

Annual Quality Assurance Report

(1st July 2017 - 30th June 2018)



**Amritsar College of Engineering and Technology
(Autonomous College)**

**The Annual Quality Assurance Report (AQAR) of the IQAC
(July 2017 - June 2018)**

Part – A

1. Details of the Institution

1.1 Name of the Institution

Amritsar College of Engineering and Technology

1.2 Address Line 1

12 Km Stone, NH-3, Grand Trunk Road, Meharbanpur, Punjab
143109

City/Town

Amritsar

State

Punjab

Pin Code

143109

Institution e-mail address

principal@acetedu.in

Contact Nos.

0183-5069536

Name of the Head of the Institution:

Dr.Vijay Kumar Banga

Tel. No. with STD Code:

O: 0183-5069534
R: 0183-50695431

Mobile:

8196952000
9417800072

Name of the IQAC Co-ordinator: Er.P.S.Sidhu

Mobile: 9915599663

IQAC e-mail address: deanacademics@acetedu.in

1.3 NAAC Track ID (For ex. MHCOGN 18879) PBCOGN26115

1.4 NAAC Executive Committee No. & Date: EC/59/A&A/11
(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)

1.5 Website address: www.agcamritsar.in

Web-link of the AQAR: www.agcamritsar.in/aqar.pdf

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B	2.91	2012	2017
2	2 nd Cycle	A	3.05	2016	2021

1.7 Date of Establishment of IQAC : DD/MM/YYYY 08/06/2012

1.8 AQAR for the year (for example 2010-11) 2017-2018

1.9 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

1.10 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.11 Name of the Affiliating University (*for the Colleges*)

I.K.G Punjab Technical University

1.12 Special status conferred by Central/ State Government-- UGC

Autonomy by State/Central Govt. / University

Central Govt in UGC

University with Potential for Excellence	<input type="text" value="--"/>	UGC-CPE	<input type="text" value="--"/>
DST Star Scheme	<input type="text" value="----"/>	UGC-CE	<input type="text" value="----"/>
UGC-Special Assistance Programme	<input type="text" value="-----"/>	DST-FIST	<input type="text" value="YES*"/>
UGC-Innovative PG programmes	<input type="text" value="-----"/>	Any other (<i>Specify</i>)	<input type="text" value="----"/>
UGC-COP Programmes	<input type="text" value="----"/>		

*DST FIST Amount=80Lacs

2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="7"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="5"/>
2.3 No. of students	<input type="text" value="2"/>
2.4 No. of Management representatives	<input type="text" value="1"/>
2.5 No. of Alumni	<input type="text" value="2"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="1"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="2"/>
2.8 No. of other External Experts	<input type="text" value="0"/>
2.9 Total No. of members	<input type="text" value="22"/>
2.10 No. of IQAC meetings held	6
2.11 Chairperson	1
2.12 Coordinator	1

2.11 No. of meetings with various stakeholders: Total No. Faculty

Non-Teaching Staff Alumni Others Students

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

1. Performance of Punjab Agriculture Vis – a- Vis other leading states.
2. Agricultural applications of Plant Tissue Culture Date
3. Value Based Youth Leadership
4. Workshop on Digital Transformation
5. Workshop on Big Data Analytics (2 Workshops)
6. Seminar on HCNA(2 Workshops)
7. Seminar on Training opportunities & Latest Technologies(2 Workshops)
8. Seminar on Android Application Development
9. Seminar on Training and Placement Prospective in Computer Engineering
10. Carrier guidance in ECE
11. Seminar on Entrepreneurship
12. Skill Requirement for Software Industry
13. Seminar on “Growing technologies in Electrical Engineering”
14. Seminar on Bakery (Cake Decoration)
15. 5 day Faculty development program on “Recent advances in Manufacturing & Material processing Techniques”

2.14 Significant Activities and contributions made by IQAC

1. 5 day Faculty development program on *“Recent advances in Manufacturing & Material processing Techniques”*
2. Value Based Youth Leadership
3. Seminar on Training opportunities & Latest Technologies

