



YEARLY STATUS REPORT - 2021-2022

Part A

Data of the Institution

1.Name of the Institution

Guru Nanak Dev Engineering College

- Name of the Head of the institution **Sehijpal Singh**
- Designation **Principal**
- Does the institution function from its own campus? **Yes**

- Phone No. of the Principal **01615064501**
- Alternate phone No. **9855400448**
- Mobile No. (Principal) **9855279865**
- Registered e-mail ID (Principal) **principal@gndec.ac.in**
- Address **Gill Park, Gill Road**
- City/Town **Ludhiana**
- State/UT **Punjab**
- Pin Code **141006**

2.Institutional status

- Autonomous Status (Provide the date of conferment of Autonomy) **17/08/2012**
- Type of Institution **Co-education**
- Location **Urban**

- Financial Status **Grants-in aid**
- Name of the IQAC Co-ordinator/Director **Jagbir Singh**
- Phone No. **01615064537**
- Mobile No: **9216408335**
- IQAC e-mail ID **jsdhillon26@rediffmail.com**

3. Website address (Web link of the AQAR (Previous Academic Year))

4. Was the Academic Calendar prepared for that year? **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: [https://www.gndec.ac.in/sites/default/files/Academic%20Calendar%20Aug.-Dec.%202021\(final\).pdf](https://www.gndec.ac.in/sites/default/files/Academic%20Calendar%20Aug.-Dec.%202021(final).pdf)

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.1	2015	01/05/2015	30/04/2020
Cycle 2	A	3.01	2021	31/08/2021	30/08/2026

6. Date of Establishment of IQAC **21/01/2014**

7. Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Guru Nanak Dev Engineering College	TEQIPIII	MHRD	06/03/2019	70000000

8. Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI [View File](#)

9.No. of IQAC meetings held during the year **1**

- Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? **No**

- If No, please upload the minutes of the meeting(s) and Action Taken Report [View File](#)

10.Did IQAC receive funding from any funding agency to support its activities during the year? **No**

- If yes, mention the amount

11.Significant contributions made by IQAC during the current year (maximum five bullets)

12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
Nil	Nil

13.Was the AQAR placed before the statutory body? **No**

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Nil	Nil

14.Was the institutional data submitted to AISHE ? **Yes**

- Year

Part A

Data of the Institution

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• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	01615064501
• Alternate phone No.	9855400448
• Mobile No. (Principal)	9855279865
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• Location	Urban
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• Name of the IQAC Co-ordinator/Director	Jagbir Singh

• Phone No.	01615064537				
• Mobile No:	9216408335				
• IQAC e-mail ID	jsdhillon26@rediffmail.com				
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• if yes, whether it is uploaded in the Institutional website Web link:	https://www.gndec.ac.in/sites/default/files/Academic%20Calendar%20Aug.-Dec.%202021(final).pdf				
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Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.1	2015	01/05/2015	30/04/2020
Cycle 2	A	3.01	2021	31/08/2021	30/08/2026
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Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	
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9.No. of IQAC meetings held during the year	1				

<ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? 	No	
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10. Did IQAC receive funding from any funding agency to support its activities during the year?	No	
<ul style="list-style-type: none"> If yes, mention the amount 		
11. Significant contributions made by IQAC during the current year (maximum five bullets)		
12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:		
Plan of Action	Achievements/Outcomes	
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13. Was the AQAR placed before the statutory body?	No	
<ul style="list-style-type: none"> Name of the statutory body 		
Name of the statutory body	Date of meeting(s)	
Nil	Nil	
14. Was the institutional data submitted to AISHE ?	Yes	
<ul style="list-style-type: none"> Year 		
Year	Date of Submission	
2022	30/06/2022	
15. Multidisciplinary / interdisciplinary		

Nil
16.Academic bank of credits (ABC):
Nil
17.Skill development:
Nil
18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)
Nil
19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):
Many of the programs being run by the institute (both UG & PG) have been accredited by NBA multiple times since 2008. During the current year (2021-22) only one of the UG programs, namely B.Tech. (IT) was NBA accredited but the focus on OBE is kept same in other programs as well even if these programs remain out of the NBA ambit. The syllabus is set considering course outcomes and program outcomes, and thereafter question papers are set and evaluated considering set outcomes. Further, the outcome achievement is calculated and seen for laggards
20.Distance education/online education:
Nil

Extended Profile

1.Programme

1.1 23

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 4085

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2

712

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3

6612

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1

739

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2

197

Number of full-time teachers during the year:

Extended Profile	
1.Programme	
1.1 Number of programmes offered during the year:	23
File Description	Documents
Institutional Data in Prescribed Format	View File
2.Student	
2.1 Total number of students during the year:	4085
File Description	Documents
Institutional data in Prescribed format	View File
2.2 Number of outgoing / final year students during the year:	712
File Description	Documents
Institutional Data in Prescribed Format	View File
2.3 Number of students who appeared for the examinations conducted by the institution during the year:	6612
File Description	Documents
Institutional Data in Prescribed Format	View File
3.Academic	
3.1 Number of courses in all programmes during the year:	739
File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	197
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3	239
Number of sanctioned posts for the year:	
4.Institution	
4.1	9
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	59
Total number of Classrooms and Seminar halls	
4.3	694
Total number of computers on campus for academic purposes	
4.4	83951128.42
Total expenditure, excluding salary, during the year (INR in Lakhs):	

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The institute follows a systematic process for designing, developing and for making changes in the curriculum. Changes in the curriculum as well as new programs are proposed by individual departments after a thorough discussion with all faculty members in the department. Developed and implemented curricula comprise of conventional, contemporary and advanced courses offered by programs of engineering and management at UG,

PG diploma, PG and PhD level. The curricula have been evolved by examining the academic, industry, community, employment and entrepreneurship requirements at local, regional, national and global stages with well-defined learning objectives and outcomes at program and course level.

Outcome based learning is emphasized in the institute with well defined graduate attributes, and learning outcomes at programme, programme-specific and course levels. Targeted goal of the outcome based learning is to enable the graduates to possess the requisite engineering knowledge to develop an attitude of the problem solving and exhibit skills for design and development of solutions. Graduates must be able to demonstrate the usage of modern tools and take the informed decisions highlighting the societal and environmental impacts of such decisions.

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	Nil

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

NIL

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	No File Uploaded
Details of syllabus revision during the year	No File Uploaded
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

167

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	No File Uploaded
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

19

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	No File Uploaded
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

16

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	No File Uploaded
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

GNDEC reposes strong faith in the transformational role the

education is capable of playing in a society. In order to make process of education relevant to the real world, various socio-cultural issues are widely integrated into different layers of curriculum planning and implementation at GNDEC.

At graduate level in BCA and BBA programmes, under study schemes of 2020 and 2021 respectively, two Ability Enhancement Compulsory Courses (AECC) namely Human Values, De-addiction and Traffic Rules and Human Values, De-addiction and Traffic Rules (Lab/Seminar) have been introduced with the intent to cultivate human values as well as values embodying responsible citizenship. An extensive coverage is given to the issue of Environment and sustainability in framing the curriculum of both of these programmes by including another Ability Enhancement Compulsory Courses (AECC) namely 'Environmental studies'. Besides, the course 'Business Ethics and Corporate Social Responsibility,' dealing with professional ethics, has also been made part of BBA programme. At graduate level, in Engineering programme, under the dimension of Environment and Sustainability, the subject named 'Information and Communication Technologies in Rural Sector' has been added to curriculum In 2021 as an open elective in the department of Electronics and Communication Technology.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	No File Uploaded
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

0

File Description	Documents
List of value-added courses	No File Uploaded
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

0

File Description	Documents
List of students enrolled	No File Uploaded
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

750

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

B. Any 3 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following

C. Feedback collected and analysed

File Description	Documents
Provide URL for stakeholders' feedback report	Nil
Any additional information	No File Uploaded

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

842

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

353

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

secure top ranks at the university level. Various symposiums like quiz, poster presentation, conferences, inter institution competitions, etc. are conducted to enhance their creativity level. They are also encouraged to enroll themselves in MOOC Courses through Swayam / NPTEL portal. They are also given opportunities to do mini-project works by choosing inter or intra-disciplinary elective courses or outdoor Activity-Based

Courses as per their area of interest. They are given opportunities to involve themselves in writing research papers through independent study. Induction programs for fresher so that students can be instilled with a positive attitude and get boosted to explore their intelligence quotient level.

Special Support is provided to slow learners to overcome academic difficulties in the following ways:

Extra classes during the semester, giving practice assignments. Students are provided with extra reading material to improve basic understanding of the subject. Group Study System is also encouraged with the help of advanced learners. Bilingual explanations and discussions are imparted to the slow learners after the class hours for a better understanding of the subject matter. Remedial classes are arranged for slow learners. Mentors also counsel slow learner students.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
Nil	3672	197

File Description	Documents
Upload any additional information	No File Uploaded

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Various methods of experiential and participatory learning are adopted to ensure that students are active participants than remaining passive listeners in the teaching-learning process.

The students are regularly motivated and are enrolled in various activities like:

- (a) Group discussions
- (b) Case Analysis
- (c) Roleplays
- (d) Designs Projects
- (e) Presentations
- (f) Term Papers / Seminar
- (g) Home Assignments
- (h) Minor Project
- (i) Industry internship
- (j) Major Project

College also renders various education trips such as:

1. Survey Camp for civil students:
2. Various Industrial visits:
3. Visit various IT parks/ and forums:

Apart from these, various Technical societies handled by students and guided by teachers are active in college for professional and soft skill enhancements. The following societies are listed:

1. Indian Society for Technical Education.
2. Association of Civil Engineering Students.
3. Society for automobile engineers.
4. Institution of Engineers.
5. Computer Society of India etc.

The further college also has:

1. FM community radio 90.8 MHz within Radius 20 km of GNDEC

campus ,

2.Cultural committee. For the students to show their talents in singing, dancing, mimicry, drama, etc.

