. Evaluation Process

1. To bring transparency in evaluation system, students are allowed to view their evaluated answer script of semester end and midterm examinations before publication of final result.
2. As a part of continuous internal assessment two (2) midterm examinations are held during each semester.
3. Extreme confidentiality is maintained in respect of setting question paper as one set out of two submitted by paper setter is arbitrarily chosen by the Chief Controller of Examinations.
4. The question papers are set adhering to the course objectives of the particular course for onward mapping of direct attainment of course outcome.
5. In view of the pandemic situation due to COVID-19, a new method of on-line evaluation of students in the form of on-line quiz, on-line MID term and end semester examinations have been successfully implemented.
6. Apart from on-line MCQ examinations, an on-line viva-voce examination was also conducted successfully as a component of whole evaluation system during this pandemic.

### Commendations:

- The panel appreciated the Institute's approach of viewing evaluated answer script by the students before the publication of final results as a unique measure of transparency in evaluation system.
- Successful completion of on-line examination during the pandemic of COVID-19 in the form of on-line MCQ examination through Google Form and on-line viva-voce examination in Google Meet platform and subsequent publication of even semester examinations was highly appreciated. It may not be out of place to mention that the premier institutes of India also recommended the same methods of evaluation of students during this pandemic.

### Recommendations:

- The panel recommended to explore the advantages of on-line teaching and evaluation system, given its inherent flexibility, in normal times when the face-to-face classes and pen and paper examination resume, as an additional component.
- The panel also recommended to explore the possibility of using on-line examination methods by setting subjective questions along with the MCQ.

## 5. Students' performance

- The marks distribution of CGPA 4 of the 2018-2022 B.Tech batches is given in bar chart as **Annexure -1**. The results (promoted, P and promoted with backlog, XP) of each semester of individual stream are also displayed in pie chart as **Annexure-2**. CGPA distribution of students are shown in **Annexure 3** through box plot

### **Commendation:**

- Improvement of median of CGPA in subsequent semesters indicates that there is continuous improvement in performance of the students.
- Comparatively poor performance in terms of CGPA in 1<sup>st</sup> and 2<sup>nd</sup> semesters is perhaps indicative of the fact that the students find it difficult to orient themselves with the curriculum in a new environment of the UG programme.

### **Recommendation:**

- The teachers involved in teaching of 1<sup>st</sup> and 2<sup>nd</sup> semester courses should put more emphasis to establish one to one relationship in terms of doubt clearing and more effective tutorial classes with the students so that he/she finds it comfortable to pursue studies with more attention.
- The mentors should address the issue of disconnect between the curriculum and the students more vigorously.
- An add-on class in the 1st year may be introduced in order to help the students in overcoming the difficulty many students often face in communicating in English language both orally and in the written form.

## 6. Research

- a. A good number of projects are sanctioned to faculty of each department. Main sponsoring authorities are Department of Sc and Technology (DST, Delhi); University Grants Commission (UGC, Minor and Major); Department of Sc and Tech (DST, WB).
- b. Research students and research supervision: eight research fellows are working in this Institute under different Govt. Sponsored projects. Six faculty members are guiding these fellows.
- c. There is provision of space and resources to post graduate and PhD students for research work
- d. Students are allowed to participate in seminars, conferences and publishing of papers.
- e. Two faculty members were awarded PhD in 2019-20 academic sessions.
- f. There is provision for seed money for the students and faculty alike for carrying out research work and attending conference / symposia to promote research culture in the institute.

### **Commendation:**

- The committee appreciated the research activities undertaken at the Institute level and the output there from in respect of publications, awards, presentation in conferences.
- They also praised the Institute's intention to enhance the research acumen among the faculty and students.

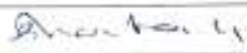

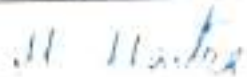





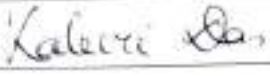
### **Recommendation:**

- The panel encouraged faculties to complete their Doctoral degrees and encourages students to involve themselves in research.
- The M.Tech projects may be oriented in such a fashion that it may either lead to publication in UGC-CARE journal or producing new technique for application in industry.
- The panel also recommended compulsory exposure of faculties in industrial practices and thereby strengthening the institute-industry interface.

## Acknowledgements:

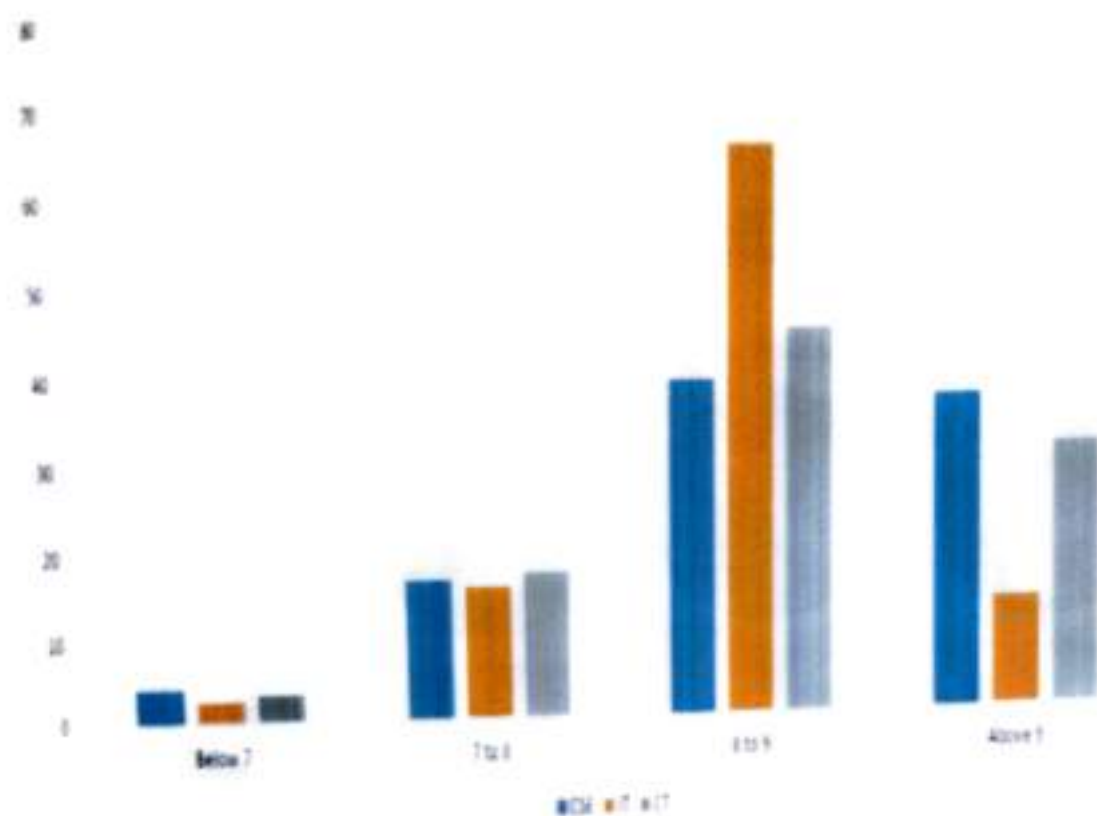
The audit panel thanks all those who contributed to the Institute's self-assessment process and compilation of the self-assessment report. The panel is most grateful for the openness and frankness of who spared their time to appear before the panel and for their constructive comments and observations.

## Audit Panel:

Dr. Sankar Ghatak (External Member)	
Head of the Department – Ceramic Technology	
Head of the Department - Information Technology	
Head of the Department – Computer Sc and Engg	
Head of the department of Basic Sc, Engg and Humanities	
Prof. Ranjan Roy	
Dr. Krishnendu Dutta	
Controller of Examinations	
Convenor	

## Annexure I

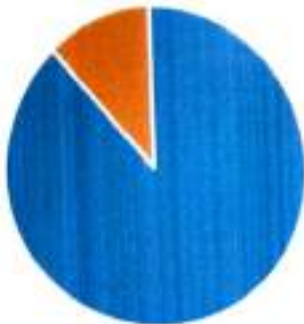
Distribution of CGPA 4 for B.Tech 2018-2022 batch





## Annexure 2

B.Tech CSE 1st Sem



\*P = 3P

B.Tech CSE 2nd Sem



\*P = 3P

B.Tech CSE 3rd Sem



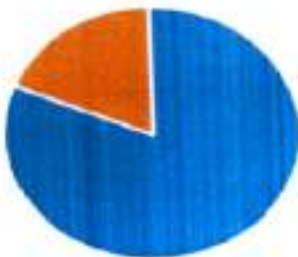
\*P = 3P

B.Tech CSE 4th Sem



\*P = 3P

B.Tech IT 1st Sem



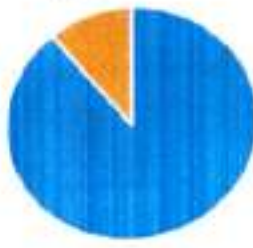
\*P = 3P

B.Tech IT 2nd Sem



\*P = 3P

B.Tech IT 3rd Sem



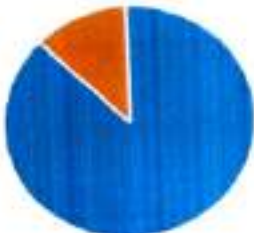
\*P = 3P

B.Tech IT 4th Sem



\*P = 3P

B.Tech CT 1st Sem



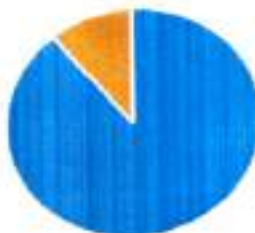
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B.Tech CT 2nd Sem



