



# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

### REPORT ON THE ACADEMIC AUDIT (Academic Year July, 2023 - June, 2024)

1. Name of the department : Basic Science and Humanities (BSH) Department
2. Vision of the department : We enrich our students with wisdom and academic prowess such that they can contribute to the society to the best of their professional and humanitarian capabilities. We encourage our students to become admirable people who can make significant contributions to society in addition to providing them with the necessary information and skills to succeed in the workforce.
3. Intake capacity : 420
4. No. of applications received program wise : CE:31;CSE:76; ME:35; EE:42;EEE:38; ECE:38
5. No. of eligible application received : 115
6. Overall Demand Ratio (Intake capacity; No. of applications received) : 21:13

#### 7. Students enrollment (Year wise) :

|                      | General |    |    | SC |   |    | ST |   |   | OBC |   |    | Total |    |     | Minority |   |    | PWD |   |   |
|----------------------|---------|----|----|----|---|----|----|---|---|-----|---|----|-------|----|-----|----------|---|----|-----|---|---|
|                      | M       | F  | T  | M  | F | T  | M  | F | T | M   | F | T  | M     | F  | T   | M        | F | T  | M   | F | T |
| 1 <sup>st</sup> Year | 76      | 11 | 87 | 9  | 3 | 12 | 0  | 0 | 0 | 14  | 2 | 16 | 99    | 16 | 115 | 10       | 0 | 10 | 0   | 0 | 0 |
| 2 <sup>nd</sup> Year | -       | -  | -  | -  | - | -  | -  | - | - | -   | - | -  | -     | -  | -   | -        | - | -  | -   | - | - |
| 3 <sup>rd</sup> Year | -       | -  | -  | -  | - | -  | -  | - | - | -   | - | -  | -     | -  | -   | -        | - | -  | -   | - | - |
| 4 <sup>th</sup> Year | -       | -  | -  | -  | - | -  | -  | - | - | -   | - | -  | -     | -  | -   | -        | - | -  | -   | - | - |
| Grand Total          | -       | -  | -  | -  | - | -  | -  | - | - | -   | - | -  | -     | -  | -   | -        | - | -  | -   | - | - |

Campus : Regent Education & Research Foundation Group of Institutions

E-mail : [rerfkolkata@gmail.com](mailto:rerfkolkata@gmail.com), Website : [www.rerf.in](http://www.rerf.in)

#### Campus Address:

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P.O: Sewli Telinipara, P.S.: Mohanpur  
Kolkata - 700 121  
Tel.: 033-3008-5442/432/431, Fax: 033-3008-5442

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11/3, Biresghaha Street  
7<sup>th</sup> Floor, Kolkata - 700 017  
Tel.: 033-3221-3613



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### 8. Student enrollment statistics:

|                      | From the state where the institution is located | From other states of India | NRI students | Total |
|----------------------|-------------------------------------------------|----------------------------|--------------|-------|
| 1 <sup>st</sup> Year | 108                                             | 7                          | 0            | 115   |
| 2 <sup>nd</sup> Year | -                                               | -                          | -            | -     |
| 3 <sup>rd</sup> Year | -                                               | -                          | -            | -     |
| 4 <sup>th</sup> Year | -                                               | -                          | -            | -     |
| Grand total          | -                                               | -                          | -            | -     |

### 9. No. of students graduating in the year: NA

| Male | Female | Total |
|------|--------|-------|
| -    | -      | -     |

10. (a) Total Number of classrooms and seminar halls: 7 Classrooms and 1 Seminar Hall (Central Facility)

(b) Number of classroom with ICT facilities: Shared with ECE department

(c) Number of 1<sup>st</sup> year laboratories: 3

(d) Total number of laboratories: 3 (under BSH department) + 4 (from EE, EEE, ME and CSE departments)

11. (a) Computer facility: Yes

(b) Number of computer available for the students: 410 (Central Facility)

(c) Internet facility to staffs/students: Yes

12. Number of students qualifying in state/ national/ international level examinations (eg: GATE/GMAT/CAT/GRE/TOEFL/Central government/State government examinations): NA

13. No. of awards received by students: No

14. Number of outgoing students placed during the year: NA

15. Students Progression to Higher Studies (Numbers only): NA

16. Success rate of students (% of student passed): 17% (After Second Semester)

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## REGENT EDUCATION & RESEARCH FOUNDATION Group of Institutions

### 17. Faculty strength and specialization.

| SL. | NAME                      | DESIGNATION            | QUALIFICATIONS                 | SPECIALIZATION                      | NO. OF<br>M.PHIL/PH.D.<br>SUPERVISED (IN<br>LAST 5 YEARS) |
|-----|---------------------------|------------------------|--------------------------------|-------------------------------------|-----------------------------------------------------------|
| 1   | Dr. SUBHRA SARKAR         | Professor              | Ph.D                           | Chemistry                           | 0                                                         |
| 2   | Dr. ANINDITA DAS          | Associate<br>Professor | Ph.D                           | Nanoelectronics                     | 0                                                         |
| 3   | Dr. CHIRANJIB CHAKRABARTI | Associate<br>Professor | Ph.D                           | Physics                             | 0                                                         |
| 4   | Dr. NIBEDITA MUKHERJEA    | Associate<br>Professor | Ph.D                           | Chemistry                           | 0                                                         |
| 5   | Dr. RAJDEEP CHAKRAVARTY   | Associate<br>Professor | Ph.D                           | Inorganic<br>Chemistry              | 0                                                         |
| 6   | Dr. SUDIP CHATTERJEE      | Associate<br>Professor | Ph.D                           | Nanomaterials                       | 0                                                         |
| 7   | Ms. AMRITA CHAKRABORTY    | Assistant<br>Professor | M.A.                           | English<br>Literature               | 0                                                         |
| 8   | Ms. ANAMIKA BASU          | Assistant<br>Professor | M.A.                           | English                             | 0                                                         |
| 9   | Ms. ANUPA NANDI           | Assistant<br>Professor | M.Tech, M.Sc.                  | Physical<br>chemistry               | 0                                                         |
| 10  | Ms. APARNA DAS            | Assistant<br>Professor | M.A.                           | English<br>Literature &<br>Language | 0                                                         |
| 11  | Mr. ARIJIT DAS SHARMA     | Assistant<br>Professor | M.Sc, B.Ed, Ph.D<br>(Pursuing) | Biotechnology,<br>Bioinformatics    | 0                                                         |
| 12  | Mr. AVIK GHOSH DASTIDAR   | Assistant<br>Professor | M.Sc, MCA                      | Electronics                         | 0                                                         |
| 13  | Mr. CHIRANJIT ROY         | Assistant<br>Professor | M.Sc                           | ENVS, Botany                        | 0                                                         |
| 14  | Ms. DEBARATI GHOSH        | Assistant<br>Professor | M.Sc, M.Tech                   | Electronics<br>Science              | 0                                                         |
| 15  | Ms. DIPALI MAITI          | Assistant<br>Professor | M.A.                           | Political Science                   | 0                                                         |
| 16  | Mr. GOURAB DUTTA          | Assistant<br>Professor | M.Sc.                          | Physics                             | 0                                                         |
| 17  | Ms. IPSITA BOSE           | Assistant<br>Professor | M.Sc.                          | Chemistry                           | 0                                                         |
| 18  | Dr. KUMARESH HALDER       | Assistant<br>Professor | PhD (Physics)                  | Composites,<br>Nanomaterials        | 0                                                         |
| 19  | Ms. MONALISA SINHA        | Assistant<br>Professor | M.Sc.                          | Zoology                             | 0                                                         |

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| SL. | NAME                      | DESIGNATION         | QUALIFICATIONS | SPECIALIZATION      | NO. OF<br>M.PHIL/PH.D.<br>SUPERVISED (IN<br>LAST 5 YEARS) |
|-----|---------------------------|---------------------|----------------|---------------------|-----------------------------------------------------------|
| 20  | Dr. OINDRILA BHATTACHARYA | Assistant Professor | Ph.D           | English             | 0                                                         |
| 21  | Ms. PARAMITA DUTTA        | Assistant Professor | M.Sc.          | Applied Mathematics | 0                                                         |
| 22  | Ms. PIYALI PAUL           | Assistant Professor | M.Sc.          | Applied Geology     | 0                                                         |
| 23  | Mr. SAIKAT BOSE           | Assistant Professor | M.Sc.          | Mathematics         | 0                                                         |
| 24  | Ms. SHREYA CHAKRABORTY    | Assistant Professor | M.Sc.          | Mathematics         | 0                                                         |
| 25  | Ms. SOMA BARMAN           | Assistant Professor | M.Sc.          | Mathematics         | 0                                                         |
| 26  | Mr. SUBHANKAR SEN         | Assistant Professor | M.Sc.          | Physics             | 0                                                         |
| 27  | Ms. TANIA BHATTACHARYA    | Assistant Professor | M.Sc.          | Mathematics         | 0                                                         |
| 28  | Mr. ARKA CHATTERJEE       | Assistant Professor | M.Sc.          | Mathematics         | 0                                                         |
| 29  | Mr. HAMIDUR RAHMAN        | Assistant Professor | M.Sc.          | Mathematics         | 0                                                         |
| 30  | Mr. HIRAK MISHRA          | Assistant Professor | M.Sc.          | Biology             | 0                                                         |
| 31  | Mr. MRINMOY GHOSH         | Assistant Professor | M.Sc.          | Chemistry           | 0                                                         |
| 32  | Mr. PRITAM CHAKRABORTY    | Assistant Professor | M.Sc.          | Biology             | 0                                                         |
| 33  | SYED MASUM AL HASSAN      | Assistant Professor | M.A.           | English Literature  | 0                                                         |
| 34  | Mr. MAINAK CHAKRABORTY    | Assistant Professor | M.Sc.          | Physics             | 0                                                         |

Teaching:

| Designation         | Total |
|---------------------|-------|
| Professor           | 1     |
| Associate Professor | 5     |
| Assistant Professor | 28    |
| Others              | 0     |

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Non teaching staff:

| Designation         | Total |
|---------------------|-------|
| Technical Assistant | 0     |
| Other               | 0     |

18. Teacher: student ratio: 1:25 (As per AICTE)

19. Frequency of revision of Syllabus: Affiliated college  
(year in which syllabus last revised)

20. Research Publications in the Journals during the year:

| Title of paper                                                                                                                               | Name of author(s)           | Name of Journal          | Year of Publication with Volume and Page numbers | ISBN/ISSN | Indicate UGC Approved Journal                                                                                                                                                                                                                                                                                                                                                               | National/International Journal | Impact Factor (if any) |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|--------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------|
| An analytical and FEM simulation-based study of the dependence of capacitance profile on structural parameters of CMUT with and without vent | Avik Ghosh Dasgupta et al., | Microsystem Technologies | 2023                                             | 1432-1858 | <a href="https://mjl.clarivate.com/search-results?issn=0946-7076&amp;hide_exact_match_f=true&amp;utm_source=mjl&amp;utm_medium=share-by-link&amp;utm_campaign=search-results-share-this-journal">https://mjl.clarivate.com/search-results?issn=0946-7076&amp;hide_exact_match_f=true&amp;utm_source=mjl&amp;utm_medium=share-by-link&amp;utm_campaign=search-results-share-this-journal</a> | International                  |                        |

21. Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Faculty during the year

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| Name of the faculty | Title of the book/chapters published | Title of the paper | Title of the proceedings of the conference | Name of the conference | National / international | Year of publication | ISBN/ISSN number of the proceeding | Name of the publisher |
|---------------------|--------------------------------------|--------------------|--------------------------------------------|------------------------|--------------------------|---------------------|------------------------------------|-----------------------|
|                     |                                      |                    |                                            |                        |                          |                     |                                    |                       |

22. Number of Patents filed/published/awarded:

| Sl. No. | Patent application number | Status (Publish/Granted) | Date of Publication/Grant | Publication/Grant Number | Applicant's name | Title |
|---------|---------------------------|--------------------------|---------------------------|--------------------------|------------------|-------|
|         |                           |                          |                           |                          |                  |       |
|         |                           |                          |                           |                          |                  |       |

23. (a) Mechanism of interaction with students: Lectures, Tutorials and Practical

(b) Non credit course offered by the department (if any):

24. Mode of evaluation: CIE, CA, Semester Exam, Theory Exam, Practical Exam, Assignments, PPT Presentation, Project.

25. Student Mentoring:

| Name of Mentor         | Total number of mentees |
|------------------------|-------------------------|
| Mr. Subhankar Sen      | 18                      |
| Ms. Paramita Dutta     | 19                      |
| Ms. Debarati Ghosh     | 19                      |
| Ms. Amrita Chakraborty | 17                      |
| Ms. Ipsita Bose        | 22                      |
| Mr. Arka Chatterjee    | 20                      |

26. Details of seminar/conference/workshops/training programmes/Webinars organized during the year:

| Sl. No. | Name of Convener /Coordinator                        | Title of seminar/course                             | Duration with dates                                   | No. of internal and external participants |
|---------|------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|-------------------------------------------|
| 1       | Ms. Amrita Chakraborty, Asst. Professor, BSH, RERFGI | Learn Spanish Language (Value Added Course)         | 12 <sup>th</sup> March – 23 <sup>rd</sup> March, 2024 | 93                                        |
| 2       | Dr. Rajdeep Chakravarty, HOD, BSH, RERFGI            | Engineering Science: Its Scope, Prospect and Future | 17/05/2024 (1 Day Seminar)                            | 120                                       |

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27. No. of guest speaker invited in the year: 2

28. No. of PTM organized: 3

29. (a) Library facilities available for students: Book bank, reference book, journals, digital library  
(b) Library book: student:75 : 1

30. Details of alumni of the Department with their present employment:

| Name of Student | Email | Ph.No | Designation | Present employer | Employer address | Pay package at appointment |
|-----------------|-------|-------|-------------|------------------|------------------|----------------------------|
|                 |       |       |             |                  |                  |                            |

31. No. of Functional MoUs: Institutional

32. SWOC Analysis

A. Strength:

1. The department provides essential foundational knowledge in subjects like Mathematics, Physics, Chemistry, and Humanities, which form the bedrock for engineering studies.
2. Integrates sciences with humanities to foster critical thinking, problem-solving, and effective communication skills.
3. Humanities courses enhance soft skills such as communication, teamwork, leadership, and ethics, which are vital for engineers.
4. Basic sciences (like physics, chemistry, and mathematics) are crucial for innovation in various fields of engineering, leading to research opportunities.
5. By incorporating humanities, students gain a well-rounded education that includes ethical, philosophical, and social perspectives.

B. Weaknesses:

1. Students often undervalue humanities subjects in an engineering curriculum, focusing more on technical subjects.
2. Engineering students may show less interest in these subjects, considering them supplementary rather than integral to their primary focus.

C. Opportunities:

1. Collaborating with engineering departments on research projects that require strong grounding in basic sciences opens opportunities for interdisciplinary innovation.
2. With increasing emphasis on soft skills and ethical engineering practices in the industry, there is a growing demand for engineers well-versed in humanities.
3. The adoption of AI, data science, and other emerging technologies in basic science disciplines can enhance the relevance and application of these subjects in engineering.
4. With globalisation, cross-disciplinary skills (including humanities) are highly valued, positioning the department to play a key role in shaping globally competent engineers.

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### D. Challenges:

1. Motivating students to see the value in subjects that are not directly related to technical aspects of engineering can be a challenge.
2. The curriculum needs to be regularly updated to stay relevant to contemporary engineering challenges and industrial needs.
3. Unlike core engineering departments, establishing strong ties with industries for research projects or internships can be difficult.
4. Incorporating modern technological tools and interdisciplinary approaches into the teaching of basic sciences and humanities requires continuous updates and faculty development.

33. Any other information, which is not covered above: NA

34. Suggested Road map keeping students' interest in the core and to ensure better visibility:

To maintain student interest in core subjects and enhance the visibility of the Basic Science and Humanities Department, we can consider the following roadmap:

1. **Interdisciplinary Projects:** Encourage real-world projects that integrate engineering with basic sciences.
2. **Workshops & Seminars:** Host regular events with experts to demonstrate the relevance of core subjects in modern engineering.
3. **Industry Collaborations:** Build partnerships with industries to show practical applications of basic sciences.
4. **Skill-Based Courses:** Offer elective courses focused on critical thinking, communication, and research skills.
5. **Student Competitions:** Organise contests showcasing basic science concepts in engineering solutions.

This approach ensures engagement while promoting the department's role in the holistic development of students.