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
<ul style="list-style-type: none"> • To enhance faculty interaction with industries by organising integrated workshops. • To enhance teaching methodology through at least presentations based teaching and also include video based learning. • Library to be fully computerised • Faculty to be trained for latest technologies from industry people like cyber security, big data, wireless system etc • To spread awareness about yoga among the students and faculty • Orientation classes to UG and PG students • Environment Awareness activity • To reduce the instances of students practicing unfair means during exams • To upgrade modern methods of teaching 	<ul style="list-style-type: none"> • 5 day faculty development programme organised to enhance the faculty know how about the new manufacturing processing techniques used in industries • New SOA being implemented to fulfil the criteria of Presentation based learning • Partial computerisation achieved in library. • Faculty training carried out successfully. • Organised Yoga camp in college campus on International yoga day (21 June 2018) • Conducted • Frequent tree plantation drives are organised in the college premises. • In association with unfair mean enquiry committee established under DAA, workshops were organised for the students appearing in final university examination to deter students from practicing unfair means during exam • Projectors are being used in the class rooms/Labs

<ul style="list-style-type: none"> • Online Courses 	<ul style="list-style-type: none"> • Demonstration of practical's done through projectors • 20% Syllabus covered through online videos and PPTs • Lectures courses are offered in online mode for more flexibility through swayam one courses and NPTEL • Elective online courses has been taken up by the students
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2.16 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body BOG

Provide the details of the action taken

BOG found AQAR report satisfactory

Part – B

Criterion – I

1. 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	-	-	-	-
PG	4	1	5	-
UG	11	-	11	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	15	1	16	-

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	16
Trimester	
Annual	

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**

Online feedback is taken in the campus under supervision of Dean Academics Affairs/Principal twice a semester and accordingly warning, advisory and appreciation letters are issued to teachers.

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

<ul style="list-style-type: none"> • 3rd year (2018 Batch) • 3rd year(MCA) <p>Revision in the syllabi is made by respective departments in BOS after which the clearance for the same is taken from the Academic Council meeting held each year.</p> <p>Following 2 main points are taken into consideration for revision of syllabi:-</p> <ul style="list-style-type: none"> • To take into consideration practical/industrial oriented teaching • To omit obsolete subjects from each course

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

Fashion Designing

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
192	152	30	10	--

2.2 No. of permanent faculty with Ph.D.

11

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
17	07	01	--	--	--	--	--	18	07

2.4 No. of Guest and Visiting faculty and Temporary faculty

02

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	10	01	19
Presented papers	15	06	-
Resource Persons	-	-	05

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

- New SOA has been implemented promoting open book culture and presentation based approach to infuse amongst the students confidence .
- Each Department has developed its own YouTube Channel under which various project related videos of the students and online lecture of the teachers are being published.
- Faculty from each department is motivated to attend more and more short term courses/Conferences, which would be of direct benefit for the students.
- Skill development programmes are organised for enhancing communication and employability skills.
- Frequently guest lectures are organised in each department to boost up the interaction of the students with the people from industry.
- FDP are organised to enhance the technical skills of the faculty, so that they can further impart this knowledge to students
- Teachers are encouraged to develop their own MOOC's.
- Frequent industrial visits are organised.
- E-Lectures, NPTEL Lectures, QEEE Lectures are being used to inculcate knowledge amongst the students.
- Challenging assignments and projects are given to them to hone up their intellectual calibre, sharpen their inquisitiveness, induce them to experience the thrill of learning and enjoy the pleasure of achievement.

2.7 Total No. of actual teaching days during this academic year

187

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

- Separate printing cell has been established for printing question papers.
- Section wise marking of the answer sheets has been inculcated.
- Assignment based test
- Practical lab based examination
- Open Book Examination also included in SOA.

