Yearly Status Report - 2018-2019

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.M.Sivapragash**
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	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr.C.Christopher Colombus**
Phone no/Alternate Phone no.	**04634279009**
Mobile no.	**9487181051**
Registered Email	**iqac@psncet.ac.in**
Alternate Email	**principal@psncet.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://psncet.ac.in/images/PDF/AQAR%20previous%20years%20link.pdf

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://psncet.ac.in/images/PDF/College_Calander_2018-2019.pdf

5. Accrediation Details

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

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	Date & Duration	Number of participants/ beneficiaries

IQAC		
15th IQAC Meeting	16-Jul-2018 1	15
workshops on IPR/Research Methodology/Patent filing /Writing Proposals.	03-Aug-2018 1	117
Enhancement of greenery in campus	04-Sep-2018 1	150
Students feedback & follow-up and corrective actionudit	25-Oct-2018 1	1200
NBA Audit	16-Nov-2018 3	3
16th IQAC Meeting	07-Jan-2019 1	16
Academic Quality Audit	13-Feb-2019 7	219
Students feedback & follow-up and corrective action	15-Mar-2019 1	1200
Internal Academic Audit	25-Mar-2019 3	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	0	NIL	2019 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	[View Uploaded File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

Outcome based Curriculum was introduced in Regulation 2018. Faculty members have been motivated and facilitated to attend faculty development training program in IITs and other reputed institutions. Elearning and online examination (in selected areas) was introduced. Orientation programs were conducted periodically on accreditation process for faculty members. NPTEL student chapter was started. Feedback mechanism at all levels was strengthened

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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	Achivements/Outcomes
Quality Management Group	ISO Internal Audit in the new Standard ISO: 9001: 2015 was Conducted at PSNCET on 18.09.2018 to 20.09.2018 and 18.03.2019 to 20.03.2019. ISO External Audit in the new Standard ISO: 9001: 2015 was Conducted at PSNCET on 07.06.2019. NBA visit for accreditation assessment during 16.11.2018 to 18.11.2018. DGS-CIP for B.E Marine Engineering during 26.11.2018 and 27.11.2018.
More number of students should be encouraged to undergo in-plant training / internship program / industrial projects.	In 2018 curriculum, it is made compulsory to undergo In-plant training and internship training program. So, all the students will be undergoing industrial training in leading industries during the semester vacation period.
Each department should organize Conference / workshops / FDP in every academic year.	International Conference on Recent Trends in Engineering, Technology and Management conducted by EEE department. National Conference on Advanced Engineering Material and Energy conducted by EEE department. Workshop on Aerodynamics conducted by Aeronautical Engineering. Seminar on Finite Element Analysis in aerospace applications, Composite Materials conducted by Aeronautical Engineering.
Community Development Centre	Welding, house wiring and plumbing

	training were imparted to inmates of Central Prison, Palayamkottai through Community Development Cell.
Club Activities	New clubs like Rotaract Club, Photography club, Eco club, Tamil Mandram, English Proficiency Club were started and various activities were conducted through these clubs.
Sports Activities	National level awards
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14. Whether AQAR was placed before statutory body ?　　　Yes

Name of Statutory Body	Meeting Date
Academic council	25-Jan-2020

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

Date of Visit	16-Nov-2018

16. Whether institutional data submitted to AISHE:　　　Yes

Year of Submission	2019
Date of Submission	10-Jan-2019

17. Does the Institution have Management Information System ?　　　Yes

If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	To improve the productivity in college administration, paperless documentation has been introduced. At present, the following administrative modules are in practice. •?Student Management •?Academic Management •?Automatic SMS for absentee, ecircular notifications •?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 mobile via SMS or 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	8	Marine Engineering	08/01/2019
BE	9	Mechanical and Automation Engineering	29/04/2019
BE	10	Mechanical Engineering	06/06/2019
BE	20	Applied Electronics	02/02/2019
BE	1	Aeronautical Engineering	30/01/2019
BE	2	Civil Engineering	29/04/2019
BE	3	Computer Science and Engineering	08/02/2019
BE	4	Electrical and Electronics Engineering	24/01/2019
BE	5	Electronics and Communication Engineering	02/02/2019
BE	6	Electronics and Instrumentation Engineering	15/04/2019
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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	01/06/2019	201003Fluid Mechanics and Machinery	01/06/2019
BE	Aeronautical Engineering	01/06/2019	201004Solid Mechanics	01/06/2019
BE	Aeronautical Engineering	01/06/2019	201005 Fundamentals of Aeronautics	01/06/2019
BE	Aeronautical Engineering	01/06/2019	201006Aircraft Materials and Processes	01/06/2019
BE	Aeronautical Engineering	01/06/2019	201101Fluid Mechanics Lab	01/06/2019
BE	Aeronautical	01/06/2019	201102 Solid	01/06/2019

Programme/Course	Programme Specialization	Dates of Introduction	Course	
	Engineering		Mechanics Thermal Engineering Lab	
BE	Aeronautical Engineering	01/06/2019	201008Aerodynamics - I	01/06/2019
BE	Aeronautical Engineering	01/06/2019	201009Aircraft Structures - I	01/06/2019
BE	Aeronautical Engineering	01/06/2019	201011Propulsion - I	01/06/2019
BE	Aeronautical Engineering	01/06/2019	201012Aircraft Systems and Instruments	01/06/2019

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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/Technical English/501001	01/09/2018
BE	Aeronautical Engineering/Elementary Mathematics for Engineers/501002	01/09/2018
BE	Aeronautical Engineering/Applied Physics I /501003	01/09/2018
BE	Aeronautical Engineering/Applied Chemistry I /501004	01/09/2018
BE	Aeronautical Engineering/Applied Physics & Chemistry Lab I/501101	01/09/2018
BE	Aeronautical Engineering/Business Communication and Presentation Skills/501007	01/09/2018
BE	Aeronautical Engineering/ Engineering Mathematics-I/501008	01/09/2018
BE	Aeronautical Engineering/Applied Physics-II/501009	01/09/2018
BE	Aeronautical Engineering/ Applied Chemistry-II/501010	01/09/2018

BE	Aeronautical Engineering/Applied Physics &Applied Chemistry Lab-II/501104	01/09/2018
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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	01/06/2018
ME	All programmes	01/06/2018
MBA	MBA	01/06/2018
MCA	MCA	01/06/2018

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
Basic Mechatronics	02/06/2018	14
Computational Fluid Dynamics Computational Fluid Dynamics	02/06/2018	15
Aeromodelling	02/06/2018	16
Fire Safety	02/06/2018	12
CATIA V5	06/08/2018	20
Inventor	06/08/2018	20
Labview	13/06/2018	28
Safe lifting Hoisting	26/06/2018	11
Maritime security awareness	26/06/2018	12
LNG Familiarisation	26/06/2018	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	Aeronautical Engineering	24
BE	Computer Science and Engineering	70
BE	Electrical and Electronics Engineering	29
BE	Electronics and Communication Engineering	20
BE	Information Technology	5
BE	Marine Engineering	21

BE	Mechanical and Automation Engineering	40
BE	Mechanical Engineering	60
MBA	MBA	43

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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