\*P = 3P

B.Tech CT 3rd Sem



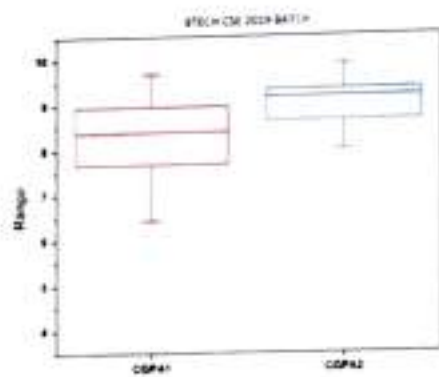
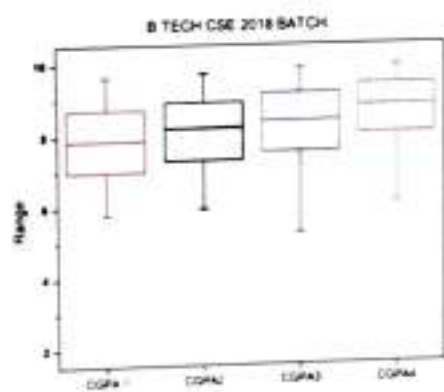
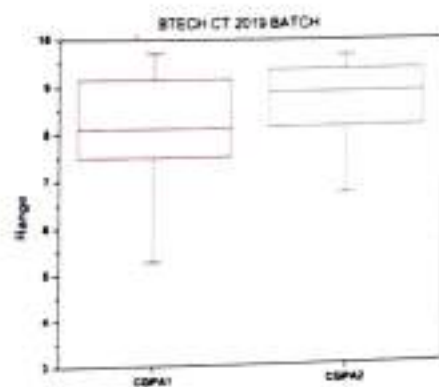
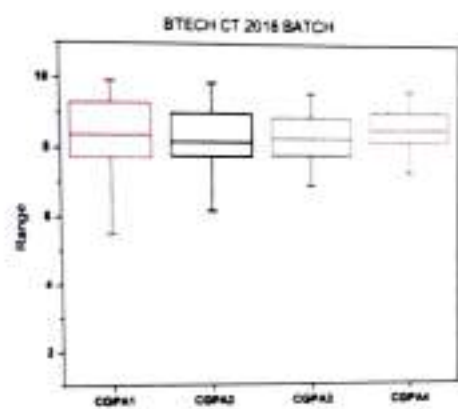
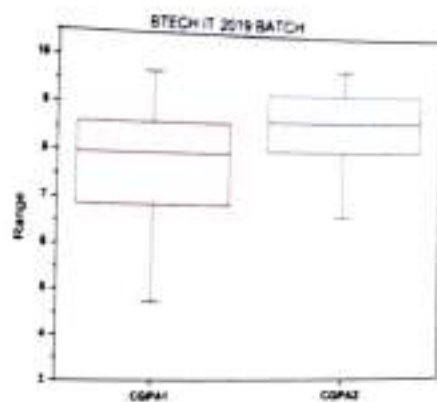
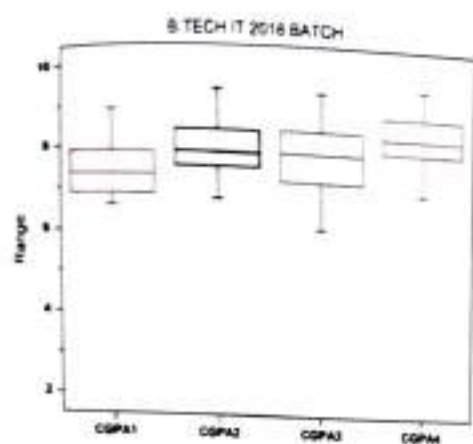
\*P = 3P

B.Tech CT 4th Sem



\*P = 3P

## Annexure 3



PROFORMA FOR REVIEWING THE AUTONOMOUS STATUS

1.	Name and address of College	Government College of Engineering & Ceramic Technology 73, Abinash Chandra Banerjee Lane, Kolkata- 700010, West Bengal	
2.	Contact details	033-2363-2072 / 033-2370-1264 e-mail: gcectwb@gmail.com	
3.	Affiliating University	Maulana Abul Kalam Azad University of Technology, West Bengal	
4.	Included in Section 2(f)	Yes..... ✓	No.....
5.	Included under 12 (B)	Yes..... ✓	No.....
6.	Year of establishment of college	03.04.1941	
7.	Period of autonomy	Five years (2018-2023)	
8.	Period of further autonomy requested		
9.	NAAC accreditation (enclose copy)	Yes..... ✓  Period of accreditation (2015-2020) <b>Grade A (CGPA 3.13)</b>  If not, details of the application submitted to NAAC	No.....
10.	NBA accreditation (enclose copy)	Courses  Period of accreditation  Grade  If not, details of the application submitted to NBA	Application submitted for B. Tech. Ceramic Technology Course and Peer team visit awaited.
11.	Type of Institution/College (Govt./Private/Aided etc.)	<b>Govt. College</b>	
12.	Whether College is self financed	Yes.....	No..... ✓
13.	Whether proposal forwarded by affiliating university	Yes..... ✓	No.....
14.	Courses run by the Institute at the time of grant of autonomy	B. Tech. 1.Ceramic Technology, 2.Information Technology and 3.Computer Science & Engineering M. Tech. 1.Ceramic Technology 2.Information Technology	
15.	New Courses/programmes added during the period of autonomy	Proposal for M. Tech. in Computer Science with specialization with Artificial Intelligence was already submitted to AICTE and approval awaited.	

<p>Students strength Intake of M.Phil/Ph.D. students per years</p>	<p>543 numbers</p>
<p>Teaching Learning methods adopted by the College</p>	<p>All teaching –learning processes are being conducted through ICT and are outcome based.</p> <p>The college has subscribed “Google G Suite for Education” for conducting online classes and assessment with a provision of video recording.</p> <p>The Google classroom embedded with Google Meet under G Suite is being used to carry out lectures and organise various classroom activities like conducting quiz, taking assignments and passing on study and reference materials.</p> <p>Industrial training is mandatory in the curriculum to expose students in industrial set up.</p> <p>The Institute encouraged and facilitated the scope of online internship and FDP opportunities for both students and teachers during Covid-19 pandemic period.</p> <p>Seminars and workshops are organised on the different relevant topics inviting experts from industry and academia to upgrade students with cutting edge technology.</p> <p>Several lectures by eminent persons from industry and academia have been organised in virtual mode.</p> <p>A YouTube channel in the name of the College has been subscribed which is functioning as a repository for webinars, virtual workshops, conferences as online learning resources during this pandemic for use of all stake holders.</p> <p>In line with AICTE model curriculum 2018, the Institute has organised three weeks Induction Programme comprising of inspiring lectures, industry visits, lectures by industry experts, entrepreneurs, social activists, psychologists to groom the new entrants to enthuse them to be responsible global citizens.</p> <p>The academic schedule for final year students has been made flexible in order to facilitate completion of a project in Research Institute and Industry.</p> <p>Remedial classes are arranged for slow learners. Students are mentored at micro level by tagging each faculty to a small group of students. This Institute also has a provision of structured student counselling in a periodic manner through professional counsellors.</p> <p>This institute gives more emphasis on continuous evaluation of students both in theory of sessional paper through seminar demonstration, assignments, micro teaching, flip teaching, disruptive teaching etc.</p> <p>The Institute is functioning as a local chapter of NPTEL.</p>

Examination reforms by the College		<p>To bring transparency in evaluation system, students are allowed to view their evaluated answer script of semester end and midterm examinations before publication of final result.</p> <p>As a part of continuous internal assessment two (2) midterm examinations are held during each semester.</p> <p>Extreme confidentiality is maintained in respect of setting question paper as one set out of two submitted by paper setter is arbitrarily chosen by the Chief Controller of Examinations.</p> <p>The question papers are set adhering to the course objectives of the particular course for onward mapping of direct attainment of course outcome.</p> <p>In view of the pandemic situation due to COVID-19, a new method of on-line evaluation of students in the form of on-line quiz, on-line MID term and end semester examinations have been successfully implemented.</p> <p>Apart from on-line MCQ examinations, an on-line viva-voce examination was also conducted successfully as a component of whole evaluation system during this pandemic.</p>
20.	Whether College website is available and information about courses, fee structure, faculty, admission procedure, infrastructure, research activities, details of Ph.D. students available on the website?	<p>Yes.</p> <p>Website: <a href="http://www.gcect.ac.in">www.gcect.ac.in</a></p>
21.	Status of utilization of grants	Annexure IV attached.
18.	Full Bank Details (mandate form)	<p>Bank Name: State Bank of India, Beliathata Branch</p> <p>Account No: 32892925783</p> <p>IFS Code: SBIN0001798</p>

*K. Chakrabarti*

**Principal (Sign & Seal)**

Krishnapada Chakrabarti

Principal

Govt. College of Engg. & Ceramic Technology,  
Kolkata-700010

**Registrar/Dean of the University (Sign & Seal)**

PROGRESS REPORT OF COLLEGE (AUTONOMOUS)

(To be furnished in duplicate by the principal of the college)  
**Progress Report for the Academic Year 2019-2020**

1. Date when autonomy was first given by UGC: 2012
2. Year in which last external evaluation was done
  - a. By managing society:
  - b. By university
  - c. NAAC Peer Team in 2015
  - d. Autonomy extension peer team in 2018
3. Annual evaluation done by the college during the year under review --- Academic Audit Committee
4. Number of courses modified, stopped or started during the year (Give names of courses): NIL
5. If external evaluation done during the year, attach report: NIL
6. Progress of expenditure:

ITEM	Unutilized Grant available from Previous year 2018-19	Grant received from UGC during the year	Expenditure during the year 2019-20	Unspent balance	Remarks
Renovation of college building	2,26,262	800000	470000		
Remuneration to Guest and Visiting faculty	3,62,500		165000		
Procurement of books	274879		3530		
Honorarium to Controller of Examinations	96000		96000		
Expenditure for meeting	11700		67065		
Total	971341		801595		

Place

Date:

Signature:

Name:

Designation:  
(Principal)

*K. Chakraborty*  
 Krishnendu Chakraborty  
 Principal  
 Govt. College of Engg. & Ceramic Technology  
 Kolkata-700010

## UTILISATION CERTIFICATE

It is certified that the amount of Rs.801595.00(Rupees Eight lakh one thousand five hundred and ninety-five only) out of the total grant of Rs. 10,00,000 of which Rs 8,00,000.00(Rupees eight lakh only) has already been disbursed to Govt. College of Engineering & Ceramic Technology, Kolkata by the University Grants Commission vide its letter number ACW/001/12-13 date 17.09.2009 towards Autonomous Grants under UGC Autonomy scheme has been utilised for the purpose for which it was sanctioned and in accordance with the terms and conditions as laid down by the Commission.