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

BOS	Faculty	CDW
192	192	--

2.10 Average percentage of attendance of students

78%

2.11 Course/Programme wise
distribution of pass percentage :

Title of the programme	Total no of students appeared	Division				
		Distinction (more than 75%)	I% (60-74.9%)	II% (40-59.9)	III% (NA)	Pass %
B.Tech CE	308	28.73	31.81	24.83	NA	85.37
B.Tech CSE	512	33.5	38.15	5.36	N/A	77.01
B.Tech ECE	163	25.4	32.6	12.4	NA	70.4
B.Tech EE	118	38.98	33.05	0.00	NA	72.03
B.Tech ME	370	26.24	31.49	7.49	NA	65.22
B.Tech IT	110	33.25	35.5	4.995	N/A	73.74
BBA	110	30	18	22	NA	70
BCA	140	23.4	44.0	9.6	NA	77
B.com	64	40.91	20.91	15.00	NA	76.82
B.Sc Agri	266	53.38	17.66	0.37	NA	71.41
B.Sc HMCT	194	30	23	21	N/A	74
MBA	101	58.4	37.10	4.5	NA	100
MCA	119	32.4	58.8	6.7	NA	98
M.Tech CSE	13	38.46	13.54	23	NA	75
M.Tech ECE	9	55.5	11.1	-	NA	66.6
Applied Science	308	18.83	39.28	3.89	NA	62

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

- Teachers are motivated to use more and more presentation based teaching practices.
- Before going to practice teaching demonstration lessons are given to the students by the teachers and through simulated teaching they practice their lessons.
- Individual projects are assigned to the students with relevance to the course content like case study, action research and book reviews.
- Through Mentor-Mentee system in which teachers identify the abilities of the students and encourages them to participate in different activities. They also diagnose the problems of the students and try to solve them.
- Students are encouraged to use well stocked library for extensive learning.
- Students are free to interact with their mentors during the tutorial classes and provide first hand feedback on a variety of issues ranging from effectiveness of teaching-learning process, teacher behaviour, infrastructure, evaluation and discipline.
- Regular Academic Audits are conducted to monitor the teaching process.

The IQAC adopts continuous and comprehensive system of evaluation. It is done through internal as well as external assessment, on regular basis.

Internal Assessment includes:-

Performance of the students is monitored in the following aspects

- curricular and co-curricular activities etc.
- assignments

- Seminars and workshops
- Mid semester test

External Assessment includes practical's and theory exams as conducted by the college itself.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	53
UGC – Faculty Improvement Programme	-
HRD programmes	-
Orientation programmes	02
Faculty exchange programme	-
Staff training conducted by the university	-
Staff training conducted by other institutions	08
Summer / Winter schools, Workshops, etc.	10
Others	-

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	52	-	-	1
Technical Staff	32	-	-	2

Criterion – III

3. Research, Consultancy and Extension

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

IQAC has taken in following initiatives

- motivates faculty members and students to undertake research.
- facilitate the faculty and students to formulate research proposals for onward submission to funding agencies i.e. AICTE, UGC, DST etc.
- Major Decisions during the last year are:
 - Non Ph. D. Faculty members have to complete Ph.D. in five Years.
 - Each faculty member has to publish at least two research papers/articles in a year.
 - Granting of study leave.
 - Library facility beyond college hours.
 - Establishment of research labs.
 - Funding for research publications.
 - Granting special leave for attending conferences/seminars and workshops.
 - Payment/funding of registration fee for attending conferences /seminar/workshops.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	--	--	--
Outlay in Rs. Lakhs	--	--	--	--

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	14	01	--	--
Outlay in Rs. Lakhs	0.5	0.025	--	--

3.4 Details on research publications

	International	National	Others
Peer Review Journals	57	30	-
Non-Peer Review Journals	06	02	-
e-Journals	04	01	-
Conference proceedings	33	10	-

3.5 Details on Impact factor of publications:

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	Received
Major projects	2017 - 2018	FIST	80,00,000	30,00,000
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	ACET	22945	22945
Students research projects (other than compulsory by the University)	-	-	-	-
Any other(Specify)	-	-	-	-
Total	-	-	80,22,945	30,22,945

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)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	-	-	-	-	-
Sponsoring agencies	-	-	-	-	-

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 College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	-
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

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
07	02	01	01	--	01	02

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	<input type="text" value="25"/>	State level	<input type="text" value="15"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.22 No. of students participated in NCC events:

University level	<input type="text" value="--"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.23 No. of Awards won in NSS:

University level	<input type="text" value="--"/>	State level	<input type="text" value="-"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.24 No. of Awards won in NCC:

University level	<input type="text" value="--"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.25 No. of Extension activities organized