3.Sports: The college has football ground, cricket ground, gym, etc. for students to participate and show their talents in various sports activities.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

ICT enabled tools like, LCD projectors, classrooms with internet facility are available since 2014. Electronic resource packages like DELNET, NPTEL, SPOKEN TUTORIAL and Digital Library are available. Open source Moodle software is installed on the college server having web address

<https://guru.gndec.ac.in/guru/>. This LCMS facility is used for quizzes, assignments, feedback survey, online attendance, question banks for different topics,

discussion forum of each course etc.

Sufficient number of books, Journals, e-journals and e-books are available in the library. From REFREAD digital library, students can access previous year's question papers, e books and e journals through this portal. College has five seminar halls, equipped with ICT tools.

College has in house developed software by the automation committee. Each student is given a login account and all-important information related with academics, fee and examination is available to the students in their dashboard. College radio is another ICT tool, where students record and air discussions and debates on important issues and career opportunities from time to time. Students are encouraged to develop the habit of self-learning through ICT by attending MOOCs through SWAYAM/NPTEL or spoken tutorials. College has formed a Single Point of Contact (SPOC) to handle all these

online learning activities.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://gndec.ac.in/?q=node/534
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues**2.3.3.1 - Number of mentors**

173

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Academic calendar is prepared semester wise (Odd and Even semester) by

Dean Academics. It comprises of all mandatory guidelines provided by the university. It is designed in the

following manner:-

1.Start and End dates for all the courses of the current semester.

2.Start and End dates for First Mid-semester examination and Second Mid-semester examinations for

all courses.

3.Duration of Preparatory holidays for End semester examination of students.

4.End semester examination dates for all Courses.

5. Practical Examinations for all the branches will start immediately after the end of regular examinations.

6. Vacation dates for faculty members.

In designing an Academic calendar, a minimum of 90 working days must be ensured in a semester keeping

the view of university norms. In a case falling short of 90 days, it should be compensated by making

Saturday/Holidays Working.

In addition to the above mentioned details, the duration for the following events is also provided during

Even semester:-

1. Athletic Meet

2. Cultural Fest (AnandUtsav)

3. Annual Convocation

4. Foundation Day

Institutional Training.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

197

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

68

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

10

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

22

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

The examination procedure consists of four sections: Conduct, Question Paper and Printing, Evaluation, and Decoding and Result. In the Conduct section, the examination form is filled and submitted, a provisional date sheet is announced and finalized, and admit cards are issued. Duties are assigned to staff members and students are allocated to different examination centers. In the Question Paper and Printing section, study schemes are obtained, question papers are set by subject experts, printed, and distributed to invigilators. Discrepancies in question papers are addressed by a grace awarding committee. In the Evaluation section, answer sheets are collected, evaluated by examiners, and marks are uploaded. The Decoding and Result section involves decoding answer sheets, preparing the result, incorporating grace marks if applicable, and publishing the provisional result. IT integration has automated processes like examination form generation, secrecy code generation, and result compilation. Continuous internal assessment, including assignments and quizzes, is conducted to assess students' understanding throughout the semester.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

GNDEC has implemented the UGC's recommendations on Evaluation Reforms in Higher Education. The recommendations support outcome-based education in Indian institutions. Program Outcomes (POs) represent the desired knowledge, skills, and attitudes at the end of a course in an engineering program. Course Outcomes (COs) define the knowledge and skills gained from each course. Program Specific Outcomes (PSOs) emphasize the application of knowledge for societal betterment. These outcomes are communicated to stakeholders through orientation programs, syllabi, and assessment strategies. The Department Advisory Board approves POs and PSOs, which are made available on department websites and displayed prominently on campus. Teachers strive to help students achieve the expected course outcomes.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Course outcomes are assessed directly and quantitatively, linked to program outcomes (POs) and program-specific outcomes (PSOs). Various content delivery methods, such as expert talks, assignments, projects, and presentations, are utilized. The Learning Content Management System (LCMS) and national portals like NPTEL are used to provide e-content. Faculty members maintain course files, plan lectures, and the department head monitors the delivery process. Evaluation includes direct

assessment tools like assignments, mid-semester and end-semester examinations focused on attaining course outcomes and POs. Indirect assessment tools include participation reports and surveys embedded in courses, graduate, alumni, and employer surveys. Program outcomes and PSOs are assessed through a multi-step process involving analysis, defining performance indicators and targets, course alignment, data collection, analysis by the Program Assessment Committee, and recommendations for improvements. The assessment process continues throughout the academic session using direct and indirect methods at the micro-level, such as tests, assignments, and practicals.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

844

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	https://appsc.gndec.ac.in/sites/default/files/exam%20report%2021-22.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

<https://appsc.gndec.ac.in/sites/default/files/SSS%2021-22.pdf>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

In a progressively growing nation, research and development plays an important role for economic growth. GNDEC, Ludhiana has a long history of its R&D portfolio with the aim to think about global solutions that are competitive, yet possessing rural backgrounds. The institute continues to uplift the zeal of research among faculty members and students by providing provisions for seed money to contribute to new scientific knowledge and deliver new technology towards national growth. The output of our faculty's research is scripted in high impact journal publications. One patent has been granted to institute faculty and several have been published/ filed. Further to promote research the institute does the Institute has provisions for giving incentives for publishing research papers in high quality journals with good impact factor. The institute follows a well-defined research policy since 2019 and provides seed money to faculty members to carry out the research. The research policy of the institute is available on the website. In regard to the promotion of research, the faculty members published many research articles in highly reputed journals with impact factor. The h index of Institution is 43 (Web of Science) and 53 (Scopus).

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.gndec.ac.in/sites/default/files/Research%20Policy.pdf
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

1

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

1

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

20

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

1

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

A sister concern of Guru Nanak Dev Engineering College, Gill Road, Ludhiana and promoted by the State and the Development of Science and Technology, Govt. of India, STEP-GNDEC, established in 1986, gives an opportunity to new entrepreneurs to start their ventures. It has been conducting successfully

Entrepreneurship Awareness Camps (EACs) of 3 days' duration under the aegis of Department Of Science & Technology (DST) Govt. of India and Entrepreneurship Institute (EDI, Ahmedabad). A visit to the industries located in the STEP-GNDEC is also arranged to bring the students in direct touch with practicing entrepreneurs.

Further, Activities/Events conforming to "Innovation" have been strengthened in GNDEC through "TEQIP-II", now "TEQIP-III" (since March, 2019), wherein the focus is given on implementation of reforms, achievements in project activities under different sub-components, procurement of resources and services, utilization of financial allocations and achievements in faculty and staff development and management development activities. Moreover, students are being encouraged to participate in various competent programs, through which they can utilise the model of "Learn...Unlearn...and Re-learn", thereby providing a boost to their creative skills.

Adding to this, IPR Cell has also been formed to hearten up high standards of academics and research, thereby enriching our innovations.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

4

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures

A. All of the above

implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

61

File Description	Documents
URL to the research page on HEI website	https://www.gndec.ac.in/?q=node/32
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

0.1878

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

0.1116

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://gndec.ac.in/sites/default/files/Books_Conferences(2021-22).pdf

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

4586

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

53

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

342

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Various activities conducted as per attached data and additional files

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

0

File Description	Documents
Number of awards for extension activities in during the year	No File Uploaded
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

36

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

5434

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

14

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

9

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

Guru Nanak Dev Engineering College spans 67 acres and boasts a well-planned campus with beautiful trees, pathways, and flower beds. It includes a college building, hostels, a swimming pool, sports facilities, a Gurudwara Sahib, a bank, a dispensary, a post office, and an open-air theater. The campus is known for its greenery and state-of-the-art infrastructure, including LCD and overhead projectors, conference rooms, a digital library, Wi-Fi, and over 1000 computers. The college has 54 classrooms, 65 laboratories, and a well-equipped workshop. A computer center with 3000 nodes provides network connectivity, web, email, and high-speed internet access. Each group of 20 students has an academic mentor for guidance. The college has societies and clubs for student needs and continually upgrades its infrastructure. It also ensures facilities for students with disabilities. In summary, Guru Nanak Dev Engineering College offers adequate

infrastructure and physical facilities for teaching and learning, such as classrooms, labs, and computing equipment.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://gndec.ac.in/gallery/index.php?category/7

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

Guru Nanak Dev Engineering College prioritizes the holistic development of students and provides ample facilities for cultural and sports activities. The college features playgrounds, a swimming pool, and a well-equipped gymnasium for sports competitions. It has been the overall university champion for men and women since 1997. Students receive the necessary support to participate in inter-university level sports and cultural events.

The institute boasts state-of-the-art facilities for cultural activities, including a central auditorium and an open-air theater. The auditorium, with a seating capacity of 650, has been in existence for almost fifty years, while the open-air theater was constructed in 2014 and can accommodate 3000 individuals. Both venues are spacious enough to accommodate the college's student enrollment. The auditorium is fully air-conditioned and equipped with modern projection, excellent acoustics, flexible lighting, and absorbent ceilings. The open-air theater includes separate green rooms, permanent seating for students, toilets, and a wide stage. Various cultural programs are organized at both venues and renowned cultural groups are invited for the benefit of students and the community.

In summary, Guru Nanak Dev Engineering College provides adequate facilities for cultural and sports activities, supporting the overall development of students. The college's state-of-the-art auditorium and open-air theater serve as venues for diverse cultural events, contributing to a vibrant campus atmosphere.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	Nil

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

50

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

91.93

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Library of the institute is fully automated with e-Granthalaya software package which is an integrated multi-user library management system that supports all in-house operations of the Library.

