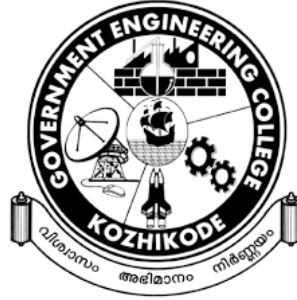


# **29<sup>th</sup> MEETING OF THE BOARD OF GOVERNORS**

## **Agenda Notes**



**Date: 27.03.2023, Time: 6.30 pm**

**Venue: Online (Google meet)**

**GOVERNMENT ENGINEERING COLLEGE KOZHIKODE**

**West Hill, Kozhikode-673005, KERALA**

**Phone: 0495 2383210, Fax: 04952383220**

## **BACKGROUND**

The 29<sup>th</sup> meeting of the Board of Governors of GEC Kozhikode is being convened online on the 27<sup>th</sup> of March 2023, focussing on accreditation of various programs and closing activities of TEQIP II. The agenda items are given below:

### **Agenda Items**

| <b>Part A –Procedural</b>                   |   |                 |
|---|---|-----------------|
| <b>Sl. No</b>                               | <b>Items</b>  | <b>Page No.</b> |
| A1  | Confirming the Minutes of the 28 <sup>th</sup> Meeting of the Board of Governors held on 20-09-2022 | 3               |
| <b>Part B –Reports</b>                      |   |                 |
| B1  | Brief summary on current status of the Institution  | 3               |
| B2  | Review of NBA expert team visit report  | 5               |
| B3  | Finance : Status of Four funds  | 10              |
| <b>Part C –Future Activities: Proposals</b> |   |                 |
| C1  | Four Funds re-appropriation, International conference   | 13              |

## **PART A**

### **(Procedural)**

#### **A1. CONFIRMATION OF THE MINUTES OF THE 28<sup>TH</sup> MEETING OF THE BOARD OF GOVERNORS HELD ON 20.09.2022.**

The Minutes of the 28<sup>th</sup> Meeting of Board of Governors of GEC Kozhikode held on 20.09.2022 was sent to the Chairman and upon his consent, copies were circulated among the other members of the BoG. A copy of the Minutes is given in Appendix I for confirmation.

## **PART B**

#### **B1. BRIEF SUMMARY ON THE CURRENT STATUS OF THE INSTITUTION.**

The NBA expert team visited the institute from 02-12-2022 to 04-12-2022, for the accreditation of the B. Tech. Program in Electronics and Communication Engineering, M. Tech program in Computer Aided Process Design and M.Tech program in Energy Systems Analysis and Design. The detailed evaluation report is received and all three programs have been accredited for three years up to 30 June 2025.

The application process have been started for re-accrediting the four UG programs namely Applied Electronics and Instrumentation Engineering, Chemical Engineering, Civil Engineering and Mechanical Engineering for which the accreditation period is ending by 30.06.2023. The pre-qualifier for these programs have been accepted by NBA and the SAR for all four programs has been uploaded on 09-03-2023 and the accreditation fee is remitted.

Dr Leena Mary has been appointed as the Principal of the institute by the Government of Kerala. Dr Leena Mary took charge as the Principal on 07 March 2023.

The roof top solar photovoltaic power plant of 72 kW capacity installed in the institute under SOURA scheme of Kerala State Electricity Board was commissioned on 23 February 2023.

## B 1.1 Programs offered in the Institute.

Currently the institute offers 6 UG and 4 PG programs. This includes the two new courses, namely B. Tech in Computer Science and Design (Intake strength 60) and M. Tech in Structural Engineering (Intake strength of 18) commenced this academic year onwards.

