



Yearly Status Report - 2017-2018

Part A

Data of the Institution

1. Name of the Institution	PSN COLLEGE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution	Dr. S.Balakumar
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04634279009
Mobile no.	9442591197
Registered Email	principal@psncet.ac.in
Alternate Email	iqac@psncet.ac.in
Address	Melathediyoor
City/Town	Tirunelveli
State/UT	Tamil Nadu
Pincode	627152

2. Institutional Status																									
Autonomous Status (Provide date of Conformant of Autonomous Status)	05-Jan-2012																								
Type of Institution	Co-education																								
Location	Rural																								
Financial Status	private																								
Name of the IQAC co-ordinator/Director	Dr. C. Christopher Columbus																								
Phone no/Alternate Phone no.	04634279009																								
Mobile no.	9442591146																								
Registered Email	iqac@psncet.ac.in																								
Alternate Email	principal@psncet.ac.in																								
3. Website Address																									
Web-link of the AQAR: (Previous Academic Year)	http://www.psnct.ac.in/iqac.html																								
4. Whether Academic Calendar prepared during the year	Yes																								
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.psnct.ac.in/iqac.html																								
5. Accrediation Details																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.07</td> <td>2011</td> <td>16-Sep-2011</td> <td>15-Sep-2016</td> </tr> <tr> <td>2</td> <td>B++</td> <td>2.76</td> <td>2017</td> <td>22-Feb-2017</td> <td>21-Feb-2022</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.07	2011	16-Sep-2011	15-Sep-2016	2	B++	2.76	2017	22-Feb-2017	21-Feb-2022
Cycle	Grade	CGPA	Year of Accrediation	Validity																					
				Period From	Period To																				
1	A	3.07	2011	16-Sep-2011	15-Sep-2016																				
2	B++	2.76	2017	22-Feb-2017	21-Feb-2022																				
6. Date of Establishment of IQAC	01-Oct-2011																								
7. Internal Quality Assurance System																									
Quality initiatives by IQAC during the year for promoting quality culture																									
Item /Title of the quality initiative by IQAC	Date & Duration			Number of participants/ beneficiaries																					

13th IQAC Meeting	14-Sep-2017 1	12
14th IQAC Meeting	30-Mar-2018 1	10
ISO2015 Pre-assessment Audit	05-Feb-2018 1	219
ISO2015 Certification Audit	26-Mar-2018 2	219

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

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
nil	nil	nil	2018 0	0
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View Link](#)

10. Number of IQAC meetings held during the year :

2

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

Yes

Upload the minutes of meeting and action taken report

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

No

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

A Centre for Plasma Technology was established with the support of DST, New Delhi and PSN Trust at a cost of Rs. 60 lakhs

INTEL lab was established to provide hands-on training for students.

The remote centre of IIT Bombay was established to provide FDP for faculty through its online programmes in teaching pedagogy and ICT enabled classrooms.

The college got re-accredited by NAAC with B++ grade.

ISO: 9001:2015 certification was obtained on 23.05.2018.

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

Plan of Action	Achievements/Outcomes
inplant training / internship program / industrial projects.	In 2014 curriculum, it is made compulsory to Undergo Inplant training and internship training program. So, all the students will be undergoing industrial training in leading industries during the semester vacation period.
Quality Management Group	ISO pre assessment audit for the new Standard ISO: 9001: 2015 was Conducted on 05.02.2018. ISO Certification Audit for the new Standard ISO: 9001: 2015 was Conducted on 26.03.2018 and 27.03.2018.
Community Development Centre	Welding, house wiring and plumbing are imparted to inmates of Central Prison, Palayamkottai through Community Development Cell.
Club Activities	Few new clubs were started and various activities were conducted through these clubs
PSN Academy	GATE Coaching initiated through PSN Academy
Sports Activities	PSN Trophy conducted. National level awards.
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
IQAC	28-Sep-2019

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

Yes

Date of Visit

26-Mar-2018

16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2018
Date of Submission	19-Feb-2018
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	To improve the productivity of our institution towards paperless administration, ACMS software serves as a perfect solution. At present, the modules in practice are as follows, •?Student Management •?Academic Management •?Performance reports, Access reports, online Entries •?Online web portal for staff and students The system helps the management, Director, Principal, HODs and faculty to view the academic details of the student. Also, parent/guardian can get assistance about their ward through web portal.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

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

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	Nil	Nil	01/12/2018
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	AERONAUTICAL ENGINEERING	01/06/2017	Air Traffic Control and Planning/201219	01/06/2017
BE	AERONAUTICAL ENGINEERING	01/06/2017	Project Management/201027	01/06/2017
BE	CIVIL ENGINEERING	01/06/2017	Housing Planning & Management/202202	01/06/2017
BE	COMPUTER SCIENCE AND ENGINEERING	01/06/2017	Software Project Management/203212	01/06/2017
BE	COMPUTER	01/06/2017	Multimedia	01/06/2017

	SCIENCE AND ENGINEERING		Networks/203203	
BE	COMPUTER SCIENCE AND ENGINEERING	01/06/2017	C# and NET Programming/203024	01/06/2017
BE	COMPUTER SCIENCE AND ENGINEERING	01/06/2017	Big Data/203202	01/06/2017
BE	COMPUTER SCIENCE AND ENGINEERING	01/06/2017	Human Computer Interface/203220	01/06/2017
BE	COMPUTER SCIENCE AND ENGINEERING	01/06/2017	Software Testing/203207	01/06/2017
BE	COMPUTER SCIENCE AND ENGINEERING	01/06/2017	Computer Graphics/203022	01/06/2017

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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	AERONAUTICAL ENGINEERING/Cryogenics/201902	01/06/2017
BE	ELECTRONICS AND COMMUNICATION ENGINEERING/Fuzzy logic control/205222	01/06/2017
BE	ELECTRONICS AND COMMUNICATION ENGINEERING/Cellular and mobile communication/205023	01/06/2017
BE	MECHANICAL AND AUTOMATION ENGINEERING/Industrial automation and robotics/209019	01/06/2017

