



Yearly Status Report - 2019-2020

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 own campus		Yes
Phone no/Alternate Phone no.		01612502700
Mobile no.		9855400448
Registered Email		principal@gndec.ac.in
Alternate Email		ramandeep.pta@gmail.com
Address		Gill Park, Gill Road
City/Town		Ludhiana
State/UT		Punjab
Pincode		141006
2. Institutional Status		

Autonomous Status (Provide date of Conformant of Autonomous Status)	17-Aug-2012
Type of Institution	Co-education
Location	Urban
Financial Status	Self financed and grant-in-aid
Name of the IQAC co-ordinator/Director	Jagbir Singh
Phone no/Alternate Phone no.	01615064537
Mobile no.	9216408335
Registered Email	jsdhillon26@rediffmail.com
Alternate Email	jsdhillon26@gndec.ac.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://gndec.ac.in/sites/default/files/AQAR%202018-19_0.pdf
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4. Whether Academic Calendar prepared during the year

Yes

if yes, whether it is uploaded in the institutional website:
Weblink :

<https://gndec.ac.in/?q=node/23>

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.1	2015	01-May-2015	30-Apr-2020
2	A	3.01	2021	31-Aug-2021	30-Aug-2026

6. Date of Establishment of IQAC

21-Jan-2014

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Effective Classroom Communication	11-Jul-2019 2	36

3 Magical Steps to Teaching Excellence	16-Jul-2019 2	38
MOOC Awareness Workshop for Faculty	25-Jul-2019 1	51
Student Excellence and Learning Program	29-Jul-2019 6	49
MOOC Awareness Workshop for Students	20-Aug-2019 1	482
Workshop on MOODLE: Outcome Based Education	05-Dec-2019 1	190
Workshop on E-Learning	24-Jan-2020 1	58
No Files Uploaded !!!		

8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Guru Nanak Dev Engineering College	TEQIPIII	MHRD	2019 1095	70000000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

(a) Research policy finalised (b) Strategic plan for the institute implemented (c) Green audit report draft submitted (d) Increase in number of applications for grant of projects under different schemes (e) Increase in number of faculty and staff sponsored for training and upgradation

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achievements/Outcomes
The institute shall strive for better perception in terms of national ranking and accreditations	Received ISO accreditation for 3 years and also, the institute was ranked in the NIRF 2020 ranking in the bracket of 250300 under engineering colleges category
The institution shall improve its footsteps by offering new programs	Various new programs (PG PhD) in different streams were introduced
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14. Whether AQAR was placed before statutory body ?

No

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

03-Sep-2019

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

30-Jun-2020

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

We have our own MIS system (<https://www.exam.gndec.ac.in>), which is used for examination, academic as well as collection of student fee. This is a two way system, which is dealt in by college side as well as student side.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme

Programme Code

Programme Specialization

Date of Revision

No Data Entered/Not Applicable !!!

[View File](#)

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
No Data Entered/Not Applicable !!!				
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Civil Engg.	22/07/2019
BTech	Computer Science and Engg.	22/07/2019
BTech	Electronics and Communication Engg.	22/07/2019
BTech	Information Technology	22/07/2019
BTech	Mechanical Engg.	22/07/2019
BTech	Production Engg.	22/07/2019
Mtech	Structural Engg., Geotechnical Engg., Environmental Science and Engg., Mechanical Engg.	22/07/2019
PhD or DPhil	Civil Engg.	22/07/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Civil Engg., Computer Science and Engg., Electrical Engg., Electronics and Communication Engg.,	15/07/2019
BTech	Information Technology, Mechanical Engg., Production Engg.	15/07/2019

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Artificial Intelligence	20/07/2019	22
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field
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No Data Entered/Not Applicable !!!

[View File](#)**1.4 – Feedback System**

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	No

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?
(maximum 500 words)**Feedback Obtained**

The institution collects feedback on curriculum aspects and courses from different stakeholders such as students, alumni, faculty and employers. Once the feedback is collected and analyzed further action is recommended by the feedback committee. Methodology: • Feedback on curriculum is collected from students by circulating the feedback Forms. It is collected and brought to feedback committee for further analysis. Further suggestions are incorporated by departments. • Alumni Feedback is collected during alumni meetings or sent online. The filled forms are sent for further action. Feedback is collected from teachers by circulating the feedback forms. Subsequent action is similar to the other forms. • Employer Feedback is collected either in person or online for further action. • The teachers also give feedback which is collected and forwarded to the authorities for further action. • The feedback committee collects inputs and suggestions from the stakeholders and further action to be taken is discussed with departments and authorities. Action Plan after data collection and analysis: • Annual Feedback Action Taken Report is given after analysis of stakeholders' feedback. • Suggestions received in the feedback are discussed in the meetings at department level, academic council and Governing Body meetings to explore the feasibility of their implementation. • To make curriculum more effective, add-on courses are started in the institute. • Obsolete subjects are removed from the curriculum and electives are introduced to the electives and minors. • Practical skill improvement with introduction of more of laboratory subjects. • Further, introduction of subjects related to ethical codes and conducts. • The alumni appreciated the existing pattern of education, they suggested giving more stress to research activities, capacity building and skill training program. The recommendations made by the alumni are subsequently discussed and approved by the authorities. • Students suggested the need for job oriented courses, training for facing interviews during campus selection. Therefore, expert talks are arranged. • Students' feedback on curriculum is utilized while framing and revising the syllabus. • The feedbacks offered by the employers about the programs are given due significance and accordingly, the contents of the program are modified / revised. • Feedback obtained from the faculty members are properly analyzed and revised to update the syllabus.