### UG Programs

| Sl. No. | Name of UG Program<br>(Sanctioned Intake of 60)     | Year of Starting | Status of Accreditation  |
|---------|---|------------------|--|
| 1       | Applied Electronics and Instrumentation Engineering | 1999             | Accredited till 30 June 2023 (SAR for re-accreditation uploaded on 09-03-2023) |
| 2       | Chemical Engineering                                | 1999             | Accredited till 30 June 2023 (SAR for re-accreditation uploaded on 09-03-2023) |
| 3       | Civil Engineering                                   | 2006             | Accredited till 30 June 2023 (SAR for re-accreditation uploaded on 09-03-2023) |
| 4       | Mechanical Engineering                              | 1999             | Accredited till 30 June 2023 (SAR for re-accreditation uploaded on 09-03-2023) |
| 5       | Electronics and Communication Engineering           | 2012             | Accredited till 30 June 2025   |
| 6       | Computer Science and Design                         | 2022             | NA   |

### PG Programs

| Sl. No. | Name of PG Program<br>(Sanctioned intake of 18)               | Year of Starting | Status of Accreditation      |
|---------|---|------------------|------------------------------|
| 1       | Computer Aided Process Design (Chemical Engineering)          | 2011             | Accredited till 30 June 2025 |
| 2       | Energy systems - Analysis and Design (Mechanical Engineering) | 2012             | Accredited till 30 June 2025 |
| 3       | Signal Processing ( AE&I)                                     | 2012             | Not accredited               |
| 4       | Structural Engineering (Civil Engineering)                    | 2022             | NA                           |

## **B 2. REVIEW OF NBA EXPERT TEAM VISIT REPORT.**

The details of marks awarded, strengths, weaknesses and other key observations made by the NBA expert team who evaluated one UG program and two PG programs for accreditation are summarised below.

### **B 2.1 B.Tech in Electronics and Communication Engineering, Department of Applied Electronics & Instrumentation Engineering**

| <b>Details of marks given by evaluators</b> |   |                      |                      |
|---|---|----------------------|----------------------|
| <b>SL No</b>                                | <b>Criteria</b>   | <b>Maximum marks</b> | <b>Marks awarded</b> |
| 1   | Vision, mission and program educational objectives        | 60                   | 39                   |
| 2   | Program curriculum and teaching - learning processes      | 120                  | 65                   |
| 3   | Course outcomes and program outcomes                      | 120                  | 71                   |
| 4   | Students' performance                                     | 150                  | 88                   |
| 5   | Faculty information and contributions                     | 200                  | 144                  |
| 6   | Facilities and technical support                          | 80                   | 64                   |
| 7   | Continuous improvement                                    | 50                   | 28                   |
| 8   | First year academics                                      | 50                   | 37                   |
| 9   | Student support systems                                   | 50                   | 35                   |
| 10  | Governance, institutional support and financial resources | 120                  | 99                   |
| <b>Total marks</b>                          |   | <b>1000</b>          | <b>670</b>           |

#### **Program strengths:**

1. Faculty and staff members are enthusiastic.
2. Faculty retention and their participation in FDPs/STTPs are good.
3. All the seats are filled.
4. Good infrastructure for classes and laboratories.
5. Adequate number of qualified technical staff.

**Weakness / Areas of improvement:**

- 1 Teaching learning process need more attention to align with OBE.
- 2 Less initiative on feedback and gap analysis.
- 3 Lack of understanding on OBE among the stake holders.
- 4 Quality of projects is a concern.
- 5 Success rate without backlog is poor.
- 6 Placements of students in core companies require attention.
- 7 Limited participation of students outside the state events.
- 8 Assignments towards higher order thinking are weak.
- 9 No industry supported laboratories.

**Deficiencies:**

- 1 No sponsored core research projects and no consultancy from industry.
- 2 No visiting/Adjunct faculty appointed.
- 3 No entrepreneurs are evident during two assessment periods.

**Other observations if any:**

- 1 ICT facilities in classrooms and labs are not adequate.
- 2 Insufficient space for faculty cabins.

