



Yearly Status Report - 2019-2020

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.V.Manikandan
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.SP.Umayal																								
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%2018-19.pdf																								
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/HANDBOOK%20AND%20CALENDAR.pdf																								
5. Accrediation Details																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.07</td> <td>2011</td> <td>16-Sep-2011</td> <td>15-Sep-2016</td> </tr> <tr> <td>2</td> <td>B++</td> <td>2.76</td> <td>2017</td> <td>22-Feb-2017</td> <td>22-Feb-2022</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.07	2011	16-Sep-2011	15-Sep-2016	2	B++	2.76	2017	22-Feb-2017	22-Feb-2022
Cycle	Grade	CGPA	Year of Accrediation	Validity																					
				Period From	Period To																				
1	A	3.07	2011	16-Sep-2011	15-Sep-2016																				
2	B++	2.76	2017	22-Feb-2017	22-Feb-2022																				
6. Date of Establishment of IQAC	01-Oct-2011																								
7. Internal Quality Assurance System																									
Quality initiatives by IQAC during the year for promoting quality culture																									
Item /Title of the quality initiative by	Date & Duration		Number of participants/ beneficiaries																						

IQAC		
IQAC organized orientation programme on	22-Aug-2019 1	40
MOU as Mentee institute in MARGDARSHAN scheme with MEPCO SCHLENK Engineering college , Sivakasi	20-Nov-2019 1	1400
Internal Academic Audit	11-Nov-2019 5	350
IQAC organized one day workshop on	16-Sep-2020 1	16
Students feedback & follow-up and corrective action	16-Oct-2019 1	1200
Course file Audit	09-Jan-2020 3	150
DGS Audit	11-Feb-2020 1	180
ISO Audit	28-Feb-2020 1	1400
18th IQAC Meeting	24-Aug-2020 1	15
17th IQAC Meeting	24-Jan-2020 1	12

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
NIL	NIL	NIL	2020 NIL	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

Yes

website	
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)

To conduct external and internal academic audits for all programmes Faculty members have been motivated and facilitated to attend FDP /Seminars/workshop in reputed institutions and publish research articles in SCOPUS/SCI journals. To train the students in new technology as per industry needs Feedback mechanism at all levels was strengthened .To create awareness and improve ecological practices to conserve power and keep campus eco friendly.

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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
To ensure proper utilization of moodle, blackboard, LMS by all teaching faculty	All the faculty members have utilized moodle , blackboard, LMS and LCS
Sports Activities	National level awards
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.
Community Development Centre	Welding, house wiring and plumbing training were imparted to inmates of Central Prison, Palayamkottai through Community Development Cell
Quality Management Group	ISO Internal Audit in the new Standard ISO: 9001: 2015 was Conducted at PSNCET from 11th to 15th November 2019. ISO External Audit in the new Standard ISO: 9001: 2015 was Conducted at PSNCET on 28.2.2020. DGS-CIP for B.E Marine Engineering on 11.2.2020.
More number of students should be encouraged to undergo in-plant training / internship program / industrial projects.	In 2018 regulation curriculam industrial visit is made Mandatory for all second year students. So all second year students have undergone industrial visit. For third year students internship in industry is made mandatory in regulation 2018. Industrial projects are being undertaken by more number of students.

<p>Each department should organize Conference / FDP in every academic year.</p>	<p>National Conference on Recent trends in Engineering and technology NCRTEET2020 conducted by CSE department on 14,4.2020. National conference on Emerging trends in management, Engineering and technology conducted by MBA department on 27th Feb2020. Online FDP was organized in Strength of materials from 6.7.2020 to 10.7.2020 by MECH, Mech Auto, AERO, civil Engineering departments Online FDP was organized in Digital electronics and microprocessor by ECE,EEE,CSE departments from 26th to 30th june 2020.</p>
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<p>14. Whether AQAR was placed before statutory body ?</p>	<p>Yes</p>
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Name of Statutory Body	Meeting Date
academic council meeting	17-Apr-2021

<p>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</p>	<p>No</p>
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<p>16. Whether institutional data submitted to AISHE:</p>	<p>Yes</p>
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<p>Year of Submission</p>	<p>2020</p>
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<p>Date of Submission</p>	<p>01-Feb-2020</p>
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<p>17. Does the Institution have Management Information System ?</p>	<p>Yes</p>
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<p>If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)</p>	<p>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 information about their ward through mobile via SMS</p>
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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	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
BE	8	Marine Engineering	08/01/2019
BE	9	Mechanical and Automation Engineering	29/04/2019
BE	10	Mechanical Engineering	06/02/2019
BE	20	Applied Electronics	02/02/2019

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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	03/06/2019	501015-Aero Engineering Thermodynamics	03/06/2019
BE	Aeronautical Engineering	03/06/2019	501016-Fluid Mechanics And Machinery	03/06/2019
BE	Aeronautical Engineering	03/06/2019	501017-Solid Mechanics	03/06/2019
BE	Aeronautical Engineering	03/06/2019	501018-Fundamentals of Aeronautics	03/06/2019
BE	Aeronautical	03/06/2019		03/06/2019

	Engineering		501019-Aircraft Materials and Processes	
BE	Aeronautical Engineering	03/06/2019	501107-Fluid Mechanics and Machinery Lab	03/06/2019
BE	Aeronautical Engineering	03/06/2019	501108- Solid Mechanics & Thermal Engineering Lab	03/06/2019
BE	Aeronautical Engineering	03/06/2019	501109-Career skill Development Training-I	03/06/2019
BE	Aeronautical Engineering	03/06/2019	501021-Aerodynamics - I	03/06/2019
BE	Aeronautical Engineering	03/06/2019	501022-Aircraft Structures - I	03/06/2019
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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/501015-Aero Engineering Thermodynamics	03/06/2019
BE	Aeronautical Engineering/501016-Fluid Mechanics And Machinery	03/06/2019
BE	Aeronautical Engineering/501018-Fundamentals of Aeronautics	03/06/2019
BE	Aeronautical Engineering/501109-Career skill Development Training-I	03/06/2019
BE	Aeronautical Engineering/501022-Aircraft Structures - I	03/06/2019
BE	Aeronautical Engineering/501025-Aircraft Systems And Instruments	03/06/2019
BE	Aeronautical Engineering/501110-Aerodynamics Lab	03/06/2019
BE	Aeronautical Engineering/501113-Career skill Development Training-II	03/06/2019