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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	All Programmes	01/06/2017
ME	All Programmes	01/06/2017
MBA	MBA	01/06/2017
MCA	MCA	01/06/2017

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Power system automation	08/09/2017	8
Fire and safety (MAE)	02/12/2017	25
Engine Room Simulation(MARINE)	16/02/2018	18
Fire Fighting(MARINE)	17/07/2017	12
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	MECHANICAL AND AUTOMATION ENGINEERING	2
BE	MECHANICAL ENGINEERING	4
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>Periodical feedback from students is obtained in the class committee meetings. The class committee meetings are chaired by the Head of the department with representatives from the class and faculty members. The feedback from students in class committee meetings are mainly focused on teaching learning process and content delivery methodologies. Appropriate corrective action will be taken by the Head of the department wherever necessary so that the students get the best out of the faculty. The college Principal analyse and take action on the feedback given by the student representatives on general amenities, infrastructure facilities and other activities of the college. The college management has also placed suggestion and complaint box in prominent places so that students can put their views and grievances in the suggestion box. The ISO coordinator, in collaboration with IQAC, obtains feedback from students on teaching learning, physical facilities, general amenities every semester. All the feedback were analysed to assess the strength and weakness of the institution on various criteria. Appropriate measures are taken to rectify the shortcomings and thereby we try to provide a congenial academic atmosphere in the college campus. The opinion of the parents and alumni are obtained in the annual parent teacher association meeting and alumni meeting respectively. Feedback of parents is obtained on matters relating to teaching learning process, facilities provided by the college. Alumni feedback is used to survey the teaching learning process, adequacy of academic infrastructure and curriculum. The employers feedback on curriculum is obtained and used to revise</p>

the curriculum to suit industry needs and provide avenues for the students to be ready for employment after graduation.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Aeronautical Engineering	90	41	37
BE	Civil Engineering	60	58	55
BE	Computer Science and Engineering	90	25	25
BE	Electrical and Electronics Engineering	60	63	56
BE	Electrical and Communication Engineering	90	28	28
BE	Electronics and Instrumentation Engineering	60	1	1
BTech	Information Technology	30	4	4
BE	Marine Engineering	60	51	44
BE	Mechanical and Automation Engineering	60	48	46
BE	Mechanical Engineering	60	61	54

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2017	350	104	178	41	219

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
219	155	37	30	0	130
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

During the four years of study in an institution, the young engineering students need guidance and counselling from their teachers to face academic issues as well as personal problems. A proper guidance at the hour of need will help the students to come up in their life and career. It will be better to have a mentor who will travel with the same batch of students all through the four years of their study in the institution. Each faculty will be the mentor of a group of 20 to 25 students. First year students will have mentors from the School of Basic Engineering and Sciences (SOBES) and second, third, fourth year students will have mentors from the parent department. Departmental faculties will continue to be mentors for the same group of students till their graduation. This is expected to improve the academic quality and help the students to benefit continuously in their studies and overall development. The list of responsibilities given under is not exclusive. A Mentor can do more for the benefit of the students. 1. Meet his/her group of students atleast twice a month. 2. Continuously monitor, counsel, guide and motivate the students in all academic matters. 3. Advise students regarding selection of project, internships, industrial training etc. 4. Must keep a good rapport with the parents of the students under his/her mentorship. 5. Contact parents/guardians in case of any academic irregularities, poor interpersonal relations, detrimental activities etc. 6. Advise students in their career development and professional guidance. 7. Keep in touch with the students even after their graduation. 8. Intimate Head of the department if any administrative action is to be called for. 9. Maintain and update the Student Profile. 10. Periodically update the Head of the department on the mentoring activities carried out. 11. Maintain a brief and clear record of all discussions/meetings with the students assigned for the Mentor. Responsibilities of the Head of Department in Mentoring System 1. Meeting with all the mentors of his/her department atleast once in a month and get their inputs. 2. Review whether the mentoring system is properly implemented in the department. 3. Advise the mentors whenever necessary. 4. Initiating administrative action on a student, if necessary. 5. Keep the Head of the Institution informed periodically on the outcome of the mentoring system of his/her department.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
454	219	1:2

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
219	219	0	17	38

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2017	Dr.Nallasivan Gomathinayagam	Professor	British Journal of Mathematics and Computer Science (Reviewer)
2017	N.Vijay Ponraj	Assistant Professor	Journal of Alloys and Compounds (Reviewer)

2018	Dr.Nallasivan Gomathinayagam	Professor	Asian Journal of Mathematics and Computer Research (Reviewer)
2018	Dr.Nallasivan Gomathinayagam	Professor	Journal of Cancer and Tumor International (Reviewer)
2018	N.Vijay Ponraj	Assistant Professor	Tribology International (Reviewer)
2018	N.Vijay Ponraj	Assistant Professor	Journal of Physics and Chemistry of solids (Reviewer)
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	01,02,03,04,0 5,06,08,09,10	2017-2018 Odd Sem - I Year	20/12/2017	11/01/2018
BE	01,02,03,04,0 5,06,08,09,10	2017-2018 Odd Sem - II, III IV Year	19/12/2017	11/01/2018
BTech	07	2017-2018 Odd Sem - I Year	20/12/2017	11/01/2018
BTech	07	2017-2018 Odd Sem - II, III IV Year	19/12/2017	11/01/2018
ME	21,22,23,24,2 5,26,50,60	2017-2018 Odd Sem - I Year	20/12/2017	11/01/2018
ME	21,22,23,24,2 5,26,50,60	2017-2018 Odd Sem - II, III IV Year	19/12/2017	11/01/2018
BE	01,02,03,04,0 5,06,08,09,10	2017-2018 Even Sem	14/05/2018	05/06/2018
BTech	07	2017-2018 Even Sem	14/05/2018	05/06/2018
ME	21,22,23,24,2 5,26,50,60	2017-2018 Even Sem	14/05/2018	05/06/2018
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

