



# Guru Nanak Dev Engineering College, Bidar

## Academic Audit Report

Name of the Department: Department of Electronics and Communication Engineering.

Academic Year: 2020-21

Date: 27-10-2020

Name, Designation and Address of Academic Auditors:

| Sl. No | Name & Designation                                  | Address of Academic Auditors |
|--------|-----------------------------------------------------|------------------------------|
| 1.     | Dr Ravindra Eklarker, Principal                     | GNDEC Bidar                  |
| 2.     | Vikas Swamy, CEO.                                   | Uber core, Bangalore         |
| 3.     | Ravinandan Punnaashetty.                            | Hitech Building Solutions    |
| 4.     | Dr. Nandkishore D.Rao, Professor and Dean academics | Mech Engg, GNDEC Bidar       |
| 5.     | Dr. Veerendra D, Assoc. Prof, and Dean R & D        | ECE, GNDEC Bidar             |
| 6.     | Dr. Dhananjay M, Professor                          | CS & Engg., GNDEC Bidar      |
| 7.     | Umashankar. Y, Asst Professor,                      | Civil Engg., GNDEC Bidar     |
| 8.     | Prasad K.K., HOD and IQAC coordinator               | Mech Engg., GNDEC Bidar      |

Departmental Faculty Members Present/Interacted:

1. Dr. Praveen Reddy
2. Dr. Sreeniwas Soma
3. Dr. Poorva

4. Nitin K.
5. Prof. Pavan. M
6. Shripa. Bisadur
7. 80th. Markai

| Criterion                                      | Items                                                       | Verification<br>(Yes / No) | Comments                                                                                                                    | Suggestions for improvement                                           |
|------------------------------------------------|-------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Program Curriculum & Teaching Learning process | Course outcomes                                             | Yes                        | Course outcomes are well defined                                                                                            |                                                                       |
|                                                | Curricular gaps and steps taken to fulfil it.               | Yes                        | Gaps are identified & appropriate actions are taken to fill the Gaps                                                        | Content beyond syllabus may added in courses wherever it is required. |
|                                                | Teaching methods                                            | Yes                        | Innovative teaching methods were used to meet expectations of students in online teaching learning process during pandemic. |                                                                       |
|                                                | Project work UG/PG                                          | Yes                        | Satisfactory                                                                                                                |                                                                       |
|                                                | Assessment – components used for calculating COs attainment | Yes                        | Satisfactory                                                                                                                |                                                                       |
|                                                | PO and PSO attainment                                       | Yes                        | Satisfactory                                                                                                                |                                                                       |
|                                                | Student support – Remedial classes                          | Yes                        | Remedial classes are conducted                                                                                              |                                                                       |

| Criterion       | Items                                                            | Verification<br>(Yes / No) | Comments                                                                                                   | Suggestions for improvement          |
|-----------------|------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------|
|                 | Parents meeting / Interaction – Evaluation of student's progress | Yes                        | Parents meeting have been conducted                                                                        |                                      |
|                 | Mentoring                                                        | Yes                        | Satisfactory                                                                                               |                                      |
|                 | Feedback from students                                           | Yes                        | Satisfactory                                                                                               |                                      |
|                 | Steps taken on the feedback                                      | Yes                        | HOD and senior faculty members counselled the faculty members whose feedback was below satisfactory level. |                                      |
| Faculty Profile | Projects completed / on going                                    | Yes                        | One project is ongoing and two projects sanctioned under VGST.                                             |                                      |
|                 | Consultancy activities                                           | No                         | -                                                                                                          | Take initiative to start consultancy |
|                 | Papers / Articles / Books published                              | Yes                        | Good                                                                                                       |                                      |

| Criterion           | Items                                                         | Verification<br>(Yes / No) | Comments                                       | Suggestions for improvement |
|---------------------|---------------------------------------------------------------|----------------------------|------------------------------------------------|-----------------------------|
|                     | Preparation of Learning materials / Content                   | Yes                        | Good                                           |                             |
|                     | FDP / Training Program / Seminar/Workshop conducted           | Yes                        | Average                                        | Improvement is needed       |
|                     | Acted as Resource Persons                                     | Yes                        | Average                                        | Improvement is needed       |
|                     | M.Tech/M.Phil. & Ph. D guided /awarded                        | Yes                        | Two Ph.Ds are awarded & 8 mtech project guided |                             |
|                     | FDP / Training Program / Seminar/Workshop/conference attended | Yes                        | Good                                           |                             |
| Profile of Students | Enrolment ratio (Admitted Vs Sanctioned Strength)             | Yes                        | Enrolment was 70%                              | Improvement is needed       |