CRITERION II – TEACHING- LEARNING AND EVALUATION**2.1 – Student Enrolment and Profile**

2.1.1 – Demand Ratio during the year

Name of the	Programme	Number of seats	Number of	Students Enrolled
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Programme	Specialization	available	Application received	
BTech	CE, CSE, EE, ECE, IT, ME, PE	855	2441	753
Mtech	ECE, EVS, GEO, IT, ME, POWER, PROD, STRUCTURE, SOIL	274	102	92
MBA	MBA	60	45	43
MCA	MCA	30	30	18

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	753	153	128	14	80

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
222	222	9	20	2	10

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The students are allotted one hour per week for mentoring class. Since, the mentor assigned to students is same throughout their graduation period, so one-to-one interaction in the beginning helps the mentor analyse their background (family, financial, academics etc.) which eventually eases the path for the mentor to track the areas where his mentee needs direction, encouragement or improvement. Mentor pre-plans the activity for entire academic session. The students are also encouraged to freely discuss various issues related to academics, extracurricular activities, hostels and their professional goals. Usually, mentors create a group at Whatsapp to share information about scholarships and events (technical, cultural, sports etc.) from time-to-time. Mentors also maintain their records of participation in various events along with their academic performance. Based on their progress, mentor provides timely feedback to students which further help them grow more confidently.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3744	222	1:17

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
222	222	0	27	59

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Deepinder Singh	Assistant Professor	Best Paper Award {Traditional Area} 2018-19
2019	Er. Shivani Arora Abrol	Assistant Professor	International Best Researcher in Renewable Energy {Research Peace Awards, 2019}

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	Civil	7	24/12/2019	09/03/2020
BE	Civil	8	01/10/2020	16/10/2020
BE	CSE	7	24/12/2019	09/03/2020
BE	CSE	8	03/10/2020	16/10/2020
BE	EE	7	24/12/2019	14/02/2020
BE	EE	8	01/10/2020	16/10/2020
BE	ECE	7	24/12/2019	09/03/2020
BE	ECE	8	01/10/2020	13/11/2020
BE	IT	7	24/12/2019	16/10/2020
BE	IT	8	01/10/2020	13/03/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
0	3744	0

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://gndec.ac.in/sites/default/files/ponc.pdf>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students	Number of students passed	Pass Percentage
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			appeared in the final year examination	in final year examination	
1	BE	CE	199	198	99.50
1	BE	CSE	170	170	100.00
1	BE	EE	107	105	98.13
1	BE	ECE	102	102	100.00
1	BE	IT	105	105	100.00
1	BE	ME	197	197	100.00
1	BE	PE	50	48	96.00
4	MCA	MCA	12	12	100.00
3	MBA	MBA	43	43	100.00
2	Mtech	ECE	4	3	75.00
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

[_https://gndec.ac.in/sites/default/files/sss1920.pdf_](https://gndec.ac.in/sites/default/files/sss1920.pdf)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

No

No file uploaded.

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
No Data Entered/Not Applicable !!!				
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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0.018

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
No Data Entered/Not Applicable !!!		
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
No Data Entered/Not Applicable !!!				
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
View File					

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Electronics and Communication Engineering	1
Civil Engineering	3
Information Technology	6
Mechanical Engineering	2

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
No Data Entered/Not Applicable !!!			
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
No Data Entered/Not Applicable !!!	
View File	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
No Data Entered/Not Applicable !!!			
View File			

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
No Data Entered/Not Applicable !!!						

[View File](#)

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
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No Data Entered/Not Applicable !!!

[View File](#)

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Presented papers	Null	Null	Null	Null

[View File](#)

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
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No Data Entered/Not Applicable !!!

[View File](#)

3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
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No Data Entered/Not Applicable !!!

[View File](#)

3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
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No Data Entered/Not Applicable !!!

[View File](#)

3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
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No Data Entered/Not Applicable !!!

