

ANNUAL QUALITY ASSURANCE REPORT

2015-2016

National Assessment and Accreditation Council

Bangalore-560 072

Submitted by



Guru Nanak Dev Engineering College

Ludhiana

INDEX

DESCRIPTION	PAGE NOS.
Part-A	3-8
Part-B	
Criterion-I	9
Criterion- II	10-12
Criterion - III	13-16
Criterion -IV	17-18
Criterion -V	19-21
Criterion -VI	22-26
Criterion -VII	27-30
Abbreviations (Annexure-I)	31
Annexure-A	32

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC.

Part – A

I. Details of the Institution

1.1 Name of the Institution

Guru Nanak Dev Engineering College

1.2 Address Line 1

Gill Park

Address Line 2

Gill Road

City/Town

Ludhiana

State

Punjab

Pin Code

141006

Institution e-mail address

director@gndec.ac.in

Contact Nos.

9855400448

Name of the Head of the Institution:

Dr.Manohar Singh Saini

Tel. No. with STD Code:

0161-2502700

Mobile:

99144-25025

Name of the IQAC Co-ordinator:

Dr. Harwinder Singh

Mobile:

9815188044

IQAC e-mail address:

harwin75@gndec.ac.in

1.3 NAAC Track ID (For ex. MHCOGN 18879)

PBCOGN19927

1.4 NAAC Executive Committee No. & Date:

EC(SC)/06/A&A/102

1.5 Website address:

www.gndec.ac.in

Web-link of the AQAR:

www.gndec.ac.in/AQAR2015-16.doc

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.10	2015	April 30,2020

1.7 Date of Establishment of IQAC:

31/12/2015

1.8 AQAR for the year

2015-16

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

NOT APPLICABLE

1.10 Institutional Status

University State Central Deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

Computer Applications

1.12 Name of the Affiliating University (for the Colleges)

IKG Punjab Technical University,
Jalandhar

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University	UGC		
University with Potential for Excellence	NA	UGC-CPE	NA
DST Star Scheme	NA	UGC-CE	NA
UGC-Special Assistance Programme	NA	DST-FIST	YES
UGC-Innovative PG programmes	NA	Any other (<i>Specify</i>)	TEQIP II by MHRD, N.Delhi
UGC-COP Programmes	NA		

2. IQAC Composition and Activities

2.1 No. of Teachers	7
2.2 No. of Administrative/Technical staff	1
2.3 No. of students	0
2.4 No. of Management representatives	1
2.5 No. of Alumni	2
2.6 No. of any other stakeholder and Community representatives	2
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of members	15
2.10 No. of IQAC meetings held	1

2.11 No. of meetings with various stakeholders: No.1 Faculty Non-Teaching Staff Students Alumni Others

2.12 Has IQAC received any funding from UGC during the year? Yes No
 If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

- Evaluation of teaching staff through student feedback.
- Improvement of infrastructure
- Encouraged various departments for organising seminar/ workshop/ training programs etc.
- Enhancing the knowledge of faculty and students with Guest lectures by inviting eminent academicians

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
To upgrade modern methods of teaching and learning	<ul style="list-style-type: none"> • LCD Projectors are being used in classes for explaining the students the aspects practical. • Demonstration of computer practical's has been done through LCD projector. • To sustain and improve the overall performance of the institute on National and International level. • Adopted best possible practices at the institute for teaching and research. • Improved communication skills through Finishing Schools • Students opted for entrepreneurship after getting training from Science and Technology Entrepreneurship's Park, GNDEC, Ludhiana • Faculty vacant posts were filled. • 11 Faculty promoted under CAS Scheme. • Increased sponsored research and consulting projects.

	<ul style="list-style-type: none"> • 100 Faculty members published quality research papers in referred journals. • Encouraged students to undergo overseas exchange programme. Few students attended a semester training in abroad • 15 Short courses and workshops/ seminars/ conferences by various departments were organised. • The infrastructural facilities in the various departments of the institute and ensure optimum utilization of them.
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* Attach the Academic Calendar of the year as Annexure. Refer Annexure-A

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

AQAR (till date) was placed and approved vide MC Resolution No. S 147.1 dated 28.3.2016.

