Yearly Status Report - 2016-2017

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. C.Selvamony**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**04634279009**
Mobile no.	**9442591197**
Registered Email	**principal@psncet.ac.in**
Alternate Email	**iqac@psncet.ac.in**
Address	**Melathediyoor**
City/Town	**Tirunelveli**
State/UT	**Tamil Nadu**
Pincode	**627152**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**05-Jan-2012**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Prof.R.Lakshmi Priya**
Phone no/Alternate Phone no.	**04634279009**
Mobile no.	**9442591146**
Registered Email	**iqac@psncet.ac.in**
Alternate Email	**principal@psncet.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.psncet.ac.in/iqac.html

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.psncet.ac.in/iqac.html

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.07**	**2011**	**16-Sep-2011**	**15-Sep-2016**
2	**B++**	**2.76**	**2017**	**22-Feb-2017**	**21-Feb-2022**

6. Date of Establishment of IQAC

01-Oct-2011

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

12th IQAC Meeting	31-Mar-2017 1	12
NAAC Peer Team Visit	23-Jan-2017 3	222
11th IQAC Meeting	05-Nov-2016 1	11
ISO Internal Audit	27-Jun-2016 3	222

L::asset('/'),'public/').'/public/index.php/admin/get_file?file_path='.encrypt('Postacc/Special_Status/'.$instdata->upload_special_status)}}

[View Uploaded File]

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	2017 0	0
No Files Uploaded !!!				

9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View Link]

10. Number of IQAC meetings held during the year :	**2**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View Uploaded File]

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

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

Management Information System (MIS) was implemented. Quality benchmarks in academic, assessment and monitoring were formed. Community Development Centre (CDC) was established. Centre for Training and skill Development was established to provide training for the students to improve their technical competencies. Orientation programs were conducted periodically on accreditation process for faculty members.

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
NAAC Reaccreditation	NAAC Peer Team Visited the campus on January 23th to 25th 2017 for assessment and reaccreditated with B
Quality Management Group	ISO Internal Auditor Training in the new Standard ISO: 9001: 2015 was Conducted on 26.10.2016 & 27.10.2016.
Community Development Centre	Welding, house wiring and plumbing are imparted to inmates of Central Prison, Palayamkottai through Community Development Cell.
Induct Scientists from leading national labs	Dr. P.V.A.Padmanabhan has been invited as Director (Technology Development)
Research	Research Advisory Council was established with Dr. R.K. Bhandari, former Director, Variable Energy Cyclotron Centre (VECC), Kolkata, as the Chairman of the council. Mechanical Engineering department research centre was approved by Centre for Research, Anna University, Chennai.

14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
Governing Body	08-Aug-2017

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	23-Jan-2017
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2017
Date of Submission	27-Feb-2017

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

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

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

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	01	AERONAUTICAL ENGINEERING	28/05/2016
BE	02	CIVIL ENGINEERING	28/05/2016
BE	03	COMPUTER SCIENCE AND ENGINEERING	11/06/2016
BE	04	ELECTRICAL ELECTRONICS ENGINEERING	11/01/2016
BE	05	ELECTRONICS AND COMMUNICATION ENGINEERING	15/06/2016
BE	08	MARINE ENGINEERING	23/05/2016
BE	09	MECHANICAL AND AUTOMATION ENGINEERING	27/05/2016
BE	10	MECHANICAL ENGINEERING	27/05/2016
[View Uploaded File]()			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	AERONAUTICAL ENGINEERING	01/06/2016	Aerodynamics-I/201008	01/01/2016

BE	AERONAUTICAL ENGINEERING	01/06/2016	Propulsion-I/201011	01/06/2016
BE	AERONAUTICAL ENGINEERING	01/06/2016	Computational Fluid Dynamics/201025	01/06/2016
BE	AERONAUTICAL ENGINEERING	01/06/2016	Finite Element Analysis/201021	01/06/2016
BE	AERONAUTICAL ENGINEERING	01/06/2016	Composite Materials and S tructures/20102 2	01/06/2016
BE	AERONAUTICAL ENGINEERING	01/06/2016	Experimental Stress Analysis/201202	01/06/2016
		[View Uploaded File](#)		