Dated: 04.10. 2024

*S. Rajesh*

HOD, BSH

*X*

Principal

Regent Education & Research Foundation  
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Observations of the Academic Audit Team  
(To be filled by IQAC/Audit Committee):

### Internal Audit Member

Dr. Sudip Basack (Principal) 

Mr. Subhankar Ghosh (Registrar) 

Dr. Anindita Das (Dean, Administration and Student Affairs) 

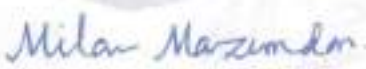
Dr. Rajorshi Bandyopadhyay (Dean, IQAC) 

Mr. Suprovat Basu (Deputy Registrar) 

### External Audit Member

Dr. Anup Sikdar (NAAC Expert) 

Dr. Chandan Das (Principal, SVIMS) 

Mr. Milan Mazumdar (Principal, RIST) 

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1. Name of the department : CIVIL ENGINEERING
2. Vision of the department : Developing motivated, skilled and highly competent Civil Engineers to excel in Education, Research, Entrepreneurship and Technological services, so that the department as well as the Institute will be recognized high in a global scenario.
3. No. of available seats (Lateral entry) : 120
4. No. of applications received program wise : 105 (2<sup>nd</sup> year Lateral Entry)
5. Number of eligible application received : 95
6. Overall Demand Ratio : 4:5  
(No. of applications received : No. of available seats)
7. Students enrollment (Year wise) :

|                      | General |    |   | SC |    |   | ST |   |   | OBC |   |   | Total |    |   | Minority |   |   | PWD |   |   |
|----------------------|---------|----|---|----|----|---|----|---|---|-----|---|---|-------|----|---|----------|---|---|-----|---|---|
|                      | M       | F  | T | M  | F  | T | M  | F | T | M   | F | T | M     | F  | T | M        | F | T | M   | F | T |
| 1 <sup>st</sup> Year | 4       | 1  | 0 | 0  | 0  | 0 | 0  | 0 | 0 | 1   | 0 | 0 | 5     | 1  | 0 | 1        | - | - | -   | - | - |
| 2 <sup>nd</sup> Year | 64      | 4  | 0 | 14 | 5  | 0 | 2  | 0 | 0 | 12  | 4 | 0 | 92    | 13 | 0 | 6        | - | - | -   | - | - |
| 3 <sup>rd</sup> Year | 75      | 16 | 0 | 7  | 2  | 0 | 1  | 0 | 0 | 26  | 1 | 0 | 109   | 19 | 0 | 10       | 2 | - | -   | - | - |
| 4 <sup>th</sup> Year | 69      | 7  | 0 | 17 | 5  | 0 | 1  | 0 | 0 | 21  | 3 | 0 | 108   | 15 | 0 | 12       | 2 | - | -   | - | - |
| Grand Total          | 212     | 28 | 0 | 38 | 12 | 0 | 4  | 0 | 0 | 60  | 8 | 0 | 314   | 48 | 0 | 29       | 4 | - | -   | - | - |

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### 8. Student enrollment statistics:

|                      | From the state where the institution is located | From other states of India | NRI students | Total |
|----------------------|-------------------------------------------------|----------------------------|--------------|-------|
| 1 <sup>st</sup> Year | 6                                               | 0                          | 0            | 6     |
| 2 <sup>nd</sup> Year | 101                                             | 4                          | 0            | 105   |
| 3 <sup>rd</sup> Year | 125                                             | 3                          | 0            | 128   |
| 4 <sup>th</sup> Year | 113                                             | 10                         | 0            | 123   |
| Grand total          | 345                                             | 17                         | 0            | 362   |

### 9. No. of students graduating in the year:

| Male | Female | Total |
|------|--------|-------|
| 47   | 9      | 56    |

10. (a) Total Number of classrooms and seminar halls: B.Tech – 06  
Seminar Hall – Central Facility

(b) Number of classroom with ICT facilities: 01

(c) Number of 1<sup>st</sup> year laboratories: 06

(d) Total number of laboratories:  $06+13 = 19$

11. (a) Computer facility: Central facility

(b) Number of computer available for the students: Central facility

(c) Internet facility to staffs/students: Yes

11. Number of students qualifying in state/ national/ international level examinations (eg: GATE/GMAT/CAT/GRE/TOEFL/Central government/State government examinations): NIL

13. No. of awards received by students: NIL

14. Number of outgoing students placed during the year: 03

15. Students Progression to Higher Studies (Numbers only): 03

16. Success rate of students (% of student passed): 47%

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### 17. Faculty strength and specialization -

| Sl. No. | Name                   | Designation         | Qualifications           | Specialization                          | No. of M.Phil/Ph.D supervised (in last five years) |
|---------|------------------------|---------------------|--------------------------|-----------------------------------------|----------------------------------------------------|
| 1       | SHOUVIK SARKAR         | HOD                 | M.E.                     | GEO-TECHNICAL ENGINEERING               | -                                                  |
| 2       | LABANI NANDE           | AHOD                | Ph.D. (Pursuing), M.TECH | STRUCTURAL ENGINEERING                  | -                                                  |
| 3       | Dr. KAUSHIK DUTTA ROY  | Associate Professor | Ph.D.                    | WATER RESOURCES & HYDRAULIC ENGINEERING | -                                                  |
| 4       | Dr. PRITAM MALAKAR     | Associate Professor | Ph.D.                    | WATER RESOURCES & HYDRAULIC ENGINEERING | -                                                  |
| 5       | SUBHADEEP MONDAL       | Assistant Professor | Ph.D. (Pursuing), M.TECH | GEO-TECHNICAL ENGINEERING               | -                                                  |
| 6       | SUKANNYA KUNDU         | Assistant Professor | M.TECH                   | STRUCTURAL ENGINEERING                  | -                                                  |
| 7       | ANIBRATA PAL           | Assistant Professor | M.TECH                   | STRUCTURAL ENGINEERING                  | -                                                  |
| 8       | AVIJIT DUTTA           | Assistant Professor | M.TECH                   | STRUCTURAL ENGINEERING                  | -                                                  |
| 9       | ISHIKA GHOSH           | Assistant Professor | M.TECH                   | STRUCTURAL ENGINEERING                  | -                                                  |
| 10      | MINHAJUDDIN MALLICK    | Assistant Professor | M.TECH                   | STRUCTURAL ENGINEERING                  | -                                                  |
| 11      | ANIKET BHOWMICK        | Assistant Professor | M.TECH                   | ENVIRONMENTAL STUDIES                   | -                                                  |
| 12      | RITUPARNA DEY          | Assistant Professor | M.TECH                   | GEO-TECHNICAL ENGINEERING               | -                                                  |
| 13      | SK. SAFIN IMRAN LASKAR | Assistant Professor | M.TECH                   | STRUCTURAL ENGINEERING                  | -                                                  |
| 14      | BUDHODEB BISWAS        | Assistant Professor | M.TECH                   | TRANSPORTATION ENGINEERING              | -                                                  |
| 15      | SUKRITI PAL            | Assistant Professor | M.TECH                   | GEO-TECHNICAL ENGINEERING               | -                                                  |
| 16      | SWARNENDU SHERHAR DAS  | Assistant Professor | M.TECH                   | ENVIRONMENTAL STUDIES                   | -                                                  |
| 17      | YUVARAJ MONDAL         | Assistant Professor | M.E.                     | WATER RESOURCES & HYDRAULIC ENGINEERING | -                                                  |
| 18      | ARINDAM BAR            | Assistant Professor | M.TECH                   | WATER RESOURCES ENGINEERING             | -                                                  |
| 19      | ARINDAM BHADURY        | Assistant Professor | M.TECH                   | STRUCTURAL ENGINEERING                  | -                                                  |
| 20      | SOURAV PRAMANIK        | Assistant Professor | M.TECH                   | WATER RESOURCES ENGINEERING             | -                                                  |
| 21      | PUSPENDU MONDAL        | Assistant Professor | M.TECH                   | TRANSPORTATION ENGINEERING              | -                                                  |
| 22      | RAHUL DAS              | Assistant Professor | M.TECH                   | STRUCTURAL ENGINEERING                  | -                                                  |

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|    |                          |                     |                   |                                                    |   |
|----|--------------------------|---------------------|-------------------|----------------------------------------------------|---|
| 23 | NABANITA BASU            | Assistant Professor | M.E.              | ENVIRONMENTAL ENGINEERING                          | - |
| 24 | RAJA GHOSH               | Assistant Professor | M.TECH            | HYDRO-INFORMATICS ENGINEERING                      | - |
| 25 | ATASI MITRA              | Assistant Professor | M.TECH            | GEO-TECHNICAL ENGINEERING                          | - |
| 26 | UTSA SENGUPTA            | Lecturer            | M.E. (Pursuing)   | STRUCTURAL RETROFITTING & CONSTRUCTION ENGINEERING |   |
| 27 | SUBHAJIT DAS             | Lecturer            | M.E. (Pursuing)   | STRUCTURAL RETROFITTING & CONSTRUCTION ENGINEERING |   |
| 28 | SUBHARSHREE DUTTA SIKDER | Lecturer            | M.Tech (Pursuing) | STRUCTURAL ENGINEERING                             |   |
| 29 | CHINMAY MAJUMDER         | Lecturer            | B.TECH            | CIVIL ENGINEERING                                  |   |

### Teaching

| Designation         | Total |
|---------------------|-------|
| Professor           | 0     |
| Associate Professor | 2     |
| Assistant Professor | 23    |
| Others              | 4     |

### Non-Teaching staff

| Designation         | Total |
|---------------------|-------|
| Technical Assistant | 1     |
| Other               | 1     |

18. Teacher: student ratio: 1:15

19. Frequency of revision of Syllabus: Affiliated college  
(Year in which syllabus last revised)

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20. Research Publications in the Journals during the year:

| Title of paper | Name of author(s) | Name of Journal | Year of Publication with Volume and Page numbers | ISBN/ISSN | Indicate UGC Approved Journal | National/International Journal | Impact Factor (if any) |
|----------------|-------------------|-----------------|--------------------------------------------------|-----------|-------------------------------|--------------------------------|------------------------|
| -              | -                 | -               | -                                                | -         | -                             | -                              | -                      |

21. Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Faculty during the year

| Name of the faculty | Title of the book/chapters published | Title of the paper | Title of the proceedings of the conference | Name of the conference | National / International | Year of publication | ISBN/ISSN number of the proceeding | Name of the publisher |
|---------------------|--------------------------------------|--------------------|--------------------------------------------|------------------------|--------------------------|---------------------|------------------------------------|-----------------------|
| -                   | -                                    | -                  | -                                          | -                      | -                        | -                   | -                                  | -                     |

22. Number of Patents filed/published/awarded:

| Sl. No. | Patent application number | Status (Publish/Granted) | Date of Publication/Grant | Publication/Grant Number | Applicant's name | Title |
|---------|---------------------------|--------------------------|---------------------------|--------------------------|------------------|-------|
| -       | -                         | -                        | -                         | -                        | -                | -     |

23. (a) Mechanism of interaction with students (Lectures/tutorials/practical): Lectures, practical & tutorials.

(b) Non-credit course offered by the department (if any):

- AutoCAD-Engineering Drawing
- STAAD Pro.-Analysis of Beams, Frames & Truss

24. Mode of evaluation: Both offline and online examinations.

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### 25. Student Mentoring:

| Name of Mentor         | Total number of mentees |
|------------------------|-------------------------|
| YUVARAJ MONDAL         | 25                      |
| ISHIKA GHOSH           | 25                      |
| Dr. PRITAM MALAKAR     | 25                      |
| SUBHADEEP MONDAL       | 25                      |
| ANIBRATA PAL           | 22                      |
| Dr. KAUSHIK DUTTA ROY  | 25                      |
| LABANI NANDI           | 25                      |
| SWARNENDU SHEKHAR DAS  | 25                      |
| ARINDAM BHADURY        | 25                      |
| SK. SAFIN IMRAN LASKAR | 20                      |
| SHOUVIK SARKAR         | 20                      |
| AVIJIT DUTTA           | 20                      |
| MINHAJ UDDIN MULLICK   | 20                      |
| SUKRITI PAL            | 27                      |

### 26. Details of seminar/conference/workshops/training programmes/Webinars organized during the year:

| Sl No | Name of Convener/Coordinator | Title of seminar/course                                 | Duration with dates | No. of internal and external participants |
|-------|------------------------------|---------------------------------------------------------|---------------------|-------------------------------------------|
| 1.    | Mr. Raja Ghosh               | BIM METAMORPHOSIS- A PARADIGM SHIFT IN THE AEC INDUSTRY | 2 hrs.<br>25/05/24  | 56                                        |

### 27. No. of guest speaker invited in the year: 01

### 28. No. of PTM organized: 02

### 29. (a) Library facilities available for students: Book bank, reference book, journals, digital library

### (b) Library book: Student: Book bank, Digital library

### 30. Details of alumni of the Department with their present employment:

| Name of Student | Email                       | Ph.No      | Designation      | Present employer | Employer address                                                      | Pay package at appointment |
|-----------------|-----------------------------|------------|------------------|------------------|-----------------------------------------------------------------------|----------------------------|
| Ujjal Biswas    | ujjalbiswas960944@gmail.com | 9609442003 | Graduate Trainee | Shyam Steel      | Shyam Tower,<br>Action area –<br>1D, New Town,<br>Kolkata –<br>700156 | Rs.205700/-<br>p.m.        |

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|                      |                                |            |                          |                                                  |                                                                              |                  |
|----------------------|--------------------------------|------------|--------------------------|--------------------------------------------------|------------------------------------------------------------------------------|------------------|
| Jahurul Hasan Mollah | jahurulhasanmollah99@gmail.com | 7602257491 | Graduate Trainee         | Shyam Steel                                      | Shyam Tower, Action area – I.D. New Town, Kolkata – 700136                   | Rs.203760/- p.a. |
| Rajdeep Das          | rajdeepdas693@gmail.com        | 8777592705 | Trainee Draftsman        | Vedam Design & Technical Consultancy Pvt. Ltd.   | D712, SangraeeRaheja Vihar, Chundivali, Mumbai - 400072                      | Rs.258318/- p.a. |
| Swaraj Bhowal        | swarajbhowal@gmail.com         | 8787802361 | Engineer (CIVIL)         | Shree BalajiEngicon Limited                      | Belpahar(R.S.), Dist.Harsuguda, Pin-768217, Odisha                           | Rs.336000/- p.a. |
| Krishnendu Sil       | krishnendusel3975@gmail.com    | 8620819381 | Diploma Engineer Trainee | MACJ- A Buyer's Choice Home Inspections PVT.LTD. | 3rd floor, 30D, Jawaharlal Nehru Rd. Ballygunge, Kolkata, West Bengal 700016 | Rs.156000/- p.a. |

### 31. No. of Functional MoUs: Institutional

### 32. SWOC Analysis

#### A. Strength:

- Well Qualified and Experienced Faculties in various fields -Structural Engineering, Geotechnical, Transportation, Environmental, Water Resources, Geologist,Hydro-Informatics and Construction Management.
- Academic block equipped with smart class rooms and laboratories are furnished with required equipments and latest ICT tools.
- Good Computational and Experimental Facilities available. Special training for competitive exams.

#### B. Weaknesses:

- Most of Faculty members are not Ph.D. qualified
- Shortage of Professor and Associate Professor

#### C. Opportunities:

- Research and development activities has been started with public and private institutions and organizations in the region
- Utilizing expertise of nearby industries for teaching and training of students and staffs
- Utilizing NPTEL and ICT resources for effective Teaching-Learning.

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### 12. Challenges:

- Generate resources for the up-gradation of existing infrastructure
- Attracting consultancy services for resource generation.
- Achieving more placement with high package

33. Any other information, which is not covered above: No.

34. Suggested Road map keeping students' interest in the core and to ensure better visibility:

- Training Programme.
- Workshop.
- Industrial Visit.
- Guest Lecture.

Date: 04.10.2024

  
HoD Civil Engineering

Observations of the Academic Audit Team  
(To be filled by IQAC/Audit Committee):

### Internal Audit Member

Dr. Sudip Basak (Principal) 

Mr. Subhankar Ghosh (Registrar) 

Dr. Anindita Das (Dean, Administration and Student Affairs) 

Dr. Rajorshi Bandyopadhyay (Dean, IQAC) 

Mr. Suprova Basu (Deputy Registrar) 

### External Audit Member

Dr. Anup Sikdar (NAAC Expert) 

Dr. Chandan Das (Principal, SVIMS) 

Mr. Milan Mazumdar (Principal, RIST) 

  
Principal  
Regent Education & Research Foundation  
Bara Kanthalia, P.O. Sewli Telinpara  
Barrackpore, Kolkata-700121

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### REPORT ON THE ACADEMIC AUDIT (Academic Year July, 2023 - June, 2024)

1. Name of the department : Computer Science and Engineering
2. Vision of the department : To produce ethical, motivated, and skilled engineers
3. No. of Available seat (Lateral Entry) : 18
4. No. of applications received program wise : 17 ( 2<sup>nd</sup> year lateral entry)
5. Eligible Candidate : 12
6. Overall Demand Ratio (No. of application received  
program: No. of Available seat (Lateral Entry) : 17 : 18
7. Students enrollment (Year wise) :

|                      | General |    |     | SC |   |    | ST |   |   | OBC |   |    | Total |    |     | Minority |   |    | PWD |   |   |
|----------------------|---------|----|-----|----|---|----|----|---|---|-----|---|----|-------|----|-----|----------|---|----|-----|---|---|
|                      | M       | F  | T   | M  | F | T  | M  | F | T | M   | F | T  | M     | F  | T   | M        | F | T  | M   | F | T |
| 1 <sup>st</sup> Year | 37      | 8  | 45  | 2  | 3 | 5  | 0  | 0 | 0 | 5   | 1 | 6  | 44    | 12 | 56  | 0        | 0 | 0  | 0   | 0 | 0 |
| 2 <sup>nd</sup> Year | 36      | 10 | 46  | 2  | 0 | 2  | 0  | 0 | 0 | 12  | 2 | 14 | 50    | 12 | 62  | 8        | 1 | 9  | 0   | 0 | 0 |
| 3 <sup>rd</sup> Year | 33      | 7  | 40  | 9  | 0 | 9  | 1  | 0 | 1 | 11  | 2 | 13 | 54    | 9  | 63  | 7        | 0 | 7  | 0   | 0 | 0 |
| 4 <sup>th</sup> Year | 33      | 8  | 41  | 8  | 2 | 10 | 0  | 0 | 0 | 7   | 2 | 9  | 48    | 12 | 60  | 5        | 2 | 7  | 0   | 0 | 0 |
| Grand Total          | 139     | 33 | 172 | 21 | 5 | 26 | 1  | 0 | 1 | 35  | 7 | 42 | 196   | 45 | 241 | 20       | 3 | 23 | 0   | 0 | 0 |

8. Student enrollment statistics:

|                      | From the state where the institution is located | From other states of India | NRI students | Total |
|----------------------|-------------------------------------------------|----------------------------|--------------|-------|
| 1 <sup>st</sup> Year | 54                                              | 2                          | 0            | 56    |
| 2 <sup>nd</sup> Year | 55                                              | 7                          | 0            | 62    |
| 3 <sup>rd</sup> Year | 59                                              | 4                          | 0            | 63    |
| 4 <sup>th</sup> Year | 57                                              | 3                          | 0            | 60    |
| Grand total          | 225                                             | 16                         | 0            | 241   |