**If, as a result of check or audit objection, some irregularities are noticed at a later stage, action will be taken to refund, adjust or regularize the objected amount.**

**Signature**

*K. Chokral*

**Principal with**

*Principal*  
Govt. College of Engineering  
seal & Ceramic Technology  
Kolkata-700010  
Govt. of West Bengal

**Signature**

*(Supradip Basu)*

**Statutory Auditor of the College with**

**seal/ Chartered Accountant with seal**

**and Registration No. 323913E**

PA SUPRADIIP BASU & CO.  
CHARTERED ACCOUNTANTS  
FRN 323913E

**TO WHOM IT MAY CONCERN**

It is hereby certified that an amount of Rs. 801,595/- has been spent out of Autonomy Grant of Rs. 800,000/- received from UGC (vide sanction letter ref. No. ACW/001/12-13 dt. 17-09-2019) for the financial year 2019-20. The extra amount of Rs. 1595/- has been spent from receipts borrowed from College fund as per Receipts and Payments Accounts enclosed. All expenditures are within budget as per UGC norms and guidelines.

Place: Kolkata  
Date: 22-01-2021



**For SUPRADIP BASU & CO**  
Chartered Accountants  
Firm's Registration No. 323913E

*(Signature)*  
(SUPRADIP BASU)  
(PROPRIETOR)  
Membership No. 052619  
UDIN: 21052619AAAABQ5603



Details of Expenditure with respect to autonomy grant of U.G.C. & utilized under different heads during the financial year 2019-2020

Page: 01

SL.No.	Item	Bill/Voucher No. with date	Payment Date	Amount (Rs.)
A.	General Expenditure			
A(1)	Honorarium to Controller of Examination:- Krishnendu Dutta			
		E/4 dt. 06.05.19 ✓	07.05.19 ✓	8000.00 ✓
		E/7 dt. 03.06.19 ✓	04.06.19 ✓	8000.00 ✓
		E/10 dt. 09.07.19 ✓	09.07.19 ✓	8000.00 ✓
		E/14 dt. 01.08.19 ✓	08.08.19 ✓	8000.00 ✓
		E/16 dt. 05.09.19 ✓	05.09.19 ✓	8000.00 ✓
		E/19 dt. 26.09.19 ✓	27.09.19 ✓	8000.00 ✓
		E/22 dt. 31.10.19 ✓	06.11.19 ✓	8000.00 ✓
		E/26 dt. 03.12.19 ✓	04.12.19 ✓	8000.00 ✓
		E/28 dt. 02.01.20 ✓	04.02.20 ✓	8000.00 ✓
		E/33 dt. 05.02.20 ✓	07.02.20 ✓	8000.00 ✓
		E/36 dt. 03.03.20 ✓	05.03.20 ✓	8000.00 ✓
	Partha Halder	E/2 dt. 20.04.20 ✓	20.04.20 ✓	96000.00 ✓



K. Chakrabarti  
Principal  
Govt. College of Engineering  
& Ceramic Technology  
Kolkata - 700 010  
Govt. of West Bengal

25/04/21  
Accounts Officer  
Govt. College of Engineering  
& Ceramic Technology, Kolkata

A(2)	<b>Library equipments, Books:-</b> Academic India	BG/19 dt .03.06.19	07.06.19	3530.00
A(3)	<b>Expenditure for meeting:-</b> Kalpana Saha Roy & Mousumi Moitra Mazumder Tarak Paul	BG/38 dt .17.07.19	24.07.19	4210.00
	Sremanta Kumar Patra	BG/50 dt .13.08.19	20.08.19	1100.00
	Appayan Caterer	E/27 dt. 20.12.19	24.12.19	1192.00
	Appayan Caterer	E/5 dt. 15.05.19	16.05.19	11392.00
	Appayan Caterer	E/30 dt. 15.01.20	16.01.20	16796.00
	Appayan Caterer	E/29 dt. 06.01.20	06.01.20	11215.00
	Mousumi Moitra Mazumder	UGC/GCECT/04/19- 20 dt. 24.02.20	28.02.20	1511.00
	Mousumi Moitra Mazumder	UGC/GCECT/02/19- 20 dt. 13.12.19	17.12.19	2842.00
	Ranjan Roy	UGC/GCECT/03/19- 20 dt. 09.01.20	10.01.20	1500.00
	Appayan Caterer	E/2 dt. 29.04.19	02.05.19	14185.00
	Saibal Roy	BG/65 dt. 26.09.19	17.10.19	1122.00
				67065.00
A(4)	<b>Renovation of College Building:-</b> Roopkatha Construction	UGC/GCECT/01/19- 20 dt. 05.11.2019	07.11.19	4,70,000.00
A(5)	<b>Honorarium for Guest/ Faculty:-</b> Prithwijit Guha	E/8 dt. 18.06.19	24.06.19	45000.00
		E/17 dt. 26.09.19	30.09.19	45000.00
		E/37 dt. 04.03.20	06.03.20	75000.00
				1,65,000.00



K. Chakrabarty

Principal

Govt. College of Engineering  
& Ceramic Technology  
Kolkata - 700 010  
West Bengal

Accounts Officer

Govt. College of Engineering  
& Ceramic Technology, Kolkata

25/04/21

**GOVERNMENT OF WEST BENGAL**  
**GOVT. COLLEGE OF ENGINEERING & CERAMIC TECHNOLOGY**  
**73, ABINASH CHANDRA BANERJEE LANE, KOLKATA- 700 010**

**Receipts and payment Accounts of autonomy Grant received from UGC for the financial year 2019-20 and the excess of amount spent / paid over receipts borrowed from college fund for the financial year ending 31<sup>st</sup> march 2020 (2019-20).**

Sl no.	Receipts	Amount (Rs.)	Payments	Amount (Rs.)
01	Amount borrowed from college fund for utilization of money under different heads (within budget) as per UGC allocation	1595.00	1. Honorarium to controller of examination	96000.00
			2. Remuneration of Guest/ Visiting faculties	1,65,000.00
			3. Expenditure for Book(library) & Library equipments	3530.00
			4. Expenditure for meeting	67065.00
02	Fund received from UGC (sanction letter reference no. ACW-001/12-13 dated- 17.09.2019.	8,00,000.00	5. Renovation of College Building	470000.00
		<b>8,01595.00</b>		<b>8,01595.00</b>

Place: Kolkata

Date: 22/01/2021



*K. Chakrabarti*  
**Principal**  
**Govt. College of Engineering & Ceramic Technology**  
**Kolkata-700019**  
**Govt. of West Bengal**

*Chitra 25/01/21*  
**Accounts Officer**  
**Govt. College of Engineering & Ceramic Technology, Kolkata**

# **Academic Audit Report**

**(July 2018 to June 2019)**

**Background:**

The academic audit Committee of Govt College of Engg and Ceramic Technology has been constituted in October, 2012 to consider and review the Institute's mechanism for monitoring and enhancing academic quality and standard necessary for achieving their stated aims and objectives. Since its formation, the committee has administered academic audit for each academic year.

**Process of audit:**

The process of audit requires a self-review in which the Institute evaluates its progress towards achieving its objectives related to the areas of the audit and identifies areas for improvement.

The committee holds meeting in the beginning and end of each academic year to discuss details of intended plans and strategies with respect to enhancement initiatives and assess the measure practised during the academic session.

The audit panel comprises of head of Departments, selected members of faculty and external members. The panel visits the departments to check and verify the academic practices laid down by the committee for evaluation and drafts an audit report. The report commends good practice and makes recommendations intended to assist the Institute in its own programme of continuous improvement of quality. The audit report is put up to the Internal Quality Assurance Cell (IQAC) for monitoring and follow up activities.

## **Areas of Academic audits:**

### **1. Infrastructural Development:**

- a. The Institute has five (5nos) Smart Class rooms with wall mounted projectors, smart board and interactive system.
- b. All other class rooms are functioning with Projector facility.
- c. Boys' Hostel is functioning fully accommodating 30 students.
- d. The College campus including class rooms and laboratories are under CCTV surveillance.
- e. On-line grievance redressal portal is established in college website to comply with mandatory requirements of AICTE.
- f. Institute is a local chapter of NPTEL.
- g. Institute has procured lectures in digital form on different subjects delivered by prominent teachers of Premier Institutes, to be accessed by the students in the library.
- h. Fully automated student management software is functioning.
- i. This Institute has spent Rs. 53, 87,991/- for upgradation and modernisation of laboratories of different departments during the academic year 2018-2019.

### **Commendations:**

- (1) The panel commended the Institute for creating nice ambience with smart class room, CCTV surveillance many others for a congenial academic environment.
- (2) Panel appreciated the Institute's approach of paradigm shift from traditional process of admission, attendance etc to on-line process.

### **Recommendations:**

- (1) The committee recommended inclusion of more smart class rooms to cater ICT enabled teaching-learning process.
- (2) They also recommended creation of girls' hostel to accommodate girls students coming from different parts of the state.

## 2. Teaching – Learning:

- a. All teaching –learning process are through ICT and outcome based.
- b. Industrial training is mandatory in the curriculum to expose students in industrial set up.
- c. Seminars and workshops are organised on the different relevant topics inviting experts from industry and academia to upgrade students with cutting edge technology.
- d. In line with AICTE model curriculum 2018, the Institute has organised three weeks Induction Programme comprising of inspiring lectures, industry visits, lectures by industry experts, entrepreneurs, social activists, psychologists to groom the new entrants to enthuse them to be responsible global citizens.
- e. Remedial classes are arranged for slow learners.
- f. Students are mentored at micro level by tagging each faculty to a small group of students. This Institute also has a provision of structured student counselling in a periodic manner through professional counsellors.
- g. This institute gives more emphasis on continuous evaluation of students both in theory of sessional paper through seminars demonstration, assignments, micro teaching, flip teaching, disruptive teaching etc.