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. Students input about each course in each semester are collected through standard feedback form toward the end of the semester. Likewise, the criticism on teaching- learning is acquired through Course End Survey and Exit survey from passed out students. Both Course outcome assessments and Staff Assessment are being done through the students' input. Stockholders' inputs are examined and remedial measures are arranged during the IQAC gatherings in like manner. Parents input are gotten through the Parents Educators meeting, which is consistently led twice in a year. Feedback from stakeholders is obtained by IQAC and it is analyzed. The analysis report is reviewed in IQAC meeting.Action to be taken on the analysis report is finalized in the IQAC meeting.Normally, if the response is much below the target level special committee is formed to take corrective actions. The IQAC does the necessary follow-up action to attain the quality benchmarks and targets fixed by the IQAC for that academic year. To enrich curriculum and syllabus, feedback are obtained from stakeholders including industry. The major curriculum gaps identified are communicated to BOS/Academic council and if required to Initiatives are taken to enrich curriculum has been taken .The college Principal analyses 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 are analyzed 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 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
ME	Applied Electronics	18	2	3
BE	Mechanical Engineering	60	46	39
BE	Mechanical and Automation Engineering	60	30	29
BE	Marine Engineering	60	18	18
BE	Electronics and Instrumentation Engineering	30	7	7
BE	Electronics and Communication Engineering	90	23	22
BE	Electrical and Electronics Engineering	60	40	35
BE	Computer Science and Engineering	90	44	43
BE	Civil Engineering	60	34	33
BE	Aeronautical Engineering	90	45	45

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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
2018	1170	184	178	29	12

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	Numberof smart classrooms	E-resources and techniques used
219	188	9	60	1	8

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 the Institution, the young engineering students need guidance and counseling 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. The Institution has developed a mentor system for students' mentoring and counseling through Teacher Mentor, Class Advisor, HOD. Faculty and students of all semesters are divided into mentor-mentee groups. One faculty will be assigned for 15 to 20 students. They would look into assigned students' academic progress, discuss with tutor and faculty about their behavior in classroom/ labs and should observe any unusual behavioral patterns and incidents. 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 at least twice a month if need arises students can contact the Mentors at any time. 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 at least once in a month and get their inputs. 2. Review whether the mentoring system is properly implemented in the department. 3. Advice 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
1354	219	1:6

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	46	46	37

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
2018	Dr.G. Nallasivan	Professor	Best Reviewer Award from Asian Journal of Mathematics computer research

			journal
2018	Mr. V.P.Vignesh Kumar	Associate Professor	Excellent Professional Achievement Award at Kuala Lumpur International Convention on innovative scientific research strategies, Kuala Lumpur, Malaysia
2018	Dr. A.Bhuvanesh	Assistant Professor	reviewer in Circuits and Systems
2018	Dr.V. Jeyalakshmi	Professor	reviewer in Journal of Supercomputing
2018	Dr.X.Sahaya Shajan	Professor	External evaluator for career advancement of teaching faculty, Universiti Pendidikan Sultan Idris, Malaysia
2018	Dr.Ajith Bosco Raj	Professor	Excellent Professional Achievement Award at Kuala Lumpur International Convention on innovative scientific research strategies
2018	Dr. P.Selva kumar	Professor	Technical committee member, 7th Asian Joint workshop on thermnophysics and fluid Science
2018	Dr.A. Jeya chandran	Professor	Best faculty award from the society of innovatiuve educationally scientific research, Chennai
2018	Dr.C.Christopher Colombus	Professor	Excellent Professional Achievement Award at Kuala Lumpur International Convention on innovative scientific research strategies

2018	Mrs.C.Jeyanthi	Associate Professor	Innovative women professional Achievement awardat Kuala Lumpur International Convention on innovative scientific research strategies, Kuala Lumpur, Malaysia

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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	Aeronautical Engineering	I/I	30/11/2018	13/12/2018
BE	Civil Engineering	I/I	30/11/2018	13/12/2018
BE	Computer Science and Engineering	I/I	30/11/2018	13/12/2018
BE	Electrical and Electronics Engineering	I/I	30/11/2018	13/12/2018
BE	Electronics and Communication Engineering	I/I	30/11/2018	13/12/2018
BE	Electronics and Instrumentation Engineering	I/I	30/11/2018	13/12/2018
BE	Marine Engineering	I/I	30/11/2018	13/12/2018
BE	Mechanical Engineering	I/I	30/11/2018	13/12/2018
BE	Mechanical and Automation Engineering	I/I	30/11/2018	13/12/2018
ME	Applied Electronics	I/I	30/11/2018	13/12/2018

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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

0	1354	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://www.psncet.ac.in/images/PDF/LIST%20OF%20OUTCOME%20LINK.pdf

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
10	BE	Mechanical Engineering	64	62	97
09	BE	Mechanical and Automation Engineering	55	45	82
08	BE	Marine Engineering	46	39	85
07	BTech	Information Technology	8	8	100
06	BE	Electronics and Instrumentation Engg.	12	12	100
05	BE	Electronics and Communication Engg.	20	20	100
04	BE	Electrical and Electronics Engineering	48	46	96
03	BE	Computer Science and Engineering	41	41	100
02	BE	Civil Engineering	47	41	87
01	BE	Aeronautical Engineering	45	42	93

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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://www.psncet.ac.in/images/PDF/STUDENTS%20SATISFACTION%20SURVEY%202018-

[19.pdf](19.pdf)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

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

Yes
Name of the teacher getting seed money
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
Nill	NIL	NIL	Nill	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
Students Research Projects (Other than compulsory by the University)	180	PSN CET	200000	200000
Projects sponsored by the University	365	PSN CET	337000	337000

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0

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
One Day seminar on Composite Materials	Aeronautical Engineering	26/07/2018
Seminar on Geo-polymer technology	Civil Engineering	13/08/2018

Workshop on Seminar on Mobile App development	Computer Science and Engineering	17/09/2018
Workshop on Intellectual Property and the Creative Industries	Electrical and Electronics Engineering	03/08/2018
Robotics and Automation	Electronics and Communication Engineering	07/09/2018
Seminar on Mobile App development	Information Technology	17/09/2018
One Day seminar on Super charging in Automobiles	Mechanical and Automation Engineering	27/07/2018
Ship Propulsion System	Marine Engineering	08/01/2019
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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	Nill	0
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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
PSN Business Incubation Centre	PSNBIC	ThiruMalai Fibre Brush Industries	ThiruMalai Fibre Brush Industries, Veera sigamani	Palmyrah Fibre Brush	25/12/2018
PSN Business Incubation Centre	PSNBIC	Unnmalai Fibre Brush Industries	Unnmalai Fibre Brush Industries, Veera sigamani	Palmyrah Fibre Brush	25/12/2018
PSN Business Incubation Centre	PSNBIC	PSNBIC	VPR Naturals,Tirunelveli	Vegitable oils edible cakes	14/01/2019
PSN Business Incubation Centre	PSNBIC	Sri ThiruMalai Murugan Fibre Brush Industries	Sri ThiruMalai Murugan Fibre Brush Industries, Arunachala puram	Fibre Brush	26/01/2019
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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
Computer Science and Engineering	2