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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating	Name of the activity	Number of teachers participated in such	Number of students participated in such
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agency	activites	activites
No Data Entered/Not Applicable !!!		
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3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
No Data Entered/Not Applicable !!!			
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
No Data Entered/Not Applicable !!!					
View File					

3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
No Data Entered/Not Applicable !!!			
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
281	507.38

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added

Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
View File	

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
E Granthalya	Fully	3.2	2009

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	Text Books	38739	7775858	0	0	38739
Reference Books	4050	1270500	6	10899	4056	1281399
e-Books	155	3722000	259	1899210	414	5621210
Journals	140	398958	0	0	140	398958
e-Journals	19739	3505198	0	0	19739	3505198
Digital Database	3	122060	0	0	3	122060
CD & Video	1266	0	13	0	1279	0
Library Automation	1	0	0	0	1	0
Weeding (hard & soft)	0	0	0	0	0	0
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1250	29	29	10	1	21	10	1024	0

Added	0	0	0	0	0	0	0	0	0
Total	1250	29	29	10	1	21	10	1024	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

1024 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
No Data Entered/Not Applicable !!!	

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
39	11.16	63	13.68

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

The Institute runs under the aegis of Nankana Sahib Education Trust. The construction of new infrastructure and maintenance of existing infrastructure is carried out by the trust. The trust has designated officers and sufficient supporting staff for overseeing the maintenance of buildings, class-rooms, laboratories, library, etc. The maintenance departments maintain the physical infrastructure on the campus which includes both breakdown and preventive maintenance of facilities. All maintenance activities are reported to the concerned officer by the departmental head and the same is attended to as soon as possible. Depending on the job, sometimes the specialized contractor are also hired from outside to complete the job in time. Each department has its own staffs that include mechanics and technicians to maintain the lab equipments, under the guidance of Lab In charge, who is a faculty in the department. Besides, the College also has a Maintenance Cell, which maintains and repairs the equipment etc. In case of some special expertise, outside agencies are hired time to time. Central Computer Centre (CCC) is responsible for the upkeep and maintenance of all IT related and electronic equipment including computers, network equipment and other hardware. CCC has on its role, system analysts, programmers and technicians, who are responsible for repair and maintenance of Computer Hardware, Software and wired and Wi-Fi Network related issues. There is requisite supporting staff to maintain the ICT systems in class rooms and laboratories. The technical staff ensures that projectors, network or any electronic equipment in class rooms, laboratories and other academic areas are functional and well maintained. The department, where the problem exists, calls these technical persons as and when required through computer centre officials. The Sports Section has full time Grounds men who maintain and clean the sports facilities and grounds. Dedicated Coaches are available for all major games, who also look after the upkeep of equipment and grounds. To improve the physical ambience of the campus, several initiatives are taken from time to time. Some of these are:

- There is a periodic maintenance plan for each activity such as painting, whitewashing.
- Ground-men for maintaining grounds, lawns and upkeep of plants and trees.
- Tree plantation drives are carried out every semester by NSS wing of the institute.
- Dedicated and adequate staff for general cleaning, washroom cleaning and housekeeping.
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Dustbins are placed at various places in the campus. • The physical infrastructural facilities and academic facilities are maintained periodically and on demand as well. • Lab equipment is maintained by the dedicated technicians in the labs on a periodic basis during summer / winter vacations. • Dedicated staff including masons, plumbers, carpenters, electricians is employed in College / Trust for maintenance of infrastructure. Workshop technicians also provide their services for welding, furniture repairs etc. Annual Maintenance Contracts for critical repair of equipment are there. Sometimes such repairs are carried out from outside persons.

<https://gndec.ac.in/sites/default/files/MPN.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	data available in excel file	Nil	Nil
Financial Support from Other Sources			
a) National	data available in excel file	Nil	Nil
b) International	NA	Nil	Nil

[View File](#)

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
data available in excel file	Nil	Nil	Nil

[View File](#)

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
Nil	data available in excel file	Nil	Nil	Nil	Nil

[View File](#)

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
1	1	4

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
data available in excel file	Nil	Nil	Nil	Nil	Nil
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
Nil	Nil	data available in excel file	Nil	Nil	Nil
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
No Data Entered/Not Applicable !!!	
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
data available in excel file	Nil	Nil
View File		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
Nil	data available in excel file	Nil	Nil	Nil	Nil	Nil
View File						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

