

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. (Note: The AQAR period would be the Academic Year. For example, July 1, 2013 to June 30, 2014)

Part – A

I. Details of the Institution

1.1 Name of the Institution

PSN College of Engineering and Technology

1.2 Address Line 1

Melathediyoor

Address Line 2

City/Town

Tirunelveli

State

Tamilnadu

Pin Code

627152

Institution e-mail address

principal@psncet.ac.in

Contact Nos.

+91-4634-279680, +91-4634-279009

Name of the Head of the Institution:

Dr. V. Sadasivam

Tel. No. with STD Code:

+91-4634-279009

Mobile:

9442591197

Name of the IQAC Co-ordinator:

Dr. G. Hirankumar

Mobile:

9600372718

IQAC e-mail address:

iqac@psncet.ac.in

1.3 NAAC Track ID (For ex. MHC0GN 18879)

1.4 NAAC Executive Committee No. & Date:

(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)

EC/56/A&A/137 dated 16-9-2011

1.5 Website address:

www.psnct.ac.in

Web-link of the AQAR:

www.psnct.ac.in/iqac/aqar2013-14.doc

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	A	3.07	2011	2011-2016
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

01/10/2011

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

2013-2014

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

- i. AQAR 2011-12 submitted to NAAC on 29-09-2012_____ (DD/MM/YYYY)
- ii. AQAR 2012-13 submitted to NAAC on 09-12-2013_____ (DD/MM/YYYY)
- iii. AQAR_____ (DD/MM/YYYY)
- iv. AQAR_____ (DD/MM/YYYY)

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

(eg. AICTE, BCI, MCI, PCI, NCI)

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)

1.12 Name of the Affiliating University (for the Colleges)

Anna University, Chennai

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

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE

DST Star Scheme UGC-CE

UGC-Special Assistance Programme DST-FIST

UGC-Innovative PG programmes Any other (*Specify*)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and
community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held 1

2.11 No. of meetings with various stakeholders: No. 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. Nil International National State Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

- ✓ Academic Audit Committee have been formed to conduct periodic audit
- ✓ Women grievance cell has been created
- ✓ PSN Trophy has been conducted during 2-4 February 2014
- ✓ Industry-Institute partnership cell has been created
- ✓ Faculty are motivated to apply for various funding agency in the form of project and to publish their research work in a reputed peer reviewed Journals.
- ✓ Training programme on pedagogy skills and Communication skills has been organized for faculty on 12th May 2014.
- ✓ Three days Orientation programme for research scholars has been conducted during 27-29 January 2014.
- ✓ It is proposed to build the compound wall around the campus to ensure the safety

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
1. To Form Academic Audit Committee	Academic Audit Committee has been formed and audit have been conducted in all departments
2. To Shift existed research labs to new research block	Existed research labs have been shifted to new research block
3. To Establish new research labs	Labs for M.E (Cryo. Eng.), Modernisation of power system simulation lab have been established

4. To conduct PSN Trophy	PSN Trophy has been conducted in Hockey, Volley ball games during 2-4 February 2014 Meetings have been conducted with faculty to motivate them to apply for research projects
5. To encourage faculty to apply for sponsored research projects	
6. To setup Bosch Rexroth Centre of Excellence in Automation	Bosch Rexroth centre has been setup
7. To build compound wall around the campus	25% of the proposed work has been completed.
8. To apply NBA for eligible departments	Department of IT and Marine Engineering have applied for NBA

* Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

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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	4		4	
PG	9	1	10	
UG	10		10	
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				4
Others				
Total	23	1	24	4
Interdisciplinary				
Innovative				

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

Pattern	Number of programmes
Semester	20
Trimester	
Annual	

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

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.

- For PG programme, number of electives have been increased
- Revision and updation in curriculum and syllabus have been carried out according to the revised regulation and also changes have been done according to the latest developments in core as well as elective papers.
- The syllabi are framed based on AICTE model syllabi.
- Departments are offering electives to other department students
- Offering mandatory courses that are extra credit courses and some of them are compulsory courses

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

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
217	146	38	33	-

2.2 No. of permanent faculty with Ph.D.

33

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
7		1		3				11	

2.4 No. of Guest and Visiting faculty and Temporary faculty

-	1	-
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	2	5	3
Presented papers	21	32	9
Resource Persons	1	3	1

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

- Power point presentation using LCD projector, providing NPTEL notes, assignments related to the subjects, seminars, invited guest lecture etc.
- Demonstrations are shown in the class.
- Smart class room with LCD projector, Carrier oriented programme and workshop.
- Continuous Assessment of students
- NPTEL materials are used
- Workshop on “Bloom’s Taxonomy & Question Paper Setting” was organized during 3-4, September 2013 for teaching faculty.