BE	Aeronautical Engineering/502001 - Geology and Construction materials	03/06/2019
BE	Aeronautical Engineering/502002 -Concrete Technology	03/06/2019
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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	03/06/2019
ME	All programmes	03/06/2019
MBA	MBA	03/06/2019
MCA	MCA	03/06/2019

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
Hands on Practice in Computational Fluid Dynamics	23/01/2020	50
Certificate course on 3D Printing Technology	27/01/2020	30
Hands on practice in CATIA	10/02/2020	25
Hands on Practice in UAV Modeling	02/03/2020	30
Hands on Practice in Matlab Aerospace Blockset	19/08/2019	25
Certificate course on Libre Office	16/12/2019	30
Training in Google Sketch Up ModelingSoftware	19/08/2019	15
Certificate course Stadd Pro(Civil)	09/10/2019	13
Application of Software In Civil Engineering Construction	16/11/2019	16
Estimation And Current Practice In Civil Engineering	09/12/2019	18
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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
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		Projects / Internships
BE	Aeronautical Engineering	92
BE	Computer Science and Engineering	42
BE	Electrical and Electronics Engineering	50
BE	Electronics and Communication Engineering	24
BE	Information Technology	6
BE	Marine Engineering	72
BE	Mechanical and Automation Engineering	82
BE	Mechanical Engineering	54
MBA	MBA	36
MCA	MCA	6
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>Periodical feedback from students is obtained in the class committee meetings. The class committee meetings are chaired by the Head of the department with representatives from the class and faculty members. The feedback from students in class committee meetings are mainly focused on teaching learning process and content delivery methodologies. Appropriate corrective action will be taken by the Head of the department wherever necessary so that the students get the best out of the faculty. 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</p>

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	5	1
BE	Mechanical Engineering	60	65	60
BE	Mechanical and Automation Engineering	60	44	44
BE	Marine Engineering	60	22	20
BE	Electronics and Instrumentation Engineering	30	4	4
BE	Electronics and Communication Engineering	90	50	50
BE	Electrical and Electronics Engineering	60	47	45
BE	Computer Science and Engineering	90	72	71
BE	Civil Engineering	60	15	15
BE	Aeronautical Engineering	90	78	78

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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
2019	1201	124	122	27	22

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
171	164	9	60	1	7

[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 mentor ship. 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. Advise the mentors whenever necessary. 4. Initiating administrative action on a student, if necessary. 5. Keep the Head of the Institution informed periodically on the outcome of the mentoring system of his/her department.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1325	171	1:8

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
171	171	0	94	35

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
2020	Dr. M. Vargheese	Professor	Reviewer Excellence Award - ARCC Journal
2020	Dr. G. Nallasivan	Professor	Best Reviewer Award from Journal cancer and tumor international
2020	Dr. G. Nallasivan	Professor	Best Reviewer award from International Research Journal of Oncology
2020	Dr. G. Nallasivan	Professor	Best Reviewer award from Asian Journal of Research in Computer Science
2019	Dr. G. Nallasivan	Professor	Resource Person on Mandatory orientation programme - Leadership motivation and Personality development at Tamilnadu Veterinary and Animal Sciences University, Veterninary college and Research University, Tirunelveli
2020	Dr.A.Bhuvanesh	Assistant Professor	Recognized Reviewer in Energy, Applied Energy, Renewable Sustainable Energy Reviews, International Transactions on Electrical Energy Systems, International

			Journal of Communication Systems, Energy Systems, International Journal of Industrial Engine
2020	Dr.A.Bhuvanesh	Assistant Professor	Honorary Rosalind Membership of London Journal Press
2020	Dr.A.Bhuvanesh	Assistant Professor	Recognized member in International Society for Research and Development
2020	Dr.A.Bhuvanesh	Assistant Professor	Recognized member in International Association of Engineers
2020	Dr.S.Rajasekaran	Assistant Professor	Recognized Reviewer in Energy Systems
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	01	I/I	26/12/2019	10/01/2020
BE	02	I/I	26/12/2019	10/01/2020
BE	03	I/I	26/12/2019	10/01/2020
BE	04	I/I	26/12/2019	10/01/2020
BE	05	I/I	26/12/2019	10/01/2020
BE	06	I/I	26/12/2019	10/01/2020
BE	07	I/I	26/12/2019	10/01/2020
BE	08	I/I	26/12/2019	10/01/2020
BE	09	I/I	26/12/2019	10/01/2020
BE	10	I/I	26/12/2019	10/01/2020
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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	2677	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.psnct.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	61	60	98.3
9	BE	Mechanical and Automation Engineering	50	49	98
8	BE	Marine Engineering	20	20	100
7	BE	Information Technology	8	8	100
6	BE	Electronics and Instrumentation Engg.	7	7	100
5	BE	Electronics and Communication Engg.	28	28	100
4	BE	Electrical and Electronics Engineering	35	34	97
3	BE	Computer Science and Engineering	26	26	100
2	BE	Civil Engineering	38	38	100
1	BE	Aeronautical Engineering	31	31	100

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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.psnct.ac.in/images/PDF/STUDENTS%20SATISFACTION%20SURVEY%202019-20.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
Dr . P . Selvakumar
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	NIL	NIL	Nil	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
Projects sponsored by the University	365	PSNCET	511000	511000
Students Research Projects (Other than compulsory by the University)	180	PSNCET	45000	45000
Any Other (Specify)	730	AICTE	1715000	1715000
Any Other (Specify)	3	NSTEDB-DST	20000	Nil
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

1

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
Non Destructive Testing -(Work shop)	Mechanical Automation EngineeringMechanical	04/07/2019

	Automation Engineering Mechanical Automation Engineering	
The BS-VI Engine- (EXPO)	Mechanical Automation Engineering	13/03/2020
Career Guidance Program- (Guest Lecturer)	Mechanical Automation Engineering	23/01/2020
Seminar on Graphene and its Composites	MechanicalEngineering	12/09/2019
Seminar on Crygeonic Applications	MechanicalEngineering	11/12/2019
Seminar on Advancement in Casting Techniques	MechanicalEngineering	03/02/2020
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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	Nil	Nil
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
PSN Business Incubation Centre	PSNBIC	PSNBIC	SANA Agro industries,	Machinery for agricultures	14/07/2019
PSN Business Incubation Centre	PSNBIC	Vishal Precision, Tirunelveli	Arun Precision Limited, Tirunelveli	Printing machineries	23/11/2019
PSN Business Incubation Centre	PSNBIC	VI Technologies, Tirunelveli	PSNCET-VI Design	Smart Board Design	07/01/2020
PSN Business Incubation Centre	PSNBIC	iconix Software Solutions, Tirunelveli	PSNCET-Web design and Development	Web Development	07/06/2019
PSN Business Incubation Centre	PSNBIC	Suresh Electrical works	PSNCET-SEW Design	Electronic Choke	25/10/2019
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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
Electrical and Electronics	3