University forum	<input type="text" value="-"/>	College forum	<input type="text" value="07"/>		
NCC	<input type="text" value="-"/>	NSS	<input type="text" value="08"/>	Any other	<input type="text" value="12"/>

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

- **NSS Event: Celebrated Independence Day, Blood Donation Camp**
- **Lecture on First Aid, Celebrated Republic Day.**
- **International Yoga Day was celebrated on 21st June 2018**

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	10.52 acres	-	Internal Resources	10.52 acres
Class rooms	46	-	ACET	46
Laboratories	61	5	ACET	66
Seminar Halls	2	-	-	2
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	--	24	ACET	24
Value of the equipment purchased during the year (Rs. in Lakhs)	--	55	ACET/FIST	55
Others	-	-	-	-

4.2 Computerization of administration and library

administration is fully computerised
WiFi enabled

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	63866	23574401	2300	120150	66166	23694551
Reference Books	5723	2150250	260	16500	5983	2166750
e-Books	159	Free	-	-	159	Free
Journals	-	-	-	-	-	-
e-Journals	42	Free	42	Free	42	Free
Digital Database	-	-	-	-	-	-
CD & Video	370	Free	10	-	380	-
Magazines	36	48000	-	-	36	48000
Newspapers	17	21600	-	-	17	21600

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	874	669	-	130		41	22	12
Added	40	40						
Total	914	709	-	130		41	22	12

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

NPTEL lectures and teachers register for online certifications like course era, edx and NPTEL, QEEE (In association with IIT Chennai), Future Learn.FDP

4.6 Amount spent on maintenance in lakhs :

i) ICT	61.98
ii) Campus Infrastructure and facilities	100.66
iii) Equipments	20.66
iv) Others	47.00
Total :	230.3

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Placement cell.
- Counselling cell.
- Awareness programmes about higher education.

5.2 Efforts made by the institution for tracking the progression

- Half yearly academic audit
- Faculty Feedback
- Mentorship meetings

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2663	242	-	-

(b) No. of students outside the state

431

(c) No. of international students

260

Last Year(16-17)						This Year(17-18)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
2673	258		157	--	3088	2473	398	--	227	--	3098

Men	No	%	Women	No	%
	2246	72.4		852	27.6

Dropout %: **For UG=6%** **For PG= 1.22**

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

- Special classes are organised to tackle to students problems who are willing to go in for comprehensive exam like GATE at departmental level.
- Special workshops for preparation of competitive exams are arranged time to time.
- Classes for aptitude and communication skills are organised by the institution and has been made a part of the curriculum.

No. of students beneficiaries

All

5.5 No. of students qualified in these examinations

NET	-	SET/SLET	-	GATE	13	CAT	02
IAS/IPS etc	-	State PSC	05	UPSC	02	Others	36

5.6 Details of student counselling and career guidance

- Guidance and Counselling done regularly by the Principal and MD .
- Guidance and Counselling done by faculty during tutorials under mentorship programs
- Preparation and maintenance of eligible students database for companies.
- Training for CV improvement.
- Organize seminars for guidance on higher education like GATE, CAT, GRE.
- Centralised training and placement cell with full time experienced placement officer and supporting staff

No. of students benefitted

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
32	425	338	25

5.8 Details of gender sensitization programmes

- Women's day celebrated
- Awareness about gender sensitization is done mentor groups.
- Special initiatives being taken by Jagriti Society(NGO) to spread awareness about gender sensitization.

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	38	8,22,992
Financial support from government	335	1,95,95,900
Financial support from other sources	-	-
Number of students who received International/ National recognitions	1 student EDCIL	-

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:

- Provisions of E class room facility as per student demand.
- Air conditioning of labs/class rooms
- Cleanliness in washrooms.
- Quality assurance of college canteen and hostel mess, through regular inspections.
- Construction of gym.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION

To produce engineers with highest calibre by imparting Technical Education through Innovative and Analytical approach with an objective to create valuable resources for industry and Society

MISSION

1. To provide latest infrastructure conducive to innovative learning.
2. To establish centres of excellence to enhance academia industry partnership.
3. Focus on specialized Practical oriented teaching to develop analytical ability among students.
4. To empower students with the required skills to encourage entrepreneurship and enhance employability.