Part – B

Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	03	0	0	0
PG	13	0	0	0
UG	07	0	0	0
Others	02	0	0	0
Total	25	0	0	0
Interdisciplinary	0	0	0	0
Innovative	0	0	0	0

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
 (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	UG-7, PG(FT)-10,PG(PT)-5
Trimester	NIL
Annual	NIL

1.3 Feedback from stakeholders* Alumni Parents Employers Students
 (*On all aspects*)

Mode of feedback : Online Manual Co-operating schools (for PEI)

**Please provide an analysis of the feedback in the Annexure*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Yes, Industrial Training, Departmental Elective, Open Elective, Project Work Major and Minor, Core Subjects, Communication, Human Values Professional Ethics (HVPE).

1.5 Any new Department/Centre introduced during the year. If yes, give details.

NOT APPLICABLE

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent/regular faculty

Total	Asst. Professors	Associate Professors	Professors	Others
217	176	18	23	0

2.2 No. of permanent/regular faculty with Ph.D.

40

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		*Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
32	15	-	-	-	-	-	-	32	15

***During the period in question, 9 Associate Professors have been promoted as Professors and two Assistant Professors as Associate Professors under CAS.**

2.4 No. of Guest and Visiting faculty and Temporary faculty

0

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	32	13	5
Presented papers	32	13	5
Resource Persons	-	34	16

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Additions of multiple choice questions in question papers
- Special arrangement of classes on Aptitude and Soft skills
- Students Feedback system, Alumni Feedback, Employer feedback, Graduate Feedback have been made online.

2.7 Total No. of actual teaching days

during this academic year

90

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Double Valuation as well as online multiple choice system, Bar coding

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

48

2.10 Average percentage of attendance of students

85%

2.11 Course/Programme wise Distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.Tech. Elect. Engg.	112	22.3	41	1	-	64.2
B.Tech. CSE	192	39.06	46.35	-	-	85.42
B.Tech. Mech.Engg.	227	32	48	-	-	80
B.Tech. Civil Engg.	228	24.0	48.0	0.5	-	72.00
B.Tech. Production Engg.	57	29.82	50.88	-	-	80.70
B.Tech. IT	113	31.85	50.44	-	-	82.30
B.Tech. ECE	114	40.35	45.61	-	-	85.96
MBA	52	13.46	59.61	7.69	-	80.77
MCA	68	82.35	14.70	-	-	97.05

The figures depicted above are for the academic year 2015-16 (Pass-out in May 2016) only

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Monitors and evaluates the Teaching and learning processes by way of conducting the periodical meetings.
- Review of Evaluation system: HODs present performance before Head of Institution about their respective department
- COE give presentation with contents about the conduct, evaluation and result.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	18
UGC – Faculty Improvement Programme	-
HRD programmes	01
Orientation programmes	01
Faculty exchange programme	-
Staff training conducted by the university	12
Staff training conducted by other institutions	14
Summer / Winter schools, Workshops, etc.	115
Others	27

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	103	-	-	97
Technical Staff	26	-	-	15

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- Each department has a Departmental research committee, which convene periodical meetings to review synopsis presented by Masters' students.
- Encouraging the faculty to pursue higher education. For which they are reimbursed Tuition fee etc.
- Encouraging faculty to publish quality research papers in referred Journals and conferences etc.
- Categorization of the projects undertaken by the final year students into three categories: Industry based, Research based and Automation based.
- QEEE (Quality Enhancement in Engineering Education) Lectures delivered in the institute.
- ICT based research oriented course on "Open Source Technology" in collaboration with NITTR, Chandigarh.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	2	8	6	3
Outlay in Rs. Lakhs	50.34	263.06	220.86	130.00

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	2	3	3
Outlay in Rs. Lakhs	0.6	0.55	16	1.5

3.4 Details on research publications

	International	National	Others
Peer Review Journals	108	18	-
Non-Peer Review Journals	1	-	-
e-Journals	8	-	-
Conference proceedings	57	12	0

3.5 Details on Impact factor of publications:

EE Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (Rs. in Lakhs)	Received (Rs. in Lakhs)
Major projects	3/2	UGC,DST,AICTE,CSIR,BRNS	229.06	178.84
Minor Projects	1.5/06	IEI,SGPC	16.60	16.60
Interdisciplinary Projects	0	0	0	0
Industry sponsored	0	0	0	0
Projects sponsored by the University/ College	06	MHRD, IIT Powai & Nex Robotics	Sanctioned grant yet to be received	0
Students research projects <i>(other than compulsory by the University)</i>	06	IE(I),Kolkatta	3.00	3.00
Any other(Specify)	2	0	22.50	22.50
Total	-	-	271.16	220.94