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9. No. of students graduating in the year:

| Male | Female | Total |
|------|--------|-------|
| 48   | 12     | 60    |

10. (a) Total Number of classrooms and seminar halls: 3  
 (b) Number of classroom with ICT facilities: 1  
 (c) Number of 1<sup>st</sup> year laboratories: 1  
 (d) Total number of laboratories: 10
11. (a) Computer facility: 300  
 (b) Number of computer available for the students: 290  
 (c) Internet facility to staffs/students: Yes
12. Number of students qualifying in state/ national/ international level examinations (eg: GATE/GMAT/CAT/GRE/TOEFL/Central government/State government examinations): 0
13. No. of awards received by students: 0
14. Number of outgoing students placed during the year : 7
15. Students Progression to Higher Studies (Numbers only): 4
16. Success rate of students (% of student passed): 76%
17. Faculty strength and specialization.

| Sl. No. | Name                | Designation         | Qualifications | Specialization                 | No. of M.Phil/Ph.D supervised (in last five years) |
|---------|---------------------|---------------------|----------------|--------------------------------|----------------------------------------------------|
| 1       | Mr. Subhankar Ghosh | Assistant Professor | M.Tech         | Mobile ad hoc network          | N/A                                                |
| 2       | Mr.Indrajit Dawn    | Assistant Professor | M.TECH         | CSE                            | N/A                                                |
| 3       | Ms.Paramita Sarkar  | Assistant Professor | M.TECH         | CSE                            | N/A                                                |
| 4       | Ms.Barnita Das      | Assistant Professor | M.TECH         | Multimedia and Software System | N/A                                                |

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|    |                     |                     |        |                        |     |
|----|---------------------|---------------------|--------|------------------------|-----|
| 5  | Ms. Pragati Ghosh   | Assistant Professor | M.TECH | CSE                    | N/A |
| 6  | Ms. Debadrita Saha  | Assistant Professor | M.TECH | CSE                    | N/A |
| 7  | Mr. Bipul Dhali     | Assistant Professor | M.TECH | CSE                    | N/A |
| 8  | Ms. Antara Ghosh    | Assistant Professor | M.TECH | CSE                    | N/A |
| 9  | Mr. Amartya Ghosh   | Assistant Professor | M.TECH | CSE                    | N/A |
| 10 | Mr. Atanu kumar Das | Assistant Professor | M.TECH | CSE                    | N/A |
| 11 | Ms. Sudeshna Dey    | Assistant Professor | M.TECH | Information Technology | N/A |
| 12 | Mr. Nayan Sarkar    | Assistant Professor | M.TECH | CSE                    | N/A |

Teaching

| Designation         | Total |
|---------------------|-------|
| Professor           | 0     |
| Associate Professor | 0     |
| Assistant Professor | 12    |
| Others              | 0     |

Non-teaching staff

| Designation         | Total |
|---------------------|-------|
| Technical Assistant | 4     |
| Other               | 0     |

18. Teacher: student ratio: 1:20

19. Frequency of revision of Syllabus: Affiliated college  
(year in which syllabus last revised)

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20. Research Publications in the Journals during the year:

| Title of paper                                                        | Name of author(s)                                                | Name of Journal                                          | Year of Publication with Volume and Page numbers | ISBN/ISSN      | Indicate UGC Approved Journal | National/International Journal | Impact Factor (if any) |
|-----------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------|----------------|-------------------------------|--------------------------------|------------------------|
| "Efficient selfish node detection using SVM in IoT-MANET environment" | S.Ghosh, A.Banerjee, A.Sufian, S.K.Gupta, S.H.Alsamhi and A.Saif | Transactions on Emerging Telecommunications Technologies | Sep-2023<br>Volume 34                            | ISSN 1002-4858 | Yes                           | International                  | N/A                    |

21. Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Faculty during the year

| Name of the faculty | Title of the book/chapters published                                          | Title of the paper                                                            | Title of the proceedings of the conference | Name of the conference | National / international | Year of publication | ISBN/ISSN number of the proceeding | Name of the publisher |
|---------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------|------------------------|--------------------------|---------------------|------------------------------------|-----------------------|
| Mr. Subhankar Ghosh | Transactions on Emerging Telecommunications Technologies: Volume 34, Issue 12 | Transactions on Emerging Telecommunications Technologies: Volume 34, Issue 12 | Journal                                    | Journal                | International            | Sep-23              | 1002-4858                          | WILEY                 |

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22. Number of Patents filed/published/awarded:

| Sl. No. | Patent application number | Status (Publish/Granted) | Date of Publication/Grant | Publication/Grant Number | Applicant's name | Title |
|---------|---------------------------|--------------------------|---------------------------|--------------------------|------------------|-------|
| N/A     | N/A                       | N/A                      | N/A                       | N/A                      | N/A              | N/A   |

23. (a) Mechanism of interaction with students (Lectures/tutorials/practical): Lectures/tutorials/practical

(b) Non credit course offered by the department (if any) : Cyber Security, Introduction to AI ML

24. Mode of evaluation: CIE, CA1, CA2, CA3, CA4, ASSIGNMENT, PCA1, PCA2, LAB EXAM, SEMESTER EXAM

25. Student Mentoring:

| Name of Mentor      | Total number of mentees |
|---------------------|-------------------------|
| Mr.Indrajit Dawn    | 29                      |
| Ms.Paramita Sarkar  | 21                      |
| Ms.Barnita Das      | 29                      |
| Ms.Pragati Ghosh    | 17                      |
| Ms.Debadrita Saha   | 18                      |
| Mr.Bipul Dhali      | 20                      |
| Mr. Amartya Ghosh   | 22                      |
| Mr. Atanu kumar Das | 22                      |

26. Details of seminar/conference/workshops/training programs /Webinars organized during the year:

| Sl. No | Name of Convener/Cordinator | Title of seminar/course | Duration with dates | No. of internal and external participants |
|--------|-----------------------------|-------------------------|---------------------|-------------------------------------------|
| N/A    | N/A                         | N/A                     | N/A                 | N/A                                       |

27. No. of guest speaker invited in the year: 1

28. No. of PTM organized: 2

29. (a) Library facilities available for students: Book bank, reference book, journals, digital library

(b) Library book: student : 6:1

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Tel.: 033-3221-3013



## REGENT EDUCATION & RESEARCH FOUNDATION Group of Institutions

30. Details of alumni of the Department with their present employment:

| NAME OF STUDENT   | EMAIL                      | PH.NO      | DESIGNATION              | PRESENT EMPLOYER      | EMPLOYER ADDRESS    | PAY PACKAGE AT APPOINTMENT |
|-------------------|----------------------------|------------|--------------------------|-----------------------|---------------------|----------------------------|
| Sujan Maji        | sumanmajid2@gmail.com      | 8535861245 | Associate Software Engg. | Tech Mahindra         | Pune                | 3.25 LPA                   |
| Somnath Kar       | somnathkar@gmail.com       | 8509592835 | Software Engg.           | W H Technology        | Howrah              | 2.5 LPA                    |
| Sudipta Mandal    | sodiptomondal34@gmail.com  | 7584862751 | Sub Network Engineer     | Jio Sector            | Kolkata             | 1.70 LPA                   |
| Ankit Kumar Ghosh | ankitkumaghosh22@gmail.com | 6291636351 | Software Engineer        | Keros                 | Pune                | 4.8 LPA                    |
| Tanmoy Santra     | tsantra12@gmail.com        | 7407685096 | Software Engg.           | Aegiscovenant Pvt Ltd | Gurgaon             | 12 LPA                     |
| Shubhajeet Kohar  | subhajeet@2gmail.com       | 9748393306 | IT Application Support   | Bandhan               | Kolkata             | 3 LPA                      |
| Subhramoy Sarkar  | subhramoy5@gmail.com       | 9007039846 | Software Engg.           | Flipkart              | Howrah              | 3 LPA                      |
| Suchismita Pal    | suchismita23@gmail.com     | 8420858299 | Knowledge Manager        | Capgemini             | Kolkata             | 3.5 LPA                    |
| Biswajit Das      | biswajitdas@gmail.com      | 9382517823 | Software Engg.           | SVIST                 | Baruipur, Kolkata   | 1.80 LPA                   |
| Jayashree Kuslya  | jayasreek@gmail.com        | 8637364549 | Back Office Executive    | MIS Executive         | Dumdum              | 2.2 LPA                    |
| Souvik Das        | souvikdas@gmail.com        | 8420496116 | Executive                | Rentomojo             | Kolkata             | 3LPA                       |
| Ayan Samanta      | asamanta4@gmail.com        | 9091980585 | Software Engg.           | LCA                   | Kolkata             | 3 LPA                      |
| Debasmita Chanda  | dchanda34@gmail.com        | 8777023771 | Software Engg.           | Narayana              | Shyamnagar, Kolkata | 1.8 LPA                    |
| Arpita Das        | arpita2das@gmail.com       | 7003886890 | Software Engg.           | TCS                   | Kolkata             | 3.6 LPA                    |

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## REGENT EDUCATION & RESEARCH FOUNDATION Group of Institutions

31. No. of Functional MoUs; Institutional

32. SWOC Analysis

A. Strength:

- (i) Qualified and Experienced faculty as well as Teaching Assistants.
- (ii) Very good infrastructure with well-equipped laboratories.
- (iii) Strong student feedback system.

B. Weaknesses:

- (i) A few faculties have Industry exposure.
- (ii) Limited grants from National or International bodies.
- (iii) Patent registration.

C. Opportunities:

- (i) The department has some teachers with Industry experience. This provides the Dept. The opportunity to build up contacts in the industry and thus pave the way for more consulting opportunities.
- (ii) Faculty – student exchange programme with universities of repute.
- (iii) To increase Institute's visibility National - International level.

D. Challenges:

- (i) To make 100% students employable for reputed Industry.
  - (ii) Participation of teacher in conferences/ workshops/ paid-seminars are limited since budget becomes a constraint as we have very limited funding from government or private firms / organizations.
  - (iii) To attract eminent researchers & academicians in Campus.
32. Any other information, which is not covered above:

33. Any other information, which is not covered above: N/A

34. Suggested Road map keeping students' interest in the core and to ensure better visibility:

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- Increase in number of publications & conferences of Faculty members.
- Identify the reasons for the slow learners and explore remedial steps.
- Identify shortfalls in the delivery of lessons including lab.



Date : 4<sup>th</sup> October, 2024

  
HOD, CSE

  
Principal  
Regent Education & Research Foundation  
Bara Kanthalia, P.O.-Sewli Telinipara  
Barrackpore, Kolkata-700121

  
HOD  
Department of Computer Science and Engineering  
Regent Education & Research Foundation  
Barrackpore, Kolkata - 700121

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## REGENT EDUCATION & RESEARCH FOUNDATION Group of Institutions

Observations of the Academic Audit Team  
(To be filled by IQAC/Audit Committee):

### Internal Audit Member

Dr. Sudip Basak (Principal) *[Signature]*  
Mr. Subhankar Ghosh (Registrar) *[Signature]*  
Dr. Anindita Das (Dean, Administration and Student Affairs) *[Signature]*  
Dr. Rajorshi Bandyopadhyay (Dean, IQAC) *[Signature]*  
Mr. Suprovat Basu (Deputy Registrar) *[Signature]*

### External Audit Member

Dr. Anup Sikdar (NAAC Expert) *[Signature]*  
Dr. Chandan Das (Principal, SVIMS)  
Mr. Milan Mazumdar (Principal, RIST) *[Signature]*

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# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

### REPORT ON THE ACADEMIC AUDIT (Academic Year July, 2023 - June, 2024)

1. Name of the department : Electronics and Communication Engineering
2. Vision of the department :

"Uttishthata/JagrataPrapyaVaranNibodhata" (Arise, Awake and Stop not till the goal is reached); Holistic development of the stakeholders.

Led by the essence of Katha Upanishad and Swami Vivekananda

"Uttishthata/JagrataPrapyaVaranNibodhata," i.e. "Arise, Awake and Stop not till the goal is reached". RERF Group of Institutions' vision is to attain quality education by keeping pace with changing technologies and bringing out professionals with a sense of social responsibility, competent of making significant contributions to both personal and national abundance.

3. No of available seat (lateral entry) : 57
4. No. of applications received program wise : 32
5. No of eligible applications received : 27
6. Overall Demand Ratio : 32:57  
(No. of applications received/ No of available seat)

7. Students enrollment (Year wise) :

|                      | General |    |   | SC |   |   | ST |   |   | OBC |   |   | Total |    |   | Minority |   |   | PWD |   |   |
|----------------------|---------|----|---|----|---|---|----|---|---|-----|---|---|-------|----|---|----------|---|---|-----|---|---|
|                      | M       | F  | T | M  | F | T | M  | F | T | M   | F | T | M     | F  | T | M        | F | T | M   | F | T |
| 1 <sup>st</sup> Year | 6       | 1  | 0 | 3  | 0 | 0 | 0  | 0 | 0 | 2   | 0 | 0 | 11    | 1  | 0 | 1        | 0 | 0 | 0   | 0 | 0 |
| 2 <sup>nd</sup> Year | 19      | 7  | 0 | 3  | 0 | 0 | 0  | 0 | 0 | 4   | 3 | 0 | 26    | 10 | 0 | 1        | 1 | 0 | 0   | 0 | 0 |
| 3 <sup>rd</sup> Year | 29      | 10 | 0 | 8  | 1 | 0 | 1  | 0 | 0 | 6   | 1 | 0 | 44    | 12 | 0 | 3        | 1 | 0 | 0   | 0 | 0 |
| 4 <sup>th</sup> Year | 31      | 10 | 0 | 9  | 2 | 0 | 0  | 0 | 0 | 8   | 3 | 0 | 48    | 15 | 0 | 2        | 0 | 0 | 0   | 0 | 0 |
| Grand Total          | 85      | 28 | 0 | 23 | 3 | 0 | 1  | 0 | 0 | 20  | 7 | 0 | 129   | 38 | 0 | 7        | 2 | 0 | 0   | 0 | 0 |

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### 8. Student enrollment statistics:

|                      | From the state where the institution is located | From other states of India | NRI students | Total |
|----------------------|-------------------------------------------------|----------------------------|--------------|-------|
| 1 <sup>st</sup> Year | 12                                              | 0                          | 0            | 12    |
| 2 <sup>nd</sup> Year | 36                                              | 0                          | 0            | 36    |
| 3 <sup>rd</sup> Year | 56                                              | 0                          | 0            | 56    |
| 4 <sup>th</sup> Year | 63                                              | 1                          | 0            | 63    |
| Grand total          | 166                                             | 1                          | 0            | 167   |

### 9. No. of students graduating in the year:

| Male | Female | Total |
|------|--------|-------|
| 48   | 15     | 63    |

10.(a) Total Number of classrooms and seminar halls: Classroom – 03, Seminar Hall-01

(b) Number of classroom with ICT facilities: 02

(c) Number of 1<sup>st</sup> year laboratories: 3

(d) Total number of laboratories: 10

11. (a) Computer facility:

(b) Number of computer available for the students: Central Computer Facility

(c) Internet facility to staffs/students: Yes

12. Number of students qualifying in state/ national/ international level examinations (eg: GATE/GMAT/CAT/GRE/TOEFL/Central government/State government examinations): No

13. No. of awards received by students: NA

14. Number of outgoing students placed during the year: 08

15. Students Progression to Higher Studies (Numbers only): 02

16. Success rate of students (% of student passed): 38%

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## REGENT EDUCATION & RESEARCH FOUNDATION Group of Institutions

17. Faculty strength and specialization: Faculty Members are experienced and highly qualified. No of PhD faculty: 01

| SL No | Name                   | Designation        | Qualifications | Specialization                | No. of M.Phil/Ph.D supervised (in last five years) |
|-------|------------------------|--------------------|----------------|-------------------------------|----------------------------------------------------|
| 1     | Mr. Sukdeb Saha        | HOD & Assist Prof. | M.Tech         | Radio Physics & Electronics   | Nil                                                |
| 2     | Mr. Pulak Mazumder     | Assist Prof.       | M.Tech         | Electronics and communication | Nil                                                |
| 3     | Ms. Poulmi Banerjee    | Assist Prof.       | M.Tech         | Electronics and communication | Nil                                                |
| 4     | Mr. Chintan Roy        | Assist Prof.       | M.Tech         | Electronics and communication | Nil                                                |
| 5     | Mrs. Subarna Mondal    | Assist Prof.       | M.Tech         | Electronics and communication | Nil                                                |
| 6     | Dr. Soma Chakraborty   | Assist Prof.       | PhD            | Electronics and communication | Nil                                                |
| 7     | Ms. Munmoon Chaki      | Assist Prof.       | M.Tech         | Electronics and communication | Nil                                                |
| 8     | Dr. Suparna Panchanan  | Assist Prof.       | PhD            | Electronics and communication | Nil                                                |
| 9     | Mr. Amit Ghosh         | Assist Prof.       | M.Tech         | Electronics and communication | Nil                                                |
| 10    | Dr. Dipankar Biswas    | Asso Prof.         | PhD            | Electronics and communication | Nil                                                |
| 11    | Dr. Himeli Chakrabarti | Asso Prof.         | PhD            | Electronics and communication | Nil                                                |

### Teaching

| Designation         | Total |
|---------------------|-------|
| Professor           | 0     |
| Associate Professor | 2     |
| Assistant Professor | 9     |
| Others              | 0     |

### Non teaching staff

| Designation         | Total |
|---------------------|-------|
| Technical Assistant | 1     |
| Other               | 0     |

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# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

18. Teacher: student ratio: 1:20

19. Frequency of revision of Syllabus: Affiliated college  
(year in which syllabus last revised): 2018-19

20. Research Publications in the Journals during the year:

| Title of paper                                                                                     | Name of author(s)   | Name of Journal   | Year of Publication with Volume and Page numbers | ISBN/ISSN | Indicate UGC Approved Journal | National/International Journal | Impact Factor (if any) |
|----------------------------------------------------------------------------------------------------|---------------------|-------------------|--------------------------------------------------|-----------|-------------------------------|--------------------------------|------------------------|
| Development of an interactive GUI using MATLAB for the detection of type and stage of Breast Tumor | Ms. Poulmi Banerjee | MuktShabd Journal | 2024 (Vol.xiii); 6 pages                         | 2347-3150 | UGC Approved                  | National Journal               | 4.6                    |

21. Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Faculty during the year

| Name of the faculty | Title of the book / chapters published | Title of the paper | Title of the proceedings of the conference | Name of the conference | National / international | Year of publication | ISBN/ISSN number of the proceeding | Name of the publisher |
|---------------------|----------------------------------------|--------------------|--------------------------------------------|------------------------|--------------------------|---------------------|------------------------------------|-----------------------|
| NA                  | NA                                     | NA                 | NA                                         | NA                     | NA                       | NA                  | NA                                 | NA                    |

22. Number of Patents filed/published/awarded:

| Sl. No. | Patent application | Status (Publish/Granted) | Date of Publication/Grant | Publication/Grant Number | Applicant's name | Title |
|---------|--------------------|--------------------------|---------------------------|--------------------------|------------------|-------|
|---------|--------------------|--------------------------|---------------------------|--------------------------|------------------|-------|

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| number |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|
| NA     | NA | NA | NA | NA | NA | NA |
|        |    |    |    |    |    |    |
|        |    |    |    |    |    |    |

23. (a) Mechanism of interaction with students (Lectures/tutorials/practical): Lectures, Tutorials and practical in some papers as MAKAUT Syllabus.  
(b) Non credit course offered by the department (if any) Nil

24. Mode of evaluation: 4CAs (Continuous Evaluation) and theory paper written exam and practical exam.

25. Student Mentoring:

| Name of Mentor        | Total number of mentees |
|-----------------------|-------------------------|
| Mr. Pulak Mazumder    | 21                      |
| Ms. Poulmi Banerjee   | 22                      |
| Mr. Chintan Roy       | 22                      |
| Mrs. Subarna Mondal   | 21                      |
| Dr. Soma Chakraborty  | 21                      |
| Ms. Munmoon Chaki     | 20                      |
| Dr. Suparna Panchanan | 20                      |
| Mr. Amit Ghosh        | 20                      |

26. Details of seminar/conference/workshops/training programmes/Webinars organized during the year:

| Sl. No | Name of Convener/Coordinator | Title of seminar/course | Duration with dates | No. of internal and external participants |
|--------|------------------------------|-------------------------|---------------------|-------------------------------------------|
|        | Nil                          | Nil                     | Nil                 | Nil                                       |

27. No. of guest speaker invited in the year: No

28. No. of PTM organized: 04

29. (a) Library facilities available for students: Book bank, reference book, journals, digital library  
(b) Library book: student: 6:1 (Approx)

30. Details of alumni of the Department with their present employment:

*Campus : Regent Education & Research Foundation Group of Institutions*

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## REGENT EDUCATION & RESEARCH FOUNDATION Group of Institutions

| Name of Student    | Email                           | Ph.No      | Designation               | Present employer                          | Employer address | Pay package at appointment |
|--------------------|---------------------------------|------------|---------------------------|-------------------------------------------|------------------|----------------------------|
| Sagnik Adhikari    | adhikarisagnik1999@gmail.com    | 8902838382 | Trainee Engineer          | SS Medicorp                               | Kolkata          |                            |
| Sayed Tousif Alam  | tousif2001alam@gmail.com        | 8918175575 | Associate System Engineer | TCS                                       | Kolkata          | 5.5 LPA                    |
| Alakesh Mistry     | alakesh.iam9@gmail.com          | 9382766986 | Trainee Engineer          | Schneider Electric                        | Bangalore        |                            |
| Tiyasa Rudra       | tiyasa.rudra188981@gmail.com    | 8918175575 | Trainee Engineer          | Dhoot Transmission and Varroc Engineering | Pune             |                            |
| Pragati Roy        | pragatiroy98@gmail.com          | 7477647592 | Trainee Engineer          | Varroc Engineering                        | Kolkata          |                            |
| Pratistha Pramanik | pramanikpratistha@gmail.com     | 6295395518 | Technical sales           | Amaika associates                         | Kolkata          |                            |
| Somdeb Kundu       | somdebkundu.etce.3003@gmail.com | 7044404970 | Technical sales           | Amaika associates                         | Kolkata          |                            |
| Arpan Saha         | sahaarpan1234@gmail.com         | 8013086525 | Technical sales           | Amaika associates                         | Kolkata          |                            |

31. No. of Functional MoUs: Nil

32. SWOC Analysis

A. Strength:

- i) ECE Department is very strong in terms of Human Resources quality. Both faculty and TA qualities are excellent
- (ii) The department has top grade infrastructure with excellent laboratories and spacious class-rooms
- iii) Department has two digital classrooms
- iv) All the faculties maintain the regular class activities strictly
- v) Department has maintain the proper mentorship to improve the student quality

B. Weaknesses:

- (i) Need to improve communication skills of students to increase the placement record
- (ii) Scarcity of senior faculty members especially Associate Professors and Professors

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# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

### C. Opportunities:

- i) Departmental laboratories and Libraries are well equipped to carry out project works
- ii) Remedial classes are provided to the weak students.
- iii) Evening Online classes are also conducted to clear the doubts of the relatively weaker students.
- iv) Grooming Classes are provided to all students to prepare them for Campus Interview or other Jobs.
- v) Seminar/Webinars are arranged by department/college in a regular basis to enrich students and faculty members about different technical domains.

### Challenges:

- i) Curriculum and Syllabi needs to be reviewed and modified continually to face the emerging requirements
- ii) Optimization of the balance between teaching and research need to be tuned further
- iii) Placement of students in core companies is feeble
- iv) Lack of International collaboration is to be overcome

32. Any other information, which is not covered above: No

33. Suggested Road map keeping students' interest in the core and to ensure better visibility:

- i) To improve the statistics regarding the progression of students to higher studies by shifting their inclination towards research related activities.
- ii) To encourage more students to establish their project works as a published paper in a reputed Journal.
- iii) Focus on Campus Interview preparation, to get job in core/software companies

*Sukdpto Saha*

04.10.2024

Head of the Department  
Department of Electronics and Communication Engineering  
Regent Education & Research Foundation Group of Institutions

Principal

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Dr. Anindita Das (Dean, Administration and Student Affairs) ✓

Dr. Rajorshi Bandhopadhyay (Dean, IQAC) ✓

Mr. Suprovat Basu (Deputy Registrar) ✓

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Dr. Anup Sikdar (NAAC Expert) ✓

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# REGENT EDUCATION & RESEARCH FOUNDATION Group of Institutions

## REPORT ON THE ACADEMIC AUDIT (Academic Year July, 2023 - June, 2024)

1. Name of the department : Electrical Engineering Department
2. Vision of the department : To become a department of eminence in the field of Electrical Engineering
3. No. of available Seat (Lateral Entry) : 52
4. No. of applications received program wise: 40
5. No. of eligible applicants : 35
6. No. of applications received: No. of available Seat : 40:52
7. Students enrollment (Year wise) :

|                      | General |   |   | SC |   |   | ST |   |   | OBC |   |   | Total |    |   | Minority |   |   | PWD |   |   |
|----------------------|---------|---|---|----|---|---|----|---|---|-----|---|---|-------|----|---|----------|---|---|-----|---|---|
|                      | M       | F | T | M  | F | T | M  | F | T | M   | F | T | M     | F  | T | M        | F | T | M   | F | T |
| 1 <sup>st</sup> Year | 16      | 1 | 0 | 1  | 0 | 0 | 0  | 0 | 0 | 3   | 1 | 0 | 19    | 3  | 0 | 0        | 0 | 0 | 0   | 0 | 0 |
| 2 <sup>nd</sup> Year | 30      | 4 | 0 | 7  | 0 | 0 | 0  | 0 | 0 | 5   | 1 | 0 | 42    | 5  | 0 | 0        | 0 | 0 | 0   | 0 | 0 |
| 3 <sup>rd</sup> Year | 22      | 1 | 0 | 16 | 0 | 0 | 1  | 0 | 0 | 21  | 2 | 0 | 59    | 4  | 0 | 0        | 0 | 0 | 0   | 0 | 0 |
| 4 <sup>th</sup> Year | 20      | 3 | 0 | 18 | 0 | 0 | 0  | 0 | 0 | 15  | 0 | 0 | 53    | 3  | 0 | 0        | 0 | 0 | 0   | 0 | 0 |
| Grand Total          | 80      | 6 | 0 | 41 | 0 | 0 | 1  | 0 | 0 | 42  | 3 | 0 | 159   | 11 | 0 | 0        | 0 | 0 | 0   | 0 | 0 |

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### 9. Student enrollment statistics :

|                      | From the state where the institution is located | From other states of India | NRI students | Total |
|----------------------|-------------------------------------------------|----------------------------|--------------|-------|
| 1 <sup>st</sup> Year | 19                                              | 3                          | 0            | 22    |
| 2 <sup>nd</sup> Year | 28                                              | 1                          | 0            | 29    |
| 3 <sup>rd</sup> Year | 61                                              | 2                          | 0            | 63    |
| 4 <sup>th</sup> Year | 56                                              | 0                          | 0            | 56    |
| Grand total          | 164                                             | 6                          | 0            | 170   |

### 10. No. of students graduating in the year :

| Male | Female | Total |
|------|--------|-------|
| 53   | 3      | 56    |

- (a) Total Number of classrooms and seminar halls : 1 (Centralized) seminar hall and 4 class room (including 1<sup>st</sup> year)
- (b) Number of classrooms with ICT facilities : 1 common( EE &EEE) ICT facility classroom
- (c) Number of 1<sup>st</sup> year laboratories : 1
- (d) Total number of laboratories : 7+1 (software lab for all)
11. (a) Computer facility : Centralized
- (b) Number of computer available for the students : 410
- (c) Internet facility to staffs/students : Yes
12. Number of students qualifying in state/ national/ international level examinations (eg: GATE/GMAT/CAT/GRE/TOEFL/Central Government/State government examinations) :NO
13. No. of awards received by students : 1 (2nd place obtain in SIH2023)
14. Number of outgoing students placed during the year : 45
15. Students Progression to Higher Studies (Numbers only) : NA
16. Success rate of students (% of student passed) : 70

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### 17. Faculty strength and specialization

| Sl. No. | Name                       | Designation           | Qualifications            | Specialization                   | No. of M.Phil/Ph.D supervised (in last five years) |
|---------|----------------------------|-----------------------|---------------------------|----------------------------------|----------------------------------------------------|
| 1.      | SANJIB PAL                 | Assistant Prof. & HOD | Ph.D (registered), M.TECH | Electrical Device & Power System | NA                                                 |
| 2.      | RAJALAKSHMI CHANDRA SEKHAR | Assistant Professor   | M.Tech                    | Illumination Engineering         | NA                                                 |
| 3.      | DR. ARINDITA SAHA          | Associate Professor   | Ph.D                      | Power System                     | NA                                                 |
| 4.      | BIDYUT KUMAR GHOSH         | Assistant Professor   | Ph.D (registered), M.Tech | Electrical Device & Power System | NA                                                 |
| 5.      | MRINMOY DAS                | Assistant Professor   | M.Tech                    | Electrical Device & Power System | NA                                                 |
| 6.      | PRABAL KUMAR BASAK         | Assistant Professor   | M.E                       |                                  | NA                                                 |
| 7.      | SANDEEP CHAKRABORTY        | Assistant Professor   | M.Tech                    | Electrical Device & Power System | NA                                                 |
| 8.      | DR. SUMAN JANA             | Associate Professor   | Ph.D                      | Renewable Energy                 | NA                                                 |
| 9.      | SREEDIP GHOSH              | Assistant Professor   | Ph.D (registered), M.Tech | Renewable Energy                 | NA                                                 |
| 10.     | AJITESH GHOSH              | Technical Assistant   | Diploma                   | Electrical Engineering           | NA                                                 |

### Teaching

| Designation         | Total |
|---------------------|-------|
| Professor           | 0     |
| Associate Professor | 2     |
| Assistant Professor | 7     |
| Others              | -     |

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### Non teaching staff

| Designation         | Total |
|---------------------|-------|
| Technical Assistant | 1     |
| Other               | 0     |

18. Teacher: student ratio : 9:148  
 19. Frequency of revision of Syllabus : Affiliated college  
 (year in which syllabus last revised)

### 20. Research Publications in the Journals during the year :

| Title of paper                                                                                                                                                            | Name of author (s)                                                  | Name of Journal                          | Year of Publication with Volume and Page numbers | ISBN/ISSN | Indicate UGC Approved Journal | National/International Journal | Impact Factor (if any) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------|--------------------------------------------------|-----------|-------------------------------|--------------------------------|------------------------|
| 1.Implementation of combined hydrogen aqua electrolyser-fuel cell and redox-flow-battery under restructured situation of AGC employing TSA optimized PDN(FOP1) controller | Arindita Saha, Puja Dash, Trimalasetty Chiranjeevi, Naladi Ram Babu | Journal of Taibah University for Science | 2024                                             | 1658-3655 | Yes                           | International                  | 2.8                    |

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|                                                                                                                                                            |                                                                                                                                                                                                          |                                          |      |           |     |               |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------|-----------|-----|---------------|-----|
| 2.<br>Employment of renewable based sources in amalgamated frequency-voltage control restructured system with TSA trained IPD(1+I) controller              | Arindita Saha, Mahajan SagarBhaskar Ranjani, DhaferAlmakhlles, Mahmoud F. Elmorshedy                                                                                                                     | Renewable Energy                         | 2023 | 1879-0682 | Yes | International | 9.0 |
| 3.<br>Frequency Control of a Realistic Dish Stirling Solar Thermal System and Accurate HVDC Models Using a Cascaded FO-PI-IDDN Based Crow-Search Algorithm | Nalini Ram Babu, Sanjeev Kumar Bhagat, Tirumalasetty Chiranjeevi, Mukesh Pushkarna, Arindita Saha, HossamKotb, Kareem M. AboRas, Faisal Alsaif, Sager Alsulamy, YazeedYasinGhadi, Djoudjo Temene Hermann | International Journal of Energy Research | 2023 | 0363-907X | Yes | International | 4.3 |
| 4.<br>Evaluation of renewable and energy storage system-                                                                                                   | Arindita Saha, Puja Dash, M.S. Bhaskar, DhaferAlmakhlles, Mahmoud F. Elmorshedy                                                                                                                          | Ain Shams Engineering Journal            | 2023 | 2090-4479 | yes | International | 6.0 |

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|                                                                                                                                                                      |                                                                                                                                                                           |                                                                                  |      |           |     |               |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------|-----------|-----|---------------|-----|
| based<br>interlinked<br>power<br>system with<br>artificial<br>rabbit<br>optimized<br>PI(FOPD)<br>cascaded<br>controller                                              |                                                                                                                                                                           |                                                                                  |      |           |     |               |     |
| 5. Application of RT-Lab in Multi-Area AGC System under Deregulated Environment Considering IPFC-SMES                                                                | Naladi Ram Babu, Tirumalasetty Chiranjeevi, Arindita Saha                                                                                                                 | Iranian Journal of Science and Technology Transactions of Electrical Engineering | 2024 | 2364-1827 | Yes | International | 1.5 |
| 6. Effect of the inclusion of Fe <sub>2</sub> O <sub>3</sub> on the optical and electrical transport properties into sodium zinc-phosphate quaternary glassy systems | Bidyut Kumar Ghosh, Dipankar Biswas, Saurav Ganguly, Ajit Debnath, Debabrata Mandal, Sk. Shaharukh, Shuma Adhikari, Ritwick Mondal, Soumyajyoti Kabi, Anindya Sundar Das. | Material Today Communication                                                     | 2024 | 2352-4928 | Yes | International | 3.7 |
| 7. Effect of the iron content on                                                                                                                                     | Dipankar Biswas, Bidyut Kumar Ghosh,                                                                                                                                      | Journal of Non-Crystall                                                          | 2024 | 0022-3093 | Yes | International | 3.2 |

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|                                                                                                                                                                            |                                                                                                                 |                              |      |           |     |               |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------|------|-----------|-----|---------------|-----|
| the thermal and dielectric relaxation process of sodium zinc-phosphate quaternary glassy systems                                                                           | Ashok Das, SoumyaKanti Hazra, AnindyaSundar Das, Rittwick Mondal, SoumyajyotiKabi, ShumaAdhikari                | ine Solids                   |      |           |     |               |     |
| 8. Investigation of the physical, thermal, and dielectric relaxation of bismuth zinc phosphate glasses modified with lithium ions for possible energy storage applications | Bidyut Kumar Ghosh, Dipankar Biswas, ShumaAdhikari, Rittwick Mondal, SoumyajyotiKabi&LoitongbamSurajkumar Singh | Journal of Materials Science | 2024 | 0022-2461 | Yes | International | 3.5 |

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21. Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Faculty during the year

| Name of the faculty  | Title of the book/chapters published                                                     | Title of the paper                                                                                                    | Title of the proceedings of the conference | Name of the conference | National / international | Year of publication | ISBN/ISSN number of the proceeding | Name of the publisher |
|----------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------|--------------------------|---------------------|------------------------------------|-----------------------|
| 1. Dr. Arindita Saha | In book: Advanced Frequency Regulation Strategies in Renewable - Dominated Power Systems | Utilization of solid oxide fuel cell in amalgamated frequency-voltage control of RES-based restructured power systems | NA                                         | NA                     | International            | 2023-2024           | 978-0-323-95054-1                  | Elsevier              |
| 2. Dr. Arindita Saha | In book: Advanced Frequency Regulation Strategies in Renewable - Dominated Power Systems | Impacts of FACTS controllers in frequency regulation services of modern restructured power system                     | NA                                         | NA                     | International            | 2023-2024           | 978-0-323-95054-1                  | Elsevier              |

22. Number of Patents filed/published/awarded :

| Sl. No. | Patent application number | Status (Publish/Granted) | Date of Publication/Grant | Publication/Grant Number | Applicant's name | Title                          |
|---------|---------------------------|--------------------------|---------------------------|--------------------------|------------------|--------------------------------|
| 1.      | 201931029953              | Granted                  | 28/02/2024                | 516905                   | Dr. Suman Jana   | A System to Store High Voltage |

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|    |              |         |            |        |                     |                                                                                            |
|----|--------------|---------|------------|--------|---------------------|--------------------------------------------------------------------------------------------|
| 2. | 201831017853 | Granted | 21/11/2023 | 471363 | Dr. Suman Jana      | Surge Para foil Kite Controller Using Linear Actuators                                     |
| 3. | 201831017852 | Granted | 01/02/2024 | 506127 | Dr. Suman Jana      | Dual Kite-Based Continuous Highaltitude Windpower Generation System                        |
| 4. | 202331063820 | Pending | 22/10/2023 |        | Dr. Suman Jana      | An Energy Harvesting Apparatus For Seamless Solar To Wind Energy Transition And Vice Versa |
| 5. | 202431031350 | Pending | 19/04/2024 |        | Dr. Suman Jana      | Multi-Layered Four-Dimensional QR Code System With Biometric Authentication                |
| 6. | 202431034808 | Pending | 02/05/2024 |        | Dr. Suman Jana      | Advanced Ai-Driven Semi-Submersible Sensing System For Dynamic Water Body Analysis         |
| 7. | 202331063820 | pending | 22/09/2023 |        | Sandeep Chakraborty | An Energy Harvesting Apparatus For Seamless                                                |

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|  |  |  |  |  |  |                                                            |
|--|--|--|--|--|--|------------------------------------------------------------|
|  |  |  |  |  |  | Solar To<br>Wind Energy<br>Transition<br>And Vice<br>Versa |
|--|--|--|--|--|--|------------------------------------------------------------|

23. (a) Mechanism of interaction with students (Lectures/tutorials/practical): Lectures, Tutorials, Practical, remedial, online classes.