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 and seminars are organized by the body through other societies in every year. The main features of the council are as follows: ? The composition of student members is of one topper, one average and one slow learner (the one who has more integrity with other students) of each section are nominated as class representatives, for all the sections from First Year to Final Year. ? The student members bring forward the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class. ? The Student Council helps students by sharing their ideas, interests, and concerns with respective teachers and principal. They also help in raising funds for wide activities including social events, community projects etc. 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. The main responsibilities handled by the students are as follows: Coordinator: He is the head of student council of Training and Placement Cell. He is responsible for delegating tasks to appropriate team members and managing deadlines and progress across the team to ensure the placements take place successfully and within appropriate time. Moderator: He acts as link between the core team and junior students. He is responsible for conveying the required information from core team to other students and vice versa. Student Advisor: He is responsible for advising the junior team on different matters. If students are facing any type of difficulty they can directly contact him. Administrator: He is responsible for handling placement drives. P.R.O: Monitoring the public and medias opinion regarding our college. Writing and editing leaflets, brochures, press releases, speeches, newsletters, websites and social media. CDPI: Include interfacing with officers and managers for efficient conduct of placements. 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. They are responsible for coordinating with experts for various programs. 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.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Since its inception in 1956, Guru Nanak Dev Engineering College has a long tradition of pursuing excellence in technical and research. The Alumni of GNDEC is spread around the Globe. They are excelling in their respective fields. In the major cities of world like Michigan, San Francisco, Toronto, Vancouver, Melbourne, the alumni groups are actively working for promoting a strong link among themselves and the college. The objectives of GNDEC alumni portal are as follows: • Establish a strong link and liaison with the GENCO ALUMNI all over the globe. • Raise various endowment funds and award stipends to the deserving students on need-cum-merit basis. • Provide seed grants for promoting research and innovation culture in the college. • Institute and disburse scholarships, fellowships, medals, awards, etc. to the meritorious students of the college. • Suggest ways and means for the participation of various Alumni Associations in the development activities in the college. • Arrange get together of the alumni and social/cultural functions from time to time. • Honor distinguished alumni, who have brought national/global acclaim in their respective domains.

5.4.2 – No. of registered Alumni:

9800

5.4.3 – Alumni contribution during the year (in Rupees) :

460000

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meetings organized every year in the month of November (most probably)
Meeting details: 09-11-2019

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The Institute practices and advocates decentralization and participative Management at all levels as: Administration, Admission, Student activities, Curriculum Development, Research, Sports etc. The institution defines the decentralization in working through delegation of authority. Personnel at different levels implement the decisions. The Management in the light of Strategic Plan its policies, takes important administrative decisions by holding the meetings with the head of the institution. These decisions are then communicated and implemented by the Deans, Heads and the administrative staff of the institution. Research programs, extension activities, examinations etc are taken care of by the Heads of the Departments. Financial and administrative powers have been defined for HODs and Deans. The delegation of authority follows a Tier approach wherein the Top-level are responsible for controlling and overseeing the entire institution. It includes the Chairman, Governing council, and Principal. The Governing Council assists the Chairman with regard to broad guidelines, policies and framework for the improvement of quality of education in the institution. The Principal heads the academic and administrative activities of the Institute. The Middle-level act as an intermediary between top-level and low-level. It includes Head of the Departments (HOD) and Deans. They help in the execution of institutional plans whereas the Last level includes faculty, non-teaching staff and others. They help the middle level by coordinating the activities delegated to them. The Institute does promote a culture of participative management in all academic and non-academic Areas. The Institute follows an approach of committee system for implementation of all its decisions. The Institute promotes equal representation in various committees at all levels from Professors, Associate Professors and Assistant Professors from various domains. By introducing decentralization and participative management, GNDEC is committed to improving the procedures and functioning of the institute as well. The Governing Bodies take steps throughout to make sure that the institute is being as efficient and effective as possible. Hence the Governing body at GNDEC inculcates three important parameters of its working ie Transparency which enables GNDEC to help the faculty, staff, students and society understand the reasons behind its actions. Accountability It is important for Governing Body to be accountable to one another in order to make sure that the institute is running smoothly and to prevent any wrongdoings.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type

Details

<p>Admission of Students</p>	<p>Admission of the students at GNDEC which runs seven Engineering Branches (Civil Engg., Mech. Engg, Elect.Engg., Electronics Comm. Engg, Computer Sc. Engg,, Information Technology, Production Engg.) at UG level and 15 PG level courses including MBA, MCA is strictly according to the stipulated norms. For admission to the Engineering Courses, 85 seats are open to the candidates from within the State and 15 to candidates from outside the State. For admissions to B.Tech., candidates should have appeared in the JEE (Main) Examination conducted by CBSE, New Delhi. In order to attract meritorious students Advertisements in leading newspapers is given, Brochure of the Institute is prepared Department Newsletters and College magazine are printed. Admission of the students to the various courses at the Under graduate and Post Graduate level is carried out as per the admission guidelines stipulated time to time.</p>
<p>Curriculum Development</p>	<p>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. The statutory bodies of the Institute, BoS and Academic Council oversee the design and development process so that the activity is carried out in a well organised manner. Academic curriculum has been designed in such a way that it encourages innovation and creativity among students and many new courses have been incorporated in consultation with industry experts</p>
<p>Teaching and Learning</p>	<p>Institute follows a student-centric teaching and learning approach which enables the students for lifelong learning and independent problem-solving. Different participatory learning methods such as participant-centered learning are adopted by the faculty members to built an interactive environment in the class. The lessons are taught through Powerpoint presentations to make learning interesting besides oral/conventional presenting methods. To improve critical thinking, creativity, and problem-</p>

solving skills among students Case Studies are provided and students are asked to prepare project reports. Students are encouraged to participate in group discussions, quiz as a mean of enhancing knowledge. Continuous evaluation and full transparency in teaching evaluation process is in place. Industrial exposure to the students is encouraged through Industrial Training consisting of 6 weeks/one semester.