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

2724

0

2.6 – Student Performance and Learning Outcomes

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

<https://psncet.ac.in/departments.html>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
01	BE	Aeronautical Engineering	12	9	75
02	BE	Civil Engineering	55	49	89
03	BE	Computer Science and Engineering	23	22	96
04	BE	Electrical and Electronics Engineering	18	14	78
05	BE	Electrical and Communication Engineering	28	26	93
06	BE	Electronics and Instrumentation Engineering	9	7	78
07	BTech	Information Technology	2	1	50
08	BE	Marine Engineering	46	42	91
09	BE	Mechanical and Automation Engineering	27	19	70
10	BE	Mechanical Engineering	57	46	81

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2.7 – Student Satisfaction Survey

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

https://psncet.ac.in/Feedback_Survey.html

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

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

Yes
Name of the teacher getting seed money
Dr . P . Selvakumar
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	nil	nil	01/12/2018	nil
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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	180	PSNCET/PSSS/06	0.07	0.07
Minor Projects	180	PSNCET/PSSS/02	0.07	0.07
Minor Projects	540	PSNCET/FRIST/001	0.62	0.62
Minor Projects	300	PSNCET/FRIST/003	0.31	0.31
Minor Projects	300	PSNCET/FRIST/004	0.4	0.4
Minor Projects	300	PSNCET/FRIST/002	0.27	0.27
Major Projects	1095	BRNS, DAE	19.35	1.75
Major Projects	1095	SERB, DST	21.74	0.03
Major Projects	1095	Science and Engineering Research Board	23.44	7
Major Projects	1095	DST-TSDP	93.67	11.1
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies

during the years

16

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Inaugural Function of Electra	Electronics and Communication Engineering	19/07/2017
Marine Electronics	Electronics and Communication Engineering	13/09/2017
Employability Skills	Electronics and Communication Engineering	19/01/2018
Real Time Application of Embedded System	Electronics and Communication Engineering	28/02/2018
National Level Conference (Recent Trends in Communication and Instrumentation Engineering)	Electronics and Communication Engineering	16/03/2018
Laser Processing of Materials	Mechanical Engineering	06/09/2017
Shipboard safety and safe working practices	Marine	28/08/2017
Practical training on electrical circuits onboard ships	Marine	11/01/2018
Seminar On Finite Element Analysis	Aeronautical Engineering	11/10/2017
Seminar on Aerodynamics	Aeronautical Engineering	14/07/2017
IOT- (Seminar)	Computer Science Engineering	20/07/2017
Intel Intelligent -FICE Training - (Workshop)	Computer Science Engineering	05/03/2018
Internet of Things using Raspberry Pi- (Workshop)	Computer Science Engineering	21/08/2017
TREWOS'17 - (National Level Technical Symposium)	Computer Science Engineering	08/09/2017
Cloud Technology- (Seminar)	Computer Science Engineering	04/10/2017
Java JOP- (Workshop)	Computer Science Engineering	22/02/2018
Internet of Things - (Seminar)	Computer Science Engineering	20/07/2017

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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
nil	nil	nil	01/12/2018	nil
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
nil	nil	nil	nil	nil	01/12/2018
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Electronics And Communication Engineering	1
Computer Science Engineering	2
Civil Engineering	1
Science and Humanities	3

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Electronics and Communication Engineering	1	0
International	Electronics and Communication Engineering	3	1.17
International	Mechanical Engineering	2	1.33
International	Computer Science Engineering	7	0.31
International	Electrical and Electronics Engineering	2	1
International	Marine	1	0
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Marine Engineering	2
CSE	2
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
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nil	Filed	0	01/12/2018
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Polymer-supported catalyst for effective degradation of organic dyes: 100 recovery of catalyst stability and reusability	Muthupongodi, S, Linda, T, Shajan, X S, Mitu, L Balakumar, S	Polymer bulletin	2018	1.858	PSN College of Engineering and Technology	3
Effect of Reaction Period on Stoichiometry, Phase Purity, and Morphology of Hydrothermally Synthesized Cu ₂ NiSnS ₄ Nanopowder	Babu, G S D, Shajan, X S, Alwin, S, Ramasubbu, V Balerao, G M	Journal of Electronic Materials	2018	1.676	PSN College of Engineering and Technology	4
TiO ₂ aerogel-metal organic framework nanocomposite: a new class of photoanode material for dye-sensitized solar cell applications	Alwin, S, Ramasubbu, V Shajan, X S	Bulletin of Materials Science	2018	0.8	PSN College of Engineering and Technology	5
WFCM based big sensor data error	R Sheeba, G Jiji, T. Ajith	Cluster Computing - The Journal of	2018	1.851	PSN College of Engineering and	0

detection and correction in wireless sensor network	Bosco Raj	Networks, Software Tools and Applications			Technology	
Effect of Dimethyl Carbonate (DMC) on the Electrochemical and Cycling Properties of Solid Polymer Electrolytes (PVP-MSA) and its Application for Proton Batteries	C.Ambika, Dhanasekaran, Vikraman, Ji YoungLee, T.Regu, T.Ajith, Bosco Raj, K.Prasanna, Hyun-SeokKim	Solid State Ionics	2018	2.886	PSN College of Engineering and Technology	5
Effect of milling on dispersion of graphene nanosheet reinforcement in different morphology copper powder matrix	N.Vijay Ponraj, S. C.Vettivel, A.Azhaguraja, X.Sahaya shajan, P. Y.Nabhiraj P.Selvakumar	Surfaces and Interfaces, Vol9, 260-265, 2017	2017	0	PSN College of Engineering and Technology	7
A retrospect on the role of piezoelectric nanogenerators in the development of the green world	Ani Melfa Roji M, Jiji G, Ajith, Bosco Raj T	RSC Advances	2017	3.049	PSN College of Engineering and Technology	9
Severity Analysis of Diabetic Retinopathy in Retinal	T. Ajitha, N. Kesavan Nair, T. Ajith, Bosco Raj	International Journal of Printing, Packaging Allied	2017	0	PSN College of Engineering and Technology	0