**B. 2.2 M.Tech in Computer Aided Process Design, Department of Chemical Engineering**

| <b>Details of marks given by evaluators</b> |  |                      |                      |
|---|--|----------------------|----------------------|
| <b>Sl. No.</b>                              | <b>Criteria</b>                                    | <b>Maximum marks</b> | <b>Marks awarded</b> |
| 1   | Program Curriculum and Teaching-Learning Processes | 125                  | 91                   |
| 2   | Program Outcomes                                   | 75                   | 49                   |
| 3   | Students' Performance                              | 75                   | 38                   |
| 4   | Faculty Contributions                              | 75                   | 41                   |
| 5   | Laboratories and Research Facilities               | 75                   | 50                   |
| 6   | Continuous Improvement                             | 75                   | 43                   |
| <b>Total marks</b>                          |  | <b>500</b>           | <b>312</b>           |

**Program strengths:**

- 1 Faculty members are enthusiastic and student friendly.
- 2 Students are well disciplined in behaviour.
- 3 Good number of faculty members including those with Ph. D.
- 4 Technical staff is well qualified.
- 5 Students regularly go for industry internship.

**Weakness/ Areas of improvement:**

- 1 Projects are not adequately complex and thought provoking for the PG level.
- 2 Many courses do not have appropriate links with program outcomes.
- 3 The examinations questions do not challenge higher order thinking
- 4 The number of students admitted is low.
- 5 Industry supported laboratory not present.
- 6 Some courses are not adequately distinguished above UG level.

**Deficiencies:**

- 1 GATE qualified candidates are not joining the program.
- 2 Placement and higher studies are low and almost no entrepreneurship.
- 3 No placement through campus placement.
- 4 Research activities of faculty members inadequate; very little sponsored project and consultancy work
- 5 Very less Ph. D guided.

**Other observations if any:**

- 1 No involvement of industry in course conduct.
- 2 Industry connect of faculty members is low.
- 3 Faculty cabins shared and small
- 4 An elaborate course diary is maintained.

## **B 2.3 M.Tech in Energy Systems Analysis & Design, Department of Mechanical Engineering**

| <b>Details of marks given by evaluators</b> |  |                      |                      |
|---|--|----------------------|----------------------|
| <b>Sl No</b>                                | <b>Criteria</b>                                      | <b>Maximum marks</b> | <b>Marks awarded</b> |
| 1   | Program Curriculum and Teaching – Learning Processes | 125                  | 79                   |
| 2   | Program Outcomes and Course Outcomes                 | 75                   | 54                   |
| 3   | Students' Performance                                | 75                   | 36                   |
| 4   | Faculty Contributions                                | 75                   | 38                   |
| 5   | Laboratories and Research Facilities                 | 75                   | 53                   |
| 6   | Continuous Improvement                               | 75                   | 46                   |
| <b>Total marks</b>                          |  | <b>500</b>           | <b>306</b>           |

### **Program strengths:**

- 1 Vision & Mission are well articulated
- 2 Student-Faculty Ratio (SFR) is Good
- 3 Faculty is well qualified
- 4 More than 50% PhDs of faculty members are from Premier Institutes
- 5 Quality of Project is Good
- 6 Laboratories are adequately equipped
- 7 Good Number of supporting staff
- 8 Faculty Participation in FDPs is excellent.

### **Weakness/ Areas of improvement:**

- 1 Interaction with industry, industrial tours and training needs improvement
- 2 Student enrolment through GATE needs improvement
- 3 Sponsored research needs improvement
- 4 Consultancy needs improvement

### **Deficiencies:**

- 1 No industry supported Laboratories



**Other observations if any:**

- 1 Good number of faculties specialized in program specific areas.
- 2 Program evaluated has reasonable admissions, considering the present scenario of Masters admission in engineering programs
- 3 Laboratory facilities to run the program are adequate and the concerned department is making efforts to improve the facilities further.

### B 3. FINANCE REPORT: STATUS OF FOUR FUNDS

The four funds -**Corpus Fund, Faculty and Staff Development Fund, Equipment Replacement Fund and Equipment Maintenance Fund** are functioning to ensure sustainability of the reforms brought by TEQIP II beyond the Project Period from July 2017 to July 2023. The details of allotted fund and expenditure incurred are given below.