Engineering	
Computer Science Engineering	1
Electronics and Communication Engineering	6
Science and Humanities	3
Mechanical and Automation Engineering	1

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	Mechanical Engineering	3	1.3
International	Electrical and Electronics Engineering	6	1.07
International	Computer Science Engineering	5	1.01
International	Marine Engineering	3	0.02
National	Electronics and Communication Engineering	1	Nil
International	Electronics and Communication Engineering	1	Nil
International	Civil Engineering	2	0.4
International	Mechanical and Automation Engineering	8	1.6
International	Science and Humanities	3	3.3
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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	3
Civil Engineering	2
Computer Science and Engineering	3
Electrical and Electronics Engineering	11
Electronics and Communication Engineering	10
Mechanical and Automation Engineering	3
Marine Engineering	3
Mechanical Engineering	10
Science and Humanities	4

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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
EXERTION OF INTERVAL TYPE-2 FUZZY LOGIC DATA FUSION IN MULTI-SENSOR TO DETECT WILDFIRE ALIKE AMAZON	Filed	201941049624	03/12/2019

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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
A novel fabrication of super hydrophobic surfaces on aluminium substrate by picosecond pulsed laser	R. Samuel Sanjay Raja, P. Selvakumar and Dinesh Babu,	Journal of Mechanical Science and Technology	2020	3	Psn College of Engineering Technology	0
Predicting thermal conductivity behaviour of ZnO, TiO ₂ and ball milled TiO ₂ /ZnO based nanofluids with ethylene glycol as base fluid	Jacob Ruba singh, P S elvakumar and R Samuel Sanjay Raj	International Journal IOP Publishing Ltd, Materials Research Express	2020	2	Psn College of Engineering Technology	0
Study on preparation of Al-SiC metal matrix composites using powder	K.Bravilin Jiju, G.Selvakumar, S.Ramprakash	Materials Today: Proceedings	2020	0	Psn College of Engineering Technology	0

metallurgy Technique and its mechanical properties						
Generation Expansion Planning for India by Enhancing Renewable Integratio n	A.Bhuvan esh, K.Kar thikeyan, S.Amosedin akaran, S.Kannan	Journal of Green E ngineering	2020	0	Psn College of Engineerin g Technology	0
Generation Expansion Planning under Partially Deregulate d Environm ent using Firefly Algorithm for Sustaining Competitiv e Electric ity Market	S.Amosed inakaran, B.Deepa Lakshmi, A .Bhuvanesh , S.Kannan	Journal of Green E ngineering	2020	0	Psn College of Engineerin g Technology	0
Evaluation of Faults in a DC Gr id- Connected Solar Systems of Ships	Ganesan Karthikeya n, David Prince Winston, Ananthan Bhuvanesh, Kannan Gan gatharan	Marine Technology Society Journal	2020	0	Psn College of Engineerin g Technology	0
Applicat ion of Dif ferential Evolution Algorithm for Substation Expansion Planning Problem of Tamil Nadu - A Real- Time Inves tigation	Bhuvanesh A, Amose Dinakaran S, Allan Paul B, Mohamadu Mahinsha S, Karthick M	Lecture Notes in Electrical Engineerin g - Springer	2020	0	Psn College of Engineerin g Technology	0
A nature inspired o	Bhuvanesh	Advances in Automat	2020	0	Psn College of	0

Optimization algorithm for VLSI fixed-outline floor planning. in Analog Integrated Circuits and Signal Processing	A, Amose Dinakaran S, Allan Paul B, Mohamadu Mahinsha S, Karthick M	ion, Signal Processing, Instrumentation, and Control			Engineering Technology	
A nature inspired optimization algorithm for VLSI fixed-outline floor planning. in Analog Integrated Circuits and Signal Processing	M. Shunmugathammal, C. Christopher Columbus and S. Anand	Analog Integrated Circuits and Signal Processing, Springer Publishers	2020	0	PSN College of Engineering Technology	0
A Novel Btree Crossover-Based Simulated Annealing Algorithm for Combinatorial Optimization in VLSI Fixed-Outline Floor plans in Circuits, Systems, and Signal Processing	M. Shunmugathammal, C. Christopher Columbus and S. Anand	Circuit system signal process, Springer Publishers	2019	0	PSN College of Engineering Technology	0
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
A novel fabricatio	R. Samuel	Journal of	2020	13	3	PSN College of

n of super hydrophobic surfaces on aluminium substrate by picosecond pulsed laser	Sanjay Raja, P. Selvakumar and Dinesh Babu,	Mechanical Science and Technology				Engineering and Technology
Predicting thermal conductivity behaviour of ZnO, TiO ₂ and ball milled TiO ₂ /ZnO based nanofluids with ethylene glycol as base fluid	Jacob Ruba singh, P S elvakumar and R Samuel Sanjay Raja	International Journal IOP Publishing Ltd, Materials Research Express	2019	21	2	PSN College of Engineering and Technology
Study on preparation of Al-SiC metal matrix composites using powder metallurgy Technique and its mechanical properties	K.Bravilin Jiju, G.Selvakumar, S.Ramprakash	Materials Today: Proceedings	2020	18	0	PSN College of Engineering and Technology
Fabrication and Characterization of Graphene Based Supercapacitors for Efficient Energy Storage Applications	Bhuvanesh A, Amose Dinakaran S	International Journal of Scientific Research and Engineering Development	2020	15	0	PSN College of Engineering and Technology
Generation Expansion Planning for India	A.Bhuvanesh, K.Karthikeyan, S.Amosedinarakan,	Journal of Green Engineering	2020	7	0	PSN College of Engineering and Technology