### **Commendations:**

The panel praised the Institute's initiative to holding Induction programme to orient the young minds of fresher with the engineering system and acclimatise them with the new outcome based education system as per NBA guide lines.

### **Recommendations:**

- (1) The committee recommended inclusion of more industry oriented elective paper in final year UG programme after receiving suitable feedback from Industry.
- (2) They also recommended a provision of credit transfer for final year UG student while they are engaged in internship in different industry in our country and abroad.

### 3. Curriculum reforms:

- a. As per AICTE Model 2018, the Institute has offered two different programmes in UG level viz. B.Tech and B.Tech (H)
- b. The Institute also gives more emphasis on MOOCS and made provision in their curriculum for conferment of B. Tech with Honours degree. A student has to earn 20 additional credits through MOOCS over and above all the existing courses taught in the college for conferment of Honours degree.
- c. Course curriculum has thoroughly been restructured from 2018-2019 academic session and restricting the total credit to 160 conforming to AICTE model 2018.
- d. All laboratory classes have been made sessional in the new curriculum and they are to be evaluated through continuous assessment comprising of experiment conduction, note book writing, viva, attendance, skills etc.
- e. There is a provision of assessment of students' performance in lab paper through a panel of external experts of respective field in the name of comprehensive Lab assessment in each semester.
- f. The new curriculum gives more importance on industry driven elective papers based on the feedback of employer, alumni and other stakeholders.
- g. There is a provision for mandatory course on social justice, environmental awareness, right to information in the course curriculum of the Institute.
- h. All courses are framed mentioning the objectives and course outcomes.

**Commendations:** the committee appreciated the Institution's prioritising continuous evaluation system introducing 50 percent weightage to it.

**Recommendations:** The panel recommended inclusion of more on-line courses and encourage students to upgrade themselves with cutting edge technology where necessary experts are not available in the Institute.

### 4. Evaluation Process:

- a. To bring transparency in evaluation system, students are allowed to view their evaluated answer script of semester end and midterm examinations before publication of final result.



- b. As a part of continuous internal assessment two (2) midterm examinations are held during each semester.
- c. From academic session 2018-19, grading system are converted to CGPA from old YGPA/DGPA system to keep pace with all India system of grading.
- d. To improve quality of education and level of competence of students, minimum qualifying marks of both theory and sessional items have been raised to 50%.
- e. Extreme confidentiality is maintained in respect of setting question paper as one set out of two submitted by paper setter is arbitrarily chosen by the Chief Controller of Examinations.
- f. The question papers are set adhering to the course objectives of the particular course for onward mapping of direct attainment of course outcome.

**Commendation:** The panel appreciates the Institute's approach of viewing evaluated answer script to the students before the publication of final results as a unique measure of transparency in evaluation system.

**Recommendation:** The panel recommends changing the pattern of question paper as per NBA guidelines.

#### **5. Students' performance:**

The results of the 1<sup>st</sup> and 2<sup>nd</sup> semester are given in a pie chart as **Annexure -1**. The feedback of students about cause of failure in 1<sup>st</sup> semester examination held in December, 2018 is displayed in **Annexure-2**.

**Commendation:** The committee found that performance of students in 2<sup>nd</sup> semester is much better than that in 1<sup>st</sup> semester. This is perhaps due to the strict enforcement of new academic regulation which compulsorily made the students much more attentive and regular in class. As a result they started performing much better in examinations (both mid semester and end semester).

**Recommendation:** Based on critical analysis of students' feedback of unsuccessful candidates, the panel recommended arranging classes for betterment of their English communication skill.

## 6. Research

### Research Committee

- i. Review of research projects of faculty: A good number of projects are sanctioned to faculty of each department. Main sponsoring authorities are Department of Sc and Technology (DST, Delhi); University Grants Commission (UGC, Minor and Major); Department of Sc and Tech (DST, WB).
- ii. Research students and research supervision: Eight research fellows are working in this Institute under different Govt. Sponsored projects. Six faculty members are guiding these fellows.
- iii. Provision of space and resources to post graduate and PhD students for research work:
- iv. Participation of students in seminars, conferences and publication of papers.

Final year students and third year students were allowed to attend conference and presented their research work.

**Commendation:** The committee appreciates the research activities undertaken at the Institute level and the output there from in respect of publications, awards, presentation in conferences. They also commend the Institute's intention to encourage the research interest amongst faculty and students.

**Recommendation:** The panel encourages faculties to complete their Doctoral degrees and encourages students to involve themselves in research.

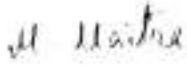
## Acknowledgements

The audit panel thanks all those who contributed to the Institute's self-assessment process and compilation of the self-assessment report. The panel is most grateful for the openness and frankness of who spared their time to appear before the panel and for their constructive comments and observations.


### Audit Panel:

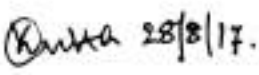
Dr. Sankar Ghatak (External Member) 

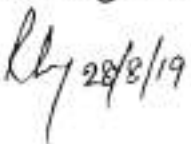
Head of the Department – Ceramic Technology

Head of the Department - Information Technology 

Head of the Department – Computer Sc and Engg 

Head of the department of Basic Sc, Engg and Humanities 

Controller of Examinations  28/8/17.

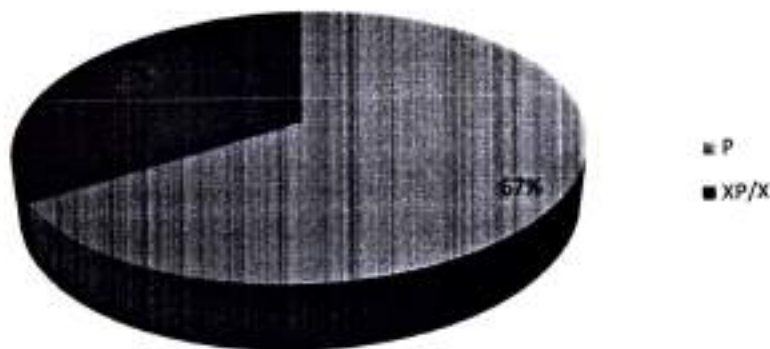
Prof. Ranjan Roy  28/8/19

IT 2nd Sem 2019



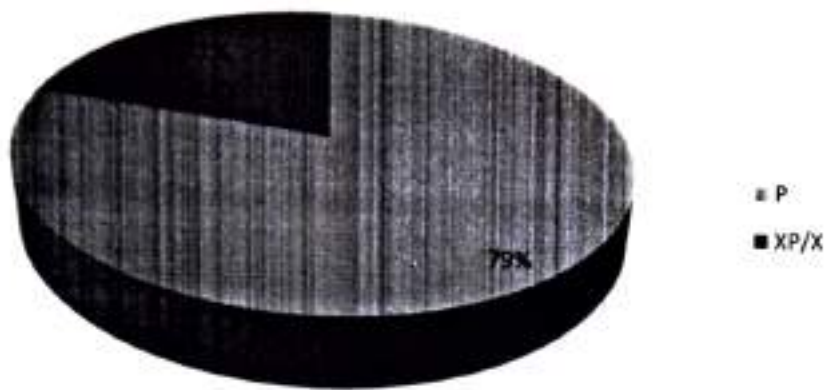
B.Tech(IT) 2ndSem2018-19 Result

IT Ist Sem 2018



B.Tech(IT) IstSem2018-19 Result

### CSE 2nd Sem 2019



### B.Tech(CSE) 2ndSem2018-19 Result

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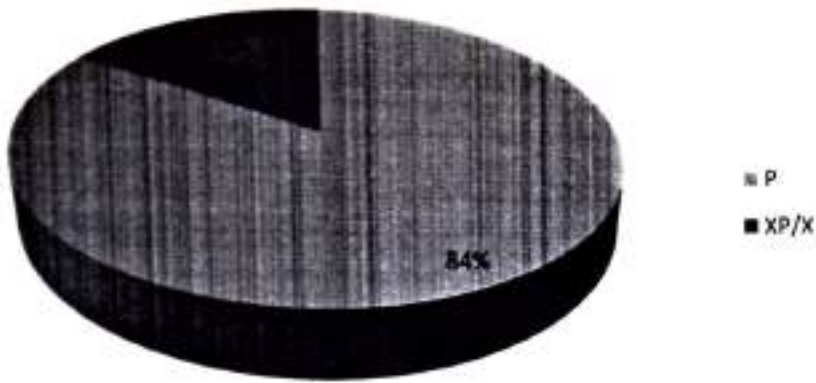
### CSE Ist Sem 2018



### B.Tech(CSE) IstSem2018-19 Result

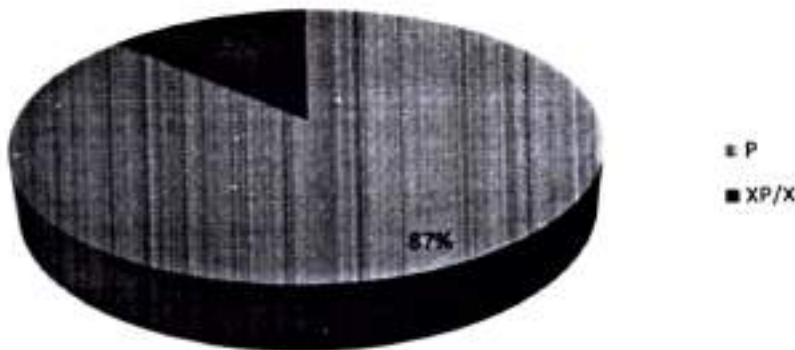
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CT 2nd Sem 2019