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme
INSPIRE CE Any Other (specify)

TEQIP II funding by MHRD, New Delhi

3.10 Revenue generated through consultancy

Level	International	National	State	University	College
Number	1	1	0	0	0
Sponsoring agencies	0	DST, TEQIP, IGI	0	0	0

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From Funding agency From Management of University/College
 Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	4
	Granted	0
International	Applied	0
	Granted	0
Commercialised	Applied	0
	Granted	0

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
8	1	3	4	0	0	0

3.18 No. of faculty from the Institution who are Ph.D.Guides and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level
 National level International level

3.22 No. of students participated in NCC events:

University level State level
 National level International level

3.23 No. of Awards won in NSS:

University level State level
 National level International level

3.24 No. of Awards won in NCC:

University level State level
 National level International level

3.25 No. of Extension activities organized

University forum	6	College forum	15		
NCC	10	NSS	5	Any other	35

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

❖	Organising Medical Check-up camps and Blood Donation Campus
❖	Clean and Green Program in the campus
❖	Organised Experts lectures on health issues
❖	Organised religious program in College Gurudwara Sahib
❖	NCC Day in November 2015 was celebrated
❖	Combined Annual Training Camp for NCC Cadets of State of ten days from 13 th June to 22 nd June, 2016

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	67 Acres	0	Internal Resources	67 Acres
Class rooms	61	4	Do	65
Laboratories	62	2	Do	64
Seminar Halls	5	1	Do	6
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	20	18	AICTE,DST,	38
Value of the equipment purchased during the year (Rs. in Lakhs)	-	20	-	20
Others	-	Open Air Theatre with capacity of 5000	Internal Resources	1
	4	New Hostel 7 Storey (Boys)	AICTE grants	1
	-	FM Radio Station for Community Development	Internal Resources	1

4.2 Computerization of administration and library

- All the computers in the office have internet facility
- Automation of library administration is under the process
- The students and faculty can also take photocopies of the books and journals from Central Library.
- The Library is Wi-Fi.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	38639	7727800	100	48058	38739	7775858
Books	47767	14330100	567	2722160	48334	17052260
Reference Books	4025	1207500	12	3500	4037	1211000
e-Books	518	523398	NIL	NIL	518	523398
Journals	140	368000	135	353593	135	353593
e-Journals	19987	2157358	NIL	NIL	19987	3228521
Digital Database	3	3092500	Yearly Subscription	3311500	3	6404000
CD & Video	1210	NIL	12	NIL	1222	NIL
Others (specify)	NIL	NIL	NIL	NIL	NIL	NIL

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1150	29	50 Mbps	Every where in the campus	1	Yes	Yes	Hostels
Added	50	2	950 Mbps	Do	1	Upgrading	Upgrading	Upgrading
Total	1200	31	1 Gbps	Everywhere	1	Upgradation in process	Upgradation in process	Upgradation in process

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Internet Connectivity increased to 1 Gbps.
- Students are encouraged to use internet for their project work.
- We have ERP Software in the Institution for e-Governance of students, faculty and staff.

4.6 Amount spent on maintenance in lakhs :

i) ICT	2.50
ii) Campus Infrastructure and facilities	50.00
iii) Equipments	3.00
iv) Others	16.54
Total :	72.04

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

<p>Canteen Clean Hygienic cafeteria 4 nos. is available for both students and faculty providing nutritious food for supporting studying in shift system</p> <p>Stationery Shop One Stationery Shop is available in campus. The basic requirements like stationeries, mobile chargers, books are kept for sales in college premises.</p> <p>Others</p> <ul style="list-style-type: none"> ➤ Printed information available in college calendar/college website ➤ Information also communicated to students regularly through HOD/Advisors ➤ Providing necessary information to hostellers through Hand book. ➤ Publishing College magazine every year to highlight students' skills in the area of short stories, writing, poetry, columns on important current events etc.
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5.2 Efforts made by the institution for tracking the progression

<ul style="list-style-type: none"> ➤ In all the departments, advisory classes are held periodically to keep close touch in between students and Advisors, in which students can share their views, problems with their Advisor. Advisors can take steps to redress their grievances. Weak students are identified in advisory and special classes are arranged to help them academically. ➤ Regular check of attendance and academic excellence. ➤ The institution has ERP Software for e-governance ➤ Suggestions and feedback are the index to understand the progression of students.
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5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3836	329	1	112*