Name of the ILMS software: e-granthalya Nature of automation (fully or partially): Fully Version: 3.0

Year of automation: 2009

URL: <https://library.gndec.ac.in/>

Online Public Access Catalogue facility is available at the Reference Desk on the Ground Floor of the Library. Library collection can also be accessed through Web OPAC at any terminal on the Campus Network. The reference collection of the Library is continuously updated and augmented with the

acquisition of CD-ROM databases and access to online databases on the Internet. Library is also connected with DELNET for inter-library loan and document delivery services.

e-Granthalaya has been developed by a team of experts from software as well as Library and Information Science discipline and is useful for the automation of in-house activities of libraries and to provide various online member services. The software provides built-in Web OPAC interface to publish the library catalog over Internet and is UNICODE Compliant thus, supports data entry in local languages.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://library.gndec.ac.in/

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

2522098

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

199

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	No File Uploaded

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The Central Computer Centre (CCC) at the institution provides various services including LAN/WLAN implementation, software and hardware maintenance, equipment procurement and support. It offers Internet access and network services to the entire institute through leased line connections. The CCC maintains a campus-wide LAN with wired nodes and wireless access points. It has state-of-the-art computational labs, a data center, and provides round-the-clock Internet access to users. User authentication is done through a username and password-based system, with LDAP server configuration for maintenance. Cybersecurity measures such as Unified Threat Management and Firewalls are in place to ensure the security of the network. The CCC organizes online courses and also offers repair and maintenance services for electronic instruments, PCs, and peripherals. It contributes to the implementation of an in-house ERP software system and is responsible for maintaining the institutional website and mail server. The institution has an IT policy that covers Wi-Fi, cyber security, and other aspects, and has allocated a budget for updating its IT facilities. The main

aim of the CCC is to provide better support and services to promote the individual and collective growth of the users.

IT Policy

Internal Policy

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://cc.gndec.ac.in/sites/default/files/Internet%20Policy%20%28Wired%20%26%20Wi-fi%20Network%20Policy%29.pdf

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3097	694

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development:

E. None of the above

Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	No File Uploaded

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

43.36

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	No File Uploaded

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The Nankana Sahib Education Trust oversees the construction and maintenance of the institute's infrastructure, including buildings, classrooms, laboratories, and the library. Each department has its own staff responsible for maintaining the lab equipment, and a Maintenance Cell handles equipment repairs. The Central Computer Centre (CCC) is in charge of maintaining IT equipment, including computers, network devices, and software. The CCC has system analysts, programmers, and technicians to address hardware, software, and network issues. The sports facilities and grounds are maintained by full-time groundskeepers, while dedicated coaches ensure the upkeep of equipment and grounds. The institute takes initiatives to enhance the campus's physical ambience. Established systems and procedures are in place for reporting and attending to maintenance issues, with specialized contractors hired when needed. Technical staff promptly address IT and electronic equipment problems in classrooms and laboratories. The trust and various departments work together to ensure the efficient maintenance and utilization of physical, academic, and support facilities, such as classrooms, laboratories, library, sports

complex, and computers.

Maintenance Policy

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://cc.gndec.ac.in/sites/default/files/mpc.pdf

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

509

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

142

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology B. Any 3 of the above

File Description	Documents
Link to Institutional website	Nil
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

1044

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

362

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

21

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

15

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

2

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

College creates a platform for the active participation of the students in the various academic & administrative bodies including various activities such as Training and Placement, Sports etc. This empowers the students in gaining leadership qualities, rules, regulations and execution skills.

Student Council: The main aim of student council is to share student's idea, interests with the college administration. At this platform the students have the opportunity to express their views on issues concern to college and it is act as a voice of the student body as well as a bridge between the college administration and students. Various programs like paper presentations, workshops etc are organized by the body through other societies in every year.

Training and Placement Committee: The students extensively serve on the placement committee and are primarily responsible for smooth conduct of placement sessions when organizations visit GNDEC campus.

ISTE and SCIE Committee: Student committee members are responsible for organizing the student activities. They are also acting as brand ambassadors of the society and help in recruiting and grooming their juniors.

Sport Student Committee: The member students coordinate in the conduct of various sports activities in the campus and show their ability to handle such events.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

5.3.3 - Number of sports and cultural events / competitions organised by the institution

16

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alumni is always an effective role model and can be easily accepted by students. The involvement of alumni in supporting and providing contributions voluntarily to this Institution is maintaining and expanding its development. As we know, Every alumni gained versatile experience being a student to becoming a unique and different graduate, hence they have potential to contribute to the institution in different ways and scale. Society named "Genco Alumni Association", No. 232 of 1999-2000, of Guru Nanak Dev Engineering college, Ludhiana has registered under the societies Registration Act. 1860 on 06-05-1999.

Our alumni share their career experiences with our students whether in time management, financial management, development of self-discipline and character, or in career management and we found that their sayings are easily accepted by students. Through this way, they help in strengthening confidence, improve motivation and inculcate the right culture in line with what our Institution intends to convey to our students.

Alumni especially the more senior ones that are more stable from the economy perspective reduce the financial burden of the Institution for the betterment of the students. They give greater collection of funds every year enabling the establishment of scholarships, supporting students' activities, etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

5.4.2 - Alumni's financial contribution during the year **E. <2 Lakhs**

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

As one of the pioneer and an prestigious institute of northern India, Guru Nanak Dev Engineering College (an autonomous college under UGC Act) was established in 1956, under the aegis of Nankana Sahib Education Trust, devoted to the cause of rural education to meet the growing demand for technical and professional manpower and industries. It is one of the India's leading Institutions providing quality technical education in the field of engineering and technology, for more than 63 years. GNDEC runs seven Engineering Branches at UG level, BCA and BBA and 15 PG level courses including MBA, MCA. The college also runs GNDEC school of Architecture and has Ph.D in most of the Engineering Branches. It is a QIP Centre under AICTE for Ph.D in streams viz. Civil Engg., Mech. Engg & Electrical Engineering. Apart from academic excellence the institute believes in the holistic development of the personality of each and every student, hence ample stress is given on Sports, cultural and other extracurricular activities. The institute has been carrying forward its long and cherished legacy and a focused aptitude of imparting quality and modern education in this dynamic world. The strategic intent of the institute are well reflected in its Vision and the Mission statements.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The culture of Participative Management and Decentralization is ingrained at all levels in the organization. Delegation of authority at all possible levels ensures the decentralization is possible. The Management in the light of its policies and plans, takes important administrative decisions by holding the meetings with the head of the institution. These decisions are implemented by the Deans, Heads and the administrative staff of the institution. The delegation of authority in the organization is followed at three levels. Top-level are responsible for controlling and overseeing the entire institution. It includes the Chairman, Governing council, and Principal. The Principal heads the academic and administrative activities of the Institute. Middle-level includes (HOD) and Deans. They help in the execution of institutional plans. Lower-level includes faculty, non-teaching staff and others. They help the middle level by coordinating the activities delegated to them. Culture of participative management is prevalent in all academic and non-academic Areas. Committee system for implementation of all its decisions is in place. Equal representation in various committees at all levels is there from Professors, Associate Professors and Assistant Professors. By introducing decentralization and participative management, GNDEC is committed to improving the procedures and functioning of the institute as well.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The strategic plan has been prepared for a time period of 5 years (2019-2024) with due consultation and inputs from the internal as well as the external stake holders. The strategic plan incorporates the broad domains of Academics, Research, Infrastructure and the plans that focus on the betterment of the employees of the institute. On the basis of the time frame these plans have been further categorized as the short term and the long term plans. Academic plans include the revision and updation of the curriculum to help the students to achieve better employability; start-ups and other avenues for higher studies. The academic curriculum has been designed in such a way that it encourages innovation and creativity among students. Another domain of prime focus has been the Industry Institute Interaction: Industry cell of the institute is functioning primarily to promote industry - institute coordinated approach to solve industrial problems mainly of MSME units of the region by involving industrial personnel, faculty, staff and students of undergraduate, post graduate and research programs of the institute from all disciplines. The infrastructure of the institute is maintained by the maintenance cell and the new infrastructural facilities are created as per the requirements. Various welfare measures/schemes for the employees are also in place.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

Functioning of any organization depends on various Institutional bodies that are constituted and all such bodies along with their responsibility levels are shown in the Organisational Organogram. GNDEC follows a top- down approach wherein at the top there is BOG. The Board of Governance is the principal executive body of the institute, instrumental in providing the direction and is responsible for controlling the affairs of the Institute. The members of this body comprise of people with vast

knowledge and experience in the field of academics, research, industry and administration. The Governing Council meets on regular basis and interacts with stake holders to understand the improvement areas. Board of Governors are elected for a tenure of three years. Worthy principal follows the next hierarchical level, he is responsible for overall administration and academic functioning of the institution as per the policies and the guidelines issued by the related statutory authorities. Further the Deans, Controller of examination and Head of Departments all help in the smooth functioning and running of the organization, progressing down the hierarchical setup the ministerial staff forms the last component of the organogram. Various rules, policies, recruitment procedures, promotional policies are as per the AICTE and GNDEC norms.

File Description	Documents
Paste link to Organogram on the institution webpage	https://gndec.ac.in/sites/default/files/m_d7622.pdf
Upload any additional information	View File
Paste link for additional Information	Nil

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination C. Any two of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The various welfare schemes for teaching and non teaching staff include:

- 1.MOU and Tie ups with hospitals for medical facilities
- 2.Retirement benefits (Gratuity, CPF, Leave Encashment)
- 3.Leave facilities: Leave facilities to the staff are as per the stipulated norms.
- 4.In campus residential facilities:
- 5.In house Medical Aid, Medical Loan and Group Insurance.
- 6.Wheat loan facility: Wheat loan facility is available as per the stipulated norms.
- 7.Maternity benefits: Females are provided with the Maternity benefits as per the rules and regulations.
- 8.Medical leave.
- 9.24-hour power back-up (100%).
- 10.Banking facility and Post office
- 12.Recreational facilities : children park, swimming pool, Running track,Gymnasium, Grounds for football, hockey, badminton, volley ball etc

PROFESSIONAL

To enhance the professional abilities the institute provides the various types of professional schemes for the teaching and the non-teaching staff which includes:

1. Re-imburement of Ph.D. fee
2. Incentives for Research paper publishing as per R & D Policy.
3. Financial assistance up to Rs. 5000/- per year for online MOOC courses
4. Subject domain training through STTP/FDP etc.
5. Management Capacity Enhancement Training
6. Need based seed money to procure equipment for research
7. International/National Travel Grant to faculty within and

outside India

8. Membership fee of Professional Societies

9. Purchase of books and other contingency items

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

00

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

02

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

159

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The Institute in order to access the financial position duly conducts the financial audits on regular basis for which: Each year Guru Nanak Dev Engg. College conducts financial audit through competent authority. Auditors Visit College at regular intervals. Each financial transaction is checked thoroughly. Right from ascertaining its sanction by competent authority, to its proper execution and implementation. Audit is conducted in accordance with the Auditing standards generally accepted in India. The audit report is open to public scrutiny.