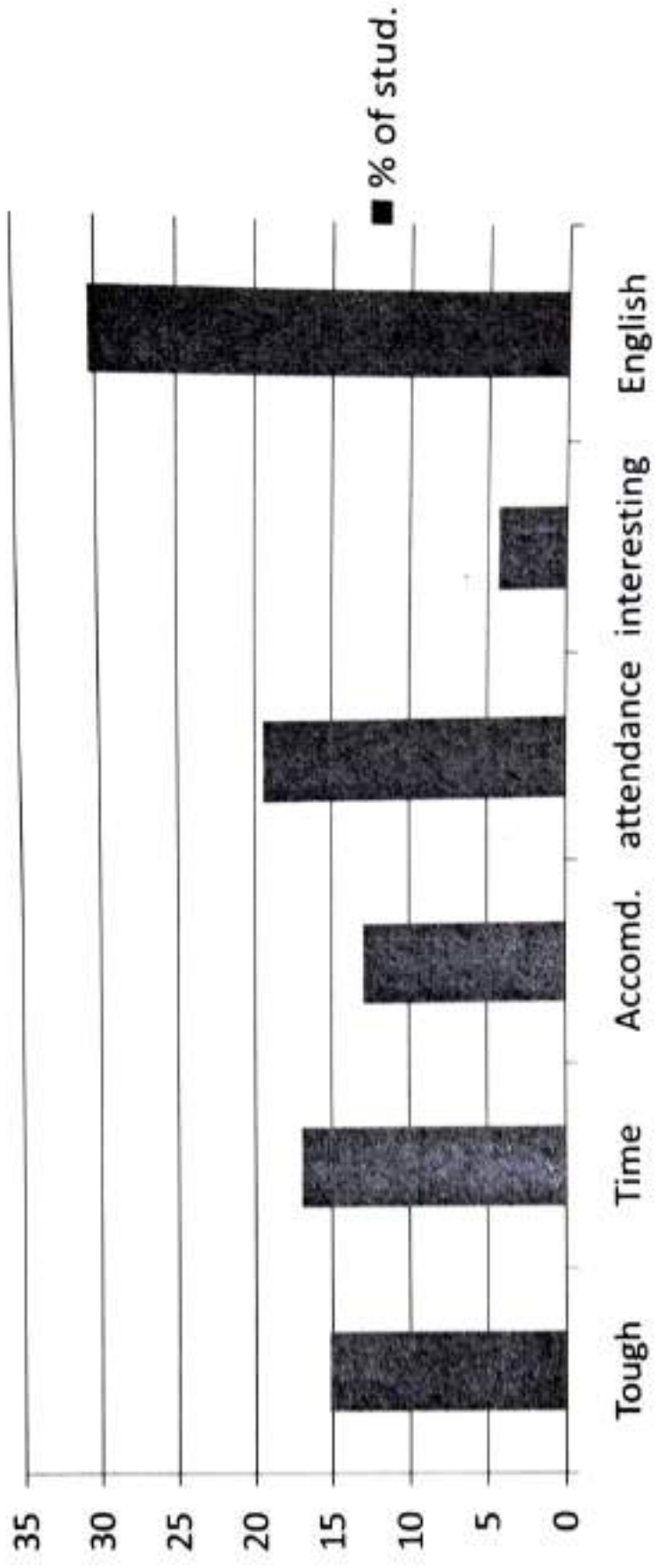
B.Tech(CT) 2nd Sem 2018-19 Result

CT Ist Sem 2018



B.Tech(CT) IstSem 2018-19 Result

# Feedback of students about cause of failure in 1<sup>st</sup> semester examination held in December 2018



**GOVT. COLLEGE OF ENGINEERING & CEREMIC TECHNOLOGY**

**CERTIFICATE FOR UGC AUTONOMY GRANT FOR 2018-2019**

**SUPRADIP BASU & CO**

**CHARTERED ACCOUNTANTS**

**23, SHYAMPUKUR STREET. KOLKATA - 700004**



**AUDITORS CERTIFICATE**

It is certified that an amount of Rs.9,71,341/- (Rupees nine lakhs seventy one thousand three hundred forty only ) has been borrowed from college fund and utilized under different heads with respect to autonomy grand during the financial year 2018-2019 (Within Budget) as per UGC norms and guidelines as per detailed expenditure Annexure and Receipts payment A/C for the year ending 31-03-2019

Place : KOLKATA

DATE : 25/07/19

FOR SUPRADIP BASU & CO .

CHARTERED ACCOUNTANTS

For SUPRADIP BASU & CO.  
CHARTERED ACCOUNTANTS  
FRN 323913E  
FRN 323913E

  
(SUPRADIP BASU)

SUPRADIP BASU  
M/NO 052619

PROPRIETOR

M/NO 052619

UDIN 19062619 A AAAA 53927

# Govt. College of Engineering & Ceramic Technology

73, Abinash Chandra Banerjee Lane.

Kolkata- 700010

Receipts and payment Accounts of autonomy Grant borrowed from college fund for the financial year ending 31<sup>st</sup> March 2019 (2018 -2019)

Receipts	Amount(Rs)	Payments	Amount (Rs)
Amount Borrowed from college fund for utilization of money under different heads (within budget) as per UGC allocation norms.	9,71,341.00	1) Honorarium to controller of Examination 2) Remuneration to Guest / Visiting Faculties 3) Expenditure for Book ( Library) 4) Expenditure for meeting 5) Renovation of college Building	96000.00 3,62,500.00 2,74,879.00 11,700.00 2,26,262.00
	9,71,341.00		9,71,341.00

Place : Kolkata

Date : 25-07-2019



For SUPRADIP BASU & CO.  
CHARTERED ACCOUNTANTS  
FRN 323913E

(SUPRADIP BASU)  
Proprietor  
M/No 062619

K. Chakrabarty

Principal

Govt. College of Engineering  
& Ceramic Technology  
Kolkata-700010  
Govt. of West Bengal



Accounts Officer  
Govt. College of Engineering  
& Ceramic Technology, Kolkata

UDIN 19052619AAAAAS3927

# Govt. College of Engineering & Ceramic Technology

73, Abinash Chandra Banerjee Lane.

Kolkata- 700010

Details of Expenditure with respect to autonomy grant borrowed from college fund & utilized under different heads during the financial year 2018-2019

Sl. No.	Item	Bill/ Voucher No. & Date	Payment Date	Amount (Rs)
A. General Expenditure				
-----				
A(1) Honorarium to controller				
of Examination :-				
Prof. Krishnendu Dutta	E/3 dt 4.5.18		4.5.18	8000.00
	E/6 dt 4.6.18		4.6.18	8000.00
	E/13 dt 4.7.18		4.7.18	8000.00
	E/16 dt 4.8.18		4.8.18	8000.00
	E/21 dt 4.9.18		4.9.18	8000.00
	E/28 dt 3.10.18		3.10.18	8000.00
	E/31 dt 5.11.18		5.11.18	8000.00
	E/34 dt 4.12.18		4.12.18	8000.00
	E/39 dt 3.1.19		3.1.19	8000.00
	E/46 dt 4.2.19		4.2.19	8000.00
	E/49 dt 5.3.19		5.3.19	8000.00
	E/52 dt 29.3.19		29.3.19	8000.00
				96000.00

K. Chakraborty  
Principal  
Govt. College of Engineering  
& Ceramic Technology  
Kolkata-700010  
Govt. of West Bengal

Accounts Officer  
Govt. College of Engineering  
& Ceramic Technology, Kolkata



Remuneration to Guest /  
Visiting Faculties :-

Gopal Pramanick	BG/27 dt 1.6.18	1.6.18	5000.00
Debadreeta Das	-do	-do	1500.00
Somnath Banerjee	-do	-do	5000.00
Rayan Saptarshi Roy	-do	-do	5000.00
Prasanta Narayan Dutta	BG/32 dt 6.6.18	6.6.18	6000.00
Santosh Kr. Banerjee	-do	-do	3000.00
Onker Nath Mukherjee	BG38 dt 11.6.18	11.6.18	8750.00
Sangita Ghosh	BG/55 dt 2.7.18	2.7.18	15500.00
Santosh Kr. Banerjee	BG/56 dt 4.7.18	4.7.18	9000.00
Aditi Bhattacharya	-do	-do	9000.00
Kuntal Mondal	-do	-do	15000.00
Debadreeta Das	BG/67 dt 16.7.18	16.7.18	1250.00
Rayan Saptarshi Roy	-do	-do	3000.00
Gopal Pramanick	-do	-do	3000.00
Susmita Samaddar	-do	-do	5000.00
Bidisha Ghosh	BG/70 dt 16.7.18	16.7.18	3750.00
Somnath Banerjee	-do	-do	5000.00
Onker Nath Mukherjee	-do	-do	10000.00
Firoj Md	BG/107 dt 30.8.18		3500.00
Onker Nath Mukherjee	BG/121 dt 25.9.18	25.9.18	10000.00
Sharmistha Mondal	BG/128 dt 10.10.18	10.10.18	2500.00
Firoj Md	-do	-do	3500.00
Chitrita Dasgupta	-do	-do	7250.00
Pickon Majumder	BG/129 dt 11.10.18	11.10.18	3000.00
Dipanwinta Ghosh	BG/142 dt 14.11.18	14.11.18	4000.00

K. Chakrabarti

Principal  
Govt. College of Engineering  
& Ceramic Technology  
Kolkata-700310  
Govt. of West Bengal