(b) Non credit course offered by the department (if any) : 1

24. Mode of evaluation : Semester, CA, Practical, Assignment

25. Student Mentoring

| Name of Mentor     | Total number of mentees |
|--------------------|-------------------------|
| Arindita Saha      | 17                      |
| Chiranjit Ghosh    | 12                      |
| Enakshmi Nandi     | 24                      |
| Prabal Kumar Basak | 20                      |
| Bidyut Kumar Ghosh | 19                      |
| C. Rajalakshmi     | 30                      |
| Mrinmoy Das        | 26                      |

26. Details of seminar/conference/workshops/training programmes/Webinars organized during the year:

| Sl. No | Name of Convener/Coordinator | Title of seminar/course                   | Duration with dates         | No. of internal and external participants |
|--------|------------------------------|-------------------------------------------|-----------------------------|-------------------------------------------|
| 1      | Dr. Arindita Saha            | Generalized Overview of Rotating Machines | 24/05/2024, 10.45-11.45 A.M | 79                                        |

27. No. of guest speaker invited in the year : 1

28. No. of PTM organized : 1

29. (a) Library facilities available for students: Book bank, reference book, journals, digital library

(b) Library book: student : 6;1

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30. Details of alumni of the Department with their present employment :

| Name of Student     | Email                           | Ph.No      | Designation                         | Present employer                             | Employer address   | Pay package at appointment |
|---------------------|---------------------------------|------------|-------------------------------------|----------------------------------------------|--------------------|----------------------------|
| Sk Hyder Ali        | skrajktan13@gmail.com           | 6296671904 | Trainee                             | Jolly Engineering Enterprise                 | Tapsia, Kolkata    |                            |
| Swarnali Chatterjee | chatterjeeswarnali154@gmail.com | 6290334205 | Senior process associate            | Teleperformance                              | Kolkata            |                            |
| Arka Banik          | 118111er7@gmail.com             | 6291938346 | Junior Draftsman                    | Saent India Engineering Consultants Pvt. Ltd | Ballygunj, Kolkata |                            |
| Sanjay Roy          | sanjayroywb84@gmail.com         | 9804234275 | Trainee                             | PMKVY                                        | Guna, Habra        |                            |
| Masud U Rahaman     | amimasud000@gmail.com           | 9530661066 | Maintenance supervisor              | Barunati Agro limited                        | Kolkata            |                            |
| Bishal Debnath      | bishaldebnath2211@gmail.com     | 7005699235 | Trainee                             | Indigo                                       | Kolkata            |                            |
| Souvik Sarkar       | iamsorkarSouvik@gmail.com       | 8371075079 | Owner                               | NEXTGEN AGROTECH PRIVATE LIMITED             | Chakdaha, Nadia    |                            |
| Soumen Sahoo        | sahoosoumen75@gmail.com         | 6290160586 | SYSTEM OPERATOR                     | HONEYWELL                                    | Kolkata            |                            |
| Gobinda Paul        | gpaul1181@gmail.com             | 9382297811 | LQC                                 | PG ELECTROPLAST Pvt. Ltd.                    | Purse              |                            |
| Biplab Mistry       | biplabmistry8622@gmail.com      | 8777819665 | Multi Skill Technician (Electrical) | Custodian Corporate Services Pvt. Ltd        | Kolkata            |                            |
| Mrinmoy Pramanick   | pramanickmrinmoy96@gmail.com    | 8013296589 | Electrical Maintenance Engineer     | Tundhian Poly Plast Pvt Ltd                  | Utebela, Howrah    |                            |
| Avishek Majumder    | augd773@gmail.com               | 8637318464 | Junior Draftsman                    | Saent India Engineering Consultants Pvt. Ltd | Ballygunj, Kolkata |                            |

31. No. of Functional MoUs :

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### 32. SWOC Analysis:

#### A. Strength:

1. Qualified and Experienced faculty as well as Teaching Assistants.
2. The infrastructural facility of Laboratory for Undergraduate level is latest.
3. Better Campus discipline and Ragging free environment.
4. Internet facility and implementation of ERP system make the working culture efficient.

#### B. Weaknesses:

1. There should be more books and journals in the department library.
2. Non-availability of research grants from funding agencies.
3. Improper faculty- cadre ratio.
4. Students' communication and soft skills need to be strengthened.

#### C. Opportunities:

1. The department encourages teachers to pursue research and Ph.D. Hence, it is a huge opportunity of teachers in this department for self-growth.
2. Opportunity to do more thorough study in all electrical engineering-related fields.
3. The potential to become a successful, independent business owner by taking use of the advantages and support provided by management.
4. Opportunity to create multidisciplinary projects that benefit society.

#### D. Challenges:

1. To excel in teaching of theory papers supported by good laboratory experimental set-up.
2. To initiate the Research work in different specialization of EE.
3. To support the under-privileged/ weak students.
4. To collaborate with industry to solve the industrial problems.

### 33. Any other information, which is not covered above:

Our institution is dedicated to fostering holistic development by providing a robust academic foundation, state-of-the-art infrastructure, and a nurturing environment for students. With experienced faculty, modern laboratories, and industry-driven curricula, we ensure students gain both theoretical knowledge and practical skills essential for success in today's competitive world. The institution focuses on opportunities for research, innovation, and entrepreneurship through collaborations with industries, value-added courses,

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and participation in technical events. To address challenges, we continuously evolve our teaching methodologies, integrate emerging technologies, and enhance career support to meet the dynamic demands of the professional landscape. By prioritizing student well-being, leadership development, and global exposure, we empower learners to overcome weaknesses, seize opportunities, and excel in their chosen fields, making them future-ready professionals.

### 34. Suggested Road map keeping students' interest in the core and to ensure better visibility :

To uplift students' interest in Electrical Engineering, it is essential to bridge the gap between theory and real-world applications by incorporating hands-on learning, projects, and interactive simulations. Demonstrating how electrical engineering drives innovation in renewable energy, robotics, automation, and AI can inspire students by connecting their studies to impactful advancements. Workshops, industry collaborations, and exposure to cutting-edge technologies like IoT, smart grids, and electric vehicles make the subject exciting and relevant. Encouraging participation in competitions, research opportunities, and value-added courses also fosters curiosity and passion, empowering students to envision meaningful careers in the field.

### Observations of the Academic Audit Team (To be filled by IQAC/Audit Committee):

#### Internal Audit Member

| Name                                                        | Signature |
|-------------------------------------------------------------|-----------|
| Dr. Sudip Basack (Principal)                                |           |
| Mr. Subhankar Ghosh (Registrar)                             |           |
| Dr. Anindita Das (Dean, Administration and Student Affairs) |           |
| Dr. Rajorshi Bandyopadhyay (Dean, IQAC)                     |           |
| Mr. Suprovat Basu (Deputy Registrar)                        |           |

#### External Audit Member

| Name                                 | Signature |
|--------------------------------------|-----------|
| Dr. Anup Sikdar (NAAC Expert)        |           |
| Dr. Chandan Das (Principal, SVIMS)   |           |
| Mr. Milan Mazumder (Principal, RIST) |           |

Principal

Regent Education & Research Foundation  
Bara Kanthalia, P.O.-Sewli Telinipara  
Barrackpore, Kolkata-700121

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# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

### REPORT ON THE ACADEMIC AUDIT (Academic Year July, 2023 - June, 2024)

1. Name of the department : Electrical and Electronics Department
2. Vision of the department : To impart technical knowledge and skills required to succeed in life, career and help society to achieve self-sufficiency.
3. No. of available Seat (Lateral Entry) : 62
4. No. of applications received program wise : 46
5. No. of eligible applicants : 40
6. Overall Demand Ratio (No. of applications received: No. of available Seat) : 46:62
7. Students enrollment (Year wise) :

|                      | General |    |   | SC |   |   | ST |   |   | OBC |   |   | Total |    |   | Minority |   |   | PWD |   |   |
|----------------------|---------|----|---|----|---|---|----|---|---|-----|---|---|-------|----|---|----------|---|---|-----|---|---|
|                      | M       | F  | T | M  | F | T | M  | F | T | M   | F | T | M     | F  | T | M        | F | T | M   | F | T |
| 1 <sup>st</sup> Year | 7       | 0  | 0 | 1  | 0 | 0 | 0  | 0 | 0 | 0   | 0 | 0 | 8     | 0  | 0 | 0        | 0 | 0 | 0   | 0 | 0 |
| 2 <sup>nd</sup> Year | 22      | 1  | 0 | 14 | 1 | 0 | 0  | 0 | 0 | 6   | 0 | 0 | 42    | 2  | 0 | 0        | 0 | 0 | 0   | 0 | 0 |
| 3 <sup>rd</sup> Year | 34      | 3  | 0 | 8  | 0 | 0 | 0  | 0 | 0 | 14  | 1 | 0 | 56    | 4  | 0 | 0        | 0 | 0 | 0   | 0 | 0 |
| 4 <sup>th</sup> Year | 21      | 9  | 0 | 8  | 1 | 0 | 0  | 0 | 0 | 14  | 2 | 0 | 43    | 12 | 0 | 0        | 0 | 0 | 0   | 0 | 0 |
| Grand Total          | 84      | 13 | 0 | 31 | 2 | 0 | 0  | 0 | 0 | 34  | 3 | 0 | 149   | 18 | 0 | 0        | 0 | 0 | 0   | 0 | 0 |

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# REGENT EDUCATION & RESEARCH FOUNDATION

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### 8. Student enrollment statistics :

|                      | From the state where the institution is located | From other states of India | NRI students | Total |
|----------------------|-------------------------------------------------|----------------------------|--------------|-------|
| 1 <sup>st</sup> Year | 8                                               | 0                          | 0            | 8     |
| 2 <sup>nd</sup> Year | 42                                              | 2                          | 0            | 44    |
| 3 <sup>rd</sup> Year | 59                                              | 1                          | 0            | 60    |
| 4 <sup>th</sup> Year | 52                                              | 3                          | 0            | 55    |
| Grand total          | 161                                             | 6                          | 0            | 167   |

### 9. No. of students graduating in the year :

| Male | Female | Total |
|------|--------|-------|
| 53   | 10     | 63    |

10. (a) Total Number of classrooms and seminar halls : 1 Seminar Hall (Centralized), 4 class room  
(b) Number of classrooms with ICT facilities : 1 common ICT facility (EE & EEE) classroom  
(c) Number of 1<sup>st</sup> year laboratories : 1  
(d) Total number of laboratories : 8 Hardware Lab + 1 Software lab (used solely by EEE & EE Department) and 8 Lab (used with other depts. like ECE, CSE)
11. (a) Computer facility : Centralized  
(b) Number of computer available for the students : 410  
(c) Internet facility to staffs/students : Yes
12. Number of students qualifying in state/ national/ international level examinations (eg:GATE/GMAT/CAT/GRE/TOEFL/Central Government/State government examinations):
13. No. of awards received by students : 1  
14. Number of outgoing students placed during the year : 42  
15. Students Progression to Higher Studies (Numbers only) : 1  
16. Success rate of students (% of student passed) : 32.72%

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# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

17. Faculty strength and specialization

:

| Sl. No. | Name                     | Designation         | Qualifications                  | Specialization                           | No. of M.Phil/Ph.D supervised (in last five years) |
|---------|--------------------------|---------------------|---------------------------------|------------------------------------------|----------------------------------------------------|
| 1.      | SUMAN KR DEY             | Assistant Professor | Ph.D                            | Power System Optimization                | NA                                                 |
| 2.      | DR. RAJORSHI BANDOPADHAY | Associate Professor | Ph.D                            | Computational Electrodynamics            | NA                                                 |
| 3.      | ASHMITA GUHA CHOWDHURY   | Assistant Professor | M.Tech                          | Electrical Device & Power System         | NA                                                 |
| 4.      | ARKADEEP MONDAL          | Assistant Professor | M.Tech                          | Power System                             | NA                                                 |
| 5.      | DR. SUMAN JANA           | Assistant Professor | Ph.D                            | Power System & Renewable Energy          | NA                                                 |
| 6.      | PRODIP MOZUMDAR          | Assistant Professor | M.Tech                          | VLSI & Microelectronics                  | NA                                                 |
| 7.      | ENAKSHMI NANDI           | Assistant Professor | M.Tech, Ph.D (Thesis Submitted) | VLSI & Microelectronics, Cloud Computing | NA                                                 |
| 8.      | CHIRANJIT GHOSH          | Assistant Professor | M.Tech                          | Electrical Device and Power System       | NA                                                 |
| 9.      | SILVI MAJI               | Assistant Professor | M.Tech                          | Power Electronics and Drive              | NA                                                 |
| 10.     | RUPAM KUMAR CHATTERJEE   | Assistant Professor | M.Tech                          | Electrical Engineering                   | NA                                                 |

Teaching:

| Designation         | Total |
|---------------------|-------|
| Professor           | 0     |
| Associate Professor | 1     |
| Assistant Professor | 9     |
| Others              | NA    |

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Non-teaching staff:

| Designation         | Total |
|---------------------|-------|
| Technical Assistant | 05    |
| Other               |       |

18. Teacher: student ratio : 10:167  
 19. Frequency of revision of Syllabus (year in which syllabus last revised) : Affiliated college so syllabus was last revised in 2018 by MAKAUT.  
 20. Research Publications in the Journals during the year : NA

| Title of paper | Name of author (s) | Name of Journal | Year of Publication with Volume and Page numbers | ISBN/ISSN | Indicate UGC Approved Journal | National/International Journal | Impact Factor (if any) |
|----------------|--------------------|-----------------|--------------------------------------------------|-----------|-------------------------------|--------------------------------|------------------------|
| NA             |                    |                 |                                                  |           |                               |                                |                        |

21. Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Faculty during the year : NA

| Name of the faculty | Title of the book/ chapters published | Title of the paper | Title of the proceedings of the conference | Name of the conference | National / international | Year of publication | ISBN/ISSN number of the proceeding | Name of the publisher |
|---------------------|---------------------------------------|--------------------|--------------------------------------------|------------------------|--------------------------|---------------------|------------------------------------|-----------------------|
| NA                  |                                       |                    |                                            |                        |                          |                     |                                    |                       |

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22. Number of Patents filed/published/awarded :

| Sl. No. | Patent application number | Status (Publish/Granted) | Date of Publication/Grant | Publication/Grant Number | Applicant's name       | Title                                                                                      |
|---------|---------------------------|--------------------------|---------------------------|--------------------------|------------------------|--------------------------------------------------------------------------------------------|
| 1.      | 202331063820              | Pending (Filed)          | 2023                      |                          | ASHMITA GUHA CHOWDHURY | An Energy Harvesting Apparatus for Seamless Solar to Wind Energy Transition and Vice Versa |

23. (a) Mechanism of interaction with students (Lectures/tutorials/practical) : Lectures (Chalk & Talk, ICT), tutorials, practical, Group Learning, Peer Learning,  
(b) Non-credit course offered by the department (if any) : 1

24. Mode of evaluation : Semester, CA, CIE, Practical Exam, Assignment.

25. Student Mentoring :

| Name of Mentor         | Total number of mentees |
|------------------------|-------------------------|
| Shreyashi Sengupta     | 24                      |
| Ashmita Guha Chowdhury | 20                      |
| Enakshmi Nandi         | 26                      |
| Sanjib Pal             | 16                      |
| Arkadeep Mondal        | 18                      |
| Prodip Mozumdar        | 18                      |
| Mrinmoy Das            | 17                      |
| Sandeep Chakraborty    | 20                      |

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26. Details of seminar/conference/workshops/training programmes/Webinars organized during the year:

| Sl. No | Name of Convener/Coordinator     | Title of seminar/course                                                                   | Duration with dates                                     | No. of internal and external participants |
|--------|----------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------|
| 1      | Ms. Rajalakshmi Chandrasekhar    | Synergism of Machine Learning and Signal Processing for Condition Monitoring Applications | 24/05/2024,<br>11.45-12.45 P.M                          | 84                                        |
| 2      | Arkadeep Mondal & Enakshmi Nandi | Learning about AI                                                                         | 19.03.2024-<br>23.03.2024,<br>26.03.2024,<br>27.03.2024 | 99                                        |

27. No. of guest speaker invited in the year : 2

28. No. of PTM organized : 2

29. (a) Library facilities available for students: Book bank, reference book, journals, digital library  
(b) Library book: student : 6:1

30. Details of alumni of the Department with their present employment:

| Name of the Student | Email ID                   | Phone No.  | Position          | Company                          | Job Location                                                   |
|---------------------|----------------------------|------------|-------------------|----------------------------------|----------------------------------------------------------------|
| Manas Paul          | paulmanas548@gmail.com     | 9635975796 | Wireless operator | WIRELESS OPERATOR, BENGAL POLICE | Tollygaunj, Kolkata                                            |
| Vaskar Paul         | vaskarpaul1507@gmail.com   | 7001262970 | Trainee Engineer  | SS RAIL WORKS PRIVATE LIMITED    | Srinagar Colony, Kamalpur Colony Phase 2, Hyderabad, Telangana |
| Sagar Gain          | sagargain13@gmail.com      | 8617547020 | Instructor        | SBTI[ITI]                        | -                                                              |
| Armit Dutta         | el1217armitdutta@gmail.com | 7858866950 | System Associate  | Infosys                          | Kolkata                                                        |

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# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

|                  |                             |            |                               |                                  |                 |
|------------------|-----------------------------|------------|-------------------------------|----------------------------------|-----------------|
| Koyel Ghosh      | ghoshkoyel677@gmail.com     | 9748971008 | Associate of Customer Service | Zupiter international Pvt Ltd    | Kolkata         |
| Tanmoy Bej       | tanmoybej2019@gmail.com     | 7407787493 | Maintenance Engineer          | Bharati Airtel India limited     | Purba Medinipur |
| Tamal Dinda      | iammrinda@gmail.com         | 9609991709 | Electrician                   | Mozitronics Pvt. Ltd             | Kolkata         |
| Sayantani Das    | sayantani2219@gmail.com     | 8927742329 | TRAINEE                       | ADVIK HI-TECH PVT.LTD            | Pune            |
| Bibek Singh      | bibeksingh635@gmail.com     | 6297938427 | -                             | Perfect Containers Group         | -               |
| Soumyadeep Dutta | dutta.soumyadeep9@gmail.com | 8274976929 | -                             | Fox solution                     | -               |
| Sourendra Das    | sdas2009@gmail.com          | 8910373937 | -                             | Trane Technologies India pvt Ltd | -               |

31. No. of Functional MoUs : NA

32. SWOC Analysis :

A. Strength :

- The department boasts a team of highly qualified and dedicated faculty members committed to academic excellence.
- Laboratories are equipped to meet curriculum requirements and are established with state-of-the-art technology.
- Exceptional library resources are available, including an excellent central library, a dedicated departmental library, and abundant computing and internet facilities.
- A robust mentoring mechanism is in place, enabling direct faculty interaction with students to guide and enhance their skill development.