Normally, there are no major audit objections. In most cases objections are minor in nature. In case of an audit objection, these are complied with and necessary corrective measures are taken.

Annual statements of accounts providing income and expenditure statement of academic and administrative activities of previous five years are mentioned below.

Hard copies Audited Balance Sheets for each Accounting head for past five years are available for reference.

Year wise Balance Sheet of different accounting heads are displayed on college website for public knowledge & transparency.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

2.857

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

The resource generation as well as its mobilization is carried out systematically in which Faculty is informed through Head of the Departments regarding various schemes of State / Central Govt. / or other funding agencies. Faculty is encouraged to get grants from different organizations. Because of these efforts College has got grants under TEQIP-III, DST-FIST, MODROB, ISTE, and GIAN. List of grants received by Faculty under these heads for past five is attached alongwith.

After utilization of grant audited resource utilization certificates are sent to competent authority.

College also maintains Corpus Fund to tune of Rupees 14 Crores. Under following heads

- General Corpus Fund
- Equipment Replacement Fund
- Maintenance Fund
- Faculty Development Fund

Guru Nanak Dev Engg. College focuses to get funds from numerous other sources such as alumni, consultancy, and research through

industry institute interaction. Mobilization of funds is also through interest earned by depositing the surplus in form of short & long term fixed deposits.

Funds utilization strategies

- Financial requirement of each department is enquired and development fund budget is allocated.
- Purchase of any equipment or asset is carried through proper procedure.
- For development of infrastructure separate committee is formed.
- Payments are released only after approval by inspection committee.

Periodic monitoring of utilization of funds is conducted.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The Internal Quality Assurance Cell (IQAC) plays a crucial role in promoting and sustaining a culture of quality enhancement in educational institutions. As a result of IQAC initiatives, two practices that have been institutionalized are:

Outcome-Based Education (OBE): IQAC initiatives have led to the adoption and implementation of Outcome-Based Education practices in the institute. OBE focuses on defining clear learning outcomes and aligning teaching, learning, and assessment methods to achieve those outcomes. It emphasizes the development of specific skills, knowledge, and competencies among students, ensuring that they are well-prepared for their future careers. OBE involves systematic curriculum planning, designing learner-centric instructional strategies, and employing effective assessment methods to measure the attainment of desired

outcomes.

Documentation and Knowledge Management: The IQAC has institutionalized robust documentation and knowledge management practices. This involves maintaining a centralized repository of all IQAC-related documents, including policies, guidelines, reports, and minutes of meetings. The IQAC ensures that the documentation is organized, accessible, and regularly updated and is available on the college's website www.gndec.ac.in. By institutionalizing documentation and knowledge management, the IQAC ensures continuity, consistency, and efficiency in its operations, even in the face of personnel changes or transitions.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

In response to the growing importance of technology in education, the IQAC facilitated an institutional review focusing on technology-enabled learning initiatives. The IQAC facilitated the implementation of various technology-enabled learning initiatives, such as:

a) **Learning Management System (LMS) Integration:** The IQAC supported the integration and utilization of a robust Learning Management System (LMS) platform (guru.gndec.ac.in) across departments. The LMS served as a central hub for course materials, assignments, assessments, and interactive discussions

b) **Online Learning Resources:** The IQAC collaborated with faculty members to develop and curate online learning resources, including interactive simulations, and multimedia presentations.

The implementation of technology-enabled learning initiatives facilitated active student engagement, anytime-anywhere access to learning materials, and personalized learning experiences.

Review of IQAC Structure and Functioning: The IQAC assesses its effectiveness and identify areas for improvement. This review

involved examining the composition of the IQAC, its roles and responsibilities, and its alignment with the institution's goals and objectives. Based on the review findings, the IQAC implemented reforms such as including representatives from diverse departments and other noted institutions for ensuring better exposure and feedback. External members include Dr. S.B. Singh (Ex-Principal, GNDEC) and prominent alumni, Er. Harpreet Khatar and Dr. Sandeep Grover from YMCA University of Science and Technology, Faridabad. It also clarified the roles and responsibilities of IQAC members, established clearer communication channels, and streamlined decision-making processes. These reforms aimed to strengthen the IQAC's governance structure, enhance its effectiveness in driving quality.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://gndec.ac.in/sites/default/files/a_r2122_0.pdf
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES**7.1 - Institutional Values and Social Responsibilities**

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Institution provides facilities such as:

a) There is an arrangement for 24x7 security staff at Hostels and the two Entry Gates alongwith CCTV facility. The institute has sufficiently high boundary wall around its complete perimeter to prevent trespassing.

b) Various senior officials of GNDEC including the Principal reside inside the campus for easy approachability during any exigent situation.

c) The girls' hostel has additional fencing around each block and 24-hour security with CCTV assistance.

d) Checking of vehicles at all entry points is carried out.

e) Entry of outsiders in residential areas is strictly regulated.

f) The institute has in place an Internal Complaint committee .

Institute provides equal opportunity to all the students irrespective of their gender in all aspects. Women staff and Faculty members can avail the maternity leaves as per Punjab Government norms apart from other kind of leaves like casual leave, earned leave and medical leave as is applicable to male staff members as per norms laid by Punjab Governmentt.

Female students are also provided equal opportunity in all aspects like Sports, NCC, and NSS, Curricular,Co-curricular activities and Campus Placements.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy plant Wheeling to the Grid energy conservation Use of LED bulbs/ power-efficient equipment

B. Any 3 of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

E-Waste : The institute follows the policy as laid down by Punjab Pollution Control Board for disposal of e-waste and MOU with vendor exists. Also a committee approved at institute level to look after the disposal of this waste.

Solid waste management: All the Biodegradable materials such as garden waste is converted into manure in compost pits which are used as an organic fertilizer for the gardens in college campus and for the college Nursery. Non-biodegradable materials such as paper and plastic waste are segregated by putting in blue coloured bins at different locations in the campus and this garbage is then picked by A2Z company appointed by Ludhiana Municipal Corporation at regular intervals.

Liquid waste management: The College has a rain water harvesting unit for rain water management. A sewage treatment plant with a capacity of 500 kld is installed in the college campus. Treated water is used for gardens and grounds in the college campus.

Waste recycling system: Biodegradable materials such as Food waste from college hostel and canteen and staff quarters are converted into manure using vermi composting. The swimming pool waste water is also being utilised in the college grounds using sprinkler system.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

B. Any 3 of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

C. Any 2 of the above

- 1. Green audit**
- 2. Energy audit**
- 3. Environment audit**
- 4. Clean and green campus recognitions/awards**
- 5. Beyond the campus environmental promotional activities**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

B. Any 3 of the above

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The Institute, under the able guidance of President of Nanakana Sahib Education Trust(Governing Body of Institute) who is also of President Shiromani Gurdawara Parbandhak Committee , provides a harmonious atmosphere for all students . Institute has studentadmissions from different states across the country.

Different Languages which can make the students comfortable in learning are used to teach and solve the concerns of student by Teaching and Non-Teaching Staff Members. Different religious programmes are held in the institute by the students and for the students. The students study in classrooms, stay in hostels and eat in mess harmoniously irrespective of their caste, religion or native place as Sikh religion always prey to almighty for wellbeing of all the Humans on earth.

Institute provides the students a stage to show their culture, traditions by arranging cultural Programs and celebrate their religious festivals of whatever faith they belong to.

Cultural Programs, Sports Activities like Annual Athletic Meet, technical events are held every year for the mental and physical wellbeing of the students. NSS and

NCC platform is also provided to the students for their overall developments.

Training and Placement Cell provides training to the students for developing their employment skills.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	No File Uploaded

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The institute understands and appreciates the importance of responsible citizens and strives to inculcate values in its students and employees a strong love and affection for the nation and its role models.

Students and staff including teaching and non-teaching are guided to increase their knowledge by conducting special lectures and seminars to provide the information of

constitutional obligations: values, rights, duties and responsibilities of citizens by the Institute. National days are celebrated in the Institutions like Republic Day, Independence Day, Teacher's Day, Women's Day Engineer's Day, Constitutional Day, Voter's Day for the benefits of staff and students.

Lectures are also arranged for the students and staff on current issues like relevance of human values and ethics among engineering graduates, life sketch of national idols like Dr. B. R. Ambedkar, Fundamental Rights and duties enshrined in Indian Constitution etc.

A course on "Indian Constitution" and "Human Value and Professional Ethics" have been included in the curriculum so as to awaken the students towards national values and social ethics.

Constitution Day and voter Day are celebrated.

Also the institute attempts to kindle the spirit of nationalism in its students and employees by celebrating the birth and death anniversaries of our national heroes like Shaheed Bhagat Singh. Students are explained the importance of electoral system and motivated to participate in it.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

C. Any 2 of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The institute celebrates important national and international commemorative events and festivals.

The Republic Day is celebrated by hoisting the National Flag in the morning at GNDEC Campus by the Principal and Guard of Honour is given by NCC Cadet of the college.

Sikh Environment Day & World Environment Day are celebrated by organizing a lecture towards the role of keeping the environment

clean in well-being of society.

Independence Day celebrations are marked at GNDEC by hoisting the National Flag in the morning.

Engineer's Day is celebrated at the college by the Local Chapter of Institution of Engineers which organizes expert Lectures.

On Swachh Bharat Abhiyan the cleanliness drive in and around the campus is carried out by the students and staff of college.

Samvidhan Divas or Constitution day is celebrated in the college by arranging lectures and debates about the constitution of India on 26th November each year.