Mechanical Engineering	2
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)
International	Computer Science and Engineering	3	0.35
International	Electronics and Communication Engineering	3	1.8
International	Science and Humanities	19	2
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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
Aeronautical Engineering	14
Civil Engineering	12
Computer Science and Engineering	11
Electrical and Electronics Engineering	10
Electronics and Communication Engineering	11
Electronics and Instrumentation Engineering	7
Information Technology	2
Mechanical and Automation Engineering	10
Marine Engineering	13
Mechanical Engineering	10
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
NIL	Nill	0	Nill
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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
T-source inverter based sensorless speed	A.Bhuvanesh	Journal of Testing and Evaluation	2018	3	PSN College of Engineering and Technology	0

control for permanent magnet synchronous motor							
Proton Transport and Dielectric Properties of High Molecular Weight Polyvinylpyrrolidone (PVPK90) Based Solid Polymer Electrolytes for Portable Electrochemical Devices	T. Regu, C. Ambika, K.KaruppasamyHashikaaRajan, Dhanasekaran Vikraman, Ji-Hoon Jeon, Hyun-Seok Kim, T. Ajith Bosco Raj	Journal of Materials Science: Materials in Electronics	2019	2	PSN College of Engineering and Technology	3
Al2O3-incorporated proton-conducting solid polymer electrolytes for electrochemical devices: a proficient method to achieve high electrochemical performance	T Regu, C Ambika, K Karuppasamy, Ji-Hoon Jeon, Yen-Tae Jeong, DhanasekaranVikraman,, T Ajith Bosco Raj, Hyun-Seok Kim	Ionics	2019	2	PSN College of Engineering and Technology	4
Multi term based co-term frequency method for term weighting in information retrieval	Santhanakumar M, Christopher Columbus C, Jayapriya K	International Journal of Business information systems	2018	2	PSN College of Engineering and Technology	2
Effect of Dimethyl	C.Ambika, Dhanasekar	Solid State Ionics	2018	8	PSN College of Engineerin	3

					g and Technology	
Carbonate (DMC) on the Electr ochemical and Cycling Properties of Solid Polymer El ectrolytes (PVP-MSA) and its Ap plication for Proton Batteries	aniVikrama n, Ji YoungLee, T.Regu, T.Ajith Bosco Raj, K.Prasanna , Hyun-SeokKim					
Applicat ion of opt imization algorithms to generation expansion planning problem	A.Bhuvan esh	Journal of Intelli gent Fuzzy Systems	2018	3	PSN College of Engineerin g and Technology	4
Multistage multiobjec tive elect ricity generation expansion planning for Tamil Nadu consi dering least cost and minimal GHG emission	A.Bhuvan esh	Internat ional Tran sactions on Electrical Energy Systems	2018	3	PSN College of Engineerin g and Technology	7
Optimal Location I dentificat ion for SVC and TCSC to Enhance Voltage Stability with Economic C onsiderati on using Firefly Algorithm	S.Rajase karan	Current Signal Tra nsduction Therapy	2018	3	PSN College of Engineerin g and Technology	1
		IEEE Tra	2019	3	PSN	2

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
Influence of ultrasonic waves on viscosity of edible natural esters based liquid insulation	A.Narayani	nsactions on Dielectrics and Electrical Insulation				College of Engineering and Technology
Application of differential evolution algorithm and its variants for solving energy storage technologies integrated generation expansion planning	A.Bhuvanesh	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	2019	3		PSN College of Engineering and Technology

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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
Modelling and optimization of sintering processing parameters on hardness of Copper/ Graphenenanosheet composite using response surface methodology	N.VijayPonraj, S.C.Vettivel, A.Azhagurajan,X.Sahayashajan,P.Y.Nabhiraj	Metal Science and heat treatment, Janurary 2019	2019	0	0	PSN College of Engineering and Technology
Predicting thermal conductivity behaviour	P Selvakumar, RSS Raja,BJ Rubasingh,	Materials Research Express,6(9)	2019	0	0	PSN College of Engineering and Technology

of ZnO, TiO2 and ball milled TiO2/ZnO based nanofluids with ethylene glycol as base fluid						
Application of differential evolution algorithm and its variants for solving energy storage technologies integrated generation expansion planning	A.Bhuvanesh	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	2019	7	1	PSN College of Engineering and Technology
Influence of ultrasonic waves on viscosity of edible natural esters based liquid insulation	A.Narayani	IEEE Transactions on Dielectrics and Electrical Insulation	2019	108	2	PSN College of Engineering and Technology
Optimal Location Identification for SVC and TCSC to Enhance Voltage Stability with Economic Consideration using Firefly Algorithm	S.Rajasekaran	Current Signal Transduction Therapy	2018	17	1	PSN College of Engineering and Technology
Multistage	A.Bhuvanesh	International Tran	2018	40	5	PSN College of

multiobjective electricity generation expansion planning for Tamil Nadu considering least cost and minimal GHG emission		sactions on Electrical Energy Systems				Engineering and Technology
Application of optimization algorithms to generation expansion planning problem	A.Bhuvanesh	Journal of Intelligent Fuzzy Systems	2018	52	3	PSN College of Engineering and Technology
Multi term based co-term frequency method for term weighting in information retrieval	Santhanakumar M, Christopher Columbus C, Jayapriya K	International Journal of Business information systems	2018	2	2	PSN College of Engineering and Technology
Proton Transport and Dielectric Properties of High Molecular Weight Polyvinylpyrrolidone (PVPK90) Based Solid Polymer Electrolytes for Portable Electrochemical Devices	T.Ajithbosco raj	Journal of Materials Science: Materials in Electronics	2019	4	2	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	7	51	23	38
Presented papers	15	88	19	24
Resource persons	0	17	14	4
		View Uploaded File		

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Computer Science and Engineering	Billing Software	Kasi Graphics, Palayamkottai	19850
Computer Science and Engineering	Development of ERP	PS Nadar and sons Textiles-Nagercoil.	23500
Computer Science and Engineering	Account software	Gopuram finance and Chit funds-Arunachalapuram	18500
Electrical and Electronics Engineering	Energy Audit	Arun Group of Restaurants, Tirunelveli	19500
Electrical and Electronics Engineering	Energy Conservation Audit	S SJothi Plastics, Tirunelveli	18300
Marine Engineering	NDT CCS	Qatar Vinyl Company, DOHA	1100000
MBA	Asset assessment	Aryan Tex trade Karur	18000
MBA	Finance Management advisor	Thirumalai thirupathy finance private ltd - Arunachalapuram	18500
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Aeronautical Engineering	Training on TIG welding	Sri Krishna FURN industries	50000	25
Civil Engineering	Training on anti-corrosion	Builders and contractors of Tuticorin and Kanyakumari Districts	160000	40
Computer Science and Engineering	Training on Office automation	Johnsons Builders	100000	20

Electrical and Electronics Engineering	Electrical safety training	Madura Coats Pvt. Ltd	150000	30
Electronics and Communication Engineering	Training on PLC	E-dot technologies	60000	20
Mechanical and Automation Engineering	Pneumatics training	Rambal Industries	80000	20
Mechanical Engineering	Training on operations of robots and mechatronics	Robonetics Pvt Ltd	120000	40
Marine Engineering	Training on Rescue operation at sea	St. Antony marine services	100000	20
MBA	Training on marketing techniques	PS Nadar and sons Textiles	90000	30
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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
RTI acts	Tirunelvelli Bar association	6	47
Dengue awareness rally	Primary health centre, Munneerpallam	10	51
Supply of Nilavembu Kashayam	Govt siddha medical collge, Thirunelveli	15	375
Observance of Surgical Strike Day	Ministry of Youth Affairs and Sports	2	47
Blood donation camp	Govt. Hospital, Nagercoil and Rotary Club , Nagercoil.	12	146
Health Awareness Programme	Primary Health Centre,Pathamadai	6	134
NSS Casmp	Melseval Town Panchayat	10	134
Human rights awareness Programme	Tirunelvelli Bar association	6	68
AIDS / HIV awareness	ART Dept, Tirunelveli Govt.	4	167

| programme. | Medical College Hospital. | | |
| Maintaining Eco friendly environment by eradicating plastics | District environmental department | 8 | 179 |