6.2 Does the Institution has a management Information System

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

6.3.1 Curriculum Development

- Curriculum is done keeping in mind the institutional goals and objectives.
- Curriculum was developed by a defined process having relevance to the national and global development needs
- Regular curriculum modification, content beyond syllabus strategy and introduction of new courses to cater the need of the society are a priority with the institution.

6.3.2 Teaching and Learning

- Academic calendar is prepared in the beginning of academic session.
- The entire plan like time table, teaching plans are made thereafter
- Teachers prepare their lectures plans date wise and make the IP plans accordingly.
- It is mandatory for every teacher to prepare course file before the start of course.
- The course file includes nominal list of students, syllabus, course blow-up, tutorial sheet, previous year papers, subject notes, assignments and content beyond the syllabus
- The course file are checked by HODs from time to time.
- Lab manuals are also prepared by the teachers.

6.3.3 Examination and Evaluation

Cumulative comprehensive approach is adopted in examination and evaluation is made totally transparent.

6.3.4 Research and Development

- Encouraging faculty for book writing.
- Paper publication by faculty in reputed journal only
- Patents and invention by Faculty
- Membership in Regional and national committees by the faculty
- Faculty participation as resource person in continuing education
- Linking of research incentive with Awards/Prizes/ Honours
- Thesis evaluation by industry experts
- Joint Research Programme with industry

6.3.5 Library, ICT and physical infrastructure / instrumentation

The best available with latest ICT and physical infrastructure is provided by the institute for the students.

6.3.6 Human Resource Management

- There is emphasis on team building and involving all in taking decisions and implementing them.
- A course on Human Values and Professional Ethics and Environment Science has been made mandatory for all the students during first year of their graduation so that they can learn the importance of human resource management .

6.3.7 Faculty and Staff recruitment

- Faculty selection process is as prescribed by PTU/AICTE
- The qualification and promotion rules etc are also as per PTU/AICTE norms
- The advertisements for teaching posts appear in regional and national dailies as well as on college website and employment oriented websites
- The requisite numbers of qualified and competent teachers are appointed in the beginning of every session.
- Some faculty is appointed on contract basis for short duration in case of emergencies.

6.3.8 Industry Interaction / Collaboration

- Setting up a chair for industrial R & D.
- Periodic exchange/ visit of faculty and industry professional.
- Appointment of adjacent faculty from industry.
- Organizing joint seminar/ workshop/ special lectures.
- Participation in evaluation of thesis and research topics.
- participation of industry in development of curricula and new topic of learning's .

6.3.9 Admission of Students

- The college is running technical and professional courses.
- Admission process is given wide publicity through news papers, hoardings, electronic media and on college website.
- The admission is done on the basis of common entrance test on the basis of JEE through centralized counselling by IKG-PTU.
- The management quota seats are also filled on the basis of common entrance test through JEE and also on merit basis in the qualifying examinations i.e. +2 marks.

6.4 Welfare schemes for

Teaching	<ul style="list-style-type: none"> • Loan Facility is provided to the staff. • Accommodation facility is provided to the staff out of city. • Refund of fees for paper, workshops and presentations . • Fee concession for wards of employees. • Cash prize awarded to faculty for international paper presentation.
Non teaching	<ul style="list-style-type: none"> • Contribution made towards staff PF. • Fees concession for wards of employees.
Students	<ul style="list-style-type: none"> • Basic medical facility provided. • Free counselling sessions with counsellor.

6.5 Total corpus fund generated

NIL

6.6 Whether annual financial audit has been done

Yes



No



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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	--	Yes	ACET
Administrative	Yes	--	Yes	ACET

6.8 Does the University/ Autonomous College declares 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?

Periodic meetings are conducted by the college to look into grievances/suggestions

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

NA

6.11 Activities and support from the Alumni Association

The Alumni association provides the information about the availability of jobs in various organisations where they are working and the latest technology demand in market.

6.12 Activities and support from the Parent – Teacher Association

Feedback from parents is need of the society, accordingly we can monitor the students effectively.