Images Using Hybrid Structure Descriptor Histogram and RBF Kernel SVM		Sciences				
Detection of Diabetic Retinopathy with Support Vector Machine Classifier Using Various Transformations	T. Ajitha, N. Kesavan Nair, T. Ajith Bosco Raj, Agees Kumar	Journal of Computational and Theoretical Nanoscience	2017	0.221	PSN College of Engineering and Technology	0
Marine	R. Sheeba, T. Ajith Bosco Raj	Journal of Computational and Theoretical Nanoscience	2017	0.221	PSN College of Engineering and Technology	0
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Optimal Weighted Average Prediction and Correction in Big Sensor Data Using Fruit Fly Algorithm and Support Vector Machine	R. Sheeba, T. Ajith Bosco Raj	Journal of Computational and Theoretical Nanoscience	2017	43	0	PSN College of Engineering and Technology
Detection of Diabetic Retinopathy with	T. Ajitha, N. Kesavan Nair, T. Ajith Bosco Raj,	Journal of Computational and Theoretical Nanoscience	2017	43	0	PSN College of Engineering and Technology

Support Vector Machine Classifier Using Various Transformations	Agees Kumar					
A retrospect on the role of piezoelectric nanogenerators in the development of the green world	Ani Melfa Roji M, Jiji G, Ajith Bosco Raj T	RSC Advances	2017	113	8	PSN College of Engineering and Technology
Effect of Dimethyl Carbonate (DMC) on the Electrochemical and Cycling Properties of Solid Polymer Electrolytes (PVP-MSA) and its Application for Proton Batteries	C.Ambika, Dhanasekaran, Vikraman, Ji YoungLee, T.Regu, T.Ajith Bosco Raj, K.Prasanna, Hyun-SeokKim	Solid State Ionics	2018	175	5	PSN College of Engineering and Technology
TiO ₂ aerogel-metal organic framework nanocomposite: a new class of photoanode material for dye-sensitized solar cell applications	Alwin, S, Ramasubbu, V Shajan, X S	Bulletin of Materials Science	2018	63	5	PSN College of Engineering and Technology
Effect of Reaction Period on Stoichiometry	Babu, G S D, Shajan, X S, Alwin, S,	Journal of Electronic Materials	2018	87	4	PSN College of Engineering and Technology

try, Phase Purity, and Morphology of Hydrothermally Synthesized Cu ₂ NiSnS ₄ Nanopowder	Ramasubbu, V Balerao, G M					
Polymer-supported catalyst for effective degradation of organic dyes: 100 recovery of catalyst stability and reusability	Muthupongodi, S, Linda, T, Shajan, X S, Mitu, L Balakumar, S	Polymer bulletin	2018	55	3	PSN College of Engineering and Technology
Electrical, electrochemical, and cycling studies of high-power layered Li (Li _{0.05} Ni _{0.7-x} Mn _{0.25} Cox)O ₂ (x = 0, 0.1, 0.3, 0.5, and 0.7) cathode materials for rechargeable lithium ion batteries	Nichelson, A, Karuppasamy, K, Thanikaikarasan, S, Reddy, P A, Kollu, P, Karthickprabhu, S Shajan, X S	Ionics	2018	48	13	PSN College of Engineering and Technology
Synthesis and Characterization of Li (Li _{0.05} Ni _{0.6} Fe _{0.1} Mn _{0.25})O ₂ Cathode Material for Lithium	Nichelson, A, Thanikaikarasan, S, Karuppasamy, K, Karthickprabhu, S, Mahalingam, T, Shajan, X	Journal of New Materials for Electrochemical Systems	2018	40	0	PSN College of Engineering and Technology

Ion Batteries	S Valenzuela, E					
Study of Processing and Microstructure of Copper Composite Reinforced with Graphene Nanosheet by Powder Metallurgy Technique	Ponraj, N V, Azhagurajan, A, Vettivel, S, Shajan, X S Nabhiraj, P	Powder Metallurgy and Metal Ceramics	2018	19	1	PSN College of Engineering and Technology

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	2	10	15
Presented papers	3	0	0	0

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Mechanical Engineering	Optimization of production processes and automation and online monitoring of processes to improve productivity	SS Jothi Plastics	375000
Electricla and Electronics Engineering	Electrical safety audit	Albuja plastic industries, Tirunelveli	110000

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

Name of the Consultant(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
nil	nil	nil	0	0

No file uploaded.

3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Special camp	National service scheme	2	50
Cleaning thamirabharani river	National service scheme	2	50
Special camp	National service scheme	2	50
Essay competition under title "National Integration Communal Harmony	Anna University, Chennai.	2	21
Essay writing competition about "contribution for the development of Tamil Nadu "made by late Chief Minister of Tamil Nadu Dr.M. G.Ramachandran.	Anna University, Chennai.	2	42
Medical Camp	Selvam Hospital, M elapapayam	2	340
Dental Camp	CharlieDental, Per umalpuram, Tirunelveli	2	303
Blood donation camp	Vivek Blood Bank, Nagercoil	2	202
Installation of Rotract Club	Rotary Club of Nagercoil Blossoms.	2	45
Supply of Nilavembu Kashayam to prevent Dengu fever.	Dr.S.Balakumar, Pr incipal	2	500
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Paper presentation	Award	American University of India Kodaikanal	2
National Service Scheme	Best NSS Unit Award	Anna University, Chennai	85
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Tree Plantation Programme	Aeronautical Engineering	Tree Plantation Programme	4	11
Rally	Computer Science Engineering	Rally	10	66
Camp	YRC/RRC/NSS	BLOOD DONATION CAMP	2	50

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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Standard Training Certification for Watch Keeping	55 MARINE STUDENTS	Individual	21
Collaborative research	Dr.S.Moorthy Babu, Crystal Growth Centre, Anna University, Chennai	Management	5
Collaborative research	Dr.S. Parameswaran, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam	Management	5

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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Industries	Training	Intel FICE	05/03/2018	08/03/2018	31
Internship	Project Training	Bosch Limited Plot No.B8-B13,B-15,B-16 SIPCOT Industrial Growth Centre, Gangaikondan Tirunelveli-627352	22/06/2017	18/07/2017	2