Accounts Officer  
Govt. College of Engineering  
& Ceramic Technology, Kolkata



Ananya Biswas	-do	-do	4000.00
Dipika Dhara	-do	-do	3000.00
Rayan Saptarshi Roy	-do	-do	4500.00
Santosh Kr. Banerjee	BG/143 dt 14.11.18	14.11.18	4000.00
Somnath Banerjee	-do	-do	5000.00
Susmita Samadder	-do	-do	5000.00
Bidisha Ghosh	-do	-do	5000.00
Chitrita Dasgupta	BG/168 dt 10.12.18	10.12.18	7500.00
Firoj Md	-do	-do	6500.00
Gopal Pramanick	-do	-do	4000.00
Onker Nath Mukherjee	-do	-do	12000.00
Ruma Mallick	BG/170 dt 11.12.18	11.12.18	5000.00
Pickon Majumder	-do	-do	3000.00
Sharmistha Mondal	-do	-do	3500.00
Ananya Biswas	-do	-do	10000.00
Dipanwinta Ghosh	-do	-do	10000.00
Rayan Saptarshi Roy	BG/171 dt 11.12.18	11.12.18	10000.00
Somnath Banerjee	-do	-do	10000.00
Susmita Samadder	-do	-do	13750.00
Dipika Dhara	-do	-do	10000.00
Santosh Kr. Banerjee	-do	-do	8000.00
Bidisha Ghosh	-do	-do	10000.00
Kuntal Mondal	BG/191 dt 15.1.19	15.1.19	4500.00
Ruma Mallick	-do	-do	12500.00
Dipanwinta Ghosh	-do	-do	7250.00
Dipika Dhara	-do	-do	8000.00
Ananya Biswas	-do	-do	7250.00

*K. Chokidol*  
Principal  
Govt. College of Engineering  
& Ceramic Technology  
Kolkata-700013  
Govt. of West Bengal

  
Accounts Officer  
Govt. College of Engineering  
& Ceramic Technology, Kolkata



*Manik Banerjee*  
*Anam Saptarshi Roy*  
*Susmita Samadder*  
*Gopal Pramanick*

BG/197 dt 28.1.19	28.1.19	8000.00
-do	-do	8000.00
-do	-do	3750.00
-do	-do	2000.00
		<hr/>
		3,62,500.00

A (3) Expenditure for Book ( Library)

Academic India	BG/217 dt 26.2.19	26.2.19	<hr/> 2,74,879.00
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A (4) Expenditure for meeting

Mousumi Moitra Majumder	BG/219 dt 28.2.19	28.2.19	2700.00
Appayan Caterar	BG/219 dt 28.2.19	28.2.19	7500.00
Mousumi Moitra Majumder	BG/57 dt 4.7.19	4.7.19	1500.00
			<hr/>
			11700.00

A (5) Removation of college Building

R.K.Enterprise	BG/46 dt 26.6.18	26.6.18	70560.00
Roopkatha Constraction	BG/74 dt 19.7.18	19.7.18	99232.00
R.K.Enterprise	BG/130 dt 11.10.18	11.10.18	21280.00
R.S. Traders	BG/59 dt 10.7.18	10.7.18	27350.00
R.S. Traders	BG/99 dt 13.8.18	13.8.18	7840.00
			<hr/>
			2,26,262.00



*K. Chakrabarti*  
Principal  
Govt. College of Engineering  
& Ceramic Technology  
Kolkata-700010  
Govt. of West Ben

Accounts Officer  
Govt. College of Engineering  
& Ceramic Technology, Kolkata

# Academic Audit Report

2017-  
(July-June, 2018)

## **1. Background**

The Academic Audit Committee of Govt. College of Engineering and Ceramic Technology has been constituted in October, 2012 to consider and review the Institute's mechanism for monitoring and enhancing academic quality and standards necessary for achieving their stated aims and objectives. Since its formation, the Committee has administered academic audit for 7 semesters - January-June'2013, July-December'2013, January-June'2014, July-December'2014, January-June'2015, July-December'2015, January-June'2016, July-December'2016, January'2017-June'2017, July'2017-December'2017 and Jan'2018-July'2018.

## **2. Process of Audit**

The process of audit requires a self-review in which the Institute evaluates its progress towards achieving its objectives related to the areas of the audit and identifies areas for improvement.

The Committee sits in the beginning and end of each semester to discuss details of intended plans and strategies with respect to enhancement initiatives and evaluate the measures practiced during the academic session.

The audit panel comprises of Heads of Departments, selected members of faculty and external members. The panel visits the departments to check and verify the academic practices laid down by the committee for evaluation and drafts an Audit Report. The report commends good practice, and makes recommendations intended to assist the Institute in its own programme of continuous improvement of quality. The audit report is put up to the Internal Quality Assurance Cell (IQAC) for monitoring of follow up activities.

## **3. Areas of Academic Audit:**

### **A. Review of End Semester Examination Results of 1<sup>st</sup> Year**

The panel observed that there was a significant increase in the number of failures in first year subjects in the present academic session.

#### **Recommendation:**

- It was recommended that more stress should be given in the number of tutorial classes for the subjects taught in first year.
- It was decided to give a report to the respective subject teachers.
- Counselling of students should be done to improve their success rate.
- It was also suggested to identify whether the same set of students had failed in all the subjects.
- It was decided that the trend in first year results of subsequent years would be analysed.
- The results of students in subsequent years would also be analysed.
- It was decided to conduct bridge courses of subjects in which students had low score in their 12<sup>th</sup> standard.



## **B. Student Feedback on Faculty Members**

The report on students feedback of teachers were analysed and the panel lauded the mode and regularity in which the feedback was taken by the respective Heads of Departments.

### **Recommendations:**

- It was suggested that the student's feedback would be taken twice each semester.
- It was suggested that the feedback form format should be recast.
- It was suggested that the name " Students Feedback" should be changed to "Feedback on Teaching and Learning"

## **C. Academic Infrastructure in College**

### **Recommendations:**

- Audio system with accessories to be introduced in classrooms
- Curtains in windows were required in classrooms and some laboratories.
- Whiteboard is required in classrooms
- It was decided that the smart classrooms would be used for M.Tech. students.
- The classrooms would be connected with wi-fi and access points have been purchased.
- It was decided that the students would be intimated of starting of academic session through SMS besides the academic calender.

## **D. Laboratories maintenance and overall ambience**

The following observations were made:

### Maintenance of Laboratories

- Regular check-up of computer machines are carried out at the end of each semester.
- Annual Maintenance Contract for Lab machines, printers, UPS etc. is given and is attended when they need repair.
  - Minor repairs are carried out by the lab technical staff
- Sufficient part-time teachers with M.Tech degree are available to run the course laboratories.
- Research Fellows also play a major role as qualified supporting staff to guide the students.
- Each student is allotted individual PC for the lab work assigned.

### Acknowledgements

The Audit Panel thanks all those who contributed to the Institute's self-assessment process and the compilation of the self-assessment Report. The panel is most grateful for the openness and frankness of those who spared their time to appear before the panel and for their constructive comments and observations.

#### Audit Panel:

Dr. Krishnendu Chakrabarty, Principal: *K. Chak*

Dr. Rituparno Sen, HOD(CT) *Rituparno Sen*

Dr. Mausumi Maitra, HOD (IT): *Mm*

#### Dr. Sankar Ghatak:

Dr. Somdatta Chakravorty, Convener: *Somdatta Chakravorty*

Dr. Kaberi Das : *KD*

Dr. Kalpana Saha (Ray): *KS*



GOVERNMENT OF WEST BENGAL  
 GOVERNMENT COLLEGE OF ENGINEERING & CERAMIC TECHNOLOGY  
 73, Abinash Chandra Banerjee Lane, Kolkata- 700010  
 Phone (033) 2370-1264 FAX (033) 2363-2072 / 2363-3675 E-mail: gcectwb@gmail.com

No: GCECT/GB-10/ 618 /2017

Date: 16-11-2017

**NOTICE**

The 10<sup>th</sup> meeting of Governing Body of Government College of Engineering & Ceramic Technology, Kolkata is scheduled to be held on 24<sup>th</sup> day of November, 2017 (Friday) at 12:30 PM at the Conference Room of the college to discuss the following agenda

1. Confirmation of the minutes of 9<sup>th</sup> Governing Body meeting.
2. Action Taken Report on the resolution of the 9<sup>th</sup> Governing Body meeting.
3. Ratification of the minutes of last FMC meeting.
4. Convocation Report.
5. Academic Council Report.
6. Extension of Autonomy.
7. Miscellaneous, if any.

All the members are hereby requested to make it convenient to attend the meeting.

*K. Chakrabarty*

Prof. K. Charkabarty]  
 Principal

&

Member Secretary, Governing Body  
Govt. College of Engineering & Ceramic Technology

**LIST OF MEMBER & INVITEES PRESENT IN THE  
10<sup>th</sup> GOVERNING BODY MEETING HELD ON 24/11/2017**

Name	Designation	Signature	Contact Number & E-mail ID
Prof. Binay K. Dutta	Chairman		
The Director of Technical Education, W.B. or his representative	Member		7434301654 dsaha328@gmail.com
Dr. Arup Chattopadhyay	Member	X	
Prof. Bimal Kr. Roy, Ex-Director, ISI	Member	X	
Dr. Rituparna Sen, GCECT, Kolkata	Member		
Mr. Ranjan Ray, GCECT, Kolkata	Member		
Prof. Mehtab Alam [UGC nominee]	Member	X	
Dr. Jaya Bandyopadhyay [University nominee]	Member		9836665794 jaya.bandyopadhyay@wbuet.ac.in
The HOD (IT), GCECT, Kolkata	Invitee		9830286280 mou1232005@yahoo.com
The HOD (CSE), GCECT, Kolkata	Invitee		9830048129 klpnsh@gmail.com
The HOD (BSEH), GCECT, Kolkata	Invitee	 24/11/2017	9433766682 debdipank@gmail.com " @rediffmail.com
The Controller of Examinations, GCECT, Kolkata	Invitee		
The Registrar, GCECT, Kolkata	Invitee	 24/11/17	
The Accounts Officer, GCECT, Kolkata	Invitee	 24/11/17	chandra.sd95@gmail.com 9073950260
Prof. P. Guha, Adviser Training & Placement	Invitee		9330903722
Students' representative	Invitee		9163893231
Principal	Ex-Officio-Member Secretary		932722749 chakrabarty90@gmail.com

**Draft Minutes of the 10<sup>th</sup> Governing Body meeting on 24<sup>th</sup> November, 2017  
at the Conference Room of the College at 12:30 PM**