*Pursuing their Ph.D with Supervisors of GNDEC

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged (Others)	Total
685	82	-	21	27	815	692	68	-	23	23	806

Men	No	%
	3225	77.43

Men	No	%
	940	22.56

(b) No. of students outside the state 471

(c) No. of international students

Men	No	%
	0	0

Women	No	%
	0	0

Demand ratio 100%

Dropout 6.42%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

Special classes/Expert lectures are arranged from time to time in which experts on different topics are invited from renowned institutions, organisations, companies to enhance the communication skill, general knowledge, how to crack competitive examinations for students, enabling them to meet the requirement of their curricula/competitive examinations.

No. of students beneficiaries 125

5.5 No. of students qualified in these examinations

NET	0	SET/SLET	0	GATE	95	CAT	8
IAS/IPS etc	0	State PSC	0	UPSC	0	Others	30

5.6 Details of student counselling and career guidance

➤ Student counselling and career guidance of each and every student is done.

No. of students benefitted

3836

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
21	700	471	103

5.8 Details of gender sensitization programmes

Guest lecture are arranged with high profiled women from various professions and walk of life on issues faced by women at home, institutions of higher learning and workplaces.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	56	33,60,000
Financial support from government	713	3,51,57,730
Financial support from other sources	2	13200
Number of students who received International/ National recognitions	2	Tuition Fee refunded for one semester

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: _____NIL_____

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

<p>Vision</p> <p>Realisation of glimpses of a Golden India in the real (rural) India which lives and abounds in its villages. GNDEC will excel nationally and distinguish itself as a recognised pre-eminent leader to serve this 70% brotherhood through its socio-economic upliftment by exposure of the have-nots to Engineering and Technology thereby grooming them as technically competent and intellectually vital graduates through practically focused quality learning experiences, and thus assuring productive careers for them.</p>
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<p>Mission</p> <ul style="list-style-type: none">▪ Upliftment of Rural Students through technical education▪ Respond to local societal needs by developing selected "targeted research projects"▪ Quality training programs in need based modern technology▪ To maintain state-of-the-art infrastructure in laboratories▪ To promote culture of self-employment▪ To impart non-formal education to unemployed youth▪ To inculcate moral, ethical, spiritual values in education at all levels
--

6.2 Does the Institution has a management Information System

YES

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

For Curriculum Development, each department has its Board of Studies, which comprises of industrialists, subject experts, and faculty.
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6.3.2 Teaching and Learning

- Modern teaching methods like LCD projectors and PPT methods have been implemented.
- Students are exposed to submit their assignments, projectors etc.
- Students are encouraged to participate in group discussions as a mean of enhancing knowledge.
- Learning is encouraged by organising quiz etc.
- Full transparency in teaching evaluation process.
- Industrial Training consisting of 6 weeks and one semester is part of curricula

6.3.3 Examination and Evaluation

- Continuous internal assessment system. Three sessional examinations are conducted in a semester. Then End Semester takes place.
- Review of Results Deptt. wise to suggest Remedial coaching to improve results.
- Periodical review of examination system
- Display of Final Answer sheets to students
- Uploading of provisional result in individual login of students as well as Redressal mechanism for students results

6.3.4 Research and Development

- Efforts are made to create research environment to engage faculty in research and mobilization of research grants.
- Ph.D programme being offered under QIP in Civil, Electrical and Mechanical Branches.
- Faculty is free to apply for projects from various funding agencies like AICTE, DST and UGC etc.
- Staff is encouraged to participate in Seminar, FDP, STTP, Workshops to update their knowledge with latest developments.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- To convey to information to concerned, various means like internet, Wi-Fi, display board are used.
- Automation of library is under process.
- New books are added every year.
- Administrative procedure is computerised.

6.3.6 Human Resource Management

- Staff and students are facilitated to organise and participate in social and academic activities of college
- Five faculty members interacted with outside the country for research training and encouraging international students to come in India for their higher studies

6.3.7 Faculty and Staff recruitment

- The appointments of faculty and staff is strictly as per AICTE/State Govt. norms regarding qualifications and experience.
- Various positions are filled time to time.
- Necessary supporting staff is recruited as per need.