Human Resource Management

Human resources being most valuable assets for any organization, at GNDEC the faculty and the staff are recruited and developed as per the guidelines issued by AICTE , Faculty/Staff requirements are obtained from all Heads of Department and reviewed by the Principal. One of the major responsibilities of a HR manager in GNDEC, is to recruit and hire employees with specific skill sets to meet the institutes current and future goals. Advertisement is given in the leading newspapers and Institute website which is followed by conducting interviews followed by the Approval from the management. Annual appraisal of all faculty/ staff is done by HOD and reviewed by the Principal. Promotions of the faculty/Staff as are as per the AICTE guidelines. Various welfare measures are taken for overall development and satisfaction of the human resources. Some of the welfare schemes include Retirement benefits, Gratuity, CPF, Leave Encashment. In house Medical Aid, Medical Loan and Group Insurance, Wheat loan facility, Maternity benefits, Medical leave, Banking Facilities, Post office facilities and recreational facilities.

Industry Interaction / Collaboration

Industry interaction and collaboration at various levels is required to give students the desired exposure to the industrial environment , this exposure is in the form of summer internships, industry defined projects, collaborations. Institute has a dedicated Industry cell 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. It is providing a common platform for sharing and working on their scientific, engineering and technologically viable, innovative, sustainable and unique acceptable solutions for day to day problems. Various MOU have been signed with the Industry for better interaction.

Examination and Evaluation

Examination branch has various sections, namely, Conduct section, Question paper and printing section, Evaluation section Decoding and result section. The college has automated following process of examination using its in house IT program. Examination form generation and submission, Secrecy code generation, Result compilation. IT integration in examination process has helped the students and college in saving time and in generating admission tickets. Continuous internal assessment system: As the semester progresses, the students are continuously assessed by subject teachers. Subject teachers regularly give assignments and conduct quizzes to students. Moreover, each student has to appear in 2 Mid Semester Tests. All these activities are helpful in assessing the understanding level of the students in the subject. At the end of the semester, Practical/Oral/Presentation/ viva is conducted and assessed jointly by internal and external examiner. The Mid semester examinations are followed by the final end semester exams. Results analysis and Deptt. Wise review is carried out to suggest Remedial coaching to improve results. To inculcate transparency in evaluation Final Answer sheets are displayed to students. Accessibility of provisional result by the students is maintained by loading the results of the student in individual login . Effective Redressal mechanism for issues related to student results is also in place.

Research and Development

The institute has a well defined Research and Development policy in place that aims 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. Further focusing on this, the institute

had forging alliance and signed MoU's with many national and international academic/research, institutes, funding organizations and industries. Faculty are encouraged to apply for projects from various funding agencies like AICTE, DST and UGC, etc. Financial aid is available both for the faculty and the Staff to encourage them to participate in Seminars, FDP, STTPs, Conferences and research papers both at the national level and the international levels. FDP's related to research and allied fields are conducted at regular intervals for keep the faculty/ staff/ students in line with the recent developments in the upcoming areas of research and development.

Library, ICT and Physical Infrastructure / Instrumentation

The institution has a well stocked library with books, e-journals for satisfying the academic and research needs of the students and faculty. State of the art infrastructure with the facility of LCD Projectors/ Overhead Projectors, conference rooms, Wi-Fi campus and free internet access to cater to the needs of the students and faculty. In total, the institute has a 54 class-rooms (45 with ICT facility), and is home to over 65 teaching and research laboratories in engineering and applied sciences, well furnished and fully airconditioned 05 seminar halls. For promotion of sports, the college has playgrounds for hockey, football, cricket, tennis courts, 400 meters track, swimming pool and well equipped gymnasium hall. For Cultural activities there is Central Auditorium and an Open Air Theater. Both are used for holding various cultural events round the year for college students. Separate hostel facilities are there for Boys and Girls. A 500 kWp Grid connected roof top solar PV plant is installed on the main building of the campus New equipment to modernise the laboratories are added in Power Systems Lab and Microcontroller and PLC lab in Electrical department and in Central Workshop. Centre of excellence for road safety in collaboration with Traffic Police, Punjab is set up in the Civil Engineering Department

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
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Student Admission and Support	E governance in student admission and Support is done through the software developed in house.
Examination	E governance in examination is done through the software developed in house ie https://exam.gndec.ac.in/ which caters to the needs of the students, faculty and staff.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
No Data Entered/Not Applicable !!!				
View File				

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	AICTE sponsored FDP on Multivariate Data Analysis	nil	11/12/2019	24/12/2019	97	Nil
2019	AICTE- IKGPTU sponsored FDP on Recent Trends in Image Processing Techniques	nil	30/12/2019	03/01/2020	64	Nil
2020	TEQIP- III sponsored One day Workshop on E-Learning	nil	24/01/2020	24/01/2020	60	Nil
2020	TEQIP- III sponsored ICT	nil	27/04/2020	01/05/2020	68	Nil

	enabled FDP on Energy Conservation and Management(Run-1)					
2020	TEQIP-III sponsored ICT enabled FDP on Energy Conservation and Management(Run-2)	nil	04/05/2020	08/05/2020	63	Nil
View File						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
No Data Entered/Not Applicable !!!				
View File				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	12	0	8