| Criterion             | Items                                                                | Verification<br>(Yes / No) | Comments                    | Suggestions for improvement |
|-----------------------|----------------------------------------------------------------------|----------------------------|-----------------------------|-----------------------------|
|                       | Students involvement in extra-curricular & Co-curricular activities  | Yes                        | Good                        |                             |
|                       | Study tour / industrial visits / exhibitions / Internship / Training | Yes                        | Minimum because of pandemic | Improvement is needed       |
|                       | Student achievements (Curricular)                                    | Yes                        | Satisfactory                |                             |
|                       | Student achievements (Co-Curricular & Extra Curricular)              | Yes                        | Average                     | Improvement is needed       |
| Infrastructure of the | Adequacy and ambience of class rooms                                 | Yes                        | Satisfactory                | Improvement is needed       |

| Criterion                    | Items                                                                       | Verification<br>(Yes / No) | Comments     | Suggestions for improvement                     |
|------------------------------|-----------------------------------------------------------------------------|----------------------------|--------------|-------------------------------------------------|
| Department                   | Adequacy and quality of equipment/ instrument / machineries in laboratories | Yes                        | Satisfactory |                                                 |
|                              | Internet Facilities                                                         | Yes                        | Adequate     |                                                 |
|                              | Adequacy of Project/Research Lab and equipment                              | Yes                        | Adequate     |                                                 |
|                              | Library facilities                                                          | Yes                        | Satisfactory |                                                 |
| Activities of the Department | MoUs signed and activities                                                  | Yes                        | Satisfactory | More activities are to be conducted under MOUs. |
|                              | Professional Society activities                                             | Yes                        | Good         |                                                 |
|                              | Guest lectures/ Conference / Seminar / Workshop / webinars conducted        | Yes                        | Good         |                                                 |

| Criterion | Items                                                                         | Verification<br>(Yes / No) | Comments     | Suggestions for improvement |
|-----------|-------------------------------------------------------------------------------|----------------------------|--------------|-----------------------------|
|           | Interaction with Industry /<br>Research Centres /<br>Educational Institutions | Yes                        | Average      | Improvement is needed       |
|           | Newsletters / Magazine                                                        | Yes                        | Satisfactory |                             |
|           | Alumni Association and<br>activities                                          | Yes                        | Satisfactory |                             |
|           | Placements, Higher studies                                                    | Yes                        | Average      | Improvement is needed       |

Please give SWOC Analysis of the Department:

**Strength:**

- Well qualified and enthusiastic faculty.
- Vibrant student associations.
- Good Infrastructure.
- Quality publications.
- More Ph.D holders and Research scholars.

**Weakness:**

- Consultancy research.

**Opportunities:**

- Scope for increasing the patents.
- Scope for enhancing interaction with Alumni.
- Scope for enhancing Placement ratio.

**Challenges:**

- Fast changing world with cutting edge technologies.
- Strengthening Industry-Institute Interaction.
- More placements in core companies.

**Best Practices of the Department:**

- Class room seminars.
- Industry Visits.
- Workshops/seminars/guest lecturers
- Online resources
- Students involvement in organizing co-curricular and extracurricular activities.

- Student training programs.
- Outcome Based Education

Signature of the HoD with Seal

**Head of E. & CE Dept.**  
**G.N.D Engineering College**  
**BIDAR-585 403. (K.S )**

Signature of the Academic Auditors

# Guru Nanak Dev Engineering College, Bidar

## Action Taken Report

On

## Academic Audit

Department of Electronics & Communication Engineering

Academic Year: 2020-21

Date: 29-10-2020

| OBSERVATIONS                                                                                  | ACTION TO BE TAKEN                                                                                                              |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1. Content beyond syllabus may added in courses wherever it is required.                      | Required to advice faculty members to identify content beyond syllabus for effective delivery                                   |
| 2. Take initiative to start consultancy                                                       | Required to discuss with prominent Alumni                                                                                       |
| 3. Needs improvement in Acted as Resource Persons                                             | Staff members are required to be encouraged to act as resource person in their area of expertise                                |
| 4. Needs improvement in FDP / Training Program / Seminar/Workshop/conference attended         | Staff members are to be motivated to attend FDP/Training Program                                                                |
| 5. Steps need to be taken to improve the enrolment.                                           | Concession to meritorious students and desirable candidates                                                                     |
| 6. Needs improvement in study tour / industrial visits / exhibitions / Internship / Training  | Students are to be motivated to undergo internship in reputed institutes/Industry                                               |
| 7. Needs improvement in student achievements (Co-Curricular & Extra Curricular)               | Students are to be encouraged through mentor-mentee interaction to participate in co-curricular & extra -curricular activities. |
| 8. Needs Improvement Adequacy and ambience of class rooms                                     | All classrooms need to be improved by LCD projector with high speed wifi connectivity.                                          |
| 9. More activities are to be conducted under MOUs.                                            | Staff & students are required to conduct and participate under MOUs                                                             |
| 10. Needs improvement Interaction with Industry / Research Centres / Educational Institutions | Required to encourage faculties to visit premiere institute                                                                     |
| 11. Needs improvement Placements, Higher studies                                              | Staff members are required to counsel final year students for higher studies & to improve soft skills.                          |

PAC

HOD

Head of E & CE Dept.  
G.N.D Engineering College  
BIDAR-585 403. (K.S.)