Field Related	On the Job Training	V O C Port Trust	13/11/2017	18/11/2017	7
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Adaptive Media, Tirunelveli	02/08/2017	Soft Skill training	10
E Dot Technologies, Tirunelveli	20/07/2017	Training and Projects	58
The Jenntex Engineering Co., Coimbatore	21/08/2017	Industrial Training	8
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
15	13.5

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Video Centre	Newly Added
Seminar halls with ICT facilities	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar Halls	Newly Added
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
PSNLIBMS	Fully	2010	2008

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	Text Books	58197	14740777	554	153363	58751
Reference Books	1746	698400	12	7764	1758	706164
e-Books	0	0	0	0	0	0
Journals	33	100000	0	0	33	100000
e-Journals	2	14670	0	0	2	14670
CD & Video	3604	0	36	0	3640	0
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Nil	Nil	Nil	01/12/2018
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	920	533	100	0	160	20	88	100	119
Added	0	0	0	0	0	0	0	0	0
Total	920	533	100	0	160	20	88	100	119

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NIL	https://psncet.ac.in

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
15	13.8	15	14.8

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

The college has well defined procedure and policy for maintain the academic process as well physical and support facilities offered by the college. The academic process begins with an academic planning and implementation. This includes finalization of faculty for academic courses offered for the department as well as interdepartmental programs. This is followed by the finalization of electives offered in the higher semesters, preparation of lesson plan and delivery methodologies for each course by the faculty in-charge. The question bank for each course is made available. Civil maintenance of the college is headed by a faculty of Civil engineering department. Plumbing works, carpentry, sewage treatment plant, masonry works and gardening come under the faculty in-charge. The nomination of faculty in-charge is on rotational basis for every three years. Computers and UPS are maintained by a team of qualified technical staff appointed for the purpose. The team is headed by the Systems Manager and supported by three Assistant Managers for hardware, software and website sections. Computers and UPS maintenance work is monitored by a faculty of CSE department nominated by the Principal on rotational basis. Electrical maintenance in the college campus is done by a team of electrical engineers and electricians headed by a senior faculty member of electrical engineering department. As per the directions of the faculty the Electrical Engineer executes the maintenance and new installations through Supervisors. The team has six electricians and two wiremen. Maintenance of laboratory and workshop equipments are taken care of by the respective lab-in charge and workshop in-charge. All maintenance works related to laboratories and workshop are done by the advice of the respective Heads of department. Library is headed by the Librarian. He is supported by an Assistant Librarian, Assistants and Attenders. The library is 24x7 operational and students are permitted to use the library on a time of their choice other than regular class hours. The college is particular in adding new books to the library every year and also subscribes online and printed journals for the students to upgrade their knowledge and skills. The dispensary is headed by a Medical Officer. She is supported by two nurses and one pharmacist. Twelve beds are available to treat in-patients. Treatment in the dispensary is provided free of cost for the staff, students and nearby villagers. Physical Education department is headed by a Physical Director who is responsible for preparing sports students for competitions. The department also provides training in yoga. The Physical Director is supported by a team of Assistant Physical Directors, Markers, and Attenders. The college has more than 25 buses plying in all routes covering Nagercoil (South), Thoothukudi (East), Ambasamudaram (West) and Kovilpatti (North). In addition to this the college also has cars for picking and dropping experts and one ambulance providing 24x7 service in the college dispensary. The transport facilities of the college is looked after by the Vehicles Manager. He is supported by Supervisors and Clerical Assistant.

https://psncet.ac.in/Procedure_Policies.html

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Fee Concession by the Management	38	880000
Financial Support from Other Sources			

a) National	BC/MBC/DNC/SC/ST/ SCC/SCA	654	29057380
b) International	0	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Enhanced Career Guidance	23/11/2017	212	Internal Staff
Internal Of Things Using Raspberry PI - Soft Skill	21/08/2017	117	Pantech Pro-E Ltd Chennai
Cloud Technology - Soft Skill	04/10/2017	117	Spiro Group Of Companies - Tirunelveli
Java JOP - Soft Skill	22/02/2018	117	IIT Mumbai
Remedial Coaching Class	21/03/2018	76	Internal Staff
Meditation	08/03/2018	54	Vetha Logaa Manavalakkalai Mandrum Trust - Tirunelveli
Yoga Programme	22/02/2018	23	Vethathiri Maharishi Institute for Spiritual and Institutional Education
Advanced PLC	18/12/2017	11	PSNCET-BOSCH Centre of Excellence
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	Career Guidance Cell	61	86	0	14
2018	GATE Coaching	11	0	0	0
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual

harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
9	9	5

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
8	226	60	24	56	39
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	1	BE	Aeronautical Engineering	PSN College of Engineering and Technology	ME
2018	1	BE	Mechanical and Automation Engineering	PSN College of Engineering and Technology	MBA
2018	1	BE	Mechanical Engineering	KLN College of Engineering, Pottapalayam	ME
2018	1	BE	Mechanical Engineering	FX Engineering College, Tirunelveli	ME
2018	1	BE	Mechanical Engineering	Udaiappa Engineering College, Theni	ME
2018	1	BE	Computer Science and Engineering	PSN College of Engineering and Technology	ME
2018	1	BE	Electrical and Electronics Engineering	PSN College of Engineering and Technology	ME

2018	1	BE	Electrical and Electronics Engineering	Kalasalingam University	MBA
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	0
No file uploaded.	