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Apart from the various welfare measures as per AICTE Norms some of the benefits given to the teaching fraternity include Retirement benefits, Gratuity, CPF, Leave Encashment. In house Medical Aid, Medical Loan and Group Insurance, Maternity benefits, Medical leave, Banking Facilities, Post office facilities and recreational facilities. R D policy.</p>	<p>As per state government norms such as Retirement benefits, Gratuity, CPF, Leave Encashment. In house Medical Aid, Medical Loan and Group Insurance, Wheat loan facility, Maternity benefits, Medical leave, Banking Facilities, Post office facilities and recreational facilities.</p>	<p>As per Govt. Norms such as Scholarships on various platforms, Sports facilities, NCC, NSS, Various cultural and Technical societies, CML</p>

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

1 Institution conducts internal and external financial audits regularly (with in 100 words each) Each year Guru Nanak Dev Engineering College conducts financial audit through competent authority. Audit is conducted in accordance with the Auditing standards generally accepted in India. Auditors Visit College at regular intervals. College accounts are categorized under various Heads. Namely Managing Committee head, General Accounts head, Development Fund, Student Related Fee head, Examination Fund, M.Tech head, Hostel and other Charges, Testing and Consultancy. Auditors conduct separate audit of each of accounting head. Each financial transaction is checked thoroughly. Right from ascertaining its sanction by competent authority, to its proper execution and implementation. Sources of Income are verified by Auditor. They cross verify the Fee collections received with the approved list of students. Fee amount receivable is reconciled with Fee amount received. Other incomes are also reconciled with receipts issued to students or consultancy. Checking or Audit of Grants received if any is also carried out. Regarding Expenses. Auditors check each payment voucher and ensure that its supporting documents are in proper order. Reconciliation of Bank accounts is carried out. Verification of Salaries payments is carried out with salary statements. Statutory due payments like CPF, TDS and ESI are checked to ensure that their payment was before the due dates. Any discrepancies are discussed with the accounts department personnel and changes are incorporated. 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. Financial statements like Balance sheet for each accounting head is prepared at end of each financial year. These financial statements are signed and approved by Auditor and management. Based on the audited financial statement, auditor issue Audit Report 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.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Details have been uploaded in the File	Nil	Nil
View File		

6.4.3 – Total corpus fund generated

54304471

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	University, NAAC and NBA	Yes	Institutes committees
Administrative	Yes	University and NAAC	Yes	Nankana Sahib Education Trust

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

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There are regular interactions between the Institute and the various stakeholders as parents and Teacher Parents contribute and give their valuable inputs and suggestions through their representation on following activities. • Regular feedback is taken from them to improve upon the overall quality of the Curriculum and the overall personality of the students. These associations are actively involved in the Technical and financial help to the students. Members from these bodies are the active members of the BOG, Academic council and the Board of Studies and provide instrumental inputs for overall quality enhancement. Parents from industrial sector provide support for enhancing industry institute interaction and much needed feedback on curriculum and suggest important improvements for value addition.

6.5.3 – Development programmes for support staff (at least three)

The supporting staff is encouraged to enhance their skills and their qualifications by arranging workshops and reimbursement of requisite fees. One such staff development program was conducted for 2 weeks which provided Training on GST and Tally from 10-18 Dec.2019

6.5.4 – Post Accreditation initiative(s) (mention at least three)

Department Elective and Open Elective courses in all UG and PG courses have been introduced. IPR Cell have been strengthened and its activities have been enhanced. Green Initiative have been taken including Waste management. Research policy has been formulated to encourage and enhance the research and development initiatives at the institute level.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!					
View File					

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
International Women' Day	08/03/2020	08/03/2020	125	25

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

1. Rain water Harvesting unit constructed for rain water management
2. Sewage treatment plant is installed for effective waste water management. This plant has a capacity of 500 kld.
3. Roof Top solar power generation units are

installed. In year 2019-20 from the total energy requirement of the institute, 10 percent has been the contribution of these solar power generation units. 4.A lush green campus is maintained by planting trees and especially a sacred Guru Nanak Jungle has been developed over a small area of about 500 square yards where 550 trees of local tree species have been grown. 5. Entry of the fossil fuel consuming vehicles to the campus is restricted inside the campus and in its place the campus facilitates walking on foot by construction of pedestrian friendly pathways.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	Nil
Scribes for examination	Yes	Nil
Physical facilities	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	02/10/2019	1	Swatcha Abhuian Diwas	awareness creation about contribution of cleanliness in general health of the society	250
2019	1	1	19/10/2019	1	Blood Donation Camp	contribution to the noble cause of blood required for transfusion at hospitals	200
2020	1	1	26/02/2020	1	Students Chapter of Institution of Engineers, GNDEC in collaboration with Tech fest, IIT	awareness about significance of mental health and ways to live a joyful life for the individual	120