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	COMPUTER SCIENCE AND ENGINEERING/Data warehousing and data mining/203011	01/06/2016
BE	COMPUTER SCIENCE AND ENGINEERING/Computer Network/203006	01/06/2016
BE	COMPUTER SCIENCE AND ENGINEERING/Operating system/203004	01/06/2016
BE	COMPUTER SCIENCE AND ENGINEERING/OOPS and Data structures/203002	01/06/2016
BE	COMPUTER SCIENCE AND ENGINEERING/Computer organization and architecture/203001	01/06/2016
BE	CIVIL ENGINEERING/Construction planning and scheduling /202903	01/06/2016
BE	CIVIL ENGINEERING/Environmental impact assessment /202902	01/06/2016
BE	CIVIL ENGINEERING/Disaster management/202901	01/06/2016
BE	AERONAUTICAL ENGINEERING/Experiments in fluids /201903	01/06/2016

BE	AERONAUTICAL ENGINEERING/Fundamentals of aircraft engineering /201901	01/06/2016
	View Uploaded File	

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

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	All Programmes	01/06/2016
ME	All Programmes	01/06/2016
MBA	MBA	01/06/2016
MCA	MCA	01/06/2016

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
Computational Fluid Dynamics (AERO)	01/03/2017	15
STADD PRO(CIVIL)	01/02/2017	22
Basic Hydraulics PLC(CIVIL)	25/07/2016	36
Total Station GPS(CIVIL)	13/02/2017	18
Basic Hydraulics(CIVIL)	06/02/2017	17
Certificate Program in Intelligent System (CSE)	19/09/2016	23
PCB Design(ECE)	01/06/2016	58
SPSS(MBA)	20/10/2016	40
Engine Room Simulation(MARINE)	19/12/2016	23
ASNT(MARINE)	12/07/2016	35
	View Uploaded File	

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	COMPUTER SCIENCE AND ENGINEERING	10
BE	ELECTRICAL ELECTRONICS ENGINEERING	5
BE	MARINE ENGINEERING	6
BE	ELECTRONICS AND INSTRUMENTATION ENGINEERING	10
BE	MECHANICAL AND	25

	AUTOMATION ENGINEERING	
BE	MECHANICAL ENGINEERING	26

View Uploaded File

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

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

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Aeronautical Engineering	90	81	65
BE	Civil Engineering	60	68	59
BE	Computer Science and Engineering	90	60	60

BE	Electrical and Electronics Engineering	60	52	50
BE	Electrical and Communication Engineering	90	52	52
BE	Electronics and Instrumentation Engineering	60	43	43
BTech	Information Technology	30	31	28
BE	Marine Engineering	60	28	24
BE	Mechanical and Automation Engineering	60	61	60
BE	Mechanical Engineering	60	54	54

View Uploaded File

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
2016	495	102	179	43	222

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
222	149	27	20	0	112

View File of ICT Tools and resources

View File of E-resources and techniques used

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

During the four years of study in an institution, the young engineering students need guidance and counselling from their teachers to face academic issues as well as personal problems. A proper guidance at the hour of need will help the students to come up in their life and career. It will be better to have a mentor who will travel with the same batch of students all through the four years of their study in the institution. Each faculty will be the mentor of a group of 20 to 25 students. First year students will have mentors from the School of Basic Engineering and Sciences (SOBES) and second, third, fourth year students will have mentors from the parent department. Departmental faculties will continue to be mentors for the same group of students till their graduation. This is expected to improve the academic quality and help the students to benefit continuously in their studies and

overall development. The list of responsibilities given under is not exclusive. A Mentor can do more for the benefit of the students. 1. Meet his/her group of students atleast twice a month. 2. Continuously monitor, counsel, guide and motivate the students in all academic matters. 3. Advise students regarding selection of project, internships, industrial training etc. 4. Must keep a good rapport with the parents of the students under his/her mentorship. 5. Contact parents/guardians in case of any academic irregularities, poor interpersonal relations, detrimental activities etc. 6. Advise students in their career development and professional guidance. 7. Keep in touch with the students even after their graduation. 8. Intimate Head of the department if any administrative action is to be called for. 9. Maintain and update the Student Profile. 10. Periodically update the Head of the department on the mentoring activities carried out. 11. Maintain a brief and clear record of all discussions/meetings with the students assigned for the Mentor. Responsibilities of the Head of Department in Mentoring System 1. Meeting with all the mentors of his/her department atleast once in a month and get their inputs. 2. Review whether the mentoring system is properly implemented in the department. 3. Advice the mentors whenever necessary. 4. Initiating administrative action on a student, if necessary. 5. Keep the Head of the Institution informed periodically on the outcome of the mentoring system of his/her department.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
597	222	1:3