by Enhancing Renewable Integratio n	S.Kannan					
Generation Expansion Planning under Partially Deregulate d Environm ent using Firefly Algorithm for Sustaining Competitiv e Electric ity Market	S.Amosed inakaran, B.Deepa Lakshmi, A .Bhuvanesh , S.Kannan	Journal of Green E ngineering	2020	7	0	PSN College of Engineerin g and Technology
Evaluation of Faults in a DC Gr id- Connected Solar Systems of Ships	Ganesan Karthikeya n, David Prince Winston, Ananthan Bhuvanesh, Kannan Gan gatharan	Marine Technology Society Journal	2020	40	0	PSN College of Engineerin g and Technology
Applicat ion of Dif ferential Evolution Algorithm for Substation Expansion Planning Problem of Tamil Nadu - A Real- Time Inves tigation	Bhuvanesh A, Amose Dinakaran S, Allan Paul B, Mohamadu Mahinsha S, Karthick M	Lecture Notes in Electrical Engineerin g - Springer	2020	26	0	PSN College of Engineerin g and Technology
A nature inspired o ptimizatio n algorithm for VLSI f ixed- outline floor planning. in Analog Integrated	M.Shunmu gathammal, C. Christo pher Columbus and S. Anand	Springer Publishers	2020	0	0	PSN College of Engineerin g and Technology

Circuits and Signal Processing						
A Novel Btree Cross-over-Based Simulated Annealing Algorithm for Combinatorial Optimization in VLSI Fixed-Floor plans in Circuits, Systems, and Signal Processing	M.Shunmugathammal, C. Christopher Columbus and S. Anand	Springer Publishers	2019	0	0	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	24	78	42	42

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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)
Mechanical Engineering	Wear analysis	VPR Naturals, Tirunelveli	8000
Electrical and Electronics Engineering	Electrical Safety Audit	SK paper industries, Tirunelveli	15700
Electrical and Electronics Engineering	Energy Audit	PSN Engineering College, Tirunelveli	10200
Computer Science and Engineering	Website Development	Robin Builders	20000
Computer Science and Engineering	Billing Software	Jebaz Tailoring Shop	16000
Marine Engineering	SASREF S/D 2019	SASREF REFINERIES WLC, JUBAIL INDUSTRIAL AREA 1, KSA	600000
Marine Engineering	TAKREER TAM 2020	TAKREER REFINERIES, RUWAIS	650000

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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
Mechanical Engineering	Training on hydraulics	Vishal Precision Pvt Ltd, coimbatore	30000	5
Electrical and Electronics Engineering	Measures for energy conservation	RVM Rubber industries, Tuticorin	20000	10
Computer Science and Engineering	Training on Tally	Vijay Auto Agencies, Trinelvei	4000	2
Electronics and Communication Engineering	Training on MATLAB	IFY Technologies, Tirunelveli	13500	9
Aeronautical Engineering	Training on safety measures in Automobile workshop	Karthick Motors Palayamkottai, Trinelvei	20000	10
Mechanical and Automation Engineering	Training on TIG Welding	Vignesh Steels, Thiyagarajanagar, Tirunelveli	30000	7
Civil Engineering	Cost-effective housing	Riswa construction, Tirunelveli	25000	25
Marine Engineering	Computer Applications in Design / Building of Ships Offshore Structures	Jothi Marine Engineering, Tuticorin	30000	20

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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
Awariness on Road Safety and Driving Rules	NSS-PSNCET MECH Association with Adhi Maruthi Driving School Tirunelveli	4	35
Energy Conservation Rally	NSS-PSNCET EEE Association	6	119

	Padmaneri Village Panchayat		
Electrical Safety Awareness Campaign	YRC-PSNCET EEE Association Ragava Constructions, Veeravanallur	2	28
Social Awareness Programme - Rally	YRC-PSNCET CSE Association Field Outreach Bureau, Tirunelveli	7	109
Voters awareness Programme @ PSNCET Campus	YRC-PSNCET CSE Association Rotary Club of Tirunelveli Suburbs	4	98
Awareness about KAVALAN APP to girl students	YRC-PSNCET CSE Association Tamilnadu Police, Tirunelveli	4	65
Issue of Dengue awareness notice	NSS-PSNCET MARINE Association PHC, Munnerpallam	2	39
Thamirabarani River cleaning	NSS-PSNCET MARINE Association District Collector office	6	59
Supply of Nilavembu Kasayam	NSS-PSNCET MARINE Association Govt. Hr .Sec. School, Melaseval.	2	38
Miyawaki Method of Creating Forest. -Demonstration	NSS-PSNCET Gopalamuthram Town Panchayathu, Tirunelveli	2	20
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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
Awareness on Road Safety and Driving Rules	Recognition	Adhi Maruthi Driving School Tirunelveli	35
Corona Awareness programme	Recognition	Gopalamuthram Town Panchayathu	25
Social awareness rally on "Energy Conservation"	Certificate of Appreciation	The Panchayat Board, Padmaneri Village, Tirunelveli	119
The Right of Children awareness program	Certificate of Appreciation	St. Johns Higher Secondary School, Veeravanallur, Tirunelveli	30

Social Awareness Programme - Rally	Recognition	Field Outreach Bureau, Tirunelveli	109
Voters awareness Programme @ PSNCET Campus	Recognition	Rotary Club of Tirunelveli Suburbs,	98
Awareness about KAVALAN APP to girl students	Recognition	Tamilnadu Police, Tirunelveli	65
Thamirabarani River Cleaning	Certificate of Appreciation	Collector office, Tirunelveli.	59
Supply of Nilavembu Kasayam	Certificate of Appreciation	Govt.Hr.Sec.School, Melaseval. Tirunelveli	38
Awareness program on Usage of Social Media	Recognition	Christhu Raja .HSS, Tirunelveli	35
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat -Road Safety	Government Hr.sec.school, Veeraseekamani,	Road Safety awareness meeting and rally	2	23
Swachh Bharat - Drug Abuse	Psn Institute of Technology Science	Drug abuse meeting and Rally	2	46
Swachh Bharat -Aids Awareness	Panchayat Union Melaseval, Tirunelveli	Aids Awareness	2	30
Swachh Bharat -Dengue Awareness	Gopalamudram Panchayat, Tirunelveli	Dengue Awareness	2	27
Swachh Bharath - Health Awareness	Padhamadai Panchayat. Tirunelveli	Aids Awareness rally	2	47
Swachh Bharath - Clean my city	Melaseval Panchayat. Tirunelveli	Awareness programme in Proper garbage disposal	3	65
Swachh Bharath - Environment Enhancement	Padmaneri Village Panchayat. Tirunelveli	Reduce your carbon footprint	4	119
Gener Issue - Empower Women	Government Higher	violence against women	2	38