					Bombay organized the workshop on "Mental Health and Suicide Prevention".	iduals.	
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Code of Conduct and Professional Ethics	29/12/2019	Code of Conduct and Professional Ethics policy document duly ratified by the Board of Governors has been formulated by the institute which lays down separately code of conduct and ethics for different stakeholders of the institution which include Principal, teachers and students as well as code of conduct towards collegies, authorities, student guardians society. The institute has in place a monitoring committee for the same purpose to ensure adherence to the prescribed code in true spirit.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Celebration of 550 year of Birth Century of Guru Nanak Dev Ji Lectures by prominent personalities organised by SGPC and conducted by Er. Sukhjit Singh	12/11/2019	12/11/2019	400
Students Chapter of Institution of Engineers, GNDEC organized an online event "FEST-O-FUN",.	23/10/2019	25/10/2019	150

The event consisted of questions related to Dusshera, Diwali Gurupurab,			
No file uploaded.			

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- | |
|---|
| 1. Restricted entry of automobiles inside the campus |
| 2. Presence of pedestrian friendly pathways |
| 3. Landscaping with trees and plants and also a specific site developed as a forest |
| 4. Sewage treatment plant installed to enhance sustainability |
| 5. Installation of roof top solar energy generation plants |

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice - 1 Title: One Semester Industrial Training Objective: To give the students the idea of actual industrial environment and to groom them to take up their due place in industry after the completion of study period. The Context: The bookish knowledge the students gather during the period of study does not give them enough confidence to start their careers in industry immediately after the graduation. Moreover the various industrial surveys have been revealing that engineering graduates lack the necessary confidence and skill set required in industrial environment. 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. Also it would help industry in getting a trained manpower rather than manpower having only bookish knowledge. The Practice: To bridge the industry academia gap, the industrial training provides the necessary impetus. The training is imparted after completion of 6/7 semesters of study by the time the student has gone through all theoretical concepts in his particular branch and is ready to experiment. The students are required to select an industry of their choice and they are supposed to undergo a six months training. It is similar to on- job training which provides the necessary exposure to physical and actual industrial world. This not only makes the students readily acceptable to the industry but does a lot more good to enhance their confidence to work in real world environment. Taking leap from laboratory scale experiments to apply the concepts learnt to real machines in industry completes the circle of education. The students are required to take up an industry based project to solve industry based problem. The training evaluation is done twice during the training with active participation of industry personnel. The final evaluation is done with an industrial expert. The major constraints are that industry and academia are both doubtful of each-others' intentions. The industry feels that in case they train a budding graduate for six months and then he decides not to take up the job with the company, then it will be at loss. The academia is apprehensive that the industry might not give required inputs. But these were overcome by establishment of institute industry interaction cell. Another constraint was giving the students a semester off for this work. Evidence of success: The students who have undertaken this training are readily accepted for employment in industry. The industry especially is more open to students who complete the real time project which is direct benefit to the industry. The placement of students has consistently been rising every year having almost doubled from the base year of 2013(243 placed) pass out batch to the current batch 2019 pass out (413 placed). Also the figures for

the students placed in companies in which they undertook the training has been rising constantly every year starting from 02 students for 2015 pass out batch to 30 students for 2019 pass out batch. Also the rising number of students getting good amount of stipends during training period is on the rise showing increased acceptability of the companies to train and prepare them for eventual induction. This is a strong indicator of increased employability of the students. This training is unique in the sense that it prepares a student to take up the role of practicing engineer with ease. Problems encountered and resources required: As stated earlier there was a problem of lack of trust between academia and industry. But this was covered with the institute industry interaction cell. In order to mould students into this training, regular industrial lectures are held to help students identify the industry of their choice. No additional resources are required as the training and placement department staff along with departmental training coordinators coordinates this activity. Notes: This practice is giving good results and may be adopted by others to raise the employability levels of the students. Best 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. These skills should be further measurable and enhance the effectiveness of learner in professional life. In implementing such a practice there is a greater need to alleviate the fears of both the faculty and the learner. The faculty as well as students has the feel that perhaps such a practice being unconventional is going to be burdensome and tough for them to follow. Also the practice requires setting of well-defined goals each course to be taught. These goals have to be synchronized with the available resources in terms of teaching and other infrastructure as well as the expectation of prospective workplaces.