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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
Food safety and hygiene Programme	Recognition	Hindu Nadar Uravinmurai Hr.Sec. School , Kadampoor	43
Govt welfare Schemes for Girl students	Recognition	Nadar committee Hr.Sec. School ,Ramanathapuram, Thirunelveli Dt.	187
Dengue Awareness Program	Recognition	Kanna Matriculation Higher Secondary School, Puliyankudi	55
Opportunities for Higher education	Recognition	Sivanthi Matriculation School, Cheranmahadevi	24
Social awareness rally on "BAN TO TOBACCO"	Certificate of Appreciation	The Panchayat Board,Gopalasamudram	75
Dengue Awareness Program	Recognition	Government Hr.sec.school,Veeraseekamani	82
Atal Tinkering Lab	Recognition	Government Hr.sec.school,Veeraseekamani	30
Swachh Bharat Awareness Programme	Recognition	Kanna Girls Higher Secondary School, Puliyankudi	28
Swachh Bharat Awareness Programme	Recognition	SP Modern High School Seval Patti, Virudhu Nagar Dt.	50
Renewable energy for Rural area	Recognition	Govt. Hr. Sec. School, Melapavoor, Thirunelveli Dt.	93

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

Name of the scheme	Organising unit/Agency/collaborating	Name of the activity	Number of teachers participated in such	Number of students participated in such

	agency		activites	activites
Women in Workforce	PSNCET/Thirunelveli Bar association	Meeting	2	58
World Hepatitis Day	Gopalasamuthram Panchayat	Rally	6	88
Swachh Bharat	Government Hr.sec.school,Veeraseekamani	Awareness Camp	2	15
Swachh Bharat	Kanna Matriculation Higher Secondary School,Puliyankudi	Awareness Camp	2	30
Rising awareness to higher education	Lions Club	Rally	4	120
Hygiene Awareness	Primary health center, Pathamadai	Health Awareness Programme	9	117
Hygiene Awareness	Medical College, Tirunelveli.	AIDS / HIV awareness programme	10	134
Swachh Bharat	Gopalasamudram Panchayat	Rally on Dengue Awareness Program	5	110
Aids Awareness	Gopalasamudram Panchayat	Aids Awareness	2	25
Aids Awareness	Town panchayat Melaseval	Aids Awareness	2	10
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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
Students collaborative project	156	self	90
Inplant Training	40	self	5
Personal Survival Techniques	47	self	3
Personal Safety Social Responsibilities	47	self	3
Elementary First	47	self	2

	Aid			
Fire Prevention Fire Fighting	47	self	3	
Security Training for Seafarer with Designated Security Duties	47	self	2	
Research Paper publications through collabrations	63	self	365	
Participation in Welding training and competition	4	self	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
On the job training	Agriculture crop monitoring using IOT	Gallant Info	18/12/2018	02/01/2019	2
On the job training	Health Monotoring system using IOT RFID	Gallant Info	18/12/2018	02/01/2019	2
On the job training	Secure smart Environment using IOT based on RFID	Gallant Info	18/12/2018	02/01/2019	2
On the job training	Transformer monitoring and error controlling system	Gallant Info	18/12/2018	02/01/2019	1
On the job training	Inplant Training	Team Infosoft	30/05/2019	01/06/2019	6
On the job training	Inplant Training	Iconix	20/05/2019	01/06/2019	15
On the job training	Inplant Training	ITech Academy	16/09/2018	18/09/2018	5

Nodal Centre	FDP	IIT-BOMBAY	30/10/2018	13/12/2018	4
Nodal Centre	FDP	IIT-BOMBAY	13/09/2018	18/10/2018	5
On the job training	Internship ,OJT	AEROZJET Pondicherry	11/12/2018	24/12/2018	15

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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
Aeroz Jet Pondicherry	20/08/2018	Project ,Internship Activities	5
Smart World Air Conditioning	12/09/2018	Project , Internship Activities	5
CaddCenter - Tirunelveli	18/09/2018	STAAD Pro training	40
Adaptive Media	24/08/2018	Job training	36
Iconix	15/11/2018	Job training	36
E Dot Technologies	20/08/2018	Carrier Development	10
Gallant Info	24/09/2018	Job training	10
IFY Technologies	17/10/2018	Inplant Training	40
Arun Group of Restaurants, Tirunelveli	20/08/2018	Internship, on-the-job training, project work	2

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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
25	20.54

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Newly Added

Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	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	2010.1	2008

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	58751	14894140	487	141804	59238	15035944
Reference Books	1758	706164	1	1795	1759	707959
Journals	33	100000	14	136630	47	236630
CD & Video	3640	546000	40	6000	3680	552000
Library Automation	1	0	1	250000	2	250000
Weeding (hard & soft)	0	0	128	5631	128	5631
Others(specify)	0	0	11	19320	11	19320

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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
All Faculty members	Moodle, Google Classroom	LMS	17/09/2018

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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	20	0	140	20	88	100	119
Added	0	0	0	0	0	0	0	0	0
Total	920	533	20	0	140	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
Centre for audio and video recording	https://www.psncet.ac.in/images/PDF/E-Content.pdf

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 incurredon maintenance of physical facilites
12	10.58	20	18.84

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)

PSN College of Engineering and Technology has established systems and procedures for maintaining both physical and academic supporting facilities. 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. Computers,hardware, software, website sections,UPS ,Printers, Scanners are maintained by a team of qualified technical staff appointed for the purpose. 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. The team has six electricians and two wiremen.Internal maintenance complaint register is maintained in the institution. If maintenance/service is identified then, required maintenance/service is registered in college maintenance register.All maintenance works related tolights, fans, switches, water pumping motors, college bells are done by them. First aid kits are kept in all major laboratories and department to meet any eventuality. Fire extinguishers of ISI mark of adequate capacity and numbers are provided in eye catching spots in the college buildings especially in all laboratories. Fire extinguishers are well maintained and checked periodically and refilling is done well before the due date. Stock register is maintained in all laboratories and audits are conducted by stock verification committee to check the availability and working of the equipment every year.Maintenance of laboratory and workshop equipments are taken care of by the respective lab-in charge and technicians. 1.Lab stock register is maintained and updated by the lab faculty in-charge and technicians. 2.Stock verification is verified and inspected by the Heads of the Department. 3.Old and outdated equipment, chemicals and instruments are discarded by following the standard Procedure. 4.Proper functioning of equipment in all laboratories is ensured in every semester by the lab technicians. 5.Breakage or repair if any, are reported to the Head of the department and Lab faculty in-charge and Appropriate measures are to be taken

for quick functioning of the equipment. 6.Floor cleaning of labs are done on a daily basis by sweepers. 7.Studentsare given proper instructions to work with the equipment efficiently. 8.The various college maintenance/services are, maintaining student's bench and table, staff table and chair, laboratory work benches, chairs, stools. College physical education department looks after the maintenance of sports equipment, gym, indoor and outdoor grounds as per the gaming rules. College Buses and other vehicles are maintained by Administrative Officer. College canteen is hygienically maintained to ensure good quality food by Administrative Officer. Librarian maintains the online issue registers to monitor the book circulation among students and staff. Books stock register is properly maintained and auditing of books is performed annually. Every year institution allocates department wise budget for the purchase of books and periodicals. College Buses and other vehicles are maintained by Administrative Officer.A 24x7 ambulance service is available in the college. The dispensary is headed by a Medical Officer are available to treat in-patients. Treatment in the dispensary is provided free of cost for the staff, students and nearby villagers.

https://www.psncet.ac.in/images/PDF/Procedures%20and%20Policy.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	PSN scholarship for economically weaker section and sports	399	11970000
Financial Support from Other Sources			
a) National	SC/ST	459	30295000
b)International	Nil	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 implemetation	Number of students enrolled	Agencies involved
Aptitude Training	08/01/2019	92	Internal
Bridge courses	01/08/2018	23	British Institute of Spoken English,Nagerkoil
Bridge Courses for I year	16/07/2018	286	Internal
Bridge courses for lateral entry students	01/08/2018	40	Internal
Career Guidance Programme / Soft skill development	26/11/2018	60	PSNCET Placement cell
Electric Vehicles	26/07/2018	19	Radian Management Group Pvt.