	Secondary School, Veeravanallur			
Swachh Bharat-Clean India	Field Outreach Bureau, Tirunelveli	Clean India Awareness - Rally	8	116
Voters awareness Programme @ PSNCET Campus	Rotary Club of Tirunelveli Suburbs	Awarness program on voting	4	98
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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	189	Self	90
Inplant Training	88	Self	10
Personal Survival Techniques	20	Self	3
Personal Safety Social Responsibilities	20	Self	3
Elementary First Aid	20	Self	2
Fire Prevention Fire Fighting	20	Self	3
Security Training for Seafarer with Designated Security Duties	20	Self	2
Research Paper publications through collaborations	23	Self	365
Faculty exchange - Sathya Infotech	4	Self	6
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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
Project	Failure of	The	06/12/2019	05/02/2020	2

work	rotary equipments in sulphuric acid plant	Fertilisers and Chemicals Travancore Limited			
Project work	Productivity improvement automation tyre manufacturing machine	ATC tyre, Limited, Gangaikondan	06/12/2019	05/02/2020	2
Project work	Condition monitoring of rotary equipments in sulphuric acid plant	The Fertilisers and Chemicals Travancore Limited	05/10/2019	05/02/2020	2
Project work	Wear prediction of rotary machine arm	Dr.VPROil mill, Tirunelveli	05/10/2019	05/02/2020	1
Project work	Speed calculation of chekku machine	Dr.VPROil mill, Tirunelveli	05/10/2019	05/02/2020	1
Project work	Improving the labour productivity through work study	Dr.VPROil mill, Tirunelveli	05/10/2019	05/02/2020	2
Project work	Hybrid flow shop scheduling	Dr.VPROil mill, Tirunelveli	05/10/2019	05/02/2020	1
Project work	Preparation of powder metallurgy die set for cylindrical samples	EDCAS TOOLS and Dies, Coimbatore	05/10/2019	05/02/2020	1
Project work	Preparation of powder metallurgy die set for preparing rectangular samples	EDCAS TOOLS and Dies, Coimbatore	05/10/2019	05/02/2020	2
Project work	Design of mould for pet bottle making	EDCAS TOOLS and Dies, Coimbatore	05/10/2019	05/02/2020	1

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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
Penta CAD Tirunelveli	03/03/2020	Training and Project work	60
Dr.VPR oil mill. Tirunelveli	05/08/2019	In plant training, Internship	11
Edcas Tools and dies, Coimbatore	07/09/2019	In plant training, Internship	4
Mallika Wire Tech, Coimbatore	09/09/2019	In plant training, Internship	4
UNIQ Technologie, Tirunelveli	12/08/2019	Project, Internship Activities	8
Surabi Windfarms Technologies Private Limited, Nagarkovil	10/12/2019	Project, Internship Activities	1
Foundation for CSR@Redington-Smart Learning Centre, Alwarkurichi	12/09/2020	Project, Internship Activities	8
VISANSOFT, Tuticorin	04/02/2020	Project work,on the job training,Internship and placement	98
ADAPTIVE MEDI, Tirunelveli	26/08/2019	Project work,on the job training,Internship and placement	4
iconix Software Solution, Tirunelveli	18/11/2019	Project work,on the job training,Internship and placement	98

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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	25.2

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Video Centre	Existing
Classrooms with Wi-Fi OR LAN	Existing

Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Newly Added
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
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4.2 – Library as a Learning Resource

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

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

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	59238	15035944	1854	1161802	61092	16197746
Reference Books	1759	707959	324	264060	2083	972019
e-Books	0	0	473	653981	473	653981
Journals	47	236630	240	720000	287	956630
e-Journals	4	29540	5	1266951	9	1296491
Digital Database	5	0	0	0	5	0
CD & Video	3790	568500	425	63750	4215	632250
Library Automation	1	250000	1	100000	2	350000
Weeding (hard & soft)	128	4760	270	18900	398	23660
Others (specify)	11	11300	0	0	11	11300
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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	16/09/2019
View File			

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	0
Added	0	0	0	0	0	0	0	0	0
Total	920	533	20	0	140	20	88	100	0

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://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 incurred on maintenance of physical facilities
30	29.94	25	24.58

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 to lights, 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.Students are 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://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	479	14370000
Financial Support from Other Sources			
a) National	SC/ST/SCC Scholarship, BC/MBC Scholarship, BEEDI Scholarship, First Graduate, Maritime Studies (Women Scholarship)	1033	39291355
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 implementation	Number of students enrolled	Agencies involved
Placement Special Training Sessions (III year)	11/03/2020	40	PSNCET-PLACEMENT CELL

Placement Special Training Sessions (IV year)	13/03/2020	60	PSNCET-PLACEMENT CELL
Yoga Class for staff and students	29/11/2019	72	Mano Yoga Therapy Center, Melapalayam
Aptitude Training class	10/01/2020	79	Radiant Acedamy, Tirunelveli
Career Guidance Programe	26/02/2020	40	Alumni of PSNCET
Face the challenge - MOCK Interview/ Group discussion	09/03/2020	55	JK TYRES, NAMAKKAL
Technical Writing Skills	13/03/2020	39	Internal
Bridge courses for lateral entry students	16/08/2019	6	Internal
Face the challenge - MOCK Interview/ Group discussion	11/02/2020	23	Internal and Mr.G.Ananth Wind Care Pvt. Ltd, Bangalore (Alumin)
Aptitude Training	14/03/2020	24	Internal
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2020	GATE Coaching	61	Nil	0	Nil
2020	Placement Special Training Sessions (II year)	Nil	39	Nil	0
2020	Placement Special Training Sessions (III year)	Nil	40	Nil	0
2020	Placement Special Training Sessions (IV year)	Nil	60	Nil	26

2020	Aptitude Training class	Nil	79	Nil	26
2020	Guidance to Bank Exam	61	Nil	0	Nil
2020	Career guidance	Nil	105	Nil	29
2019	GATE-2019	35	Nil	0	Nil
2020	Career Guidance	Nil	98	Nil	10
2020	GATE-2020	26	Nil	0	Nil
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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
1	1	5