#### B 3.1 CURRENT STATUS OF FOUR FUNDS

The consolidated expenditure and balance statement of FOUR Funds is given in the table below. The details of expenditure in each head are given in subsequent tables.

| <b>Four Fund Heads</b>               | <b>Total Allotted (A)</b> | <b>Total Utilization as on 20-03-2023</b> | <b>Bills received after 20-03-23</b> | <b>Purchase Order /Work order issued</b> | <b>BOG Approved* &amp; Expected Expenses</b> | <b>Total Expected Expenditure (B)</b> | <b>Balance Rs. (A-B)</b> |
|--------------------------------------|---------------------------|---|--------------------------------------|--|--|---------------------------------------|--------------------------|
| <b>Corpus</b>                        | 59,35,479                 | 48,90,325                                 | 3,04,177                             |  | 11,91,875                                    | 63,86,377                             | -4,50,898                |
| <b>Faculty and Staff development</b> | 18,08,665                 | 12,80,584                                 | 44,351                               |  |  | 13,24,935                             | 4,83,730                 |
| <b>Equipment Replacement</b>         | 41,50,445                 | 34,80,284                                 | 56,404                               | 3,03,721                                 |  | 40,35,899                             | 1,14,546                 |
| <b>Equipment Maintenance</b>         | 14,11,068                 | 7,07,067                                  | 2,593                                | 4,17,100                                 |  | 11,62,160                             | 2,48,908                 |
| <b>Total</b>                         | <b>1,33,05,657</b>        | <b>1,03,58,260</b>                        | 4,07,525                             | 7,20,821                                 | 11,91,875                                    | <b>1,29,09,371</b>                    | <b>3,96,286</b>          |
| <b>% of Expenditure</b>              |                           | <b>77.85 %</b>                            |                                      |  |  | <b>97.02 %</b>                        |                          |

\*The 28<sup>th</sup> BOG meeting approved Rs.10,00,000/- from CORPUS fund towards meeting the expenses of International conference

**B 3.2. DETAILS OF EXPENSES FROM FOUR FUNDS:**

| <b>CORPUS</b> |   |                       |                          |
|---------------|---|-----------------------|--------------------------|
| <b>Sl No</b>  | <b>Particulars</b>  | <b>Bills Received</b> | <b>Expected Expenses</b> |
| 1             | NPTEL course fee reimbursement for students                       | 1,06,770              |                          |
| 2             | Reimbursement of final year students project expenses (2021-2022) | 10,583                |                          |
| 3             | Reimbursement of final year students project expenses (2022-2023) | 1,05,828              |                          |
| 4             | Industrial Visit of students                                      | 2,997                 |                          |
| 5             | Industrial Visit of students                                      | 25,230                |                          |
| 6             | Remedial class for students (ME)                                  | 1,800                 |                          |
| 7             | Remedial class for students (AE&I)                                | 10,800                |                          |
| 8             | Expert talk for students (AE&I)                                   | 5,862                 |                          |
| 9             | Training program for students (ME)                                | 21,627                |                          |
| 10            | Training program for students (CSD)                               | 12,680                |                          |
| 11            | International Conference Yukthi 2023                              |                       | 10,00,000                |
| 12            | BoG Meeting (1) March 2023  |                       | 23,000                   |
| 13            | BoG Meeting (2) July/August 2023                                  |                       | 23,000                   |
| 14            | Salary of TEQIP office staff                                      |                       | 1,05,875                 |
| 15            | Fee for audit of TEQIP four funds (2021-22, 2022-23, 2023-24)     |                       | 35,000                   |
| 16            | Petty cash (including stationary and other expenses)              |                       | 5,000                    |
|               | <b>Sub Total</b>  | <b>3,04,177</b>       | <b>11,91,875</b>         |
|               | <b>TOTAL</b>  |                       | <b>14,96,052</b>         |

| <b>Faculty and Staff Development Fund</b> |   |                       |                          |
|---|---|-----------------------|--------------------------|
| <b>SI No</b>                              | <b>Particulars</b>                          | <b>Bills Received</b> | <b>Expected Expenses</b> |
| 1   | Registration fee - International conference | 25,831                |                          |
| 2   | NPTEL exam fee                              | 1,000                 |                          |
| 3   | Workshop registration fee                   | 6,540                 |                          |
| 4   | ICHE Membership fee                         | 8,650                 |                          |
| 5   | IEEE Membership fee                         | 2,330                 |                          |
|   | <b>Sub Total</b>                            | <b>44,351</b>         |                          |
|   | <b>TOTAL</b>                                |                       | <b>44,351</b>            |