B. Weaknesses :

- Number of volumes and journals in the department library need to be increased.
- The activities through Industry Institution Interaction Cell are to be improved.
- More effort is needed to increase the number of state/central government funded projects to strengthen the department.
- Soft skills and communication skills of students need to be improved.

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### C. Opportunities:

- i. Growing demand for engineers in the power sector opens significant career opportunities for graduates.
- ii. Scope for enhanced research work to be carried out in all related field of Electrical & Electronics engineering.
- iii. Encouragement and support from management provide a conducive environment for students and faculty to become effective entrepreneurs.
- iv. Potential to develop impactful interdisciplinary projects that contribute to societal welfare.

### D. Challenges :

- i. Providing ongoing professional development opportunities to faculty to keep pace with modern teaching methodologies and subject advancements.
- ii. Preparing students to design, implement and integrate AI, Machine Learning, Internet of Things (IoT) applications in modern electrical systems, which requires specialized knowledge and hands-on training.
- iii. Balancing traditional classroom teaching with online and hybrid learning approaches while ensuring the same level of engagement and quality.
- iv. Ensuring graduates are equipped with both technical and soft skills to meet the rapidly evolving demands of industries.
- v. Maintaining high levels of student motivation and engagement in both academic and extracurricular activities.

33. Any other information, which is not covered above : Dr. Suman Jana, Assistant Professor of EEE Department received Government Grant of Rs.15 Lac from MSME for a research project named 'Bamboo Fiber Reinforced Biodegradable Plastic Bag'.

34. Suggested Road map keeping students' interest in the core and to ensure better visibility :

- i. Revise the curriculum to focus on emerging areas in core subjects like power systems, control systems, and electrical machines.
- ii. Emphasize on hands-on learning through lab experiments, simulation tools, and industry-relevant software in subjects like IoT, AI in electrical engineering, and renewable energy systems to bridge core and modern technologies.
- iii. Establish a robust system to gather and act on student feedback regarding academics and infrastructure.
- iv. Partner with industries to offer internships and live projects that align with core areas like energy systems, automation, and robotics.
- v. Invite industry experts for lectures on topics like smart grids, EVs, and digital electronics.

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- vi. Conduct workshops on emerging technologies and certification programs in areas like MATLAB, SCADA, and PLC.
- vii. Host department-level hackathons and encourage participation in national and international competitions.
- viii. Strengthen the alumni network for better visibility and opportunities in the industry.
- ix. Integrate communication and interpersonal skills training into the curriculum.
- x. Leverage smart classroom setups for interactive and effective teaching.
- xi. Regularly track students' academic and extracurricular performance to provide personalized support.

This roadmap ensures that students remain engaged in core subjects while gaining exposure to modern advancements, thereby increasing the department's visibility and reputation.

Date: 04.10.24

*C. Rajalakshmi*  
(HOD, EEE)

**Observations of the Academic Audit Team**  
(To be filled by IQAC/Audit Committee):



### Internal Audit Member

1. Dr. Sudip Basack (Principal) *[Signature]*
2. Mr. Subhankar Ghosh (Registrar) *[Signature]*
3. Dr. Anindita Das (Dean, Administration and Student Affairs) *[Signature]*
4. Dr. Rajorshi Bandyopadhyay (Dean, IQAC) *[Signature]*
5. Mr. Suprovat Basu (Deputy Registrar) *[Signature]*

*[Signature]*  
Principal  
Regent Education & Research Foundation  
Bara Kanthalia, P.O.-Sewli Telinipara  
Barrackpore, Kolkata-700121

### External Audit Member

1. Dr. Anup Sikdar (NAAC Expert) *[Signature]*
2. Dr. Chandan Das (Principal, SVIMS) *[Signature]*
3. Mr. Milan Mazumdar (Principal, RIST) *Milan Mazumdar*

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# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

### REPORT ON THE ACADEMIC AUDIT (Academic Year July, 2023 - June, 2024)

1. Name of the department : Master of Business Administration
2. Vision of the department : To nurture future managers and business leaders by imparting quality education, fostering innovation, and promoting ethical practices, empowering students to excel in a dynamic environment..
3. Intake capacity 60
4. No. of applications received program wise 65
5. No. of eligible applicants 57
6. Overall Demand Ratio (Intake capacity: No. of applications received: 60:65
7. Students enrollment (Year wise):

|                      | General |    |   | SC |   |   | ST |   |   | OBC |    |   | Total |    |   | Minority |    |   | PWD |   |   |
|----------------------|---------|----|---|----|---|---|----|---|---|-----|----|---|-------|----|---|----------|----|---|-----|---|---|
|                      | M       | F  | T | M  | F | T | M  | F | T | M   | F  | T | M     | F  | T | M        | F  | T | M   | F | T |
| 1 <sup>st</sup> Year | 29      | 15 | 0 | 03 | 0 | 0 | 0  | 0 | 0 | 02  | 04 | 0 | 34    | 19 | 0 | 0        | 01 | 0 | 0   | 0 | 0 |
| 2 <sup>nd</sup> Year | 27      | 15 | 0 | 03 | 0 | 0 | 0  | 0 | 0 | 09  | 02 | 0 | 39    | 18 | 0 | 03       | 0  | 0 | 0   | 0 | 0 |
| Grand Total          | 56      | 30 | 0 | 06 | 0 | 0 | 0  | 0 | 0 | 11  | 06 | 0 | 73    | 37 | 0 | 03       | 01 | 0 | 0   | 0 | 0 |

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# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

8. Student enrollment statistics :

|                      | From the state where the institution is located | From other states of India | NRI students | Total |
|----------------------|-------------------------------------------------|----------------------------|--------------|-------|
| 1 <sup>st</sup> Year | 52                                              | 01                         | 0            | 53    |
| 2 <sup>nd</sup> Year | 51                                              | 06                         | 0            | 57    |
| Grand total          | 103                                             | 07                         | 0            | 110   |

9. No. of students graduating in the year :

| Male | Female | Total |
|------|--------|-------|
| 39   | 18     | 57    |

10. (a) Total Number of classrooms and seminar halls. : 1 Seminar Hall (Centralized), 3 class room  
(b) Number of classrooms with ICT facilities : 1 ICT facility classroom  
(c) Number of 1<sup>st</sup> year laboratories : NA  
(d) Total number of laboratories : NA

11. (a) Computer facility : Centralized  
(b) Number of computer available for the students : 410  
(c) Internet facility to staffs/students : Yes

12. Number of students qualifying in state/ national/ international level examinations (eg:GATE/GMAT/CAT/GRE/TOEFL/Central Government/State government examinations):

13. No. of awards received by students : 0  
14. Number of outgoing students placed during the year : 45  
15. Students Progression to Higher Studies (Numbers only) : 2  
16. Success rate of students (% of student passed) : 85%

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# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

### 17. Faculty strength and specialization

| Sl. No. | Name                | Designation         | Qualifications | Specialization | No. of M.Phil/Ph.D supervised (in last five years) |
|---------|---------------------|---------------------|----------------|----------------|----------------------------------------------------|
| 1.      | SURYA MUKHERJEE     | Assistant Professor | MBA            | HR             | NA                                                 |
| 2.      | SUPROVAT BASU       | Assistant Professor | Ph.D           | MARKETING      | NA                                                 |
| 3.      | ANTARA BOSE         | Assistant Professor | M.Com          | Finance        | NA                                                 |
| 4.      | DR. MOUMITA GHOSH   | Associate Professor | MBA            | MARKETING      | NA                                                 |
| 5.      | TRINA BHATTACHARYYA | Assistant Professor | MBA            | HR             | NA                                                 |
| 6.      | SOURAV DUTTA        | Assistant Professor | MBA            | MARKETING      | NA                                                 |

### Teaching:

| Designation         | Total |
|---------------------|-------|
| Professor           | 0     |
| Associate Professor | 1     |
| Assistant Professor | 5     |
| Others              | NA    |

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Non-teaching staff:

| Designation         | Total |
|---------------------|-------|
| Technical Assistant | NA    |
| Other               | NA    |

18. Teacher: student ratio : 1:18  
 19. Frequency of revision of Syllabus : Affiliated college so syllabus was last  
 (year in which syllabus last revised) revised in 2023 by MAKAUT.  
 20. Research Publications in the Journals during the year : NA

| Title of paper | Name of author (s) | Name of Journal | Year of Publication with Volume and Page numbers | ISBN/ISSN | Indicate UGC Approved Journal | National/International Journal | Impact Factor (if any) |
|----------------|--------------------|-----------------|--------------------------------------------------|-----------|-------------------------------|--------------------------------|------------------------|
| NA             |                    |                 |                                                  |           |                               |                                |                        |

21. Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Faculty during the year : NA

| Name of the faculty | Title of the book/ chapters published | Title of the paper | Title of the proceedings of the conference | Name of the conference | National / international | Year of publication | ISBN/ISSN number of the proceeding | Name of the publisher |
|---------------------|---------------------------------------|--------------------|--------------------------------------------|------------------------|--------------------------|---------------------|------------------------------------|-----------------------|
| NA                  |                                       |                    |                                            |                        |                          |                     |                                    |                       |

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22. Number of Patents filed/published/awarded :

| Sl. No. | Patent application number | Status (Publish/Granted) | Date of Publication/Grant | Publication/Grant Number | Applicant's name | Title |
|---------|---------------------------|--------------------------|---------------------------|--------------------------|------------------|-------|
| NA      |                           |                          |                           |                          |                  |       |

23. (a) Mechanism of interaction with students (Lectures/tutorials/practical) : Lectures (Chalk & Talk, ICT), tutorials, practical, Group Learning, Peer Learning.  
(b) Non-credit course offered by the department (if any) 1

24. Mode of evaluation : Semester, CA, CIE, Practical Exam, Assignment.

25. Student Mentoring :

| Name of Mentor      | Total number of mentees |
|---------------------|-------------------------|
| SURYA MUKHERJEE     | 24                      |
| ANTARA BOSE         | 23                      |
| DR. MOUMITA GHOSH   | 18                      |
| TRINA BHATTACHARYYA | 22                      |
| SOURAV DUTTA        | 23                      |

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26. Details of seminar/conference/workshops/training programs / Webinars organized during the year:

| Sl. No | Name of Convener/ Coordinator | Title of seminar/course                                               | Duration with dates                          | No. of internal and external participants |
|--------|-------------------------------|-----------------------------------------------------------------------|----------------------------------------------|-------------------------------------------|
| 1      | Surya Mukherjee               | HR Management System & Human Capital Strategy.                        | 20/09/2023 – 27/09/2023<br>11.45 AM-12.45 PM | 49                                        |
| 2      | Antara Bose                   | Quality Improvements in Business Supply Chain Management a Way Ahead. | 27/03/ 2024 – 10/04/2024<br>11.45AM- 12.45PM | 49                                        |

27. No. of guest speaker invited in the year : 2

28. No. of PTM organized : 2

29. (a) Library facilities available for students: Book bank, reference book, journals, digital library

(b) Library book: student : 6:1

30. Details of alumni of the Department with their present employment:

| Name of the Student | Email ID                      | Phone No.  | Position                    | Company                   | Job Location |
|---------------------|-------------------------------|------------|-----------------------------|---------------------------|--------------|
| SAMRAT SAHA         | samrat.saha@adityabirla.com   | 7044985430 | Plant-Marketing head        | Ultratech cement Ltd      | Hooghly      |
| SHAVIT SHAH         | shaviddhb@gmail.com           | 9836744511 | Senior Compliance Associate | Amazon Development Center | Hyderabad    |
| UMA GHOSH           | umaghosh1258@gmail.com        | 8420869349 | Executive                   | Narayana Hospital         | Bangalore    |
| DEBAPRIYA MONDAL    | debapriyamonidal316@gmail.com | 8240797656 | Sales Executive             | Austin Plywood pvt ltd    | Kolkata      |

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|                           |                              |            |                              |                          |               |
|---------------------------|------------------------------|------------|------------------------------|--------------------------|---------------|
| LAKHMIKANTA CHATTOPADHYAY | rahobengal3@gmail.com        | 8372099903 | Area Sales Manager           | Bandhan Bank             | Habra         |
| ISPITA CHAKRABARTY        | ispitac@regmail.com          | 9123783099 | Sales coordinator            | Aditya Birla Finance Ltd | Kolkata       |
| SUCHISMITA MARIK          | s.marik1966@gmail.com        | 8777093530 | Associate                    | TCS                      | Kolkata       |
| ARITRA KUNDU              | aritrakundu@gmail.com        | 7908381634 | Junior Manager HR            | IQ City Medical College  | Durgapur      |
| AVISEK CHAKRABORTY        | Avisekchakabarty15@gmail.com | 9064188318 | Business Development Manager | Elexcon                  | Anand Gujarat |
| BIKRAM BISWAS             | bbikram181@gmail.com         | 7278450993 | Finance Executive            | Wipro                    | Kolkata       |
| RAJASREE DEB              | rajasreedeb70@gmail.com      | 9088572297 | Manager Marketing & Sales    | Debmam Pumps Pvt         | Kolkata       |
| BIJOY NASKAR              | bijoy.naskar@gmail.com       | 7450030609 | Process Associate            | Genpact                  | Kolkata       |
| SOURAV BOSE               | sourav.bose.2002@gmail.com   | 7501301378 | Deputy Manager               | Shyam Metals             | Burdwan       |
| SHARMISTHA PAUL           | sarmisthapaul103@gmail.com   | 9229253484 | Illustrator Designer         | Tyrannos pet ltd         | Kolkata       |
| PRAVAS KAMILA             | pravas.kamila78@gmail.com    | 8017189464 | Sales Manager                | Bajaj Finance            | Kolkata       |
| SOURAV KUNDU              | ssouravkundu01@gmail.com     | 7908202525 | Marketing Executive          | Zydus Health care Ltd    | Kolkata       |

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|                |                       |            |                      |                                  |         |
|----------------|-----------------------|------------|----------------------|----------------------------------|---------|
| SAIKAT SAMANTA | s1998saikat@gmail.com | 9972825491 | Executive Operations | Radiant Management Services Ltd. | Kolkata |
| TITAS NAYAK    | titasnayak@gmail.com  | 7003133319 | Acad. Manager        | ICTE-I Barak                     | Mumbai  |

31. No. of Functional MoUs : NA

32. SWOC Analysis :

### Strengths:

- Modern facilities, such as smart classrooms, a library with digital resources, and advanced ICT infrastructure, support effective learning.
- Emphasis on soft skills, leadership training, and entrepreneurship development programs.
- Partnerships with various companies facilitate guest lectures, internships, and placement opportunities.
- The department has knowledgeable faculty members with academic excellence and experience.
- Regular updates with current industry trends and requirements.

### Weaknesses:

- Lack of international collaborations or exchange programs for students.
- Low engagement in research activities and publications by students and faculty.
- Limited visibility and recognition of the MBA program outside the region.
- Need to further improve placement opportunities in top-tier companies and MNCs.
- Alumni network needs to be improved along with different activities.

### Opportunities:

- Increased demand for management professionals in diverse industries.
- Incorporation of advanced topics in MBA curriculum like Business Analytics, Hospital Management and digital marketing etc.
- Opportunities for collaborations with more reputed companies for internships and placements.
- Scope to leverage government programs for skill development and entrepreneurship promotion.
- Expanding into online and hybrid learning models to reach a wider audience.

### Challenges/Threats:

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- a. Growing number of MBA programs offered by other institutions in Kolkata and India.
- b. Fluctuating job markets and economic downturns can impact placement rates for HR and Finance students.
- c. Rapid shifts in required skills may make existing curricula obsolete if not updated regularly.
- d. Students may prefer institutions with stronger global exposure and rankings.
- e. Difficulty in getting Professor and Associate Professor level faculties.