World Mental Health Week- 5th October to 10th October is also celebrated in the institute with an aim to create awareness about mental health issues, both within and outside the institute

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Practice - 1

Title: One Semester Industrial Training

Objective: To prepare industry ready students.

The Context:

As is known that the learning is enhanced many times by doing rather than by just reading, this concept of six months industrial training was mooted to help the upcoming

graduates adapt to industry seamlessly.

The Practice:

Training undertaken after completion of 6/7 semesters in an industry of choice for a 6 month period.

Evidence of success:

More readily acceptance of students for employment in industry.

Problems encountered:

Lack of trust between academia and industry .

Practice - 2

Title : Objective Evaluation

Objective:

To create measurability of the level of learning attained by the students

The Context:

The outcome based learning is aimed at equipping students in higher education with higher order thinking skills.

The Practice:

Formulating clear and objective course outcomes for each course and designing a question paper format which would enable to measure the extent of learning with respect to course outcomes using revised Bloom's Taxonomy.

Evidence of Success:

Screening committees at departmental levels created to review the question papers prepared and report any shortcomings for revision before it is ready for use.

Problems Encountered:

Continuous effort are required on part both learners as well as facilitators.

File Description	Documents
Best practices in the Institutional website	https://gndec.ac.in/sites/default/files/Best_Practices_1.pdf
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Special attention is paid to developing communication skills through personalized contact of students with the faculty under the mentorship system.

In addition to that English language classes are arranged to bring the language skills at par with the urban counterparts.

To build the confidence in the students from rural background various societies and their chapters are established in the college. These societies were primarily focused on organizing various activities including debates, declamations, quizzes, paper presentation, extempore etc.

The National Service Scheme unit of the institute plans, organizes activities to address

rural problems thereby giving the student members a connect with their community and also bridging the gap between the urban and the rural.

These efforts have been able to create an overall personality development of the students and creation of an illustrious alumnus.

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The institute follows a systematic process for designing, developing and for making changes in the curriculum. Changes in the curriculum as well as new programs are proposed by individual departments after a thorough discussion with all faculty members in the department. Developed and implemented curricula comprise of conventional, contemporary and advanced courses offered by programs of engineering and management at UG, PG diploma, PG and PhD level. The curricula have been evolved by examining the academic, industry, community, employment and entrepreneurship requirements at local, regional, national and global stages with well-defined learning objectives and outcomes at program and course level.

Outcome based learning is emphasized in the institute with well defined graduate attributes, and learning outcomes at programme, programme-specific and course levels. Targeted goal of the outcome based learning is to enable the graduates to possess the requisite engineering knowledge to develop an attitude of the problem solving and exhibit skills for design and development of solutions. Graduates must be able to demonstrate the usage of modern tools and take the informed decisions highlighting the societal and environmental impacts of such decisions.

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	Nil

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

NIL

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	No File Uploaded
Details of syllabus revision during the year	No File Uploaded
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

167

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	No File Uploaded
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

19

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	No File Uploaded
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

16

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	No File Uploaded
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

GNDEC reposes strong faith in the transformational role the education is capable of playing in a society. In order to make process of education relevant to the real world, various socio-cultural issues are widely integrated into different layers of curriculum planning and implementation at GNDEC.

At graduate level in BCA and BBA programmes, under study schemes of 2020 and 2021 respectively, two Ability Enhancement Compulsory Courses (AECC) namely Human Values, De-addiction and Traffic Rules and Human Values, De-addiction and Traffic Rules (Lab/Seminar) have been introduced with the intent to cultivate human values as well as values embodying responsible citizenship. An extensive coverage is given to the issue of Environment and sustainability in framing the curriculum of both of these programmes by including another Ability Enhancement Compulsory Courses (AECC) namely 'Environmental studies'. Besides, the course 'Business Ethics and Corporate Social Responsibility,' dealing with professional ethics, has also been made part of BBA programme. At graduate level, in Engineering programme, under the dimension of Environment and Sustainability, the subject named 'Information and Communication Technologies in Rural Sector' has been added to curriculum In 2021 as an open elective in the department of Electronics and Communication Technology.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	No File Uploaded
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

0

File Description	Documents
List of value-added courses	No File Uploaded
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

0

File Description	Documents
List of students enrolled	No File Uploaded
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

750

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	B. Any 3 of the above
File Description	Documents
Provide the URL for stakeholders' feedback report	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	No File Uploaded
1.4.2 - The feedback system of the Institution comprises the following	C. Feedback collected and analysed
File Description	Documents
Provide URL for stakeholders' feedback report	Nil
Any additional information	No File Uploaded
TEACHING-LEARNING AND EVALUATION	
2.1 - Student Enrollment and Profile	
2.1.1 - Enrolment of Students	
2.1.1.1 - Number of students admitted (year-wise) during the year	
842	
File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File
2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)	
353	

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

secure top ranks at the university level. Various symposiums like quiz, poster presentation, conferences, inter institution competitions, etc. are conducted to enhance their creativity level. They are also encouraged to enroll themselves in MOOC Courses through Swayam / NPTEL portal. They are also given opportunities to do mini-project works by choosing inter or intra-disciplinary elective courses or outdoor Activity-Based Courses as per their area of interest. They are given opportunities to involve themselves in writing research papers through independent study. Induction programs for fresher so that students can be instilled with a positive attitude and get boosted to explore their intelligence quotient level.

Special Support is provided to slow learners to overcome academic difficulties in the following ways:

Extra classes during the semester, giving practice assignments. Students are provided with extra reading material to improve basic understanding of the subject. Group Study System is also encouraged with the help of advanced learners. Bilingual explanations and discussions are imparted to the slow learners after the class hours for a better understanding of the subject matter. Remedial classes are arranged for slow learners. Mentors also counsel slow learner students.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
Nil	3672	197

File Description	Documents
Upload any additional information	No File Uploaded

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Various methods of experiential and participatory learning are adopted to ensure that students are active participants than remaining passive listeners in the teaching-learning process.

The students are regularly motivated and are enrolled in various activities like:

- (a) Group discussions
- (b) Case Analysis
- (c) Roleplays
- (d) Designs Projects
- (e) Presentations
- (f) Term Papers / Seminar
- (g) Home Assignments
- (h) Minor Project
- (i) Industry internship
- (j) Major Project

College also renders various education trips such as:

1. Survey Camp for civil students:

2. Various Industrial visits:**3. Visit various IT parks/ and forums:**

Apart from these, various Technical societies handled by students and guided by teachers are active in college for professional and soft skill enhancements. The following societies are listed:

1. Indian Society for Technical Education.
2. Association of Civil Engineering Students.
3. Society for automobile engineers.
4. Institution of Engineers.
5. Computer Society of India etc.

The further college also has:

1. FM community radio 90.8 MHz within Radius 20 km of GNDEC campus,
2. Cultural committee. For the students to show their talents in singing, dancing, mimicry, drama, etc.
3. Sports: The college has football ground, cricket ground, gym, etc. for students to participate and show their talents in various sports activities.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

ICT enabled tools like, LCD projectors, classrooms with internet facility are available since 2014. Electronic resource packages like DELNET, NPTEL, SPOKEN TUTORIAL and Digital Library are available. Open source Moodle software is installed on the college server having web address

<https://guru.gndec.ac.in/guru/>. This LCMS facility is used for quizzes, assignments, feedback survey, online attendance, question banks for different topics,

discussion forum of each course etc.

Sufficient number of books, Journals, e-journals and e-books are available in the library. From REFREAD digital library, students can access previous year's question papers, e books and e journals through this portal. College has five seminar halls, equipped with ICT tools.

College has in house developed software by the automation committee. Each student is given a login account and all-important information related with academics, fee and examination is available to the students in their dashboard. College radio is another ICT tool, where students record and air discussions and debates on important issues and career opportunities from time to time. Students are encouraged to develop the habit of self-learning through ICT by attending MOOCs through SWAYAM/NPTEL or spoken tutorials. College has formed a Single Point of Contact (SPOC) to handle all these online learning activities.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://gndec.ac.in/?q=node/534
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

173

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Academic calendar is prepared semester wise (Odd and Even semester) by

Dean Academics. It comprises of all mandatory guidelines provided by the university. It is designed in the

following manner:-

1.Start and End dates for all the courses of the current semester.

2.Start and End dates for First Mid-semester examination and Second Mid-semester examinations for

all courses.

3.Duration of Preparatory holidays for End semester examination of students.

4.End semester examination dates for all Courses.

5.Practical Examinations for all the branches will start immediately after the end of regular

examinations.

6.Vacation dates for faculty members.

In designing an Academic calendar, a minimum of 90 working days must be ensured in a semester keeping

the view of university norms. In a case falling short of 90 days, it should be compensated by making

Saturday/Holidays Working.