| <b>Equipment Replacement Fund</b> |   |                       |                     |
|-----------------------------------|---|-----------------------|---------------------|
| <b>SI No</b>                      | <b>Particulars</b>  | <b>Bills Received</b> | <b>PO/WO Issued</b> |
| 1                                 | Replacement of Air Conditioner  |                       | 57,900              |
| 2                                 | Replacement of faulty electrodes of chloride and Dissolved oxygen for Research Grade Analyzer |                       | 2,45,821            |
| 3                                 | Replacement of laptop   | 56,404                |                     |
| 4                                 | Replacement of A3 Multifunction Printer   |                       | 1,30,000            |
| 5                                 | Replacement of Inkjet Printer   |                       | 46,551              |
| 6                                 | Replacement of A4 Printers  |                       | 18,939              |
|                                   | <b>Sub Total</b>  | <b>56,404</b>         | <b>4,99,211</b>     |
|                                   | <b>TOTAL</b>  |                       | <b>5,55,615</b>     |

| <b>Equipment Maintenance Fund</b> |                               |                       |                     |
|-----------------------------------|-------------------------------|-----------------------|---------------------|
| <b>SI No</b>                      | <b>Particulars</b>            | <b>Bills Received</b> | <b>PO/WO Issued</b> |
| 1                                 | Repair of UTM                 |                       | 269600              |
| 2                                 | Repair of Biomass gasifier    | 2,593                 |                     |
| 3                                 | Repair of Total Station       |                       | 35400               |
| 4                                 | Up-gradation of ETab software |                       | 147500              |
|                                   | <b>Sub Total</b>              | <b>2,593</b>          | <b>4,52,500</b>     |
|                                   | <b>TOTAL</b>                  |                       | <b>455093</b>       |

## **PART C**

### **(Future Activities/Proposals)**

#### **C1. Proposals for Re-appropriation of FOUR FUNDS, Progress of preparations for International conference**

##### **C1.1 Re-appropriation of FOUR FUNDS**

| <b>Four Fund Heads</b>               | <b>Total Allotted (A)</b> | <b>Total Expected Expenditure (B)</b> | <b>Balance Rs. (A-B)</b> | <b>Proposed Re-appropriation</b> | <b>Balance after Re-appropriation</b> |
|--------------------------------------|---------------------------|---------------------------------------|--------------------------|----------------------------------|---------------------------------------|
| <b>Corpus</b>                        | 59,35,479                 | 63,86,377                             | -4,50,898                | +6,13,454                        | 1,62,556                              |
| <b>Faculty and Staff development</b> | 18,08,665                 | 13,24,935                             | 4,83,730                 | -2,50,000                        | 2,33,730                              |
| <b>Equipment Replacement</b>         | 41,50,445                 | 40,35,899                             | 1,14,546                 | -1,14,546                        | 0                                     |
| <b>Equipment Maintenance</b>         | 14,11,068                 | 11,62,160                             | 2,48,908                 | -2,48,908                        | 0                                     |
| <b>Total</b>                         | <b>1,33,05,657</b>        | <b>1,29,09,371</b>                    | <b>3,96,286</b>          |                                  | <b>3,96,286</b>                       |

It is proposed to transfer the balance amount in ERF and EMF to CORPUS Fund. Additionally an amount of Rs.2,50,000/- from FSD fund should be transferred to CORPUS Fund for meeting all the pending and upcoming expenditures.

##### **C1.2 International Conference on Emerging Trends in Engineering – Yukthi 2023**

The International Conference on Emerging Trends in Engineering – Yukthi 2023 organised by the institute is scheduled from 10<sup>th</sup> to 12<sup>th</sup> of April 2023. A total of 166 manuscripts have been received and the initial screening with plagiarism checking and review is completed. Other preparations are nearing completion.

**\*End of Notes\***