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

Activity	Level	Number of Participants
PSN TROPHY-2018 (National Level Tournament)	National	250
PSNCET - Hockey	National	2
Anna University Zonal Level Tournament - Hockey	Zone-18 Anna University	3
State Handball Championship	State	2
State khabaddi Championship	State	1
State Level Chief Ministers Trophy	State	1
Solo Fashion Parade - American University of India (AUI) Kodaikanal	District	6
Solo Singing- American University of India (AUI) Kodaikanal	District	1
Paper Presentation - American University of India (AUI) Kodaikanal	District	2
Ad-Zap- American University of India (AUI) Kodaikanal	District	6
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	National Level Techno Cultural	National	0	1	1309006	Anantha Krishnan A

	Fest					
2017	Anna University Sports Board	National	2	0	1607001	P.Anitha
2017	Anna University Sports Board	National	1	0	1607003	K.Kabila rasan
2017	Anna University Sports Board	National	1	0	1607006	S.Ramya
2017	Anna University Sports Board	National	1	0	1607009	M.Sivara njani
2017	Anna University Sports Board (Kabadi)	National	1	0	1403002	S.Anusiya
2017	Anna University Sports Board (Kabadi)	National	1	0	1403019	S.Prema
2017	Anna University Sports Board (Basket Ball)	National	1	0	1403010	D.Jeyala shmi
2017	Tamilnadu State Senior Kabadi Championship	National	1	0	1403002	S.Anusiya
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The four years of stay in a college must make a student to become an endeavouring leader and a role model for others in the future. For this to become reality a college must provide opportunity for a student to acquire good communication skills, organizing skills, team work and planning skills. Bearing this in mind the college provides its students to acquire leadership qualities while pursuing their degree programmes itself by making them to actively involve and participate in various academic and administrative process of the college. This starts from the class committee to students' representation in various academic and administrative committees. This includes student representation in Internal Quality Assurance Cell (IQAC), Students Grievances and Redressal Committee, Anti-Ragging Committee etc. Class committee forms the

back bone of the student leadership activities. The Class committee meeting is conducted every month to discuss the issues of the students and find solutions to them. The committee consists of the student representatives from each class in every department. They discuss the academic plan, syllabus coverage, difficulties in the subjects, test pattern, result analysis and other departmental activities like symposiums, workshops, paper presentations, Mini projects, etc. The students are free to suggest remedies for their issues and also new and innovative ideas that can be implemented in their departments.

Every department has a technical Association which periodically organized symposia, guest lectures and conferences. Students are given opportunities to organize such departmental programmes like seminars, guest lectures, conferences and symposia. These type of programmes help the students to expose and empower themselves to take a lead in various activities related to the college. The college also encourages to form students chapters of ISTE, IE, IET, CSI which will help the students to share their knowledge and skills with their faculty and also give them opportunity to present them in conferences and seminars. NSS student volunteers aim at developing student personality through community services. The NSS Program Coordinator and NSS Program Officer motivate the volunteers to serve the society through various activities like blood donation, special camps, awareness programs, planting tree saplings, sanitation and hygiene, cleanliness etc. The college has technical and non-technical clubs for the students to actively participate and lead them. Coding club, Photography club, Fine arts club are few to mention here. Women students are given representation in the Women Empowerment Cell. The Cell actively involve to find solutions to the issues of the women and providing a congenial atmosphere for the women students for their stay and study in the campus. Students are also given representations in library committee, hostel mess committee. Students can give their suggestions on requirement of books in library as well as to fulfil the needs of students in the hostel and mess.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

0

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

1431

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Meeting was conducted on 26.01.2018

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

All decisions taken by the top management are descended to the faculty and administrative staff through the Principal, Directors, Deans and Heads of department. Principal is delegated to handle all day to day academic matters and take decisions. The Principal delegates the Directors, Deans and team of faculty members to monitor teaching learning process, academics, research and development, innovation, entrepreneurship development, internal revenue generation, faculty empowerment, student affairs, system automation, planning

and development, institutional growth and appraisal, institutional promotion, exam related, industry institute partnership, alumni and stakeholders, admission, student discipline, library and college ambience. These are monitored by forming several committees consisting of Heads of department and faculty members. Director (Academics and Research) is delegated to look after teaching learning process, academics, research and development, faculty empowerment. Director (Planning and Development) is delegated to look after planning and development, institutional growth and appraisal, institutional promotion, industry institute partnership. Director (Training and Skill Development) is delegated to generate internal revenue by conducting skill development training programmes for the students through the Centres of Excellence established in the college. Heads of department are authorized to look after student affairs, teaching learning process in consultation with Director (Academics and Research), alumni and stakeholders, admission, student discipline, internal exams and college ambience. Library committee is formed with a senior faculty member as its coordinator to look after the library updation, automation and related areas. All faculty members are delegated in various statutory as well as non-statutory committees of the college. ISO coordinator takes care of the quality system and is maintained through the Management Representative and department coordinators. The Internal Quality Assurance Cell is authorized to frame the quality policy and measures for the academic year and take action wherever and whenever there is inconsistency. The IQAC is authorized to conduct Administrative and Academic Audit (AAA) every year and identify the strengths and weakness of the institution and shall suggest ways and means to improve them. The participative management approach is practiced at different levels in the college and all the stakeholders are involved in the process of decision making based on collective knowledge. The statutory committees of the college are: Governing Council, Academic Council, Board of Studies and Finance Committee. All these committees have representations from various levels of academic and administrative personnel of the college as well as stakeholders. The other committees include, College Staff Council, Programme Assessment Committee, Department Advisory Committee, Class Committee, Department Staff Council, Internal Quality Assurance Cell, Parent Teacher Association, Alumni Association, and Students' Welfare Association etc. The participative management system enables the stakeholders to participate in the decision making process of the college which helps to establish better communication and human relationship.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	<ul style="list-style-type: none"> • Curriculum development is done through periodical feedback from students and faculty, • Introduction of courses in the curriculum to suit industry needs, • Industrial visits, mini projects and internships are made mandatory so that the students get industrial exposure and innovative thinking
Teaching and Learning	<ul style="list-style-type: none"> • 24x7 fully functional Central library • Conduct of remedial and coaching classes for slow learners •