In addition to the above mentioned details, the duration for the following events is also provided during

Even semester:-

1.Athletic Meet

2.Cultural Fest (AnandUtsav)**3.Annual Convocation****4.Foundation Day****Institutional Training.**

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality**2.4.1 - Number of full-time teachers against sanctioned posts during the year****197**

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year**68**

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

10	
File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded
2.5 - Evaluation Process and Reforms	
2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year	
22	
File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded
2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year	
0	
File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded
2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution	
The examination procedure consists of four sections: Conduct, Question Paper and Printing, Evaluation, and Decoding and Result. In the Conduct section, the examination form is filled and submitted, a provisional date sheet is announced	

and finalized, and admit cards are issued. Duties are assigned to staff members and students are allocated to different examination centers. In the Question Paper and Printing section, study schemes are obtained, question papers are set by subject experts, printed, and distributed to invigilators. Discrepancies in question papers are addressed by a grace awarding committee. In the Evaluation section, answer sheets are collected, evaluated by examiners, and marks are uploaded. The Decoding and Result section involves decoding answer sheets, preparing the result, incorporating grace marks if applicable, and publishing the provisional result. IT integration has automated processes like examination form generation, secrecy code generation, and result compilation. Continuous internal assessment, including assignments and quizzes, is conducted to assess students' understanding throughout the semester.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

GNDEC has implemented the UGC's recommendations on Evaluation Reforms in Higher Education. The recommendations support outcome-based education in Indian institutions. Program Outcomes (POs) represent the desired knowledge, skills, and attitudes at the end of a course in an engineering program. Course Outcomes (COs) define the knowledge and skills gained from each course. Program Specific Outcomes (PSOs) emphasize the application of knowledge for societal betterment. These outcomes are communicated to stakeholders through orientation programs, syllabi, and assessment strategies. The Department Advisory Board approves POs and PSOs, which are made available on department websites and displayed prominently on campus. Teachers strive to help students achieve the expected course outcomes.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Course outcomes are assessed directly and quantitatively, linked to program outcomes (POs) and program-specific outcomes (PSOs). Various content delivery methods, such as expert talks, assignments, projects, and presentations, are utilized. The Learning Content Management System (LCMS) and national portals like NPTEL are used to provide e-content. Faculty members maintain course files, plan lectures, and the department head monitors the delivery process. Evaluation includes direct assessment tools like assignments, mid-semester and end-semester examinations focused on attaining course outcomes and POs. Indirect assessment tools include participation reports and surveys embedded in courses, graduate, alumni, and employer surveys. Program outcomes and PSOs are assessed through a multi-step process involving analysis, defining performance indicators and targets, course alignment, data collection, analysis by the Program Assessment Committee, and recommendations for improvements. The assessment process continues throughout the academic session using direct and indirect methods at the micro-level, such as tests, assignments, and practicals.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

844	
File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	https://appsc.gndec.ac.in/sites/default/files/exam%20report%2021-22.pdf
2.7 - Student Satisfaction Survey	
2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink	
https://appsc.gndec.ac.in/sites/default/files/SSS%2021-22.pdf	
RESEARCH, INNOVATIONS AND EXTENSION	
3.1 - Promotion of Research and Facilities	
3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented	
<p>In a progressively growing nation, research and development plays an important role for economic growth. GNDEC, Ludhiana has a long history of its R&D portfolio with the aim to think about global solutions that are competitive, yet possessing rural backgrounds. The institute continues to uplift the zeal of research among faculty members and students by providing provisions for seed money to contribute to new scientific knowledge and deliver new technology towards national growth. The output of our faculty's research is scripted in high impact journal publications. One patent has been granted to institute faculty and several have been published/ filed. Further to promote research the institute does the Institute has provisions for giving incentives for publishing research papers in high quality journals with good impact factor. The institute follows a well-defined research policy since 2019 and provides seed money to faculty members to carry out the research. The research policy of the institute is available on the website. In regard to the promotion of research, the</p>	

faculty members published many research articles in highly reputed journals with impact factor. The h index of Institution is 43 (Web of Science) and 53 (Scopus).

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.gndec.ac.in/sites/default/files/Research%20Policy.pdf
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

1

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

1

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

20

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

1

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

A sister concern of Guru Nanak Dev Engineering College, Gill Road, Ludhiana and promoted by the State and the Development of Science and Technology, Govt. of India, STEP-GNDEC, established in 1986, gives an opportunity to new entrepreneurs to start their ventures. It has been conducting successfully Entrepreneurship Awareness Camps (EACs) of 3 days' duration under the aegis of Department Of Science & Technology (DST) Govt. of India and Entrepreneurship Institute (EDI, Ahmedabad). A visit to the industries located in the STEP-GNDEC is also arranged to bring the students in direct touch with practicing entrepreneurs.

Further, Activities/Events conforming to "Innovation" have been strengthened in GNDEC through "TEQIP-II", now "TEQIP-III" (since March, 2019), wherein the focus is given on implementation of reforms, achievements in project activities under different sub-components, procurement of resources and services, utilization of financial allocations and achievements in faculty and staff development and management

development activities. Moreover, students are being encouraged to participate in various competent programs, through which they can utilise the model of "Learn...Unlearn...and Re-learn", thereby providing a boost to their creative skills.

Adding to this, IPR Cell has also been formed to hearten up high standards of academics and research, thereby enriching our innovations.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

4

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

61

File Description	Documents
URL to the research page on HEI website	https://www.gndec.ac.in/?q=node/32
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

0.1878

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

0.1116

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://gndec.ac.in/sites/default/files/Books_Conferences(2021-22).pdf

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

4586

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

53

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

342

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Various activities conducted as per attached data and additional files

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

0

File Description	Documents
Number of awards for extension activities in during the year	No File Uploaded
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

36

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

5434

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration**3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work**

14

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

9

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

Guru Nanak Dev Engineering College spans 67 acres and boasts a well-planned campus with beautiful trees, pathways, and flower beds. It includes a college building, hostels, a swimming pool, sports facilities, a Gurudwara Sahib, a bank, a dispensary, a post office, and an open-air theater. The campus is known for its greenery and state-of-the-art infrastructure, including LCD and overhead projectors, conference rooms, a digital library, Wi-Fi, and over 1000 computers. The college has 54 classrooms, 65 laboratories, and a well-equipped workshop. A computer center with 3000 nodes provides network connectivity, web, email, and high-speed internet access. Each group of 20 students has an academic mentor for guidance. The college has societies and clubs for student needs and continually upgrades its infrastructure. It also ensures facilities for students with disabilities. In summary, Guru Nanak Dev Engineering College

offers adequate infrastructure and physical facilities for teaching and learning, such as classrooms, labs, and computing equipment.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://gndec.ac.in/gallery/index.php?category/7

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

Guru Nanak Dev Engineering College prioritizes the holistic development of students and provides ample facilities for cultural and sports activities. The college features playgrounds, a swimming pool, and a well-equipped gymnasium for sports competitions. It has been the overall university champion for men and women since 1997. Students receive the necessary support to participate in inter-university level sports and cultural events.

The institute boasts state-of-the-art facilities for cultural activities, including a central auditorium and an open-air theater. The auditorium, with a seating capacity of 650, has been in existence for almost fifty years, while the open-air theater was constructed in 2014 and can accommodate 3000 individuals. Both venues are spacious enough to accommodate the college's student enrollment. The auditorium is fully air-conditioned and equipped with modern projection, excellent acoustics, flexible lighting, and absorbent ceilings. The open-air theater includes separate green rooms, permanent seating for students, toilets, and a wide stage. Various cultural programs are organized at both venues and renowned cultural groups are invited for the benefit of students and the community.

In summary, Guru Nanak Dev Engineering College provides adequate facilities for cultural and sports activities, supporting the overall development of students. The college's state-of-the-art auditorium and open-air theater serve as venues for diverse cultural events, contributing to a vibrant campus atmosphere.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	Nil

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

50

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

91.93

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Library of the institute is fully automated with e-Granthalaya software package which is an integrated multi-user library management system that supports all in-house operations of the Library.

Name of the ILMS software: e-granthalya Nature of automation (fully or partially): Fully Version: 3.0

Year of automation: 2009

URL: <https://library.gndec.ac.in/>

Online Public Access Catalogue facility is available at the Reference Desk on the Ground Floor of the Library. Library collection can also be accessed through Web OPAC at any terminal on the Campus Network. The reference collection of the Library is continuously updated and augmented with the

acquisition of CD-ROM databases and access to online databases on the Internet. Library is also connected with DELNET for inter-library loan and document delivery services.

e-Granthalaya has been developed by a team of experts from software as well as Library and Information Science discipline and is useful for the automation of in-house activities of libraries and to provide various online member services. The software provides built-in Web OPAC interface to publish the library catalog over Internet and is UNICODE Compliant thus, supports data entry in local languages.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://library.gndec.ac.in/

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

2522098	
File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File
4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)	
4.2.4.1 - Number of teachers and students using the library per day during the year	
199	
File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	No File Uploaded
4.3 - IT Infrastructure	
4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities	
<p>The Central Computer Centre (CCC) at the institution provides various services including LAN/WLAN implementation, software and hardware maintenance, equipment procurement and support. It offers Internet access and network services to the entire institute through leased line connections. The CCC maintains a campus-wide LAN with wired nodes and wireless access points. It has state-of-the-art computational labs, a data center, and provides round-the-clock Internet access to users. User authentication is done through a username and password-based system, with LDAP server configuration for maintenance. Cybersecurity measures such as Unified Threat Management and Firewalls are in place to ensure the security of the network. The CCC organizes online courses and also offers repair and maintenance services for electronic instruments, PCs, and peripherals. It contributes to the</p>	

implementation of an in-house ERP software system and is responsible for maintaining the institutional website and mail server. The institution has an IT policy that covers Wi-Fi, cyber security, and other aspects, and has allocated a budget for updating its IT facilities. The main aim of the CCC is to provide better support and services to promote the individual and collective growth of the users.

IT Policy

Internal Policy

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://cc.gndec.ac.in/sites/default/files/Internet%20Policy%20%28Wired%20%26%20Wi-fi%20Network%20Policy%29.pdf

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3097	694

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual

E. None of the above

**Centre Lecture Capturing System (LCS)
Mixing equipments and software for
editing**

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	No File Uploaded

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

43.36

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	No File Uploaded

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The Nankana Sahib Education Trust oversees the construction and maintenance of the institute's infrastructure, including buildings, classrooms, laboratories, and the library. Each department has its own staff responsible for maintaining the lab equipment, and a Maintenance Cell handles equipment repairs. The Central Computer Centre (CCC) is in charge of maintaining IT equipment, including computers, network devices, and software. The CCC has system analysts, programmers, and technicians to address hardware, software, and network issues. The sports facilities and grounds are maintained by full-time groundskeepers, while dedicated coaches ensure the upkeep of equipment and grounds. The institute takes initiatives to enhance the campus's physical ambience. Established systems and procedures are in place for reporting and attending to maintenance issues, with specialized contractors hired when needed. Technical staff

promptly address IT and electronic equipment problems in classrooms and laboratories. The trust and various departments work together to ensure the efficient maintenance and utilization of physical, academic, and support facilities, such as classrooms, laboratories, library, sports complex, and computers.