33. Any other information, which is not covered above : NA

34. Suggested Road map keeping students' interest in the core and to ensure better visibility :

### I. Academic Excellence and Development

- Implement case-based learning, simulation exercises, live projects, and industry case studies to enhance practical knowledge.
- Every student completes internships or industry projects to gain hands-on experience.

### II. Faculty Development and Teaching Innovations

- Conduct Faculty Development Programs (FDPs) and workshops to upskill faculty in the latest teaching techniques and industry trends.
- Motivate faculty to undertake research, publish in reputed journals, and present papers at conferences to improve the department's academic reputation.
- Invite industry professionals to share real-world insights and foster a deeper understanding of the corporate world.

### III. Student Development and Engagement

- Offer workshops on communication, leadership, and personality development. Provide training in critical business tools such as MS Excel, Tableau, and Python.
- Organize networking events, conferences, and management fairs to help students connect with professionals and peers from other institutions.
- Strengthen career counseling services to guide students in selecting specializations, internships, and career paths based on their interests and aptitude.

### IV. Enhanced Placement and Industry Collaborations

- Ensure consistent communication with recruiters and improve placement opportunities.
- Collaborate with leading companies for internships, placements, and live projects. Establish relationships with HR professionals and alumni working in key industries.
- Organize industry visits to give students exposure to real-time business operations.

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### V. Research and Entrepreneurship Initiatives

- Promote students to take part in research initiatives and contribute to the institution's journal or external publications.
- Develop an entrepreneurship cell or incubation center to support students with innovative business ideas. Provide seed funding and mentorship to aspiring entrepreneurs.
- Host business plan competitions and startup challenges to foster creativity and problem-solving skills.

### VI. Digital Transformation and Online Presence

- Enhance the department's website with engaging content, student success stories, and industry collaborations. Use social media to share achievements, events, and campus activities.
- Use targeted campaigns to attract potential students and improve visibility. Highlight unique features of the MBA program through videos, testimonials, and infographics.
- Introduce hybrid and online learning models, including Massive Open Online Courses (MOOCs), to expand the reach of the program.

### VII. Alumni Relations

- Maintain contact with alumni through newsletters, social media groups, and dedicated alumni portals.
- Invite successful alumni to mentor students, deliver guest lectures, and participate in departmental events.
- Host annual alumni reunions to foster a sense of community and encourage knowledge sharing.

### VIII. Visibility and Branding

- Obtain accreditations like NAAC, NIRF, NBA to enhance the credibility and visibility of the department.
- Host inter-college management competitions, workshops, and national-level conferences to attract attention from students and academic professionals across the country.
- Showcase the achievements of students and alumni through videos, blogs, and articles on various platforms.

### IX. Focus on Sustainability and Community Engagement

- Involve students in Corporate Social Responsibility (CSR) projects to develop empathy and social responsibility.
- Promote eco-friendly business practices and encourage research in sustainable business models.
- Partner with local organizations for projects that benefit the community, giving students exposure to real-world challenges.

### X. Continuous Monitoring and Feedback

- Establish systems to gather feedback from students, alumni, recruiters, and faculty for continuous improvement.
- Conduct regular reviews of academic and non-academic initiatives to ensure alignment with student interests and industry demands.

---

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This roadmap ensures that students remain engaged in core subjects while gaining exposure to modern advancements, thereby increasing the department's visibility and reputation.

Date: 04.10.24

(HOD, MBA)

### Observations of the Academic Audit Team (To be filled by IQAC/Audit Committee):

#### Internal Audit Member

1. Dr. Sudip Basak (Principal)
2. Mr. Subhankar Ghosh (Registrar)
3. Dr. Anindita Das (Dean, Administration and Student Affairs)
4. Dr. Rajarshi Bandyopadhyay (Dean, IQAC)
5. Mr. Suproyat Basu (Deputy Registrar)

#### External Audit Member

1. Dr. Anup Sikdar (NAAC Expert)
2. Dr. Chandan Das (Principal, SVIMS)
3. Mr. Milan Mazumdar (Principal, RIST)

Principal

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# REGENT EDUCATION & RESEARCH FOUNDATION

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### REPORT ON THE ACADEMIC AUDIT (Academic Year: July, 2023 - June, 2024)

|   |                                                                          |   |                                                                                                                                         |
|---|--------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Name of the department                                                   | : | <b>Master of Computer Application (MCA)</b>                                                                                             |
| 2 | Vision of the department                                                 | : | Our Vision is to create a supportive learning environment where students are inspired to grow intellectually, creativity & emotionally. |
| 3 | Intake capacity                                                          | : | 60                                                                                                                                      |
| 4 | No. of applications received program wise                                | : | 64                                                                                                                                      |
| 5 | No. of eligible applicants                                               | : | 62                                                                                                                                      |
| 6 | Overall Demand Ratio<br>(No. of applications received : Intake capacity) | : | 16:15                                                                                                                                   |

|                      |                                   |    |    |    |    |    |    |    |    |     |    |    |     |    |    |          |    |    |       |    |     |
|----------------------|-----------------------------------|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----------|----|----|-------|----|-----|
| 7                    | Students enrollment (Year wise) : |    |    |    |    |    |    |    |    |     |    |    |     |    |    |          |    |    |       |    |     |
|                      | General                           |    |    | SC |    |    | ST |    |    | OBC |    |    | PWD |    |    | Minority |    |    | Total |    |     |
|                      | M                                 | F  | T  | M  | F  | T  | M  | F  | T  | M   | F  | T  | M   | F  | T  | M        | F  | T  | M     | F  | T   |
| 1 <sup>st</sup> Year | 24                                | 16 | 40 | 05 | 00 | 05 | 01 | 00 | 01 | 05  | 04 | 09 | 00  | 00 | 00 | 03       | 02 | 05 | 38    | 22 | 60  |
| 2 <sup>nd</sup> Year | 19                                | 05 | 24 | 08 | 05 | 13 | 01 | 00 | 01 | 00  | 00 | 00 | 00  | 00 | 00 | 01       | 01 | 02 | 26    | 11 | 40  |
| Grand Total          | 43                                | 21 | 64 | 13 | 05 | 18 | 02 | 00 | 02 | 05  | 04 | 09 | 00  | 00 | 00 | 04       | 03 | 07 | 64    | 33 | 100 |

|                      |                                                 |  |                            |              |       |
|----------------------|-------------------------------------------------|--|----------------------------|--------------|-------|
| 8                    | Student enrollment statistics :                 |  |                            |              |       |
|                      | From the state where the institution is located |  | From other states of India | NRI students | Total |
| 1 <sup>st</sup> Year | 55                                              |  | 05                         | 00           | 60    |
| 2 <sup>nd</sup> Year | 38                                              |  | 02                         | 00           | 40    |
| Grand Total          | 93                                              |  | 07                         | 00           | 100   |

|   |                                          |        |       |
|---|------------------------------------------|--------|-------|
| 9 | No. of students graduating in the year : |        |       |
|   | Male                                     | Female | Total |
|   | 24                                       | 10     | 34    |

|    |    |                                              |   |     |
|----|----|----------------------------------------------|---|-----|
| 10 | a) | Total Number of classrooms and seminar halls | : | 2+1 |
|    | b) | Number of classroom with ICT facilities      | : | 1   |
|    | c) | Number of 1 <sup>st</sup> year laboratories  | : | 1   |
|    | d) | Number of 2 <sup>nd</sup> year laboratories  | : | 1   |
|    | e) | Total number of laboratories                 | : | 2   |

|    |    |                   |   |     |
|----|----|-------------------|---|-----|
| 11 | a) | Computer facility | : | Yes |
|----|----|-------------------|---|-----|

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|    |                                               |       |
|----|-----------------------------------------------|-------|
| b) | Number of computer available for the students | : 64  |
| c) | Internet facility to staffs/students          | : Yes |

|    |                                                                                                                                                                         |        |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 12 | Number of students qualifying in state/ national/ international level examinations (eg: GATE/ GMAT/ CAT/ GRE/ TOEFL/ Central Government/ State government examinations) | : 01   |
| 13 | No. of awards received by students                                                                                                                                      | : 00   |
| 14 | Number of outgoing students placed during the year                                                                                                                      | : 03   |
| 15 | Students Progression to Higher Studies (Numbers only)                                                                                                                   | : 02   |
| 16 | Success rate of students (% of student passed)                                                                                                                          | : 85 % |

| 17 Faculty strength and specialization : |                         |                                |                |                                        |                                                      |
|------------------------------------------|-------------------------|--------------------------------|----------------|----------------------------------------|------------------------------------------------------|
| Sl No.                                   | Name                    | Designation                    | Qualifications | Specialization                         | No. of M.Phil / Ph.D supervised (in last five years) |
| 1                                        | Mr. Krishna Kanta Maiti | Head of the Department (H.O.D) | M.Tech         | Machine Learning                       | Nil                                                  |
| 2                                        | Mr. Gopi Bondhu Ganguly | Assistant Professor            | M.Tech         | Computer Graphics                      | Nil                                                  |
| 3                                        | Mr. Arup Mallick        | Assistant Professor            | M.Tech         | Machine Learning                       |                                                      |
| 4                                        | Mr. Somnath Mukherjee   | Assistant Professor            | M.Tech         | Web Designing                          | Nil                                                  |
| 5                                        | Ms. Madhabi Ghosh       | Assistant Professor            | M.Tech         | Java, Advance Algorithm                | Nil                                                  |
| 6                                        | Mr. Shirsendu Dutta     | Assistant Professor            | M.Tech         | Pattern recognition & Data analysis    | Nil                                                  |
| 7                                        | Mr. Nepal Malik         | Assistant Professor            | M.Tech         | Artificial Intelligence & Data Science | Nil                                                  |
| 8                                        | Mr. Sayan Dey           | Assistant Professor            | MCA            | Networking                             | Nil                                                  |

| 18 Teaching Staff : |       |
|---------------------|-------|
| Designation         | Total |
| Professor           | 00    |
| Associate Professor | 00    |
| Assistant Professor | 08    |
| Others              | 00    |

| 19 Non-Teaching Staff : |       |
|-------------------------|-------|
| Designation             | Total |
| Technical Assistant     | 01    |
| Others                  | 00    |

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|------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------|-------------------------------|---------------------------------|------------------------------------|-----------------------|
| 18   | Teacher : Student ratio                                                                                                                           | :                                    | 01 : 12                                                                                    |                                                  |                          |                               |                                 |                                    |                       |
| 19   | Frequency of revision of Syllabus :<br>(Year in which syllabus last revised):                                                                     | :                                    | As per University, last syllabus revision is effective from the Academic session 2021-2022 |                                                  |                          |                               |                                 |                                    |                       |
| 20   | Research Publications in the Journals during the year :                                                                                           |                                      |                                                                                            |                                                  |                          |                               |                                 |                                    |                       |
|      | Title of paper                                                                                                                                    | Name of author (s)                   | Name of Journal                                                                            | Year of Publication with Volume and Page numbers | ISBN/ISSN                | Indicate UGC Approved Journal | National/ International Journal | Impact Factor (if any)             |                       |
|      | Nil                                                                                                                                               | Nil                                  | Nil                                                                                        | Nil                                              | Nil                      | Nil                           | Nil                             | Nil                                |                       |
| 21   | Books and Chapters in edited Volumes : Books published, and papers in National/International Conference Proceedings per Faculty during the year : |                                      |                                                                                            |                                                  |                          |                               |                                 |                                    |                       |
|      | Name of the faculty                                                                                                                               | Title of the book/chapters published | Title of the paper                                                                         | Title of the proceedings of the conference       | Name of the conference   | National / International      | Year of publication             | ISBN/ISSN number of the proceeding | Name of the publisher |
|      | Nil                                                                                                                                               | Nil                                  | Nil                                                                                        | Nil                                              | Nil                      | Nil                           | Nil                             | Nil                                | Nil                   |
| 22   | Number of Patents filed/published/awarded :                                                                                                       |                                      |                                                                                            |                                                  |                          |                               |                                 |                                    |                       |
|      | Sl. No                                                                                                                                            | Patent application number            | Status (Publish/Granted)                                                                   | Date of Publication/Grant                        | Publication/Grant Number | Applicant's name              | Title                           |                                    |                       |
|      | Nil                                                                                                                                               | Nil                                  | Nil                                                                                        | Nil                                              | Nil                      | Nil                           | Nil                             |                                    |                       |
| 23   | (a) Mechanism of interaction with students: Lectures/Tutorials/Practical                                                                          |                                      |                                                                                            |                                                  |                          |                               |                                 |                                    |                       |
|      | (b) Noncredit course offered by the department: 2                                                                                                 |                                      |                                                                                            |                                                  |                          |                               |                                 |                                    |                       |
| 24   | Mode of Evaluation: CA, CIE, Practical/Sessional Exam and Semester Examination                                                                    |                                      |                                                                                            |                                                  |                          |                               |                                 |                                    |                       |
| 25   | Student Mentoring:                                                                                                                                |                                      |                                                                                            |                                                  |                          |                               |                                 |                                    |                       |
|      | Name of Mentor                                                                                                                                    |                                      |                                                                                            |                                                  | Total Number of Mentees  |                               |                                 |                                    |                       |
| i)   | Mr. Krishna Kanta Maiti                                                                                                                           |                                      |                                                                                            |                                                  | 20                       |                               |                                 |                                    |                       |
| ii)  | Mr. Gopi Bondhu Ganguly                                                                                                                           |                                      |                                                                                            |                                                  | 15                       |                               |                                 |                                    |                       |
| iii) | Mr. Sirsendu Dutta                                                                                                                                |                                      |                                                                                            |                                                  | 15                       |                               |                                 |                                    |                       |
| iv)  | Mr. Sayan Dey                                                                                                                                     |                                      |                                                                                            |                                                  | 15                       |                               |                                 |                                    |                       |
| v)   | Ms. Somnath Mukherjee                                                                                                                             |                                      |                                                                                            |                                                  | 25                       |                               |                                 |                                    |                       |
| vi)  | Mr. Nepal Malik                                                                                                                                   |                                      |                                                                                            |                                                  | 10                       |                               |                                 |                                    |                       |
| 26   | Details of Seminar/Conference/Workshops/Training programs/Webinars organized during the year:                                                     |                                      |                                                                                            |                                                  |                          |                               |                                 |                                    |                       |

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| Sl No.              | Name of Convener/Coordinator                                                                            | Title of seminar/course                                                                         | Duration with dates | No. of internal and external participants |                                      |                  |
|---------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------|--------------------------------------|------------------|
| Nil                 | Nil                                                                                                     | Nil                                                                                             | Nil                 | Nil                                       |                                      |                  |
| 27                  | No. of Guest Speaker invited in the year: Nil                                                           |                                                                                                 |                     |                                           |                                      |                  |
| 28                  | No. of PTM organized: 2                                                                                 |                                                                                                 |                     |                                           |                                      |                  |
| 29                  | (a)                                                                                                     | Library facilities available for students: Book bank, Reference book, Journals, Digital library |                     |                                           |                                      |                  |
|                     | (b)                                                                                                     | Library book: For Students                                                                      |                     |                                           |                                      |                  |
| 30                  | Details of alumni of the Department with their present employment:                                      |                                                                                                 |                     |                                           |                                      |                  |
| Name of Student     |                                                                                                         | Email                                                                                           | Ph. No              | Designation                               | Present employer                     | Employer address |
| Ayan Senapati       |                                                                                                         | senapatiayan70@gmail.com                                                                        | 8116867575          | Developer                                 | Bluehorse Software Solutions Pvt Ltd | Midnapore        |
| Purnendu Pandey     |                                                                                                         | rishupandey852@gmail.com                                                                        | 8240056128          | Junior Developer                          | TCS                                  | Kolkata          |
| Arnab Kumar Hoodati |                                                                                                         | arnabhoodati36@gmail.com                                                                        | 7003733757          | Associate                                 | Minivet System LLP                   | Kolkata          |
| 31                  | No. of Functional MoUs: Nil                                                                             |                                                                                                 |                     |                                           |                                      |                  |
| 32                  | SWOC Analysis:-                                                                                         |                                                                                                 |                     |                                           |                                      |                  |
| (A)                 | Strengths:                                                                                              |                                                                                                 |                     |                                           |                                      |                  |
| (i)                 | Good Student Teacher Relationship & Strong alumni network.                                              |                                                                                                 |                     |                                           |                                      |                  |
| (ii)                | Student Teacher ratio, ICT class rooms, 1:1 Computer Lab facility, High speed internet facility.        |                                                                                                 |                     |                                           |                                      |                  |
| (iii)               | Innovative teaching skills, methods and free Industry based training program two per academic year.     |                                                                                                 |                     |                                           |                                      |                  |
| (iv)                | Book bank with reference books and many available top level journals.                                   |                                                                                                 |                     |                                           |                                      |                  |
| (B)                 | Weaknesses:                                                                                             |                                                                                                 |                     |                                           |                                      |                  |
| (i)                 | Need to motivate students for higher studies and research activities.                                   |                                                                                                 |                     |                                           |                                      |                  |
| (ii)                | Inter-personal communication i.e. soft skill                                                            |                                                                                                 |                     |                                           |                                      |                  |
| (iii)               | Limited exposure to cutting-edge technologies and trends in the industry.                               |                                                                                                 |                     |                                           |                                      |                  |
| (C)                 | Opportunities:                                                                                          |                                                                                                 |                     |                                           |                                      |                  |
| (i)                 | Growing demand for skilled professionals in the field of computer applications.                         |                                                                                                 |                     |                                           |                                      |                  |
| (ii)                | Opportunities for collaboration with industry partners on research and development projects.            |                                                                                                 |                     |                                           |                                      |                  |
| (iii)               | Potential for increased funding and support from alumni and industry partners.                          |                                                                                                 |                     |                                           |                                      |                  |
| (D)                 | Challenges:                                                                                             |                                                                                                 |                     |                                           |                                      |                  |
| (i)                 | To equip students with technical skills and enable them to become globally competitive.                 |                                                                                                 |                     |                                           |                                      |                  |
| (ii)                | Keeping up with the rapidly changing technology landscape and ensuring the curriculum remains relevant. |                                                                                                 |                     |                                           |                                      |                  |
| (iii)               | Attracting and retaining high-quality faculty members                                                   |                                                                                                 |                     |                                           |                                      |                  |
| 33                  | Any other information, which is not covered above:                                                      |                                                                                                 |                     |                                           |                                      |                  |
| 34                  | Suggested Road map keeping students' interest in the core and to ensure better visibility               |                                                                                                 |                     |                                           |                                      |                  |