6.3.8 Industry Interaction / Collaboration

7

6.3.9 Admission of Students

The admissions are made centralised by IKG Punjab Technical University on the merit basis of JEE.

6.4 Welfare schemes for

Teaching	As per AICTE norms
Non teaching	As per State Govt. norms
Students	As per Govt. Norms

6.5 Total corpus fund generated

7.5 Crores

6.6 Whether annual financial audit has been done

Yes

No

6.7 Whether Academic and Administrative Audit (AAA) have been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	University, NAAC,NBA	Yes	Institute's Committee
Administrative	Yes	University, NAAC	Yes	Nankana Sahib Education Trust

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes Yes No

For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

- Bar coding is in place.
- Evaluation of system is done periodical.
- Provisional result is conveyed to students through their respective login ID.
- Display of answer sheets
- Remedial mechanism available for redressal student's grievance related to their end semester examination answer sheets.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

The University is encouraging its affiliating College to get autonomy from UGC for effective working in limited scope as compare to large peripheral.

6.11 Activities and support from the Alumni Association

- Alumni Association meet is organised every year in addition to celebration of Golden and Silver Jubilees (Batch wise)
- It is extending technical help to students.
- Members of BOG of College, Academic Council, Board of Studies
- Financial aid for R&D, Scholarships etc

6.12 Activities and support from the Parent – Teacher Association

- The parents are extending financial cooperation in research etc. Last year a new Research award with title B.S.Pabla Award has been introduced by the Alumni to encourage UG/PG/Ph.D researchers.
- Extend full cooperation in conduct of training, expert lectures, placement, social awareness etc.
- Sponsored books for Central Library

6.13 Development programmes for support staff

Supporting staff are encouraged to go for training takes place at various places for updation.

6.14 Initiatives taken by the institution to make the campus eco-friendly

- ❖ Tree Plantation, E-waste as per Govt. policy, discourage of polythene bags
- ❖ Solar system is in place
- ❖ Water Harvesting is in process.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Day of National and International importance are celebrated
- CCTV cameras have been installed within and around the campus for security purposes
- Educational tours
- Examination Reforms

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Based upon the plan, following are the achievements:-

- ❖ Major /Minor projects to the tune of Rs. 2.5 Crores have been received.
- ❖ Faculty published 205 quality research papers in National/International Journals and Conferences
- ❖ Faculty generated consultancy worth Rs. 1.5 Crore
- ❖ Equipments worth Rs. 72.04 Lakh were purchased
- ❖ About 80 students secured various awards and recognitions
- ❖ Various activities 10 in numbers like STTP, Workshops, Conferences, Seminars were organised at Institutional level.
- ❖ Financial support worth Rs. 3.5 Crores was received from various funding agencies in the form of scholarships.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

- Two way visibility of attendance.
- Inclusion of student in evaluation

7.4 Contribution to environmental awareness / protection

- ❖ Environmental Awareness Programme are organised for students as well as faculty from time to time.
- ❖ Separate cell i.e. Ground & Gardening exists for protection of environment and keep the trees alive and green and to feed them with manure.
- ❖ E-waste is followed as per Govt. policy.
- ❖ Solar system is in place in the form of street lights etc.
- ❖ Dustbins have been kept at all prominent places to keep environment eco-friendly.
- ❖ Water harvesting system is in process.
- ❖ No vehicles is allowed to enter in academic area.

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Strength

- Locational advantage since located in industrial hub of Punjab.
- **70% seats are reserved for underprivileged (Rural) section of the society**
- **All seven UG courses accredited through NBA under TIER-1 Washington Accord. The institution is NAAC 'A' grade and TCS accredited.**
- **Conferment of autonomous status from UGC.**
- Only Govt. Aided College of Punjab running 15 PG programmes in engineering.
- MoU signed with international Universities by different departments.
- **Only government aided engineering college** of Punjab running successfully part time post graduate courses for field engineers/working teachers since 1980
- Apart from central library every department has its own departmental library
- Apart from central computer centre every department has a separate computational lab
- EDUSAT facility
- All faculty members are provided with Laptop, computer, internet connectivity at individual office.
- Grants received from AICTE /DST and other agencies against research project/Seminar/travel
- Internet connectivity at faculty residences and hostels also
- An independent Testing and Consultancy cell with an annual turnover of around one crore
- Availability of power back up and Wi-Fi facility to the whole college including hostel
- Among first six institutes of the country where STEP was started and among few institutions in the country where self sustaining STEP is running successfully
- Excellent sports facility & excellent performance in Sport activities under PTU.
- Registered Alumni Association with many branches existing around the globe and an alumni home in the campus
- Surveys conducted by different National magazines like Outlook, CSR, India Today etc. repeatedly placed the college among top ranking engineering colleges in India