			Ltd,Tirunelveli
Energy audit and Energy management	26/07/2018	24	M.Kumarasamy College of Engineering, Thiruchenkode
Meditation	06/09/2018	36	The world community service centre
Mobile making and IOT	10/09/2018	26	ITC and IIT Bombay
Personality Development	10/01/2019	53	Sanjeev Infotech,Chennai
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2018	Career guidance	0	1087	4	176
2019	GATE-2019	0	293	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
14	14	5

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
12	430	162	12	14	14
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	2	B.E.	Computer Science and Engineering	PSNCET	M.E
View File					

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

Items	Number of students selected/ qualifying
Any Other	4

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

Activity	Level	Number of Participants
Basketball	Anna University, Chennai,Zone 18	96
College Day (Cultural fest)	Intra Collegiate	250
Sports Day	Intra Collegiate	354
Sports Events	Intra Collegiate	620
Cultural Events	Intra Collegiate	512
Cultural Events	Inter Collegiate	633
Atheletics	Inter Collegiate	6
Badminton	Inter Collegiate	10
Ball badminton	Inter Collegiate	13
Baskestball	Inter Collegiate	20

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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	FORM III	National	1	0	1503010	Y.Jeba percial
2018	FORM III	National	1	0	1724010	M.Veni
2018	FORM III	National	1	0	1701037	S.Yogesh waran
2018	FORM III	National	1	0	1704033	S.Singa Prabu
2018	FORM III	National	1	0	1509303	K.Vasanth
2018	I Prize	National	0	1	1608007	S.HariKr ishnan
2018	Runner	National	0	1	1608007	S.HariKr ishnan
2018	I Prize - Solo Dance	National	0	1	I Prize - Solo Dance	Ananth.G
2018	II Prize - Mimicry	National	0	1	1605021	Saravanan M

| 2018 | I Prize -Solo Song | National | 0 | 1 | 1605017 | Narayanan M |

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 to follow in the future. For this tobecome reality a college must provide opportunity for a student to acquire goodcommunication skills, organizing skills, team work and planning skills. Bearingthis in mind the college provides its students to acquire leadership qualitieswhile pursuing their degree programmes itself by making them to activelyinvolve and participate in various academic and administrative process of thecollege. PSNCET have student association for each branch along with facultywhich meets on a regular basis to discuss their areas of concern. Students from this association are given opportunities toorganize departmental programmeslike seminars, guest lectures,conferences and symposia. These programmes help the students to exposeand empower themselves to take a lead in various activities related to thecollege. Various activities are conducted through this association for these students throughout the year. Student's represent various academic and administrative committees. This includes Internal Quality Assurance Cell (IQAC), Students Grievancesand Redressal Committee, Anti-Ragging Committee etc. Class committee forms theback bone of the student leadership activities. The Class committee meeting isconducted every month to discuss the issues of the students and find solutionsto them.. They discuss the academic plan, syllabus coverage,difficulties in the subjects, test pattern, result analysis and otherdepartmental activities like symposiums, workshops, paper presentations, Miniprojects, etc. The students are free to suggest remedies for their issues andalso new and innovative ideas that can be implemented in their departments.The college also encourages to formstudents chapters of ISTE, IE,IET, CSI which will help the students to share their knowledge and skills withtheir faculty and also give them opportunity to present them in conferences andseminars. NSS student volunteers aim at developing student personality throughcommunity services. The NSS Program Coordinator and NSS Program Officermotivate the volunteers to serve the society through various activities likeblood donation, special camps, awareness programs, planting tree saplings,sanitation and hygiene, cleanliness etc. The college has technical and nontechnicalclubs for the students to actively participate and lead them. Codingclub, Photography club, Fine arts club are few to mention here. Women studentsare given representation in the Women Empowerment Cell. The Cell activelyinvolve to find solutions to the issues of the women and providing a congenialatmosphere for the women students for their stay and study in the campus.Students are also given representations in library committee, hostel messcommittee. Students can give their suggestions on requirement of books inlibrary 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

The alumnus plays a significant role in strengthening our institution. The main objective of PSNCET is to enroll all alumni as members of the association facilitating active participation in the appropriate activities, events, and initiatives of the Institute. The alumni meet is conducted once in a year, where the alumni from different branches of the undergraduate programs share

their views and give suggestions for the betterment of their junior students and institution/ department. Such meetings are mutually beneficial for the Institution and the alumni. Alumni are invited to an institution to deliver guest lectures and seminars to the students in their areas of expertise and motivate the young minds. The alumni also help the final year students of the various streams of engineering to get their project placements and summer internship in their companies and assist the students for placement through their reference. The General activities of the PSN Alumni Association include: 1. Creating, updating, and maintaining the PSN Alumni Database 2. Updating the alumni of PSN with the developmental activities of the college. 3. Assist the college in arranging talks from the alumni and other corporate sectors 4. Promoting students, alumni, and faculty interaction. Contribution to the development of the institution through non-financial means Mentorship: Alumni play an active role in voluntary programs like mentoring students in their areas of expertise for the students in securing suitable jobs by utilizing their rich experience of old students. Placements: The alumni network of the college is one of the biggest sources of placement opportunities to the students. Alumni can help students get placed at their respective organizations. Job opportunities are provided by the alumni in their companies. Opportunity for professional development:. Alumni from the corporate world, the industry can potentially create a stronger network as well as trust on the institute and in turn, will assist younger alumni from the institute to access opportunities in improving their careers and professionalism

5.4.2 – No. of registered Alumni:

2275

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

1735

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meeting was conducted on 26.01.2019

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

All decisions taken by the top management are descended to the faculty and administrative staff through the Principal, Directors, Deans and Heads ofdepartment. Principal is delegated to handle day to day academic mattersand take decisions. The Principal delegates the Directors, Deans and team offaculty members to monitor teaching learning process, academics, research anddevelopment, innovation, entrepreneurship development, internal revenuegeneration, faculty empowerment, student affairs, system automation, planningand development, institutional growth and appraisal, institutional promotion,exam related, industry institute partnership, alumni and stakeholders,admission, student discipline, library and college ambience. These aremonitored by forming several committees consisting of Heads of department andfaculty members. Director (Academics and Research) is delegated to look afterteaching learning process, academics, research and development, facultyempowerment. Director (Planning and Development) is delegated to look afterplanning and development, institutional growth and appraisal, institutionalpromotion, industry institute partnership. Director (Training and SkillDevelopment) is delegated to generate internal revenue by conducting skilldevelopment training programmes for the students through the Centres ofExcellence established in the college. Heads of department are authorized

tolook after student affairs, teaching learning process in consultation withDirector (Academics and Research), alumni and stakeholders, admission, studentdiscipline, internal exams and college ambience. Library committee is formedwith a senior faculty member as its coordinator to look after the libraryupdation, automation and related areas. All faculty members are delegated invarious statutory as well as non-statutory committees of the college. ISOcoordinator takes care of the quality system and is maintained through theManagement Representative and department coordinators. The Internal QualityAssurance Cell is authorized to frame the quality policy and measures for theacademic year and take action wherever and whenever there is inconsistency. TheIQAC is authorized to conduct Administrative and Academic Audit (AAA) everyyear and identify the strengths and weakness of the institution and shallsuggest ways and means to improve them. The participative management approachis practiced at different levels in the college and all the stakeholders areinvolved in the process of decision making based on collective knowledge. Thestatutory committees of the college are: Governing Council, Academic Council,Board of Studies and Finance Committee. All these committees haverepresentations from various levels of academic and administrative personnel ofthe college as well as stakeholders. The other committees include, CollegeStaff Council, Programme Assessment Committee, Department Advisory Committee,Class Committee, Department Staff Council, Internal Quality Assurance Cell,Parent Teacher Association, Alumni Association, and Students' WelfareAssociation etc. The participative management system enables the stakeholdersto participate in the decision making process of the college which helps toestablish better communication and human relationship. Placement is taken care of byPSNCET Placement Cell. It is dedicated tomould the students to cope with the changing demands of the corporate world andplace them in reputed companies based on the talents and capability ofstudents. The placementcell monitors the employment opportunities, cater to enhanceemployability of students and arrange on and off campus interviews.