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
11	327	147	1	10	7
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	7	B.E.	Mechanical and automobile Engineering	PSNCET	MBA & ME
2019	2	B.E.	Civil Engineering	PSNCET	ME
2019	2	B.E.	Civil Engineering	PSNCET	MBA
2019	2	B.E.	Civil Engineering	PSNCET	MBA
2019	9	B.E.	Aeronautical Engineering	PSNCET	M.E
2019	1	B.E.	Electronics and Communication	PSNCET	MBA

			Engineering		
2019	2	B.E.	Electronics and Communication Engineering	Kottayam Institute of Technology	M.E
2019	3	B.E.	Electronics and Communication Engineering	Lord Jegannath College of Engineering & Technology	M.E
2019	5	B.E.	Computer Science and Engineering	PSNCET	M.Tech
2019	12	B.E.	Computer Science and Engineering	PSNCET	M.E
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	2
Any Other	1
View File	

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

Activity	Level	Number of Participants
Football	Inter Collegiate	16
Cricket	Inter Collegiate	16
Basketball	Inter Collegiate	24
Atheletics	Inter Collegiate	30
Cultural Events	Inter Collegiate	633
Cultural Events	Intra Collegiate	512
Sports Events	Intra Collegiate	620
Sports Day	Intra Collegiate	354
College Day (Cultural fest)	Intra Collegiate	250
Hockey	Zone 18	115
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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
2019	First	National	Nil	1	1704002	Adil A

						Shaj
2019	Winner	National	1	Nil	1604010	Jegan. A
2019	Winner	National	1	Nil	1604007	Dinesh. J
2019	Winner	National	1	Nil	1602032	Sathish. S
2019	Winner	National	1	Nil	1704041	Velmurugan
2019	Winner	National	1	Nil	1704023	Marieswa ran. P
2019	Winner	National	1	Nil	1704033	Singa Prabhu
2019	Winner	National	1	Nil	1704014	Guhan Raj. M
2019	Winner	National	1	Nil	1704021	Karthick. S
2019	Winner	National	1	Nil	1902005	Boopathi Raj.M
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The four years of stay in a college must make a student to become an endeavoring leader and a role model for others to follow in the future. For this to become reality a college must provide opportunity for a student to acquire good communication skills, organizing skills, team work and planning skills. Bearing this in mind the college provides its students to acquire leadership qualities while pursuing their degree programmes itself by making them to actively involve and participate in various academic and administrative process of the college. PSNCET have student association for each branch along with faculty which meets on a regular basis to discuss their areas of concern. Students from this association are given opportunities to organize departmental programmes like seminars, guest lectures, conferences and symposium. These programmes help the students to expose and empower themselves to take a lead in various activities related to the college. 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 Grievances and Redressal Committee, Anti-Ragging Committee etc. Class committee forms the back bone of the student leadership activities. The Class committee meeting is conducted every month to discuss the issues of the students and find solutions to them.. They discuss the academic plan, syllabus coverage, difficulties in the subjects, test pattern, result analysis and other departmental activities like symposiums, workshops, paper presentations, Mini projects, etc. The students are free to suggest remedies for their issues and also new and innovative ideas that can be implemented in their departments. The college also encourages to form students chapters of ISTE, IE, IET, CSI which will help the students to share their knowledge and skills with their faculty and also give them opportunity to present them in conferences and seminars. NSS student volunteers aim at developing student personality through community services. The NSS Program Coordinator and NSS Program Officer motivate the volunteers to serve the society through various activities like blood donation, special camps,

awareness programs, planting tree saplings, sanitation and hygiene, cleanliness etc. The college has technical and non technical clubs for the students to actively participate and lead them. Coding club, Photography club, Fine arts club are few to mention here. Women students are given representation in the Women Empowerment Cell. The Cell actively involve to find solutions to the issues of the women and providing a congenial atmosphere for the women students for their stay and study in the campus. Students are also given representations in library committee, hostel mess committee. Students can give their suggestions on requirement of books in library as well as to fulfill the needs of students in the hostel and mess.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

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

Mentor-ship: 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:

3113

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

137000

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meeting was conducted on 25.12.2019

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 of department. Principal is delegated to handle day to day academic matter and take decisions. The Principal delegates the Directors, Deans and team of faculty members to monitor teaching learning process, academics, research and development, innovation, entrepreneurship development, internal revenue generation, faculty empowerment, student affairs, system automation, planning and development, institutional growth and appraisal, institutional promotion, exam related, industry institute partnership, alumni and stakeholders, admission, student discipline, library and college ambiance. These are monitored by forming several committees consisting of Heads of department and faculty members. Director (Academics and Research) is delegated to look after teaching learning process, academics, research and development, faculty empowerment. Director (Planning and Development) is delegated to look after planning and development, institutional growth and appraisal, institutional promotion, industry institute partnership. Director (Training and Skill Development) is delegated to generate internal revenue by conducting skill development training programmes for the students through the Centers of Excellence established in the college. Heads of department are authorized to look after student affairs, teaching learning process in consultation with Director (Academics and Research), alumni and stakeholders, admission, student discipline, internal exams and college ambiance. Library committee is formed with a senior faculty member as its coordinator to look after the liberalization, automation and related areas. All faculty members are delegated in various statutory as well as non-statutory committees of the college. ISO coordinator takes care of the quality system and is maintained through the Management Representative and department coordinators. The Internal Quality Assurance Cell is authorized to frame the quality policy and measures for the academic year and take action wherever and whenever there is inconsistency. The IQAC is authorized to conduct Administrative and Academic Audit (AAA) every year and identify the strengths and weakness of the institution and shall suggest ways and means to improve them. The participative management approach is practiced at different levels in the college and all the stakeholders are involved in the process of decision making based on collective knowledge. The statutory committees of the college are: Governing Council, Academic Council, Board of Studies and Finance Committee. All these committees have representations from various levels of academic and administrative personnel of the college as well as stakeholders. The other committees include, College Staff Council, Programme Assessment Committee, Department Advisory Committee, Class Committee, Department Staff Council, Internal Quality Assurance Cell, Parent Teacher Association, Alumni Association, and Students' Welfare Association etc. The participative management system enables the stakeholders to participate in the decision making process of the college which helps to establish better communication and human relationship. Placement is taken care of by PSNCET Placement Cell. It is dedicated to mold the students to cope with the changing demands of the corporate world and place them in reputed companies based on the talents and capability of students. The placement cell monitors the employment opportunities, cater to enhance employ-ability 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
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Human Resource Management	<ul style="list-style-type: none"> • Formulating transparent faculty recruitment policy and dissemination • Constitution of faculty and staff recruitment committees • Organizing orientation and training programmes for new faculty • Performance appraisal • Assisting IQAC in conducting FDP/refresher courses for faculty
Industry Interaction / Collaboration	<ul style="list-style-type: none"> • Fully functional Industry Institute Partnership Cell (IIPC) • Guest lectures by experts from industry • Industrial visits made mandatory • Internships in industry is encouraged • MoUs with industry for internships and project support • Project work in industry is encouraged
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"> • More than 60000 books available in the library • E-journals subscribed in all disciplines • Digital library with NPTEL videos • The library is kept open 24 hours and 7 days of a week • Barcoding facility • Class rooms with internet facility and LCD projectors • Extensive play grounds • HT electric line for the entire campus • Augmented with solar panels and wind energy • 100Mbps broadband internet facility • Nearly 900 computers available and upgraded periodically
Research and Development	<ul style="list-style-type: none"> • Separate building for research and development • Student project support schemes with financial assistance • Stipend for research scholars • Financial support for presenting papers in international conferences • On duty leave and partial financial assistance for presenting papers in national conferences • On duty leave and Partial financial assistance for attending FDP's / Seminar/workshops
Curriculum Development	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.
Examination and Evaluation	<ul style="list-style-type: none"> • Structured Exam cell for internal assessment and Chief Superintendent (Examinations) office for end semester examinations • 60 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.
Admission of Students	The policies regarding admission and fee structure are as per the norms of AICTE / DOTE Chennai. Being a self financing college 65 percent of intake is admitted through single window system conducted by Anna University, Chennai as per the reservation policy of Government of Tamil nadu. Remaining 35 percent is filled by the management. The College ensures publicity through college website, advertisements in daily newspapers, and educational exhibitions.