As a consequence it was a challenge to address the above bottlenecks for successful implementation of the practice. The Practice: The practice was adopted in two stages. Initially in the first stage the practice was adopted for UG level courses. Later in the second stage it was extended to PG courses as well. In order to achieve the stated objectives, deliberations were made and it was finalized to follow a two pronged strategy. This strategy included formulating clear and objective course outcomes for each course on one hand and designing a question paper format which would enable to measure the extent of learning with respect to course outcomes. Accordingly for the first component clear and objective course outcomes were designed for each course in all programs. For the second component, a three-member committee was formed to recommend the question paper format (internal as well as external) at UG level according to revised Bloom's Taxonomy. The question paper for mid semester tests were so designed that they comprised of questions based on both lower order thinking skills (LOTS) and higher order thinking skills (HOTS) with a specific weightage to each component and were also in line with the laid down course objectives / outcomes. Similarly the question paper for end semester examination designed consisted of three sections / Parts which would address to the evaluation needs of both LOTS and HOTS and would also comply with the course outcomes. For each subject/course, the question paper consisted of a specific percentage of numerical content. This numerical content is helpful in estimating the analytical and evaluative capabilities of students. This practice put certain restrictions on paper setter to assign a specific weightage to each level of learning in the question paper. Also it posed a challenge for the teacher to ensure that the classroom teaching addressed to achievement of course outcomes at various learning levels. Additionally it imposed on the learner to mend their learning styles .In other words the learner had to do away with rote learning. Evidence of Success: Once the Outcome based learning was implemented it became all the more important to see whether it achieves the expected results. This required monitoring on several quarters that included dissemination of the planned practice process to all

concerned, and later, once adopted it required to review if the question papers being prepared were incorporating the designed format in true spirit. Further screening committees at departmental levels have been made to review the process of question paper preparation and report any shortcomings for revision suitably. These committees scrutinize each question paper prepared by the faculty before it is administered to the students. If there are any shortcomings, these are reported and corrective action taken before the question paper is ready for use. Since the adoption of the practice the results have been very encouraging towards this end and progressive improvement is being observed in the quality of the question papers being set. Problems Encountered And Resources Required: Outcome based learning practice requires a total change in attitude of the learner as well as the teacher. It lays emphasis on the learning outcomes which are predefined in terms of goals. There is required a continuous effort on both learners as well as facilitators to plan the course in such a way that the outcomes are achieved. Also it requires continuous monitoring to ensure that efforts are in the right direction. In order to ensure these points teaching faculty which is a rich resource with the institute were utilized to monitor the implementation and progress of the adopted practice. In line with this committees were formed to scrutinize the mid semester examinations question papers (which are conducted twice in a semester) and rectify any anomalies observed before these papers are given to students when they appear for the examinations.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://gndec.ac.in/sites/default/files/Best%20Practices_1.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Upliftment of Rural Masses through Technical Education India is a predominantly rural economy with 70 percent of the population living in the villages and not having enough awareness and opportunities as regards to professional education. Keeping this in view GNDEC which was established in 1956 envisaged a need to uplift the brilliant students from rural background to become technocrats. In the process it was decided to reserve 70 percent of the total seats in engineering programmes for students with rural background. This was a unique initiative with no parallel in pan India search. These rural students had some basic issues as regards to communication skills, understanding of English language and also a fear of the city people. The college atmosphere was so created so as to enable the rural folk to come to the level of their city counterparts in terms of their professional expertise. Special attention was paid to developing communication skills through personalized contact of students with the faculty under the mentorship system. In this mentorship system a student was assigned a faculty mentor right at the time of admission to the institute who would be monitoring his/her performance over the total tenure of his/her degree till its completion. In addition to that English language classes were arranged to bring the language skills at par with the urban counterparts. This proficiency was achieved through continuous practice sessions in the English laboratory, delivery of seminars as a part of the curriculum. To build the confidence in the students from rural background various societies and their chapters were established in the college as the likes of Students' Chapter Institution of Engineers(India), Indian Society for Technical Education, Society for Automotive Engineers etc. These societies were primarily focused on organizing various activities including debates, declamations, quizzes, paper presentation, extempore etc. The events under these societies were supposed to be organized by the students under the

guidance of faculty advisor. These societies necessitated the appointment of student office bearers who were supposed to be elected by the member students. These selected office bearers were supposed to plan and execute the holding of various events under the banner of respective societies. In addition to these activities being organized on monthly weekly basis within the college, the member students were encouraged to participate in such activities being organized at other institutes/universities. To promote this culture special marks were dedicated under general fitness category which is a due component of the curriculum. This exercise not only removed the fear of stage but also instilled necessary public speaking skills thereby making the students graduating from the college highly acceptable to the market and society as a whole. All these unique efforts stated above have been able to create an overall personality development of the students in addition to their academic learning. This has resulted in creation of successful role models for the institute in terms of extraordinary career profiles of the alumnus of this institute. Many of the students could be located on the world wide map

Provide the weblink of the institution

<https://gndec.ac.in/?q=node/7>

8.Future Plans of Actions for Next Academic Year

The future plans for next academic year includes: 1) To improve online services (teaching and evaluation) for the students so that they do not loose out on stipulated outcomes. 2) To improve perception of the institution among masses so that we can achieve better ranking on the national forum (NIRF 2021). 3) To prepare our self for applying for NAAC accreditation in Cycle-2 4) To improve research outcomes of the institution in terms of more and better publications.