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
Admission of Students	The policies regarding admission andfee structure are as per the norms ofAICTE / DOTE Chennai. Being a self financingcollege 65 percent of intake is admitted through single windowsystem conducted by Anna University,Chennai as per the reservation policyof Government of Tamil nadu. Remaining35 percent is filled by the management. The College ensures publicity throughcollege website, advertisements indaily newspapers, and educationalexhibitions.
Industry Interaction / Collaboration	• Fully functional Industry InstitutePartnership Cell (IIPC) • Guestlectures by experts from industry •Industrial visits made mandatory •Internships in industry is encouraged •MoUs with industry for internships andproject support • Project work

		ininindustry is encouraged
	Human Resource Management	• Formulating transparent facultyrecruitment policy and dissemination •Constitution of faculty and staffrecruitment committees • Organizingorientation and training programmes for newfaculty • Performance appraisal •Assisting IQAC in conducting FDP/refresher courses for faculty
	Examination and Evaluation	• Structured Exam cell for internal assessment and Chief Superintendent (Examinations) office for end semester examinations • 60 of 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 • A students has to answer 50 MCQ conducted through online for 10 internal Marks.
	Library, ICT and Physical Infrastructure / Instrumentation	• More than 60000 books available inthe library • E-journals subscribed inall disciplines • Digital library withNPTEL videos • The library is kept open24 hours and 7 days of a week •Barcoding facility • Class rooms withinternet facility and LCD projectors •Extensive play grounds • HT electricalline for the entire campus • Augmentedwith solar panels and wind energy • 100Mbps broadband internet facility •Nearly 900 computers available andupgraded periodically
	Research and Development	• Separate building for research and development •Student project support schemes with financial assistance •Stipend for research scholars •Financial support for presenting papers Ininternational conferences • On duty leave and partial financial assistance for presenting papers in national conferences • On duty leave and Partial financial assistance for attending FDP's /Seminar/workshops
	Curriculum Development	• Curriculum development is done through periodical feedback from students and faculty, • Curriculum highly embraced towards Outcome Based Education (OBE) in which Program Outcomes (POs) for each program offered by Institute and Course Outcomes (COs) for every course. Every department offers courses like professional ethics, elective courses along with open electives courses are designed in the curriculum to suit industry

	needs.The curriculum proposed by the department committee is discussed in the respective BOS and approved by the Academic Council. • Industrial visits, mini projects and internships are made mandatory for the students get industrial exposure and innovative thinking
Teaching and Learning	• fully functional Central library • Conduct of remedial and coaching classes for slow learners • Content beyond syllabus • Courses on communication skills • Continuous assessment and evaluation system • Monitoring the delivery of syllabus • Lab manuals and study materials for students •Active Learning methods are implemented to bring innovation with in classrooms. Continuous guest lecture ,technical seminars ,workshops , symposiums are arranged to enable learner centric atmosphere. These activities may include innovations not limited to, delivery, online assessment, skill courses, NPTEL Lectures, evaluation that lead to effective, efficient and engaging instruction.

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

E-governace area	Details
Planning and Development	• For each academic year, Academic Director prepares and uploads tentative detailed calendar for every semesters on the Institute website before commencement of the academic session. • The calendar highlights various activities and various events organized during the academic year. • The Institute also updates and make aware of the upcoming activities of the Institute and important events held in the Institution through the website, Email and Whatsapp
Administration	• All the operational procedures and forms are made available in the website • The college premises are monitored using CCTV cameras. • Feedback is collected from stakeholders through feedback forms • The Principal and Administrative office takes the responsibility of complete administration of academics, maintenance, transport, Infrastructure facilities, public relation, Hostel administration, sports and extracurricular activities with the

	help of various committees present in the institution
Finance and Accounts	• Tally software is used for accounting purposes. • Finance department takes care of finance and accounts • Students are encouraged to pay their admission fees through Bank. • Scholarship of students' tuition fees is credited to the college bank accounts directly. • Scholarship of students' Hostel mess fees is credited to the students' bank accounts directly
Student Admission and Support	The modules used for Student Admission and Support are: • Student Application • Roll No. Generation • Admission Quota • Fees Assignment based on the Category
Examination	Examination Process: • 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 Dispatch 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 Degree Report Generation

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
2018	Dr.A.Bhuvanesh	Electrical Machines II- FDP	–	1500
2018	Mr.S.Amosedin akaran	Electrical Machines II- FDP	–	1500
2018	Dr.P.Selvakumar	FDP on NBA process at NITTTR, Chennai	–	1500
2018	Dr.C.Selvamony	FDP on NBA process at NITTTR, Chennai	–	1500
2018	Mr.G.Kharmega	Foundation	–	500

	sundararaj	program in ICT for Education			
2018	Mr.C.Rajeshkumar	Foundation program in ICT for Education	-		500
2018	Mr.S.Rajasekaran	Foundation program in ICT for Education	-		500
2018	Mr.T.A.Rajaperumal	Foundation program in ICT for Education	-		500
2018	Mr.A.Saravanan	Foundation program in ICT for Education	-		500
2018	Ms.A.Narayani	Foundation program in ICT for Education	-		500

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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)
2018	Image Processing Tools Using Real Time Applications	-	30/07/2018	30/07/2018	9	Nill
2018	Image Processing Tools Using Real Time Applications	-	30/07/2018	30/07/2018	5	Nill
2018	-	Welding Techniques	01/06/2018	02/06/2018	Nill	8
2018	Induction program for new faculty members	-	13/06/2018	14/06/2018	45	Nill
2018	Workshop on Research Methodology	-	13/07/2018	13/07/2018	66	Nill
2018	Recent	-			19	Nill

	Trends in Mobile Networks		18/07/2018	18/07/2018		
2018	Recent Trents in Mobile Networks	-	18/07/2018	18/07/2018	17	Nill
2018	Awareness on NBA Acc reditation	-	20/07/2018	20/07/2018	95	Nill
2018	Image Processing Tools Using Real Time Appli cations	-	30/07/2018	30/07/2018	21	Nill

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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
AICTE approved Faculty Development Programme (FDP101x) on "FDP201x | Pedagogy for Online and Blended Teachin g-Learning Process",	1	13/09/2018	18/09/2018	5
AICTE approved Faculty Development Programme (FDP201x) on "Pedagogy for Online and Blended Teachin g-Learning Process"	1	30/10/2018	13/12/2018	14
AICTE Sponsored Two Week Faculty Development Programme on "Research Challenges in	1	20/05/2019	01/06/2019	14