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

E-governance area	Details
Planning and Development	<ul style="list-style-type: none"> • 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

	<p>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</p>
Administration	<p>All the operational procedures and forms are made available in the website</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p>The modules used for Student Admission and Support are:</p> <ul style="list-style-type: none"> • Student Application • Roll No. Generation • Admission Quota • Fees Assignment based on the Category
Examination	<p>Examination Process:</p> <ul style="list-style-type: none"> • Student Exam Application Regular, Arrear and Revaluation • Exam Fee Collection, Examination TimeTable Hall Ticket Generation • Examination Attendance Generation • Conducting Examination • Checklist Generation Flip and Foil Cover Generation Attendance Verification 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
2019	Mr K Suresh	Short termTraining Programme - Nanofluids @ Lord Jaganath Engineering College, Nagerkoil	Nill	1000
2019	Mr S.Paramasivan	Newer Material challenges and optimization techniques for Engineering Application@ Syed ammal Engineering college, Ramanathapuram	Nill	400
2019	Mr S.Paramasivan	NBA PROCESS @ NITTR, Chennai	Nill	1200
2019	Mr S.Mareeswaran	Outcome Based Education @ Mepco schlenk Engineering col lege, Sivakasi	Nill	1500
2019	Mr. K.Sudhakar	Workshop on 3D printing at Kottayam Institute of Technology and Science	Nill	1600
2019	Mr P.Mathanpaul	Workshop on 3D printing at Kottayam Institute of Technology and Science	Nill	1600
2019	Mr V Ramkumar	Short termTraining Programme - Nanofluids@ Lord Jaganath Engineering College, Nagerkoil	Nill	1000
2019	J.Leemarose	Workshop on Control system Engineering	Nill	2000

		with MATLAB/SIMULINK organized by Indian Institute of Space Science and Technology, Trivandrum		
2019	J.Leemarose	Workshop on Wide area monitoring, protection and control in future smart grid organized by Amrita Institute of Technology, Nagercoil	Nill	500
2019	S.Amosedinak ran	Workshop on Labview Basics organized by PSNCET	Nill	750
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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)
2019	ISO awareness Programme	Lab Safety Measures	28/01/2020	28/01/2020	6	1
2019	Powering the future - Role of Electrical Engineers	Nill	18/07/2019	18/07/2019	66	Nill
2019	Nill	Simulation-based education	27/09/2019	27/09/2019	Nill	19
2020	Artificial Intelligence - Applications in Electric Drives	Nill	18/01/2020	18/01/2020	17	Nill
2020	Mobile Computing Applicatio	Nill	06/07/2020	10/07/2020	10	Nill

	ns development					
2019	Computer Training Programme	Nil	05/10/2019	05/10/2019	38	Nil
2020	Mobile Computing application development	Nil	06/07/2020	10/07/2020	3	Nil
2019	Engine room simulation	Simulator lab maintenance	12/08/2019	14/08/2019	4	1
2019	Marine M achineries overhauling training	Engine room maintenance	25/11/2019	27/11/2019	4	1
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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
Control system with MATLAB organized by Indian Institute of Space Science and Technology, Trivandrum	1	16/12/2019	20/12/2019	5
FDP on Electronics and Micro Processor, PSNCET Tirunelveli.	3	26/06/2020	30/06/2020	5
Online course design, Development and delivery at PSNCET	1	27/05/2020	30/05/2020	4
Latex, R Programming, python Organized by Guru Nanak University association with IIT	1	25/05/2020	30/05/2020	6

Online course design, development and delivery at PSNCET	1	27/05/2020	30/05/2020	4
Short term Training Programme on Newer Materials - Challenges and Optimization Techniques for Engineering Applications@ Syed Ammal Engineering College, Ramanathapuram	2	04/11/2019	09/11/2019	6
FDP on Strength of Materials organised by PSNCET, Tirunelveli.	3	06/07/2020	10/07/2020	5
NBA PROCESS @ Syed Ammal Engineering College, Ramanathapuram	2	22/10/2019	24/10/2019	3
Nanofluids - Short term Training Programme @ Syed Ammal Engineering College, Ramanathapuram	5	06/07/2020	10/07/2020	5
Newer Material challenges and optimization techniques for Engineering Application@ Syed Ammal Engineering College, Ramanathapuram	3	04/11/2019	09/11/2019	6
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time

171	171	90	90
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6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • 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 treatment of major illness • Fee Concession for the wards of faculty and staff • Study Leave 	<ul style="list-style-type: none"> • 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 treatment of major illness • Fee Concession for the wards of faculty and staff • Study Leave 	<ul style="list-style-type: none"> • 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
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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO, NBA, DGS	Yes	ISO, IQAC
Administrative	Yes	ISO, NBA, DGS	Yes	IQAC

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

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General Body Meeting of Parent Teachers Association was held on 15.07.2019 Parents are informed about CBCS, OBE, GATE coaching and Aptitude training and feedback system on-27.11.2019 Inform about the various value added courses and its need in the current scanrio on 29.01.2020

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

a. A training on Energy Conservation Techniques and its implementation b. Training on MS office package c. Training on calibration of instruments

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

Introduced Carrier skill development courses for II year. Introduction of PSNCET Learning Management System Nodal Center for Virtual lab with Amrita University Stakeholders feedback system is strengthened Societal activities through Community Development Center of the college NTA Nodal center. Industrial visit is made compulsory for II year students. Environmental studies is introduced for all UG III semester students.