Weakness

- Input of low merit students at the entry level due to mission of the college (70% seats reserved for rural students)
- Needs Refurbishment of washrooms and replacement of Electrical fittings and appliances
- Limited specific Laboratories for PG Programme
- Needs Separate Faculty Cadre for PG Courses
- PG courses not accredited
- Needs New titles in print as well as digital form in departmental and central library
- Lack of Industry- Institute interaction in a purposeful manner.
- Inadequate mechanism of industrial exposure for faculty and staff which can update the latest technical knowledge and skill being used by the industry

Opportunities

- Opportunities for integrated courses due to demand and Locational advantage of the campus
- Ludhiana being the industrial hub for medium and small scale industry, opportunities for starting short term and long term Industry specific courses for industrial personnel
- Opportunities of developing need based appropriate technologies for specific small and medium scale industry of the region
- Opportunities for collaboration with foreign universities for dual degree in upcoming technologies to meet the global challenges
- Opportunities of establishing new centre of excellence with collaboration of established foreign universities and research lab/National Institution & National Research Lab.
- By encouraging in-house research and collaborating with leading national institutes/Research lab it is possible to enhance publication and patent in each department.

Threat

- Escalation of cost of education prohibiting the underprivileged section (rural students) of the society to opt for the technical education
- Merit of incoming students is getting affected due to opening of many new engineering colleges in the region.
- Bright students not opting teaching as profession thus making difficult in replacing the retired teacher with an equally intelligent new entrant, thus declining the supply of quality faculty

8. Plans of institution for next year

- To encourage faculty to present papers in National and International Journals/Conferences.
- To encourage faculty to apply for new projects.
- To encourage students to participate in sports, cultural and co-curricular activities, which is essential for their overall personality.
- Industrial tours have been made compulsory for each students from current academic year.
- Improve transition rate of students

Name Dr.Harwinder Singh

Name Dr.Manohar Singh Saini

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

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Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

ANNEXURE-A (ACADEMIC CALENDARS)

<u>Even Semester</u>		
<u>Sr.No.</u>	<u>Description</u>	<u>Period</u>
1	Session	4 th January, 2016 to 27 th April, 2016
2	First Mid Semester Examination	8 th February, 2016 to 12 th February, 2016
3	Second Mid Semester Examination	17 th March, 2016 to 22 nd March, 2016
4	Third Mid Semester Examination	25 th April, 2016 to 27 th April, 2016
5	Preparatory Holidays	28 th April, 2016 to 2 nd May, 2016
6	End Semester Examination (Regular)	3 rd May, 2016 to 20 th May, 2016
7	*End Semester Practical Examination	21 st May, 2016 to 25 th May, 2016
8	Institutional Training/Workshop Training	26 th May, 2016 to 12 th July, 2016
9	Vacations for Faculty	

Note :

1. * Practical examinations for all the branches will start immediately after the end of regular examinations.
2. Number of days falling short of 90 should be compensated by making Saturday/holidays working.

<u>Odd Semester</u>		
<u>Sr.No.</u>	<u>Description</u>	<u>Period</u>
1	Session	18 th July, 2016 to 25 th November, 2016
2	First Mid Semester Examination	05 th September, 2016 to 09 th September, 2016
3	Second Mid Semester Examination	18 th October, 2016 to 24 th October, 2016
4	Third Mid Semester Examination	23 rd November, 2016 to 25 th November, 2016
5	Preparatory Holidays	26 th November, 2016 to 28 th November, 2016
6	End Semester Examination	29 th November, 2016 to 17 th December, 2016
7	*End Semester Practical Examination	19 th December, 2016 to 23 rd December, 2016
8	Winter Vacations	24 th December, 2016 to 31 st December, 2016

Total Working days (including leave/Saturday & Sunday)	= 130 days
Actual Working days (including test)	= 086 days
Actual Teaching days	= 073 days

Note:

Number of days falling short of 90 should be compensated by making Saturday/holidays working.