Maintenance Policy

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://cc.gndec.ac.in/sites/default/files/mpc.pdf

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

509

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

142

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement

B. Any 3 of the above

activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

File Description	Documents
Link to Institutional website	Nil
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

1044

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

362

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

21

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

15

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

2

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

College creates a platform for the active participation of the students in the various academic & administrative bodies including various activities such as Training and Placement, Sports etc. This empowers the students in gaining leadership qualities, rules, regulations and execution skills.

Student Council: The main aim of student council is to share student's idea, interests with the college administration. At this platform the students have the opportunity to express their views on issues concern to college and it is act as a voice of the student body as well as a bridge between the college administration and students. Various programs like paper presentations, workshops etc are organized by the body through other societies in every year.

Training and Placement Committee: The students extensively serve on the placement committee and are primarily responsible for smooth conduct of placement sessions when organizations visit GNDEC campus.

ISTE and SCIE Committee: Student committee members are responsible for organizing the student activities. They are also acting as brand ambassadors of the society and help in recruiting and grooming their juniors.

Sport Student Committee: The member students coordinate in the conduct of various sports activities in the campus and show their ability to handle such events.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

5.3.3 - Number of sports and cultural events / competitions organised by the institution

16

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alumni is always an effective role model and can be easily accepted by students. The involvement of alumni in supporting and providing contributions voluntarily to this Institution is maintaining and expanding its development. As we know, Every alumni gained versatile experience being a student to becoming a unique and different graduate, hence they have potential to contribute to the institution in different ways and scale. Society named "Genco Alumni Association", No. 232 of 1999-2000, of Guru Nanak Dev Engineering college, Ludhiana has registered under the societies Registration Act. 1860 on 06-05-1999.

Our alumni share their career experiences with our students whether in time management, financial management, development of self-discipline and character, or in career management and we found that their sayings are easily accepted by students. Through this way, they help in strengthening confidence,

improve motivation and inculcate the right culture in line with what our Institution intends to convey to our students.

Alumni especially the more senior ones that are more stable from the economy perspective reduce the financial burden of the Institution for the betterment of the students. They give greater collection of funds every year enabling the establishment of scholarships, supporting students' activities, etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

5.4.2 - Alumni's financial contribution during the year

E. <2 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

As one of the pioneer and an prestigious institute of northern India, Guru Nanak Dev Engineering College (an autonomous college under UGC Act) was established in 1956, under the aegis of Nankana Sahib Education Trust, devoted to the cause of rural education to meet the growing demand for technical and professional manpower and industries. It is one of the India's leading Institutions providing quality technical education in the field of engineering and technology, for more than 63 years. GNDEC runs seven Engineering Branches at UG level, BCA and BBA and 15 PG level courses including MBA, MCA. The college also runs GNDEC school of Architecture and has Ph.D in most of the Engineering Branches. It is a QIP Centre under AICTE for Ph.D in streams viz. Civil Engg., Mech. Engg & Electrical

Engineering. Apart from academic excellence the institute believes in the holistic development of the personality of each and every student, hence ample stress is given on Sports, cultural and other extracurricular activities. The institute has been carrying forward its long and cherished legacy and a focused aptitude of imparting quality and modern education in this dynamic world. The strategic intent of the institute are well reflected in its Vision and the Mission statements.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The culture of Participative Management and Decentralization is ingrained at all levels in the organization. Delegation of authority at all possible levels ensures the decentralization is possible. The Management in the light of its policies and plans, takes important administrative decisions by holding the meetings with the head of the institution. These decisions are implemented by the Deans, Heads and the administrative staff of the institution. The delegation of authority in the organization is followed at three levels. Top-level are responsible for controlling and overseeing the entire institution. It includes the Chairman, Governing council, and Principal. The Principal heads the academic and administrative activities of the Institute. Middle-level includes (HOD) and Deans. They help in the execution of institutional plans. Lower-level includes faculty, non-teaching staff and others. They help the middle level by coordinating the activities delegated to them. Culture of participative management is prevalent in all academic and non-academic Areas. Committee system for implementation of all its decisions is in place. Equal representation in various committees at all levels is there from Professors, Associate Professors and Assistant Professors. By introducing decentralization and participative management, GNDEC is committed to improving the procedures and functioning of the institute as well.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The strategic plan has been prepared for a time period of 5 years (2019-2024) with due consultation and inputs from the internal as well as the external stake holders. The strategic plan incorporates the broad domains of Academics, Research, Infrastructure and the plans that focus on the betterment of the employees of the institute. On the basis of the time frame these plans have been further categorized as the short term and the long term plans. Academic plans include the revision and updation of the curriculum to help the students to achieve better employability; start-ups and other avenues for higher studies. The academic curriculum has been designed in such a way that it encourages innovation and creativity among students. Another domain of prime focus has been the Industry Institute Interaction: Industry cell of the institute is functioning primarily to promote industry - institute coordinated approach to solve industrial problems mainly of MSME units of the region by involving industrial personnel, faculty, staff and students of undergraduate, post graduate and research programs of the institute from all disciplines. The infrastructure of the institute is maintained by the maintenance cell and the new infrastructural facilities are created as per the requirements. Various welfare measures/schemes for the employees are also in place.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

Functioning of any organization depends on various Institutional bodies that are constituted and all such bodies along with their responsibility levels are shown in the Organisational Organogram. GNDEC follows a top- down approach wherein at the top there is BOG. The Board of Governance is the principal executive body of the institute, instrumental in providing the direction and is responsible for controlling the affairs of the Institute. The members of this body comprise of people with vast knowledge and experience in the field of academics, research, industry and administration. The Governing Council meets on regular basis and interacts with stake holders to understand the improvement areas. Board of Governors are elected for a tenure of three years. Worthy principal follows the next hierarchical level, he is responsible for overall administration and academic functioning of the institution as per the policies and the guidelines issued by the related statutory authorities. Further the Deans, Controller of examination and Head of Departments all help in the smooth functioning and running of the organization, progressing down the hierarchical setup the ministerial staff forms the last component of the organogram. Various rules, policies, recruitment procedures, promotional policies are as per the AICTE and GNDEC norms.

File Description	Documents
Paste link to Organogram on the institution webpage	https://gndec.ac.in/sites/default/files/md7622.pdf
Upload any additional information	View File
Paste link for additional Information	Nil

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

C. Any two of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The various welfare schemes for teaching and non teaching staff include:

- 1.MOU and Tie ups with hospitals for medical facilities
- 2.Retirement benefits (Gratuity, CPF, Leave Encashment)
- 3.Leave facilities: Leave facilities to the staff are as per the stipulated norms.
- 4.In campus residential facilities:
- 5.In house Medical Aid, Medical Loan and Group Insurance.

6. **Wheat loan facility:** Wheat loan facility is available as per the stipulated norms.

7. **Maternity benefits:** Females are provided with the Maternity benefits as per the rules and regulations.

8. **Medical leave.**

9. **24-hour power back-up (100%).**

10. **Banking facility and Post office**

12. **Recreational facilities :** children park, swimming pool, Running track, Gymnasium, Grounds for football, hockey, badminton, volley ball etc

PROFESSIONAL

To enhance the professional abilities the institute provides the various types of professional schemes for the teaching and the non-teaching staff which includes:

1. Re-imburement of Ph.D. fee
2. Incentives for Research paper publishing as per R & D Policy.
3. Financial assistance up to Rs. 5000/- per year for online MOOC courses
4. Subject domain training through STTP/FDP etc.
5. Management Capacity Enhancement Training
6. Need based seed money to procure equipment for research
7. International/National Travel Grant to faculty within and outside India
8. Membership fee of Professional Societies
9. Purchase of books and other contingency items

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

00	
File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File
6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year	
02	
File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded
6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)	
159	
File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	No File Uploaded
6.4 - Financial Management and Resource Mobilization	
6.4.1 - Institution conducts internal and external financial audits regularly	
The Institute in order to access the financial position duly conducts the financial audits on regular basis for which:	

Each year Guru Nanak Dev Engg. College conducts financial audit through competent authority. Auditors Visit College at regular intervals. Each financial transaction is checked thoroughly. Right from ascertaining its sanction by competent authority, to its proper execution and implementation. Audit is conducted in accordance with the Auditing standards generally accepted in India. The audit report is open to public scrutiny.

Normally, there are no major audit objections. In most cases objections are minor in nature. In case of an audit objection, these are complied with and necessary corrective measures are taken.

Annual statements of accounts providing income and expenditure statement of academic and administrative activities of previous five years are mentioned below.

Hard copies Audited Balance Sheets for each Accounting head for past five years are available for reference.

Year wise Balance Sheet of different accounting heads are displayed on college website for public knowledge & transparency.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

2.857

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

The resource generation as well as its mobilization is carried out systematically in which Faculty is informed through Head of the Departments regarding various schemes of State / Central Govt. / or other funding agencies. Faculty is encouraged to get grants from different organizations. Because of these efforts College has got grants under TEQIP-III, DST-FIST, MODROB, ISTE, and GIAN. List of grants received by Faculty under these heads for past five is attached alongwith.

After utilization of grant audited resource utilization certificates are sent to competent authority.

College also maintains Corpus Fund to tune of Rupees 14 Crores. Under following heads

- General Corpus Fund
- Equipment Replacement Fund
- Maintenance Fund
- Faculty Development Fund

Guru Nanak DevEngg. College focuses to get funds from numerous other sources such as alumni, consultancy, and research through industry institute interaction. Mobilization of funds is also through interest earned by depositing the surplus in form of short & long term fixed deposits.

Funds utilization strategies

- Financial requirement of each department is enquired and development fund budget is allocated.

- Purchase of any equipment or asset is carried through proper procedure.
- For development of infrastructure separate committee is formed.
- Payments are released only after approval by inspection committee.