	<ul style="list-style-type: none"> Content beyond syllabus Courses on communication skills Continuous assessment and evaluation system NPTEL video lectures Monitoring the delivery of syllabus Lab manuals and study materials for students Upgradation of class rooms and laboratories
Examination and Evaluation	<ul style="list-style-type: none"> Structured Exam cell for internal assessment and Chief Superintendent (Examinations) office for end semester examinations 60 question setting by external experts Evaluation by external experts Provision for photo copy answer scripts for the students to check the valuation Revaluation of answer scripts Challenging the valuation Supplementary examinations for the students with arrears
Research and Development	<ul style="list-style-type: none"> Projects funded by national funding agencies to a tune of Rupees three crores Separate building for research and development Research Advisory Committee with eminent scientists Faculty and student support schemes Stipend for research scholars Financial support for presenting papers in international conferences On duty leave and partial financial assistance for presenting papers in national conferences
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"> More than 60000 books available in the library E-journals subscribed in all disciplines Digital library with NPTEL videos The library is kept open 24 hours and 7 days of a week Barcoding facility Class rooms with internet facility and LCD projectors Extensive play grounds HT electrical line for the entire campus Augmented with solar panels and wind energy 100 Mbps broadband internet facility Nearly 900 computers available and upgraded periodically
Human Resource Management	<ul style="list-style-type: none"> Formulating transparent faculty recruitment policy and dissemination Constitution of faculty and staff recruitment committees Organizing orientation and training programmes for faculty Performance appraisal Assisting IQAC in conducting FDP/refresher courses for faculty
Industry Interaction / Collaboration	<ul style="list-style-type: none"> Fully functional Industry Institute Partnership Cell (IIPC) Guest lectures by experts from industry Industrial visits made mandatory

	Internships in industry is encouraged • MoUs with industry for internships and project support • Project work in industry is encouraged
Admission of Students	The policies regarding admission and fee structure are as per the norms of AICTE / DOTE Chennai. Being a self-financing college 65 percent of intake is admitted through single window system conducted by Anna University, Chennai as per the reservation policy of Government of Tamil nadu. Remaining 35 percent is filled by the management. The College ensures publicity through college website, advertisements in daily newspapers, and educational exhibitions.

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

E-governance area	Details
Planning and Development	<ul style="list-style-type: none"> • Provides strategic plan for the college, both short term and long term • Quality Assurance • Mail communication facilities to all departments / faculty • Decisions taken in meetings, minutes of meetings are communicated to the departments/faculty concerned through internet • Coordinating with IQAC on preparing documents for NAAC, NBA and AAA
Administration	All the operational procedures and forms are made available in the server and can be accessed through intranet
Finance and Accounts	Tally software is used for accounting purposes.
Student Admission and Support	The modules used for Student Admission and Support are: <ul style="list-style-type: none"> • Student Application • Roll No. Generation • Admission Quota • Fees Assignment based on the Category
Examination	<p>Examination Process:</p> <ul style="list-style-type: none"> • Student Exam Application Regular, Arrear and Revaluation • Exam Fee Collection, Examination TimeTable Hall Ticket Generation • Examination Attendance Generation • Conducting Examination • Checklist Generation Flip and Foil Cover Generation Attendance Verification Despatch Generation Post Examination • Practical Mark Entry • Dummy Number Generation Bundle Number Generation • Examination Mark Entry Galley Generation • Result Passing • Grade Sheet Generation Consolidated Grade Sheet Generation • Award of

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2017	A.Kasi Viswanathan	Aerospace and Defence Manufacturing Show	Nil	1000
2018	Dr.M.Vargheese	International Conference of Intelligent Computing and communication Technology	Nil	500
2018	R.Mathavan	International Conference of Intelligent Computing and communication Technology	Nil	500
2018	G.Kharmega Sundararaj	International Conference of Intelligent Computing and communication Technology	Nil	500
2018	Dr.G.Nallasivam	International Conference of Intelligent Computing and communication Technology	Nil	750
2018	Dr.P.Selvakumar	FDP on Finite Element Anaysis, Syed Ammal Engineering College, Ramanathapuram	Nil	800
2018	K.Suresh	FDP on Finite Element Anaysis, Syed Ammal Engineering College, Ramanathapuram	Nil	800
2018	S.Paramasivan	FDP on Finite Element Anaysis, Syed	Nil	800

		Ammal Engineering College, Ramanathapuram		
2017	N.Vijay Ponraj	FDP on Exploring Experientia earning in Higher Education at Noorul Islam Centre for Higher Education, Kumaracoil	Nil	600
2017	N.L.Maharaja	FDP on Exploring Experientia earning in Higher Education at Noorul Islam Centre for Higher Education, Kumaracoil	Nil	600
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2017	FDP on Composite Materials	Nil	04/12/2017	08/12/2017	21	0
2017	Orientat ion Programme for Newly Recruited Faculty	Nil	23/06/2017	24/06/2017	40	0
2018	Research Methodology in Engineering	Nil	29/03/2018	31/03/2018	27	0
2017	Faculty Development Program on Cloud Computing	Nil	07/11/2017	07/11/2017	28	0

2018	Certificate Program in Intelligent Systems	Nil	05/03/2018	08/03/2018	7	0
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Research Opportunities and Challenges in Robotics	2	19/02/2018	25/02/2018	7
FDP on Composite Materials	21	04/12/2017	08/12/2017	5
Orientation Programme for Newly Recruited Faculty	40	23/06/2017	24/06/2017	2
Research Methodology in Engineering	27	29/03/2018	31/03/2018	3
Faculty Development Program on Cloud Computing	28	07/11/2017	07/11/2017	1
Certificate Program in Intelligent Systems	7	05/03/2018	08/03/2018	3
FDP on Finite Element Analysis, Syed Ammal Engineering College, Ramanathapuram	3	24/05/2018	30/05/2018	7
FDP on Exploring Experientia learning in Higher Education at Noorul Islam Centre for Higher Education, Kumaracoil	2	19/12/2017	19/12/2017	1

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
219	219	88	88

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Allowance for the staff those who are doing Ph.D., Incentives for research publications, sponsored projects and consultancy works, Free transport facility, Insurance (Pension Schemes in LIC), Maternity leave, Health centre for free health check-up and treatment, Fee concession for wards of Staff	Free transport facility, Insurance (Pension Schemes in LIC), Maternity leave, Health centre for free health check-up and treatment, Fee concession for wards of Staff	Tamil Nadu Government fee waiver scheme for first graduates, SC / ST Scholarship, Backward classes and minorities welfare scholarship