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	No

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
2020	17th IQAC Meeting	24/01/2020	24/01/2020	24/01/2020	12
2020	18th IQAC Meeting	24/08/2020	24/08/2020	24/08/2020	15
2019	Inernal Academic Audit	11/11/2019	11/11/2019	15/11/2019	300
2020	ISO Audit	28/02/2020	28/02/2020	28/02/2020	1400
2020	DGS Audit	11/02/2020	11/02/2020	11/02/2020	180
2020	Course file Audit	09/01/2020	09/01/2020	11/01/2020	150
2019	Student feedback and followup and corrective action	16/10/2019	16/10/2019	09/03/2020	1200
2019	MoU as Mentee institute in MARGARSHAN scheme with MEPCO SCHLENK engineering college, Sivakasi	20/11/2019	20/11/2019	20/11/2019	1400

2019	IQAC organized orientation programme on "Outcome based education and course attainment"	22/08/2019	22/08/2019	22/08/2019	40
2019	IQAC organized one day workshop on "MOODLE-Learning Management system"	16/09/2019	16/09/2019	16/09/2019	16
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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
Stress Management-Be light in mind and heart	11/02/2020	11/02/2020	58	23
Abuse and Addictions-Man-Woman relationship - the taboo discussions	14/03/2020	14/03/2020	42	20
Empower HerFuture-Be a lion in the face of danger	17/08/2019	17/08/2019	25	10
Challenging the Abuse of Power-Women Centric problems of the Society	10/01/2020	10/01/2020	21	14
Girl's Education and Women's Empowerment	19/02/2020	19/02/2020	22	6
Cybercrime	13/03/2020	13/03/2020	72	21
Sanitation &	26/08/2019	26/08/2019	27	10

Hygiene- Personal health & hygiene				
Literacy- Family Dynamics post and pre- Marriage	12/10/2019	12/10/2019	24	14
Women Enterpr eneurship-Pudhu Vaazhu (New Life) Project, Govt of Tamil Nadu	10/01/2020	10/01/2020	31	18
Legal Awareness-Dowry System	11/02/2020	11/02/2020	27	16
Importance of Education for women	14/03/2020	14/03/2020	46	34
Issues of third gender	11/11/2019	11/11/2019	10	30
Women's involvement in Agriculture/ Biotechnology/ Farming in the rural areas	12/12/2019	12/12/2019	58	12
Womens Day Celebration	07/03/2020	07/03/2020	124	Nil

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

Percentage of power requirement of the College met by the renewable energy sources v About 3 of power utilization through Solar and wind energy v Energy conservation techniques have been initiated Energy audit is being conducted

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
Any other similar	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
2020	1	1	20/01/2020	1	Awareness program for farmers around the college area on solar energy utilization for agricultural applications, thirupudaimathur, Tirunelveli	Energy issues	30
2020	1	1	02/01/2020	1	Civil engineering department assisted to get building plan approval, housing loan and Pradhan Mantri Awas Yojana, Pathamadai	Housing Loan Issues	27
2019	1	1	09/12/2019	1	Coir Pith and Vermi Composting in AARS organic Farm Panayankurichi, Mukkudal	Decomposition /organic manure / agriculture Issue	20

2020	1	1	12/10/2019	1	Modern machinery for climbing cocanut and palmera trees, Tharuvai	Agricultural Issues	38
2020	1	1	19/02/2020	1	Health Issues in Tobacco rolling and safety measures, Mukkudal	Health issue	42
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Professional Ethics	03/06/2019	Professional Ethics is one of the course in the curriculum of the programmes offered by the college
Hand Book	13/06/2019	Students are generally following the code of conduct correctly and if any misconduct, students are advised through the mentor. If any violation, discipline committee do the inquiry and necessary actions will be taken.
Social Value Education	12/03/2020	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
Yoga Day Celebration	21/06/2019	21/06/2020	100
Teacher's Day Celebration	05/09/2019	05/09/2019	1000
Independence day celebration	15/08/2019	15/08/2019	500
Republic day celebration	26/01/2020	26/01/2020	500

Active training on computer at Anne Jane Askwith Higher Secondary School for the Visually Impaired, Palayamkottai, Tirunelveli	14/12/2019	18/12/2019	60
Universal Human Values @ TVNN Higher Secondary School, Perilovanpatti, Tuticorein	13/02/2020	13/02/2020	100
Florence Swanson Hr..Sec School for Deaf, Palayamkottai, Tirunelveli- Training on Lathe, welding, sheet metal work and electrical motor winding	02/12/2019	07/12/2019	65
Human values and ethics in our curriculum	03/06/2019	03/06/2019	260
Inclusion of Universal Human value Program in the First year Bridge course	15/07/2019	30/07/2019	387
National Voter's day Celebration	25/01/2020	25/01/2020	110
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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. The campus is declared as a plastic free zone rally and meeting conducted at PSNCET on 01.08.2019 Tree saplings were planted around the campus by eco club on 15.08.2019. An awareness program on water conservation in ladies hostel (Ganga and Narmatha Hostel) was conducted by the eco club volunteers on 09.09.2019. An awareness program on water conservation in men's hostel (Anchor Hostel) was conducted by the eco club volunteers on 06.11.2019. An awareness program on water conservation in men's hostel (Bharathi Hostel) was conducted by the eco club volunteers on 03.02.2020.

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
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	
8	M. AniMelfaRoji	ECE	Ongoing - 9	S. Selvaprabhu Mechanical Ongoing - 10
9	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.psnacet.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-INTELI Intelligent 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.