6.13 Development programmes for support staff

Technical programmes /workshops are conducted frequently for the enhancing the technical knowledge of Lab instructors/Technicians

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

Energy conservation

- Paper less communications are followed by the departments.
- Energy efficient 5 star rating equipments are used in the campus.
- Flat LCD screens are installed with computers that consume less energy.
- Air-conditioners in staff rooms are switched off when faculty moves to lecture rooms

Use of renewable energy

- Solar water heaters are installed in hostels.
- The College is in the process of installing solar plant of 100KW.
- Rain water Harvesting System is installed in the institute

Recycling of treated sewerage water

Treated water is stored into tanks and is being used for watering of plants and lawns.

Efforts for Carbon neutrality

- Flower pots in building areas.
- Minimum water wastage.
- Use of paper is minimized.
- For carbon neutrality, the focus of the management on greenery with lawns and trees.

Plantation

Sufficient number of trees have been planted in the campus.

Hazardous waste management

Hazardous chemicals used in labs are diluted and safely taken out of the reach of students and has no hazardous impact on the campus environment.

e-waste management

Unused old computers, printers, other electrical and electronics appliances etc are being stored in environment friendly manner in accordance with the provision of hazardous waste (management and handling rules.)

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.

1. Feedback mechanism has been made online through ERP.
2. Use of more ICT in teaching
3. Remedial coaching to slow learner
4. Organizing seminar or talk on emerging topic
5. Preparing newsletter for the department activities

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

- Various FDPs have been organised to enhance the faculty know how about the new manufacturing processing techniques used in industries.
- New SOA being implemented to fulfil the criteria of Presentation based learning
- Partial computerisation achieved in library.
- Faculty training carried out successfully.
- Organised Yoga camp in college campus on International yoga day (21 June 2018)
- Organised blood donation camp during academic year 2017-18.

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

- Academic Audit & Research Audit.
- Promotion of Research.
- Participative management.
- Financial Assistance to the Needy Students.
- Intercollegiate events.
- Parent teacher meet.

**Provide the details in annexure (annexure need to be numbered as i, ii,iii)*

7.4 Contribution to environmental awareness / protection

1. Plantation
2. Awareness programme on environmental pollution
3. NSS
4. Swach Bharat Abhiyan .
5. Tree plantation .

7.5 Whether environmental audit was conducted? Yes - No

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

SWOT Analysis

Strength

- Optimum infrastructure and space for development
- Qualified and experience permanent faculty
- Liberal and cooperative management
- Co-ordial relationship among the stakeholders
- Rich past and good reputation
- Caters to the need of economically weaker section (students)
- Hostel facilities for girls students
- Central library with good number of books and internet facilities
- Good student enrolment
- Good pass percentage in university final examination results
- National as well as international conferences are being organized by the department
- The department focuses on organizing more and more of inter college activities
- Various aptitude tests are being conducted in within the department to prepare the students for competitive exams.
- Students have been engaged in various consultancy and research service

Weakness

- Efforts have been made to sign MOU with various industries.
- Less number of institution collaborations.
- Lack of space for the sports activities within campus.
- More number of Ph.D faculty required.

Opportunities

- More practical exposure to the students through video lecture mode.
- Strengthening interdisciplinary study to enhance creativity
- Offering need based and short term career orientation programme
- More FDP's are going to be conducted
- To file for grants from UGC and DST
- Provide the professional system to start up entrepreneurship

Threats

- Increasing seat of the B.Tech by universities (Govt/Private).
- Inclination of the students going abroad after 10th and 12th.

7.7 Plans of institution for next year

- Revision in the SOA as per the feedback given by faculty and students.
- To increase more stipend based training and placement opportunities for the student.
- To increase programme options available to students in terms of Specialization
- To enrich the practical knowledge of the students by increasing the number of presentations, case studies, demonstration through software's.
- To arrange a guest lecture of renowned personalities from industrial cum recreational trips to make them understand practical applicability of the concepts.
- To tie up with foreign universities to start collaborative degree programs/Training.
- To introduce more online courses in various programs.
- To develop online courses by faculty.
- To start skill based courses as per the demand of industry.
- To increase Institution-Industry Interaction more in the successive years.