Date: 10.07.2024

H.O.D. MCA

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*Signature*

Principal

Regent Education & Research Foundation  
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Observations of the Academic Audit Team  
(To be filled by IQAC/Audit Committee):

### Internal Audit Members:

1. Dr. Sudip Basack (Principal) 
2. Mr. Subhankar Ghosh (Registrar) 
3. Dr. Anindita Das (Dean, Administration and Student Affairs) 
4. Dr. Rajorshi Bandyopadhyay (Dean, IQAC) 
5. Mr. Suprovat Basu (Deputy Registrar) 

### External Audit Members:

1. Dr. Anup Sikdar (NAAC Expert) 
2. Dr. Chandan Das (Principal, SVIMS) 
3. Mr. Milan Mazumdar (Principal, RIST) 

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### REPORT ON THE ACADEMIC AUDIT (Academic Year July, 2023 - June, 2024)

1. Name of the department: Mechanical Engineering
2. Vision of the department: The vision of the Mechanical Engineering Department of RERF is to provide quality education while keeping up with new technology and educating professionals with an awareness of social responsibility capable of making major contributions to both individual and national prosperity.
3. Number of available seats (Lateral Entry): 54
4. No. of applications received program wise: 41
5. No. of eligible applications received: 36
6. Overall Demand Ratio (No. of applications received: No. of available seats): 41:54
7. Students enrollment (Year wise) :

|                      | General |    |    | SC |    |    | ST |    |    | OBC |    |    | Total |    |    | Minority |    |    | PWD |    |    |
|----------------------|---------|----|----|----|----|----|----|----|----|-----|----|----|-------|----|----|----------|----|----|-----|----|----|
|                      | M       | F  | T  | M  | F  | T  | M  | F  | T  | M   | F  | T  | M     | F  | T  | M        | F  | T  | M   | F  | T  |
| 1 <sup>st</sup> Year | 08      | 00 | 00 | 01 | 00 | 00 | 00 | 00 | 00 | 02  | 00 | 00 | 11    | 00 | 00 | 02       | 00 | 00 | 00  | 00 | 00 |
| 2 <sup>nd</sup> Year | 28      | 02 | 00 | 08 | 01 | 00 | 01 | 00 | 00 | 08  | 00 | 00 | 45    | 03 | 00 | 02       | 00 | 00 | 00  | 00 | 00 |
| 3 <sup>rd</sup> Year | 38      | 01 | 00 | 12 | 01 | 00 | 00 | 01 | 00 | 10  | 00 | 00 | 60    | 03 | 00 | 05       | 00 | 00 | 00  | 00 | 00 |
| 4 <sup>th</sup> Year | 40      | 03 | 00 | 05 | 03 | 00 | 00 | 00 | 00 | 12  | 00 | 00 | 57    | 06 | 00 | 05       | 00 | 00 | 00  | 00 | 00 |
| Grand Total          | 114     | 06 | 00 | 26 | 05 | 00 | 01 | 01 | 00 | 32  | 00 | 00 | 173   | 12 | 00 | 14       | 00 | 00 | 00  | 00 | 00 |

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8. Student enrollment statistics:

|                      | From the state<br>where the<br>institution is<br>located | From other<br>states of India | NRI students | Total |
|----------------------|----------------------------------------------------------|-------------------------------|--------------|-------|
| 1 <sup>st</sup> Year | 11                                                       | 00                            | 00           | 11    |
| 2 <sup>nd</sup> Year | 48                                                       | 00                            | 00           | 48    |
| 3 <sup>rd</sup> Year | 61                                                       | 02                            | 00           | 63    |
| 4 <sup>th</sup> Year | 63                                                       | 00                            | 00           | 63    |
| Grand total          | 183                                                      | 02                            | 00           | 185   |

9. No. of students graduating in the year:

| Male | Female | Total |
|------|--------|-------|
| 10   | 02     | 12    |

10. (a) Total Number of classrooms and seminar halls: 3 classrooms and 1 seminar hall (Central Facility)  
(b) Number of classrooms with ICT facilities: 1 (Sharing)  
(c) Number of 1<sup>st</sup> year laboratories: 6  
(d) Total number of laboratories: 9

11. (a) Computer facility: Centralized  
(b) Number of computer available for the students: 410  
(c) Internet facility to staffs/students: Yes

12. Number of students qualifying in state/ national/ international level examinations (eg: GATE/GMAT/CAT/GRE/TOEFL/Central government/State government examinations): 0

13. No. of awards received by students: 0

14. Number of outgoing students placed during the year: 4

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| Sl. No. | Student Name   | Company Name                         | Position                                     | Salary Package       |
|---------|----------------|--------------------------------------|----------------------------------------------|----------------------|
| 1       | Santanu Ghanta | Sun Vacuum                           | Graduate Engineer trainee                    | 2.16 LPA+ Allowences |
| 2       | Puspendu Bera  | Sun Vacuum                           | Graduate Engineer trainee                    | 2.16 LPA+ Allowences |
| 3       | Samar Das      | Jaya Hind Industries Private Limited | Graduate Engineer trainee                    | 2.4 LPA              |
| 4       | Subhajit Nath  | MY JOB GROW                          | Inside sales business development executives | 2.8 - 4.5 LPA        |

15. Students Progression to Higher Studies (Numbers only): 0

16. Success rate of students (% of students passed): 21%

17. Faculty strength and specialization:

| Sl. No. | Name                         | Designation         | Qualifications   | Specialization           | No. of M.Phil/Ph.D supervised (in last five years) |
|---------|------------------------------|---------------------|------------------|--------------------------|----------------------------------------------------|
| 1       | Dr. Dipes Chakrabarty        | Professor           | Ph.D.            | Thermo-fluid             | 0                                                  |
| 2       | Dr. Pritish Banerjee         | Associate Professor | Ph.D., Post Doc. | Welding Technology       | 0                                                  |
| 3       | Mr. Puspendu Chandra Chandra | Assistant Professor | M.Tech.          | Manufacturing Technology | 0                                                  |
| 4       | Mr. Sabyasachi Mukherjee     | Assistant Professor | M.E              | Engineering Design       | 0                                                  |
| 5       | Mr. Aninda Das               | Assistant Professor | M.Tech.          | Manufacturing Technology | 0                                                  |
| 6       | Mr. Arpan Mandal             | Assistant Professor | M.Tech.          | Production Management    | 0                                                  |
| 7       | Mr. Debtanu Patra            | Assistant Professor | M.Tech.          | Manufacturing Technology | 0                                                  |
| 8       | Dr. Banarsi Pandey           | Assistant Professor | Ph.D.            | Manufacturing Technology | 0                                                  |
| 9       | Dr. Rahul Kanti Nath         | Assistant Professor | Ph.D.            | Manufacturing Technology | 0                                                  |
| 10      | Dr. Pabitra Maji             | Assistant Professor | Ph.D.            | Manufacturing Technology | 0                                                  |
| 11      | Dr. Abhijit Biswas           | Assistant Professor | Ph.D.            | Manufacturing Technology | 0                                                  |

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Teaching:

| Designation         | Total |
|---------------------|-------|
| Professor           | 01    |
| Associate Professor | 01    |
| Assistant Professor | 09    |
| Others              | 00    |

Non-teaching staff:

| Designation         | Total |
|---------------------|-------|
| Technical Assistant | 02    |
| Other               | 00    |

18. Teacher-Student ratio: 1:19

19. Frequency of revision of Syllabus: Affiliated college  
(Year in which syllabus last revised)

20. Research Publications in the Journals during the year

| Title of paper                                                                                                                         | Name of author(s)                                 | Name of Journal                   | Year of Publication with Volume and Page numbers | ISBN/ISSN | Indicate UGC Approved Journal | National/International Journal | Impact Factor (if any) |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------|--------------------------------------------------|-----------|-------------------------------|--------------------------------|------------------------|
| Effect of heavy metal and alkaline earth oxides on the optical and electrical mechanism of vanadium-phosphate amorphous glassy systems | Sabyasachi Mukherjee and Puspendu Chandra Chandra | Journal of Non-Crystalline Solids | 2023 Volume 620                                  | 0022-3093 | No                            | International Journal          | 3.2                    |

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|                                                                                                                                                                                                                                                    |                                   |                                            |                 |           |    |                       |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------|-----------------|-----------|----|-----------------------|-----|
| Recent advances in surface modification of engineering materials by tig cladding process: a review                                                                                                                                                 | Pabitra Maji and Rahul Kanti Nath | Surface Review and Letters                 | 2024            | 1793-6667 | No | International Journal | 1.2 |
| Photocatalytic degradation of Rhodamine B dye via Bi <sub>2</sub> O <sub>3</sub> embedded BaO-P <sub>2</sub> O <sub>5</sub> -TeO <sub>2</sub> glass nanocomposites: An ab initio study of structural, optical, and electrical transport properties | Debtanu Patra                     | Journal of Non-Crystalline Solids          | 2024 Volume 637 | 0022-3093 | No | International Journal | 3.2 |
| Progressive effect of dual-hybridization in friction stir welding by ultrasonic vibration and resistive heating for joining dissimilar material Al6063 aluminium alloy and C26000 copper alloy                                                     | Puspendu Chandra Chandra          | Journal of Adhesion Science and Technology | 2024            | 1568-5615 | No | International Journal | 2.3 |

21. Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Faculty during the year: Nil

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| Name of the faculty | Title of the book / chapters published | Title of the paper | Title of the proceedings of the conference | Name of the conference | National / international | Year of publication | ISBN/ISSN number of the proceeding | Name of the publisher |
|---------------------|----------------------------------------|--------------------|--------------------------------------------|------------------------|--------------------------|---------------------|------------------------------------|-----------------------|
|                     |                                        |                    |                                            |                        |                          |                     |                                    |                       |

22. Number of Patents filed/published/awarded:

| Sl. No. | Patent application number | Status (Publish/Granted) | Date of Publication/Grant | Publication/Grant Number | Applicant's name                                        | Title                                                                                   |
|---------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1       | 2023/07884                | Published                | 28/02/2024                | 2023/07884               | Puspendu Chandra Chandra, Banarsi Pandey and Aninda Das | A system and method for synthesizing glass and analyzing effect of metal oxide on glass |
|         |                           |                          |                           |                          |                                                         |                                                                                         |
|         |                           |                          |                           |                          |                                                         |                                                                                         |

23. (a) Mechanism of interaction with students (Lectures/tutorials/practical): Lectures, tutorials & practical  
 (b) Noncredit course offered by the department (if any): i) Non-destructive testing: Physics & Applications, ii) Material Characterizations

24. Mode of evaluation: Continuous Evaluation (4-Nos.); Continuous Internal Evaluation, Semester End Examinations (theory, practical, sessional & Project PPT presentations), Assignments etc.

25. Student Mentoring:

| Name of Mentor   | Total number of mentees |
|------------------|-------------------------|
| Abhijit Biswas   | 23                      |
| Rahul Kanti Nath | 24                      |
| Banarsi Pandey   | 22                      |

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|--------------------------|----|
| Pabitra Maji             | 24 |
| Aninda Das               | 23 |
| Puspendu Chandra Chandra | 13 |
| Debtanu Patra            | 23 |
| Arpan Mandal             | 22 |

26. Details of seminar/conference/workshops/training programmes/Webinars organized during the year:

| Sl. No | Name of Convener/Coordinator           | Title of seminar/course                                                                     | Duration with dates                  | No. of internal and external participants |
|--------|----------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------|
| 1      | Dr.Pritish Banerjee & Dr. Pabitra Maji | From Conventional to Cutting Edge: Navigating the Transition towards Additive Manufacturing | 22 <sup>nd</sup> May 2024 (1.5 Hour) | 59                                        |

27. No. of guest speaker invited in the year: 1

28. No. of PTM organized: 4

29. (a) Library facilities available for students: Book bank, reference books, journals, digital library  
(b) Library books: students: 23:1 (approx.) [Excluding 1<sup>st</sup> year]

30. Details of alumni of the Department with their present employment:

| Sl. No. | Student Name       | Company Name                         | Position                  | Salary Package             |
|---------|--------------------|--------------------------------------|---------------------------|----------------------------|
| 1       | Sayan Ghosh        | Rashmi Metaliks                      | Graduate Engineer Trainee | INR 15000/- Per Month      |
| 2       | Gobinda Singha Roy | Agarpara Jute Mill                   | Trainee Engineer          | CTC INR 10,000/- Per Month |
| 3       | Sambodhi Ghosh     | Dhoot Transmission                   | Trainee Engineer          | TPO Has Not Provided Data  |
| 4       | Ankit Kumar Das    | Rashmi Metaliks                      | Graduate Engineer Trainee | INR 15000/- Per Month      |
| 5       | Divya Bani Pandit  | Dhoot Transmission                   | Trainee Engineer          | TPO Has Not Provided Data  |
| 6       | Ramiz Taaseen      | Dhoot Transmission                   | Trainee Engineer          | TPO Has Not Provided Data  |
| 7       | Sayan Ghosh        | Rashmi Metaliks                      | Graduate Engineer Trainee | INR 15000/- Per Month      |
| 8       | Dinanath Mishra    | Siechem Technologies Private Limited | Graduate Engineer Trainee | INR 29,338/- Per Month     |
| 9       | Milan Poria        | Rashmi Metaliks                      | Graduate Engineer Trainee | INR 15000/- Per Month      |
| 10      | Subhradeep Ghosh   | Rashmi Metaliks                      | Graduate Engineer Trainee | INR 15000/- Per Month      |
| 11      | Sudipta Sarkar     | Dhoot Transmission                   | Trainee Engineer          | TPO Has Not Provided Data  |

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|    |                       |                                                                |                              |                                        |
|----|-----------------------|----------------------------------------------------------------|------------------------------|----------------------------------------|
| 12 | Abhishek Ash          | Kaiser Appliances                                              | Graduate Engineer Trainee    | INR 21,000/- Per Month                 |
| 13 | Abujafar Malita       | Rashmi Metaliks                                                | Graduate Engineer Trainee    | INR 15000/- Per Month                  |
| 14 | Narendra Kumar Sharma | Royal Balajee Engineering Pvt Ltd                              | Technical Sales Executive/Hr | CTC INR 10,000/- TO 15,000/- PER MONTH |
| 15 | Subham Ghosh          | Agarpara Jute Mill                                             | Trainee Engineer             | INR 15k Per Month                      |
| 16 | Sahil Mondal          | Rashmi Metaliks                                                | Graduate Engineer Trainee    | INR 15000/- Per Month                  |
| 17 | Amarnath Ghosh        | Rashmi Metaliks                                                | Graduate Engineer Trainee    | INR 15000/- Per Month                  |
| 18 | Aadrish Dey           | Agarpara Jute Mill                                             | Trainee Engineer             | INR 10000/- Per Month                  |
| 19 | Akash Bhukta          | Agarpara Jute Mill                                             | Trainee Engineer             | INR 10000/- Per Month                  |
| 20 | Koushik Kumar Maity   | M/s Perfect Containers Pvt. Ltd                                | Machine Controller           | 15500/- per month                      |
| 21 | Rohit Manna           | M/s Perfect Containers Pvt. Ltd                                | Machine Controller           | 15500/- per month                      |
| 22 | Shovan Roy            | Marathon Electric                                              | Trainee Apprentice           | 10,000/- per month                     |
| 23 | Somen Das             | AGARPARA JUTE MILL                                             | TRAINEE ENGINEER             | 10,000/- per month                     |
| 24 | Sudip Mondal          | M/s Perfect Containers Pvt. Ltd                                | Quality Management           | 15500/- per month                      |
| 25 | Ujjwal Barman         | Megha Engineering And Infrastructure Ltd/Karamtara Engineering | Graduate Engineer Trainee    | INR 2.23 LPA/ 20,500 per month         |
| 26 | Shuvam Ghosh          | Agarpara Jute Mill                                             | Trainee Engineer             | 15500/- per month                      |
| 27 | Tamal Pan             | M/s Perfect Containers Pvt. Ltd                                | Machine Controller           | 15500/- per month                      |

31. No. of Functional MoUs: Nil

### 32. SWOC Analysis

#### A. Strength:

- (i) More than 90% of the faculty members are PhD holders/ Pursuing PhD
- (ii) Good Student Teacher Relationship & Student Teacher Ratio
- (iii) Innovative Teaching Skills & Methods

#### B. Weaknesses:

- (i) Lack of motivation in students for higher studies and research-oriented activities
- (ii) Lack of soft skills of students which is required to increase the placement records

#### C. Opportunities:

- (i) To prepare students to comprehend the latest technology and methods

Campus : Regent Education & Research Foundation Group of Institutions

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## D. Challenges:

(i) To equip students with theoretical rigor as well as technical skills and enable them to become globally competitive.

33. Any other information, which is not covered above: Nil

34. Suggested Road map keeping students' interest in the core and to ensure better visibility:



Date: 04.10.2024

*Pehandra*

(HOD, ME)



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Principal

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# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

Observations of the Academic Audit Team  
(To be filled by IQAC/Audit Committee):

### Internal Audit Member

Dr. Sudip Basack (Principal)

Mr. Subhankar Ghosh (Registrar)

Dr. Anindita Das (Dean, Administration and Student Affairs)

Dr. Rajorshi Bandyopadhyay (Dean, IQAC)

Mr. Suprovat Basu (Deputy Registrar)

### External Audit Member

Dr. Anup Sikdar (NAAC Expert)

Dr. Chandan Das (Principal, SVIMS)

Mr. Milan Mazumdar (Principal, RIST)

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