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

173

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

- Photocopy
- Inspection squad
- 100% External setting Question papers
- Scrutiny committee to check question papers
- Student can challenge the valuation

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

104	85	85
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2.10 Average percentage of attendance of students

82

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
BE(CSE)	80	Nil	50	33	No III Class	83
BE(ECE)	89	Nil	40	29		69
BE(IT)	28	Nil	56	30		86
BE(EEE)	50	Nil	40	16		56
BE(Marine)	22	Nil	20	16		36
BE(Civil)	68	Nil	30	16		46
BE(Mech.)	67	Nil	58	30		88
BE(Aero)	58	Nil	20	13		33
ME(CSE)	15	6.66	93.34	----		100
ME(Applied Electronics)	7	14.28	85.72	-----	No III Class	100
ME(Communication Systems)	9	11.11	88.89	---		100
ME(Embedded System Technologies.)	9	11.11	88.89	---		100
ME(Avionics)	5	20	80	---		100
M. Tech. (IT)	14	7.14	92.86	---		100
MBA	14	7.14	92.86	---		100
MCA	8	----	62.5	37.5		100
MSc(SE)	6	--	66.66	33.34		100
MSc(CT)	1	--	100	--		100

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

Through Academic audit committee, teaching & learning processes are monitored and evaluated. Faculty those who are lacking in their performance are given counselling and motivation individually by senior faculty members.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	5
UGC – Faculty Improvement Programme	4
HRD programmes	-
Orientation programmes	17
Faculty exchange programme	-
Staff training conducted by the university	3
Staff training conducted by other institutions	12
Summer / Winter schools, Workshops, etc.	27
Others	4

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	17	-	1	-
Technical Staff	52	-	3	-

Criterion – III

3. Research, Consultancy and Extension

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

Faculty members are encouraged to register Ph.D programme and special allowance is also given
Number of research proposals submitted by the faculty increasing.
Number of faculty members with Ph.D increased.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	4	4	-	3
Outlay in Rs. Lakhs	85 L	75.39 L	-	48.57 L

3.3 Details regarding minor projects

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

3.4 Details on research publications

	International	National	Others
Peer Review Journals	59	1	-
Non-Peer Review Journals	27	-	-
e-Journals	-	-	-
Conference proceedings	46	-	-

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	2013	AICTE, BRNS, DST	36 L	28.5 L
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects <i>(other than compulsory by the University)</i>				
Any other(Specify)				
Total			36 L	28.5 L

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		6			1
	Sponsoring agencies		BRNS, DST, PSN Management			PSN Management

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	-
	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
3	-	3	-	-	-	-

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

7

27

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

1

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

JRF 6 SRF 1 Project Fellows Any other 8

3.21 No. of students Participated in NSS events:

University level 17 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 College forum
NCC NSS Any other

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

- PSN award has been announced for Scientists/Faculty for their contribution in Science, Engineering fields
- Blood donation camp was organized
- Students visit to Vivekananda Kendra, Kanyakumari

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	108218.9 sq.m	-	Fee Collection	108218.9 sq.m
Class rooms	51	1	college	52
Laboratories	41	7		48
Seminar Halls	8	1		9
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	3	5	AICTE,	6
Value of the equipment purchased during the year (Rs. in Lakhs)	3.56 L	24.6 L		28.16 L
Others				

4.2 Computerization of administration and library

All departments including first year and library are computerized.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	55056	19275600	662	232450	55718	19508050
Reference Books	3387	1170450	60	18000	3447	1188450
e-Books	30					
Journals	33	100000			33	100000
e-Journals	647	1470995				1470995
Digital Database						
CD & Video	2500		200		2700	
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	860	8	1 (Digital Library)		1		3	
Added	135				1			
Total	995	8	1		2		3	

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

All departments, Research centre and offices are provided computer with Internets access.