Bio-signal and Image Processing for Medical and Health Sciences"				
AICTE-QIP sponsored one week STTP	2	18/03/2019	24/05/2019	7
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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
• Transport facilities • Staff Quarters • Medical and Maternity Leave • EPF • CL, VL, staff recreation club/sponsorship for workshop conference summer/winter school/incentive for consultancy/project seed money/subsidized cafeteria/play room for children of faculty/library utilization for children of faculty • Sponsorship for higher education • Financial support for treatement of major illness • Fee Concession for the wards of faculty and staff • Study Leave	• Transport facilities • Staff Quarters • Medical and Maternity Leave • EPF • CL, VL,subsidized cafeteria/play room for children of faculty/library utilization for children of faculty • Sponsorship for higher education • Financial support for treatement of major illness • Fee Concession for the wards of faculty and staff • Study Leave	• Fees concession for economically weaker students • Fee waiver scheme for meritorious students • Scholarships for Sports students • Financial support for students project • Free GATE coaching and full sponsorship for GATE registration fees

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 body for approval. At the end of the financial year, the income/expenditure details are audited by a chartered 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
[View File](#)		

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,NBA,DGS	Yes	ISO,IQAC
Administrative	Yes	ISO,NBA,DGS,Registered Chartered Accountant	Yes	IQAC

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

* Parents are informed about new curriculum, CBCS,and OBE system. • Parents are informed about Gate coaching and Aptitude training etc., • 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 "How to operate Fire extinguishers Office Automation" • Training on "Basic computer skill programme" • Training on "Equipment maintenance training"

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

Introduced Outcome Based Education (OBE) in Regulation 2018 curriculum Introduction of PSNCET Learning Management System Nodal Centre for Virtual lab with Amrita University Stakeholders feedback system is strengthened Societal activities through Community Development Centre of the college NTA Nodal centre

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
2018	15th IQAC Meeting	16/07/2018	16/07/2018	16/07/2018	15
2019	16th IQAC Meeting	07/01/2019	07/01/2019	07/01/2019	16
2018	NBA Audit	16/11/2018	16/11/2018	18/11/2018	3
2019	Academic Quality Audit	13/02/2019	13/02/2019	19/02/2019	219
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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
Awareness Program on Women harassment	20/06/2018	20/06/2018	172	0
Women Empowerment	14/07/2018	14/07/2018	25	14
Women and Development	24/08/2018	25/08/2018	125	0
Anti-Ragging	07/09/2018	07/09/2018	95	143
Gendered urban spaces and issues of citizenship	02/02/2019	03/02/2019	10	6
Stress Management	11/02/2019	11/02/2019	25	45
Women's Day Celebration	08/03/2019	08/03/2019	186	0
Abuse and Addictions	14/03/2019	14/03/2019	0	30

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
• About 3 of power utilization through Solar and wind energy • Energy conservation techniques have been initiated • Energy audit is being conducted • Rainwater harvesting • Plastic bags with thickness less than 40 micron are banned in the campus • Waste water recycling through STP

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
2018	1	1	16/07/2018	2	Civil engineering department assisted the local body authorities to Survey and to get PATTA ,CHITTA for Mela seval village people, Cheranmadevi	Land Issue	18
2018	1	1	18/08/2018	1	Coir Pith and Vermi Composting, coirpith briquetting in kalakadu,Tirunelveli	Decomposion /organic manure /roof garden/ agriculture Issue	22
2018	1	1	21/11/2018	1	Increase productivity through drip Irrigation of farm land in and around Ambasamuthiram	Agricultural issue	46
2019	1	1	11/02/2019	2	Awareness program for farmers around the college	Energy issues	30

| | | | | | area on solar energy utilization for agricultural applications | |

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Professional Ethics	04/06/2018	Professional Ethics is one of the course in the curriculum of the programmes offered by the college
Hand Book	02/07/2018	Handbook on code of contact for students is provided
Social Value Education	12/03/2019	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 for prisoners	05/11/2018	17/11/2018	60

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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 14.09.2018. • An awareness program on water conservation in men's hostel (Bharathi Hostel) was conducted by the eco club volunteers on 06.02.2019. • An awareness program on water conservation in men's hostel (Anchor Hostel) was conducted by the eco club volunteers on 08.02.2019. • An awareness program on water conservation in ladies hostel (Ganga and Narmatha Hostel) was conducted by the eco club volunteers on 12.02.2019. • Plastic bags with thickness less than 40 micron are banned in the campus • Waste water recycling through STP

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practices 1: Fast Track Scheme Remedial Classes for Students Objective: 1. To encourage and support slow learners and those who completed their schooling in vernacular language to cope with fast learning students 2. To provide opportunities to develop skills and spend more time in industry environment through conducting projects. Context: Students enrolled in the college are mostly first generation learners as well as completed their schooling in

regional/vernacular language. Understanding the subjects in English and reproducing them in examinations is a major challenge for these students during their entry stage. Unfamiliar environment, peer pressure, pressure to perform are also other issues confronting the young undergraduate students. These issues slow down the performance of students, especially during first year of study and they find it very difficult to cope up, if proper attention is not provided to them. At the same time there is a quite a good percentage of students who have completed their schooling in English medium or parents are well educated who can move fast in their academics. In order to meet these ends and maintain a balance in the classroom, the college offers remedial classes for the students who are slow in their academic progress. Fast track scheme provides opportunity for the students who perform well in the end semester examinations. The students who have CGPA more than 7.5 shall take up their final semester courses in advance and shall work in an industry to do project or internship during the entire eighth semester. The Practice: There has been a large disconnect between school and college education system. The students are joining the college after undergoing severe stress and pressure to score high marks during their 2 course. On the other hand, the students who complete their 2 in regional language have to take up their higher studies in English medium. This affects even brilliant students who have completed their schooling in regional language. This pressure is much higher for the students coming from rural areas. After the completion of admission process, a mentor is assigned for every 15 students. The mentor interact with the students and identify the issues faced by them. Based on the interaction, the mentor will segregate the students for remedial classes. The head of the department allot faculty to handle remedial classes after regular class hours or during weekends. Periodical evaluation is made by the mentor on the progress of each student by the way of interaction, feedback and test results. In case if the student show poor progress then he/she is referred for counselling, if necessary. Remedial classes are not mere subject teaching but also provide confidence and motivation to the students to come up in their studies and other activities. The students can meet their mentors at any time. Mentor-mentee meetings are conducted at regular frequencies to assess the progress of the students in studies and other activities. To give equal opportunity to fast learners, the college provides several avenues for the students in the form of innovation cell, clubs etc. to improve their talent and skills. At the end of the study, the college ensure that all the students equally perform. To give more importance for acquiring industrial skills, the last semester is meant for taking up project work. In order to spent the entire semester in the industry, students who have CGPA 7.5, shall take up their eight semester theory courses in advance and make them available to work in an industry for a period of six months to complete their final semester project work. Evidence of Success: 1. Significant improvement in the pass percentage. 2. Observable positive outcomes in interpersonal interactions, personality and academic performance of the students. 3. Builds a strong confidence among the rural students which make them to face challenges in their life. 4. Students who perform very badly in the entry of the programme have come out in flying colours at the exit of the programme. 5. Year wise increase in the number of students taking up fast track scheme. 6. Significant improvement in the number of students taking up industry projects. Problems encountered and Resources required: 1. Specialist human resources to cover the cohort of students who need intensive counselling to overcome specific issues. 2. Generation gap – faculty find difficult to understand the issues of modern youth takes more time to solve issues. 3. In some cases the issues have to be resolved within the semester to show better results – time duration may not be sufficient for the mentor/faculty Best Practices 2: Institutional Research Stipendiary Scheme Objective: 1. To identify and encourage meritorious and economically backward rural students, particularly first generation learners, to take up research programmes in