Periodic monitoring of utilization of funds is conducted.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The Internal Quality Assurance Cell (IQAC) plays a crucial role in promoting and sustaining a culture of quality enhancement in educational institutions. As a result of IQAC initiatives, two practices that have been institutionalized are:

Outcome-Based Education (OBE): IQAC initiatives have led to the adoption and implementation of Outcome-Based Education practices in the institute. OBE focuses on defining clear learning outcomes and aligning teaching, learning, and assessment methods to achieve those outcomes. It emphasizes the development of specific skills, knowledge, and competencies among students, ensuring that they are well-prepared for their future careers. OBE involves systematic curriculum planning, designing learner-centric instructional strategies, and employing effective assessment methods to measure the attainment of desired outcomes.

Documentation and Knowledge Management: The IQAC has institutionalized robust documentation and knowledge management practices. This involves maintaining a centralized repository of all IQAC-related documents, including policies, guidelines, reports, and minutes of meetings. The IQAC

ensures that the documentation is organized, accessible, and regularly updated and is available on the college's website www.gndec.ac.in. By institutionalizing documentation and knowledge management, the IQAC ensures continuity, consistency, and efficiency in its operations, even in the face of personnel changes or transitions.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

In response to the growing importance of technology in education, the IQAC facilitated an institutional review focusing on technology-enabled learning initiatives. The IQAC facilitated the implementation of various technology-enabled learning initiatives, such as:

a) **Learning Management System (LMS) Integration:** The IQAC supported the integration and utilization of a robust Learning Management System (LMS) platform (guru.gndec.ac.in) across departments. The LMS served as a central hub for course materials, assignments, assessments, and interactive discussions

b) **Online Learning Resources:** The IQAC collaborated with faculty members to develop and curate online learning resources, including interactive simulations, and multimedia presentations.

The implementation of technology-enabled learning initiatives facilitated active student engagement, anytime-anywhere access to learning materials, and personalized learning experiences.

Review of IQAC Structure and Functioning: The IQAC assesses its effectiveness and identify areas for improvement. This review involved examining the composition of the IQAC, its roles and responsibilities, and its alignment with the institution's goals and objectives. Based on the review findings, the IQAC implemented reforms such as including

representatives from diverse departments and other noted institutions for ensuring better exposure and feedback. External members include Dr. S.B. Singh (Ex-Principal, GNDEC) and prominent alumni, Er. Harpreet Khatar and Dr. Sandeep Grover from YMCA University of Science and Technology, Faridabad. It also clarified the roles and responsibilities of IQAC members, established clearer communication channels, and streamlined decision-making processes. These reforms aimed to strengthen the IQAC's governance structure, enhance its effectiveness in driving quality.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://gndec.ac.in/sites/default/files/ar2122_0.pdf
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Institution provides facilities such as:

a) There is an arrangement for 24x7 security staff at Hostels and the two Entry Gates alongwith CCTV facility. The institute has sufficiently high boundary wall around its complete perimeter to prevent trespassing.

b) Various senior officials of GNDEC including the Principal reside inside the campus for easy

approachability during any exigent situation.

c) The girls' hostel has additional fencing around each block and 24-hour security with CCTV assistance.

d) Checking of vehicles at all entry points is carried out.

e) Entry of outsiders in residential areas is strictly regulated.

f) The institute has in place an Internal Complaint committee .

Institute provides equal opportunity to all the students irrespective of their gender in all aspects. Women staff and Faculty members can avail the maternity leaves as per Punjab Government norms apart from other kind of leaves like casual leave, earned leave and medical leave as is applicable to male staff members as per norms laid by Punjab Governmentt.

Female students are also provided equal opportunity in all aspects like Sports, NCC, and NSS, Curricular, Co-curricular activities and Campus Placements.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

7.1.2 - The Institution has facilities for alternate sources of energy and energy

B. Any 3 of the above

**conservation: Solar energy Biogas
plant Wheeling to the Grid Sensor-based
energy conservation Use of LED bulbs/
power-efficient equipment**

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

E-Waste : The institute follows the policy as laid down by Punjab Pollution Control Board for disposal of e-waste and MOU with vendor exists. Also a committee approved at institute level to look after the disposal of this waste.

Solid waste management: All the Biodegradable materials such as garden waste is converted into manure in compost pits which are used as an organic fertilizer for the gardens in collegecampus and for the college Nursery. Non-biodegradable materials such as paper and plastic waste aresegregated by putting in blue coloured bins at different locations in the campus and this garbage is then picked by A2Z company appointed by Ludhiana Municipal Corporation at regular intervals.

Liquid waste management:The College has a rain water harvesting unit for rain watermanagement. A sewage treatment plant with a capacity of 500 kld is installed in the college campus.Treated water is used for gardens and grounds in the college campus. **Waste recycling system:** Biodegradable materials such as Food waste from college hostel and canteen andstaff quarters are converted into manure using vermi composting. The swimming pool waste water is also being utilised in the college grounds using sprinkler system.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

B. Any 3 of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

A. Any 4 or All of the above

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

- 1. Green audit**
- 2. Energy audit**
- 3. Environment audit**
- 4. Clean and green campus recognitions/awards**
- 5. Beyond the campus environmental promotional activities**

C. Any 2 of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

B. Any 3 of the above

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The Institute, under the able guidance of President of Nanakana Sahib Education Trust(Governing Body of Institute) who is also of President Shiromani Gurdawara Parbandhak Committee , provides a harmonious atmosphere for all students . Institute has studentadmissions from different states across the country.

Different Languages which can make the students comfortable in learning are used to teach and solve the concerns of student by Teaching and Non-Teaching Staff Members. Different religious programmes are held in the institute by the students and for the students. The students study in classrooms, stay in hostels and eat in mess harmoniously irrespective of their caste, religion or native place as Sikh religion always prey to almighty for wellbeing of all the Humans on earth.

Institute provides the students a stage to show their culture, traditions by arranging cultural Programs and celebrate their religious festivals of whatever faith they belong to.

Cultural Programs, Sports Activities like Annual Athletic Meet, technical events are held every year for the mental and physical wellbeing of the students. NSS and

NCC platform is also provided to the students for their overall developments.

Training and Placement Cell provides training to the students for developing their employment skills.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	No File Uploaded

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The institute understands and appreciates the importance of responsible citizens and strives to inculcate values in its students and employees a strong love and affection for the nation and its role models.

Students and staff including teaching and non-teaching are guided to increase their knowledge by conducting special lectures and seminars to provide the information of

constitutional obligations: values, rights, duties and responsibilities of citizens by the Institute. National days are celebrated in the Institutions like Republic Day, Independence Day, Teacher's Day, Women's Day Engineer's Day, Constitutional Day, Voter's Day for the benefits of staff and students.

Lectures are also arranged for the students and staff on current issues like relevance of human values and ethics among engineering graduates, life sketch of national idols like Dr. B. R. Ambedkar, Fundamental Rights and duties enshrined in Indian Constitution etc.

A course on "Indian Constitution" and "Human Value and Professional Ethics" have been included in the curriculum so as to awaken the students towards national values and social ethics.

Constitution Day and voter Day are celebrated.

Also the institute attempts to kindle the spirit of nationalism in its students and employees by celebrating the birth and death anniversaries of our national heroes like Shaheed Bhagat Singh. Students are explained the importance

of electoral system and motivated to participate in it.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

C. Any 2 of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The institute celebrates important national and international commemorative events and festivals.

The Republic Day is celebrated by hoisting the National Flag

in the morning at GNDEC Campus by the Principal and Guard of Honour is given by NCC Cadet of the college.

Sikh Environment Day & World Environment Day are celebrated by organizing a lecture towards the role of keeping the environment clean in well-being of society.

Independence Day celebrations are marked at GNDEC by hoisting the National Flag in the morning.

Engineer's Day is celebrated at the college by the Local Chapter of Institution of Engineers which organizes expert Lectures.

On Swachh Bharat Abhiyan the cleanliness drive in and around the campus is carried out by the students and staff of college.

Samvidhan Divas or Constitution day is celebrated in the college by arranging lectures and debates about the constitution of India on 26th November each year.

World Mental Health Week- 5th October to 10th October is also celebrated in the institute with an aim to create awareness about mental health issues, both within and outside the institute

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Practice - 1

Title: One Semester Industrial Training

Objective: To prepare industry ready students.

The Context:

As is known that the learning is enhanced many times by doing rather than by just reading, this concept of six months industrial training was mooted to help the upcoming graduates adapt to industry seamlessly.

The Practice:

Training undertaken after completion of 6/7 semesters in an industry of choice for a 6 month period.

Evidence of success:

More readily acceptance of students for employment in industry.

Problems encountered:

Lack of trust between academia and industry .

Practice - 2

Title : Objective Evaluation

Objective:

To create measurability of the level of learning attained by the students

The Context:

The outcome based learning is aimed at equipping students in higher education with higher order thinking skills.

The Practice:

Formulating clear and objective course outcomes for each course and designing a question paper format which would enable to measure the extent of learning with respect to course outcomes using revised Bloom's Taxonomy.

Evidence of Success:

Screening committees at departmental levels created to review the question papers prepared and report any shortcomings for revision before it is ready for use.

Problems Encountered:

Continuous effort are required on part both learners as well as facilitators.

File Description	Documents
Best practices in the Institutional website	https://gndec.ac.in/sites/default/files/Best_Practices_1.pdf
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Special attention is paid to developing communication skills through personalized contact of students with the faculty under the mentorship system.

In addition to that English language classes are arranged to bring the language skills at par with the urban counterparts.

To build the confidence in the students from rural background various societies and their chapters are established in the college. These societies were primarily focused on organizing various activities including debates, declamations, quizzes, paper presentation, extempore etc.

The National Service Scheme unit of the institute plans, organizes activities to address

rural problems thereby giving the student members a connect with their community and also bridging the gap between the urban and the rural.

These efforts have been able to create an overall personality development of the students and creation of an illustrious

alumnus.

File Description	Documents
Appropriate link in the institutional website	https://gndec.ac.in/?q=node/7
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

The institute in its efforts to create technocrats from rural brotherhood, shall organise visits of students from schools located in rural areas and create awareness regarding the reservation policy of the institute and developing in them an inclination to uptake Engineering education as a career option. During these visits the school students shall be delivered expert lectures apprising them of the legacy of the institute and emphasising the importance of engineering education in shaping a successful career.