4.6 Amount spent on maintenance in lakhs :

i) ICT	-
ii) Campus Infrastructure and facilities	18.07
iii) Equipments	15.06
iv) Others	0.32
Total :	33.45

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Bridge course is conducted for fresher

5.2 Efforts made by the institution for tracking the progression

Students who are interested in sports are encouraged by waiving their tuition fee and providing free accommodation and food.
Regular meetings/monitoring/counselling the students
Placement cell conducts career guidance programme to the students
Students record such as attendance, internal marks are communicated to parents and if necessary parents are called in person

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1489	228	23	-

(b) No. of students outside the state

772

(c) No. of international students

-

Men	No	%	Women	No	%
	1081	63		636	37

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
666	15		754		1572	679	150		888		1717
	2										

Demand ratio

Dropout %

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

Gate exam coaching was given to the students by Electrical Engineering department

No. of students beneficiaries

1

5.5 No. of students qualified in these examinations

NET SET/SLET GATE CAT
IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance

A compulsory visit to Vivekananda Kendra, Kanyakumari, Tamilnadu for 1st year students is made.

No. of students benefitted

217

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
18	94	21	25

5.8 Details of gender sensitization programmes

Women cell has been created for gender sensitization.

5.9 Students Activities

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

State/ University level

116

National level

14

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	100	65,00,000
Financial support from government	442	80,78,665
Financial support from other sources		
Number of students who received International/ National recognitions		

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: _____

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION

To raise this as a centre of excellence and a prestigious institution, producing enterprising engineering graduates but giving them quality education and practical training.

MISSION

To train students from rural areas and develop them into fully accomplished persons and responsible citizens who would contribute to the building of the nation.

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

Including external experts in Board of Studies and Academic Council

6.3.2 Teaching and Learning

By using ICT in teaching & learning. E- learning materials and used by young faculty members to cover the syllabus.

Additional topics are also covered over and above the syllabus

6.3.3 Examination and Evaluation

From 100 % external question paper setting to 60 % external and 40% internal setting in question paper

Students are evaluated internally by continuous assessment through writing 5 unit tests, their assignment submission and their attendance

6.3.4 Research and Development

Teaching load has been reduced for faculty members for preparing project proposals. Permitting on duty leave for the faculty members to visit research laboratories and to consult industry people.

Encouraging faculty members to apply for projects.

Conducting workshop to motivate the faculty members to know about different funding agencies and prepare them to write reports

Faculty members are given special allowance and leave to carry out Ph.D programme.

6.3.5 Library, ICT and physical infrastructure / instrumentation

Usage of Internet and NPTEL materials increased.
 Back volumes of IEEE available in the digital library
 Library working hours is round the clock
 Question Banks are available in the Library

6.3.6 Human Resource Management

Young faculty members are given training under senior faculty. Additional responsibilities are given to senior faculty.

6.3.7 Faculty and Staff recruitment

Based on the requirement of the departments advertisements were given in the leading news papers and experienced and meritorious candidates were selected for the teaching posts.

6.3.8 Industry Interaction / Collaboration

Through Industry – Institute Partnership Cells people from industries were invited to various departments either to conducted invited lectures or for conducting workshop or to motivate the students.

Department of Electronics and Communication Engineering has collaboration with National Instruments, Vee Eee technologies, Arobotics

6.3.9 Admission of Students

All efforts were taken to improve the admission.

6.4 Welfare schemes for	Teaching	Yes
	Non teaching	Yes
	Students	Yes

6.5 Total corpus fund generated

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	No		Yes	Senior Faculty Member
Administrative	Yes	ISO	No	

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?

Office of Controller of Examination is computerized
100 % external question paper setting
Scrutiny committee formed with external experts to verify question papers
Chief Superintendent looks after all examination process
30% internal marks and 70% End semester examination marks
Attendance of the student carries marks

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

Nil

6.12 Activities and support from the Parent – Teacher Association

Nil

6.13 Development programmes for support staff

Encouraged to attend programmes arranged in other colleges.

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

Free from plastic cups & plastic bags.
Greenery campus
Sewage Treatment Plant

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.

Class tests and Unit tests were introduced to evaluate the student for internal assessments. The students taken it seriously and were able to improve their internal mark. The internal mark components were displayed in the notice board.

Content based videos which is useful for understanding the subjects.

Science camp has been organized during the month of August for Higher secondary students.

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

- Industrial visit have been arranged for students
- New Block for research has been completed
- Remedial classes and periodic tests for slow learners have been conducted
- Placement training and career guidance programme organized

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

Encouraging students by providing free education with free accommodation and food

Encouraging faculty by reducing academic load who involved in research activities

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

7.4 Contribution to environmental awareness / protection

Avoiding Plastic cups and plastic bags inside the college campus.

7.5 Whether environmental audit was conducted? Yes No

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

Nil

8. Plans of institution for next year

To improve the pass percentage To conduct more placement trainings

Name Dr. G. Hirankumar

Name Dr. V. Sadasivam

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

_____***_____