**MEMBERS PRESENT**

Name with Designation	Status
<b>PROF. BINAY K. DUTTA</b> Visiting Professor, School of Environmental Science and Engineering, IIT, Kharagpur	Chairman
<b>DR. DHANANJOY SAHA</b> Deputy Director of Technical Education [Representative of Director of Technical Education]	Member
<b>DR. JAYA BANDYOPADHYAY</b> Head - Department of Biotechnology Maulana Abul Kalam Azad University of Technology, West Bengal [University Nominee]	Member
<b>PROF. RANJAN RAY</b> Associate Professor, Govt. College of Engineering & Ceramic Technology, Kolkata	Member
<b>PROF. RAM CHANDRA DAS</b> Associate Professor Government College of Engineering & Ceramic Technology, Kolkata [Representative of Prof. Rituparno Sen, Member, Governing Body]	Member
<b>DR. MAUSUMI MAITRA</b> Head – Department of Information Technology Govt. College of Engineering & Ceramic Technology, Kolkata	Invitee
<b>DR. KALPANA SAHA</b> Head – Department of Computer Science & Engineering Govt. College of Engineering & Ceramic Technology, Kolkata	Invitee
<b>DR. DEBDARPAN KHAN</b> Head – Department of Basic Science, Engineering & Humanities Govt. College of Engineering & Ceramic Technology, Kolkata	Invitee
<b>MR. JAYANTA KUMAR CHOWDHURY</b> Registrar, Govt. College of Engineering & Ceramic Technology, Kolkata	Invitee
<b>MR. CHANDRA SEKHAR DAS</b> Accounts Officer, Govt. College of Engineering & Ceramic Technology, Kolkata	Invitee
<b>DR. KRISHNENDU DUTTA</b> Controller of Examinations, Govt. College of Engineering & Ceramic Technology, Kolkata	Invitee
<b>PROF. PRITHWLJIT GUHA</b> Ex-Associate Professor Adviser, Training & Placement Cell Govt. College of Engineering & Ceramic Technology, Kolkata	Invitee
<b>MR. AVRANIL BASU</b> Secretary, Students' Welfare Association Govt. College of Engineering & Ceramic Technology, Kolkata	Invitee
<b>PROF. KRISHNENDU CHAKRABARTY</b> Principal, Govt. College of Engineering & Ceramic Technology, Kolkata	Ex-Officio Member Secretary

**Draft Minutes of the 10<sup>th</sup> Governing Body meeting on 24<sup>th</sup> November, 2017  
at the Conference Room of the College at 12:30 PM**

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**The following Members were granted leave of absence :**

1. Prof. Bimal Kr. Roy, Ex-Director, Indian Statistical Institute, Kolkata --- Member
2. Prof. Mehtab Alam (UGC nominee) --- Member

The Chairman welcomes all the members and invitees present in the meeting. Discussion as per Agenda is held at length and the resolutions adopted agenda-wise are being recorded below :-

AGENDA	RESOLUTION / PROCEEDINGS
1. Confirmation of minutes of 9 <sup>th</sup> GB meeting	With the permission of the Chair, the minutes of the 9 <sup>th</sup> Governing Body has been read out by the Member Secretary. After a brief discussion, it was accepted and confirmed unanimously.
2. To review the Action Taken Report arising out of the 9 <sup>th</sup> GB meeting	The Action Taken Report on the basis of Agenda items of the 9 <sup>th</sup> Governing Body meeting had been reviewed.
3. Ratification of the minutes of the last FMC meeting	The Accounts Officer of the college reported in brief the Minutes of the FMC meeting. Some major points are as following -----  (i) Payment of Six Nos. of staff engaged through agency (WEBEL) for the month of March, 2017. The payment to be made from Block Grant Fund. However, this is a stop gap arrangement. Initiative must be taken to get order regarding approval of this engagement from the Government.  (ii) The college authority proposed to engage Prof. Prithwjit Guha, Ex-Associate Professor (in-charge of Training & Placement) as an advisor (Training & Placement) for a period of one year @Rs.15000/- p.m. to be paid from the interest of the Corpus Fund with effect from 01.08.2017.
4. Convocation Report	The Coordinator reported the detailed report of 1 <sup>st</sup> Convocation of college. Governing Body greeted the college authority for successful completion of the program.
5. Academic Council Report	The Coordinator read out the minutes of the last meeting. The matter will be placed in the next meeting after duly ratified in the next Academic Council meeting.

**Draft Minutes of the 10<sup>th</sup> Governing Body meeting on 24<sup>th</sup> November, 2017  
at the Conference Room of the College at 12:30 PM**

<p>6. Extension of Autonomy</p>	<p>The Principal of the college informed that the present autonomy will expire in the month of September, 2018 and the college authority is contemplating to extend the autonomy further for a period of five years.</p> <p><b>Resolution :</b> Governing Body welcomed the view and requested all the teaching and non-teaching staff to cooperate with the college authority for successful implementation of the extension program.</p>
<p>7. Miscellaneous, if any</p>	<p>(i) Some faculty members informed that CAS is a long-pending issue for them. <b>Resolution :-</b> The matter to be communicated to the higher authority with the Approach Paper.</p> <p>(ii) The Principal informed that for regular attendance of the students, the college authority is contemplating to introduce automated attendance system.</p> <p>(iii) For vacant posts, the college authority will communicate with the higher authority.</p> <p>(iv) The HODs of department requested the college authority to enhance the honorarium/ DA/TA for the members of Board of Studies. <b>Resolution :-</b> The matter to be discussed in the next FMC meeting.</p> <p>(v) The NBA coordinator informed that the Ceramic Technology department qualified for stage 1; SAR will be submitted within 10.03.2018. The preparatory work in nearing completion.</p> <p>The Governing Body suggested that the NBA preparatory report should be reviewed by the external expert member.</p> <p><b>Resolution:-</b> It was resolved that the NBA draft report to be prepared by May, 2018.</p>

There being no other business to transact, the meeting ended with vote of thanks to and from the Chair.

## Minutes of the 34<sup>th</sup> F.M.C. meeting held on 24.07.2017

- 1) It has been decided to ensure that students have paid tuition fee before submission of form for semester examination.
- 2) Purchase of ERP (end to end) software formally approved (for student admission, fees collection, exam results, mark sheets, certificate etc.)
- 3) Old certificates which could not be handed over to candidates due to non-availability of candidates are quite a plenty in number and are kept in the academic section.

It is resolved that letters would be sent to such candidates for immediately taking the certificates giving a certain time, beyond which the college authority has no responsibility over those left out certificates.

- 4) A separate ledger folio is to be maintained for each student from 2017-18 entry batch for keeping records of all sorts of fees viz. Tuition fees, examination fees, etc.
- 5) Payment of 06 staff engaged through agency (WEBEL) for the month of March<sup>rd</sup> 17 and April<sup>th</sup> 17 to Sept<sup>th</sup> 17 @ Rs. 68,448/- p.m. to be paid from Block Grant Fund. This is a stop gap arrangement. Initiative must be taken in the mean time to get order regarding approval of this engagement from the Govt. Prof. Chakrabarty suggested.
- 6) F.M.C. approves engagement of one additional sweeper for the hostel through the existing agency, payment would be done from Block Grant Fund.
- 7) Prof. Chakrabarty proposed to engage Prof. P.Guha as an advisor, Training & Placement of the college for one year. Honorarium @15,000/- per month be paid from the interest of the CORPUS Fund. F.M.C. approves the proposal to place it to BOG for approval. This takes effect from 1<sup>st</sup> August, 2017.
- 8) Convocation expenses budget of Rs. 5 Lakh is approved by F.M.C. Expenses be made out of interest of CORPUS Fund.  
J.D. (A&A), DTE would discuss issues of purchasing gold at Govt. rate with the FA.
- 9) UGC Autonomy budget of 17-18 Rs. 10 Lakhs is approved for onward transmission to UGC authority. Current expenses would be met from the interest of CORPUS Fund till UGC fund is received. The amount that would be spent from interest of CORPUS Fund be paid back.
- 10) Dr. K. Dutta reported the fund utilization status of the RUSA Fund.
- 11) The fixed deposits (04 Nos.) maintained with Dena Bank are decided to be renewed for further terms.
- 12) The actual expenditure of B.G. Fund for F.Y. 2016-17 is approved by the F.M.C. and it is decided to transfer the surplus amount of Rs. 24,74,915/- (Total allotment received- actual expenditure) from B.G. Fund to CORPUS Fund. The estimated budget for F.Y. 2017-18 total amounting to Rs. 76,00,000/- has been approved by the F.M.C. with some enhancement in the sub-head campus interview and other charges in the proposed estimated budget. The estimated budget for F.Y. 2017-18 for "2203" (Non-plan) salary, wages etc has also been approved.

12 Chakrabarty  
Principal  
Govt. College of Engineering



~~Draft~~ minutes of the 6th meeting of Academic Council held on 3<sup>rd</sup> August, 2016

The members present

- 1) Prof. M.K.Mitra – Jadavpur University
- 2) Prof.(Mrs.) Sudakshina Kundu – WBUT
- 3) Prof. Rajat Pal – Calcutta University
- 4) Prof.S.R.Bhadra Chaudhuri - IEST
- 5) Prof. Rituparna Sen – Sr. Faculty, Ceramic Technology Dept.
- 6) Prof.Ritwik Mondal – HOD, Information Technology Dept.
- 7) Prof.(Mrs.)Kalpana Saha Roy – HOD, Comp.Sc. & Engg. Dept.
- 8) Prof. Somdatta Chakravorty – Faculty, Information Technology
- 9) Prof.Saibal Ray – Sr.Faculty, Gen Engg., Science & Humanities.
- 10) Prof.Krishnendu Dutta – Controller of Examination (Invitee)
- 11) Dr.H.S.Maiti – Ex-Director, Central Glass & Ceramic Research Institute (Special Invitee)

The meeting began with Prof. Sudakshina Kundu suggesting organizing of workshop on Cyber Law Security, which is a major component of IT, CSE & ECE Syllabi, jointly with CDAC. She is optimistic about active support from Ms.Apoorva Verma, Area in-charge, Texas Instruments and Dr. Santanu Phadikar, Comp. Sc. & Engg. Dept., WBUT, provided a serious effort is initiated in this regard. Prof. Kundu had to leave the meeting early because of some important engagement elsewhere.