6.4 – Financial Management and Resource Mobilization

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

A financial committee has been constituted once in two years to allocate funds for various activities and it was placed before the Governing council for getting approval. At the end of the financial year, the overall account details are audited by a chartered audited accountant.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
nil	0	nil
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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO audit	Yes	Internal Auditors
Administrative	Yes	Registered Chartered Accountant	Yes	Internal Auditors

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

- Active and fully functional PTA
- PTA meetings are conducted once in year by the departments regularly
- Feedback from the parents are obtained
- Academic plan, progress of students in academic and co-curricular activities are discussed
- Several committees have parent nominees

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

- Training on "Office Automation" on 17.11.2017
- Training on "How to operate Fire extinguishers" on 11.12.2017
- Training on "Engine Room Simulation" on 16.02.2018

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

- NBA accreditation - SAR submitted for Civil, EEE and Mechanical Engineering
- Planned to introduce Learning Management System (LMS)
- Planned to introduce Outcome Based Education (OBE) in Regulation 2018 curriculum

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2017	13th IQAC Meeting	14/09/2017	14/09/2017	14/09/2017	12
2018	14th IQAC Meeting	06/03/2018	06/03/2018	06/03/2018	10
2018	ISO 2015 P re-assessment Audit	05/02/2018	05/02/2018	05/02/2018	222
2018	ISO 2015 C ertification Audit	26/03/2018	26/03/2018	26/03/2018	222

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Avenues for Women in Business	05/12/2017	05/12/2017	112	32
Womens Day	08/03/2018	08/03/2018	248	18

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

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

Transformed to 400KV 50 KW energy generated by the renewable energy sources 125 KV generator available 17 Percentage of power requirement of the College met by the renewable energy sources

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled students	No	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2017	0	0	01/12/2018	0	nil	nil	0

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Hand Book	02/07/2017	The handbook contains the code of conduct and ethical values that a student must learn during his/her stay in the campus which will make him/her to stand unique in the society. Students are generally following the code of conduct correctly and if any misconduct, students are advised through the mentor. Steps are taken to mentor the students in each and every phase and make them good citizens of the country.

Professional Ethics	01/06/2017	Professional Ethics is one of the course in the curriculum of the programmes offered by the college.
Social Value Education	23/01/2018	Three days programme on social value education was made compulsory for the first year students. The students are trained at Vivekananda Kendra, Kanyakumari

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Community Development Program (Welding House wiring Course) for central jail prisoners	06/11/2017	23/11/2017	40
Community Development Program (Welding House wiring Course) for central jail prisoners	23/04/2018	10/05/2018	40

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

Campus cleaning programs were conducted to keep the environment neat and tidy by NSS volunteers.
Tree saplings were planted around the campus by eco club on 09.09.2017.
An awareness program on water conservation in men's hostel (Anchor Hostel) was conducted by the eco club volunteers on 09.12.2017.
An awareness program on water conservation in ladies hostel (Gangai Hostel) was conducted by the eco club volunteers on 10.02.2018.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Fast Track scheme: If a student cleared all his arrears in VI Semester and should score a CGPA more than 7 were eligible for fast track. If a student comes under fast track he/she will study the 8th semester subjects in the lower semester so in eight semester he/she can go for Internship programme. Stipend for Research Scholars: The college is situated in an extremely rural area of Tirunelveli district in Tamilnadu. Most of the youth in and around this area are first generation learners. In order to provide them an opportunity to pursue research leading to Ph.D. degree, the college offers stipend for meritorious students coming from this part of land. The selected candidate will be provided initially Rs.12000 per month for a period of three years which is extended further based on the performance of the candidate. In addition to this, deserving candidates are provided free food and accommodation for the entire period of Ph.D.

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

https://psncet.ac.in/best_Practices.html

7.3 – Institutional Distinctiveness

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

The geographical location of the college is an extreme rural area situated in the southern part of Tamilnadu. Most of the students are first generation learners getting financial support to pursue their studies either from the government or the management. The establishment of this college is a great boon for them to do higher studies and come up in their life. The college has established distinctive courses like B.E. Marine Engineering, M.E. Cryogenic Engineering, M.E. Avionics which are not available in other engineering colleges in the southern districts of Tamilnadu. This gives the students of this area an opportunity to learn such unique courses. To fulfil the vision of the institution to provide an academic environment to learn, work and do research, the college has set up Centres of excellence in many areas of engineering. To mention, the college has set up Bosch Centre of Excellence in Industrial Automation in collaboration with Bosch, Germany at a cost of about Rs. 4 crores, the only engineering college having this facility in south Tamilnadu. The centre offers hands-on training programmes for the students in hydraulics, pneumatics, sensorics, PLC, mechatronics, robotics. The college has also established centres of excellence in National Instruments Inc., INTEL, Computational Fluid Dynamics (CFD). The college also provides several research schemes for the students to benefit with. Institutional stipendiary research scheme provides stipend for the Ph.D. students. Full time research students can avail Rs. 12000 p.m. till the completion of the Ph.D. work. In addition to this the college also offers seed money for the faculty to pursue research in the areas of their interest. A maximum of Rs. 1,00,000 can be availed as seed money for the period of 18 months under the scheme Faculty Research Initiatives in Science and Technology (FRIST). Several faculty members are benefitted under this scheme. In order to encourage students to take up innovative projects in their final year, the college offers financial support under the scheme Project Support Scheme for Students (PSSS). Students can avail a maximum of Rs.10000 under this scheme.

Provide the weblink of the institution

https://psncet.ac.in/Institution_Distinctiveness_Features.html

8.Future Plans of Actions for Next Academic Year

- To introduce outcome based curriculum from next academic year onwards
- To introduce PSNCET Learning Management System for providing e-learning
- NPTEL student chapter and establishing video centre for e-content development
- To improve Research activities of the departments