science and engineering in the research centres of the college by providing financial support. Context: In general, undergraduate and post graduate students are not much inspired to take up research as their career. Bharat Ratna Prof. C N R Rao observes that "Neither the quality nor quantity of publications coming out of India is adequate". So it is the responsibility of every higher education institution in India to motivate its students to take up research as their career. In this context PSNCET has committed itself to promote research in its campus. The Institution motivates and encourages the students to go for research. Bearing this in mind, the college has introduced various research schemes for the benefit of economically backward and meritorious students. Institution Research Stipendiary (IRS) scheme is one such thing which provides financial support for the research scholars to pursue their Ph.D. programme in the research centres of the college. The Practice: Students who have scored 80 and above consistently from Std. X to PG are eligible to apply for this scheme. Applications from eligible students are received through open advertisements in daily newspapers. A committee comprising experts (both internal and external members) is constituted to evaluate the applications and conduct an interview. Based on the performance of the students in the interview and academic records the committee selects the students for the scheme. The selected students will be provided a month stipend of Rs.8000/- (Science graduates) and Rs.10000/- (for Engineering graduates). The period of stipend is normally three years and may be extended depending the performance and research output of the student. Extension is given based on the evaluation report of the expert committee constituted by the Management for the same from time to time. The students joining in the scheme will be permitted to register as full time scholar in Anna University, Chennai only. The students selected under IRS are expected to publish at least three research papers in the Journals indexed under Annexure I of Anna University. Even if a student has published less number of research papers than expected, as above, he/she may be permitted to submit the thesis, if recommended by the expert committee constituted by the Management. If any of the IRS is selected as JRF in the projects sanctioned to our faculty by national funding agencies, then he/she will be relieved from IRS scheme to enable him/her to join as JRF in the funded project. The selected candidates shall avail hostel facilities available in the campus at free of cost. During last five years eleven students are benefitted by this scheme. A total amount of Rs.24,96,000/- (Rupees twenty four lakhs ninety six thousand) has been utilized for providing stipend for the research scholars. The status of research of the research scholars are given below: S.No. Name of the Scholar Research Centre Year of completion/Ongoing Remarks 1 C. Amuthambigai Physics 2017 - 2 S. Muthupoongodi Chemistry 2017 Received IRS for one year and later got selected as JRF in BRNS funded project 3 G. SahayaDennishBabu Physics 2018 - 4 D.S. Christy Physics 2018 - 5 V. Ramasubbu Physics 2020 Received IRS for two years and later got selected as PA in SERB funded project 6 A. Kuberan Chemistry Ongoing Received IRS for one year and later got selected as PA in DST funded project 7 P. Ramkumar Chemistry 2020 - 8 M. AniMelfaRoji ECE Ongoing - 9 S. Selvaprabhu Mechanical Ongoing - 10 J.S. Heric Mechanical Ongoing - 11 K. Suresh Mechanical Ongoing - Evidence of Success: 1. Six research scholars have successfully completed their Ph.D. degree till date and five are in the pipeline. 2. 26 research publications in SCI/Scopus journals of high impact (highest impact factor is 7.6). 3. Established a research culture in the campus and collaborative research with leading national and international universities and research institutes. Problems encountered and Resources required: 1. Due to the geographical location of the institution, sometimes the applications received for IRS scheme are not to the expected level of academic merit. 2. Most of the research scholars working in this scheme come from rural background. Therefore their communicative skills in English is not commanding. It has become essential to provide them training in English language to write manuscripts and presenting

their findings in seminars and conferences.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://www.psncet.ac.in/best_Practices1.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

PSN College of Engineering and Technology (PSNCET) was established in the year 2001 with 3 undergraduate engineering programmes in an extreme rural village, Melathediyoor, Tirunelveli district in Tamilnadu. Now the college offers 9 undergraduate and 8 postgraduate programmes in engineering. Besides, 5 departments are recognized as research centres by Anna University, Chennai. The college became autonomous in 2012 and accredited by NAAC. The college is keen and distinctive in the following areas: • Social Responsibility • Environmental Sustainability • Promotion of Research • Skill Development • Outreach and Extension Activities Social Responsibility: College offers higher education at minimal cost. The college has introduced fee waiver system for meritorious and economically poor people of this land. The selection for this scheme is based on marks scored by the students in their 2 examination. Environmental Sustainability: The college has more than 1000 plants and trees of different species making it a green campus. Gobar gas plants are installed in hostels. Sewage treatment plants are available for recycling waste water and are used for gardening and plantation purposes. The waste paper are converted into folders and files in the waste paper treatment plant available in the campus. Promotion of Research: The college has introduced several schemes for the promotion of research activities in the campus. • Faculty Research Initiatives in Science and Technology (FRIST): Faculty shall receive seed money of Rs.1,00,000 to take up minor research projects. https://psnresearch.ac.in/pdf/guidelines20frist.pdf • Institute Research Stipendiary Scheme (IRS): The students can register for Ph.D. and avail the stipend of Rs.10000/- per month for a minimum period of three years. https://psnresearch.ac.in/pdf/IRS.pdf • Project Support Scheme for Students (PSSS): This scheme is for UG and PG final year students. The maximum funding is Rs.10000/-. https://psnresearch.ac.in/pdf/guidelines20PSSS.pdf • External Research Support Scheme (ERS): Faculty members working in other institutions shall work in the research laboratories of the college for a period of six months. https://psnresearch.ac.in/pdf/ers.pdf • Support for Organizing National Conferences (SONaC): Financial support for organizing national level conferences is Rs.1,00,000 in this scheme. https://psnresearch.ac.in/pdf/guidelines20seminar.pdf Skill Development: To improve technical skills and make students industry ready, the college has established the following Centres of Excellence in the campus. • BOSCH Rexroth Centre of Excellence in Industry Automation • National Instruments Centre of Excellence • Product Design and Development Centre • FICE-INTELIntelligent Systems Lab • Patrick J. Hanratty Centre for Computer Aided Engineering • Solar Thermal Energy Lab was set up under AICTE MODROB • Composite Materials Lab • Heat Transfer Research Lab Outreach and Extension Activities: Community Development Cell offers special training programmes in electrical and plumbing for the inmates of Central Jail, Palayamkottai. So far 500 inmates are trained by the cell. Students and faculty are involved in various extension activities through NSS, YRC and RRC. Eye camps, blood donation camps, free health check up, health awareness programmes, women empowerment programmes, dissemination of government schemes to the public etc are organised periodically. The college participated in the Thamirabarani river cleaning programme organised by the district administration.

Provide the weblink of the institution
https://psncet.ac.in/Institution_Distinctiveness_Features.html

8.Future Plans of Actions for Next Academic Year

? At least one consultancy project is expected by each department. Faculty shall be encouraged to identify and analyze the industrial and social problems within nearby districts and offer feasible technical solutions for them. ? Signing of MoUs with industries and reputed academic institutions Encourage to sign more number of MoUs with the industries for the promotion of start-up industries/ setting up training for production centre inside our college campus through industrial institute partnership. Signing of MoUs with advanced research centre and higher learning institutes ? More research output in the form of publications and projects Research can be focused on industry and social needs and the same can be published on reputed journals/conferences. ? Establishing a strong industry-institute partnership Existing industry-institute partnership should be strengthened and new emerging area on latest technology has to be identified. ? More number of skill training programmes through centres of excellence in the campus as well as in other institutions. ? More Number of students should get eligible scores in competitive examinations like GATE, TOEFL,BEC,CAT, MAT, Group exams etc., Planned to impart training through external agencies and our own faculty. So that the students will be able to crack the above examinations.