The discussion on Action Taken Report on the minutes of 5<sup>th</sup> and emergency meeting held on 10<sup>th</sup> April, 2015 and 10<sup>th</sup> July, 2015, respectively followed.

Action Taken 4

Though there is no scope of immediate introduction of B Tech in E.C.E in view of AICTE notification stating that no new course can be introduced before getting all running courses accredited, Prof. Bhadra Chaudhuri insisted that the syllabus be kept ready so that once the accreditation process for all running courses are over, it may be introduced immediately. He also requested to include Prof. Mrinal Kanti Naskar, E & Tc Dept., Jadavpur University, in the syllabus committee.

Action Taken 5

The members have gone through the Academic Audit Reports of previous semesters starting from academic year 2012-13. Prof. Bhadra Chaudhuri was of the view that there should be two external experts on the committee, one from academia and the other from industry. Since Dr. Sankar Ghatak, ex-CGCRI Scientist, a veteran academician has already been included, there remained a scope for inclusion of one expert from industry in the committee.

It appeared on close scrutiny that academic audit reports dwelt on various academic parameters randomly from semester to semester. Prof.M.K.Mitra suggested that the academic parameters chosen for auditing be addressed uniformly in all semesters. Prof. S.R.Bhadra Chaudhuri requested to incorporate comprehensive result analysis in the audit report in order to have a better view of the outcome in terms of student performance.

The agenda of the 6<sup>th</sup> meeting was taken up for discussion.

- 1) The minutes of 5<sup>th</sup> meeting held on 10<sup>th</sup> April, 2015, was read out and confirmed by the chairman as no correction or modification was proposed.

K. Chakrabarti  
Principal  
Govt. College of Engg. & Ceramic Technol  
Govt. of West Bengal

2) Proceedings of the emergency meeting held on 10<sup>th</sup> July, 2015, were reported and confirmed.

3) The provisionally approved syllabi (duly passed in respective BOSs) by the chairman were ratified by the Council.

Prof. S.R. Bhadra Chaudhuri drew the attention of the members to the necessity of stressing upon course prerequisites, a practice being followed these days especially in autonomous institutions before preparation of syllabus. He suggested holding of workshops department wise in order to address the course prerequisites properly.

4) Prof. M.K. Mitra noted that incorporating the sub clause 3.C.III, as stated below, in Academic Regulation

"A student failing in a sessional item shall be required to repeat the semester as a regular student and shall not be eligible for carry-over promotion"

would leave much scope for confusion as there was some incompatibility between the said clause and the components of syllabi already approved. After careful consideration, the members resolved that the said clause would not form a part of the academic regulation and a revised draft of the existing Academic Regulation, removing the elements of confusion be placed before the council at a later date.

Sub clauses, as noted below,

" 4.3.2.1 (l) All the requirements of B.Tech and M.tech examinations will have to be completed by the students within 7 years for obtaining B.Tech degree and 4 years for obtaining M.Tech degree respectively."

&

" 4.3.2.1 (m) For backlog students, total marks in a paper would be computed on the following basis

- A) Unaltered internal marks as obtained by the candidate as a regular student (out of 25) + marks obtained in supplementary examination (out of 75).
- B) Marks obtained only in supplementary examination out of total 75 proportionally raised to the equivalent marks out of total marks of 100.

Whichever is greater between (A) and (B) will be awarded to the backlog candidate."

have been allowed by the members to form a part of the existing Academic Regulations in compliance with the resolutions of academic council meetings dated 10<sup>th</sup> April, 2015 and 10<sup>th</sup> July, 2015.

Existing clause 5.3.6, as noted below.

"In case, as a result of scrutiny/re-evaluation there is an upward revision/improvement in the grade obtained by the applicant, in a course item(s), the fee paid by the candidate for the said course item(s), shall be fully refunded to the candidate."

has been allowed by the members to be dropped from the Academic Regulations.

5) The possibilities of participation of Central Glass and Ceramic Research Institute in existing M.Tech course in Ceramic Technology at GCECT in compliance with the requirements of both

K. Chakraborty  
Principal  
Govt. College of Engg. & Ceram.  
Govt. of West Ben.

sides were welcomed by the members. The infrastructure for research in respect of both manpower and instruments is excellent at CGCRI which can substantially enhance the quality of project work carried out by M.Tech students of Ceramic Technology.

Dr. H.S.Maiti, on invitation, has placed a rough draft proposal of such joint venture for consideration of the members.

The members requested the chairman to take it up with the Government so that a formal contract, conforming to the obligations of both the sides, between the two institutes could materialize in near future.

- 6) The council turned down the appeal of eleven unsuccessful candidates for conducting special examination on Basic Electrical Engineering (ES 102). However, considering the submission of the college authority and the fact that next semester had already commenced, the concerned students, as a very special case, have been allowed to attend the 5<sup>th</sup> semester course. Those among the petitioners would be debarred to proceed further if they fail to clear the paper.

The meeting ended with the vote of thanks to the chair.

Approved  
Confirmed  
K - ch - 1012  
11-08-12  
Principal  
Govt. College of Engg. & Ceramic Technology,  
Govt. of West Bengal



GOVERNMENT OF WEST BENGAL

OFFICE OF THE PRINCIPAL

GOVERNMENT COLLEGE OF ENGINEERING & CERAMIC TECHNOLOGY

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Phone (033) 2363-2072 /2363-3675 E-mail: gcctwb@gmail.com

No: GCECT/ 35/18-19

Date: 18/1/19

Budget Estimate  
for  
UGC Autonomy Grant for the Financial Year 2018-19  
of  
Government College of Engineering & Ceramic Technology, Kolkata

Budgetary Head	Guest / Visiting Faculty	Library, equipment, books / journals	Honorarium to Controller of Examinations	Expenditure on meetings of Governing Body and Committees	Furniture for office, classroom, library and laboratories	Renovation and repairs not leading to construction of a new building	TOTAL
Amount (Rs.)	1,00,000/-	2,75,000/-	96,000/-	29,000/-	1,00,000/-	4,00,000/-	10,00,000/-

K. Chakrabarti

Principal

Govt. College of Engg. & Ceramic Technology  
Govt. of West Bengal

Govt. College of Engineering  
& Ceramic Technology  
Kolkata, West Bengal

**Utilization of money borrowed from college fund in the financial year 2017-2018 & utilized under different heads as per UGC guide & norms**

It is certified that the amount of Rs 792405/- (Rupees seven lakhs ninty two thousand four hundred five) only has been borrowed from college fund in the financial year 2017-2018 and the amount has been utilized under head within budget as per UGC guides & norms as per Receipts and payments A/C for the financial year 2017-2018 enclosed.

  
Accounts Officer  
Govt. College of Engineering  
& Ceramic Technology, Kolkata

*K. Choikidol*  
Principal  
Govt. College of Engineering  
& Ceramic Technology, Kolkata

Place : Kolkata

Date : 18/01/2019

For Supradip Basu & Co

Chartered Accountants

For SUPRADIP BASU & CO.  
CHARTERED ACCOUNTANTS  
FRN 323913E

*Supradip Basu*  
(SUPRADIP BASU)  
Proprietor  
M/No 052619




**Government College of Engineering & Ceramic Technology**

**73, Abinash Chandra Banerjee Lane. Kolkata-700010**

**Receipts & Payments Accounts for the Financial year 2017-2018**

Receipts	Amount (Rs)	Payments	Amount (Rs)
Amount Borrowed from college fund for utilization of money under different heads (with in budget) as per UGC Allocation/norms	792405/-	1)Payment to guest faculties honorarium.	3,16,000/-
		2)Payment for furniture for classroom.	45,930/-
		3)Renovation of college buildings and other works.	3,18,781/-
		4)Expenditure for meeting.	15,694/-
		5)Honorarium of controller of examination.	96,000/-
	7,92,405/-		7,92,405/-

  
Principal  
Govt. College of Engineering  
& Ceramic Technology, Kolkata

*K. Chakrabarti*  
Principal  
Govt. College of Engineering  
& Ceramic Technology,  
Kolkata

Place : Kolkata

Date : 18/01/2019

For Supradip Basu & Co

Chartered Accountants

For SUPRADIP BASU & CO.  
CHARTERED ACCOUNTANTS  
FRN 323513E



*Supradip Basu*  
(SUPRADIP BASU)  
Proprietor  
M/No 052619

***ISO Certification***

***of***

***Government College of Engineering  
and Ceramic Technology***



# *Certificate of Registration*

This is to certify that

## **GOVERNMENT COLLEGE OF ENGINEERING AND CERAMIC TECHNOLOGY**

**73, A.C. BANERJEE LANE, KOLKATA-700010, WEST BENGAL, INDIA**

has been independently assessed by QRO  
and is compliant with the requirement of:

**ISO 14001:2015**

### **Environmental Management System**

For the following scope of activities:

**B.TECH IN COMPUTER SCIENCE AND ENGINEERING, B.TECH IN  
INFORMATION TECHNOLOGY, B.TECH IN CERAMIC TECHNOLOGY,  
M.TECH IN INFORMATION TECHNOLOGY, M.TECH IN CERAMIC  
TECHNOLOGY**

Date of Initial Registration: 20th May 2022

2<sup>nd</sup> Surveillance Audit Due: 19th May 2024

Date of this Certificate: 19th May 2023

Certificate Expiry: 19th May 2025

**Certificate Number: 305023072406E**



Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit.  
(In case surveillance audit is not allowed to be conducted; this certificate shall be suspended / withdrawn).

**The Validity of this certificate can be verified at [www.qrocert.org](http://www.qrocert.org)**

This certificate of registration remains the property of QRO Certification LLP, and shall be returned immediately upon request.

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