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
222	222	0	19	33

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
2016	Dr.X.Sahaya Shajan	Professor	SERB Project Reviewer
2016	Dr.X.Sahaya Shajan	Professor	SERB Project Reviewer
2016	Dr.X.Sahaya Shajan	Professor	SERB Project Reviewer
2016	Dr.P.Selva Kumar	Professor	International Conference on mechanical Engineering Design (Reviewer)
[View Uploaded File](#)			

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
MCA	60	Odd Sem - II, III Year	22/11/2016	10/01/2017

MCA	60	Odd Sem - I Year	24/12/2016	21/02/2017
MBA	50	Odd Sem - II Year	22/11/2016	10/01/2017
MBA	50	Odd Sem - I Year	24/12/2016	21/02/2017
ME	20,22,23,24,25,26	Odd Sem - II Year	22/11/2016	10/01/2017
ME	20,22,23,24,25,26	Odd Sem - I Year	24/12/2016	21/02/2017
BTech	07	Odd Sem - II, III IV Year	22/11/2016	10/01/2017
BTech	07	Odd Sem - I Year	24/12/2016	21/02/2017
BE	01,02,03,04,05,06,08,09, 10	Odd Sem - II, III IV Year	24/12/2016	10/01/2017
BE	01,02,03,04,05,06,08,09, 10	Odd Sem - I Year	24/12/2016	21/02/2017

[View Uploaded File](#)

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	2751	0

2.6 – Student Performance and Learning Outcomes

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

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

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
10	BE	Mechanical Engineering	67	63	94
09	BE	Mechanical and Automation Engineering	22	22	100
08	BE	Marine Engineering	9	9	100
07	BTech	Information Technology	4	4	100
06	BE	Electronics	17	15	88

		and Instrumentation Engineering			
05	BE	Electrical and Communication Engineering	33	33	100
04	BE	Electrical and Electronics Engineering	20	19	95
03	BE	Computer Science and Engineering	33	33	100
02	BE	Civil Engineering	37	36	97
01	BE	Aeronautical Engineering	19	19	100
[View Uploaded File](#)					

2.7 – Student Satisfaction Survey

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

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

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

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

No

No file uploaded.

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	nil	nil	01/12/2017	nil
No file uploaded.				

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
Any Other (Specify)	60	NDT CCS	11	11
Major Projects	5	DST-INSPIRE	9.36	9.36
Major Projects	1095	BRNS, DAE	19.36	1.75

Major Projects	1095	SERB, DST	21.74	5
Major Projects	1095	SERB, DST	23.44	1
Major Projects	1095	DST-TSDP	93.67	41.96
[View Uploaded File](#)				

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

4

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
One Day Workshop on Lean Six Sigma	Mechanical Engineering	03/03/2017
Micro Soft Dot Net Frame Work	Electronics and Communication Engineering	27/07/2016
Leader Ship Quality	Electronics and Communication Engineering	29/07/2016
Embedded System	Electronics and Communication Engineering	05/08/2016
Hand On Training In LABVIEW	Electronics and Communication Engineering	20/09/2016
Integrated of Things Big Data	Electronics and Communication Engineering	07/02/2017
Solar Power Maximum Power Point Tracking	Electronics and Communication Engineering	17/02/2017
Introduction to PLC	Electronics and Communication Engineering	06/03/2017
`National Level Technical Symposium	Electronics and Communication Engineering	22/03/2017
One day workshop on MEMS	Mechanical Engineering	19/08/2016
[View Uploaded File](#)		

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
Innovative dedicated teaching facility award	Mr.V.P.Vignesh Kumar	Business, economics, social science and Humanities	11/03/2017	Teacher
No file uploaded.				

3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement

nil	nil	nil	nil	nil	01/12/2017

No file uploaded.

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Electronics and communication engineering	1
Mechanical Engineering	1
Science and Humanities	4

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	4	1.42
International	CSE	8	0.18
International	EEE	5	0.66
International	ECE	9	0.32
International	Science and Humanities	13	1.80

[View Uploaded File](#)

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
MBA	1
Mechanical Engineering	1
CSE	2

[View Uploaded File](#)

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Nil	Filed	0	01/12/2017

No file uploaded.

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 Robust and Effective Big Sensor Data Error Detection and	R.Sheeba, T.Ajith Bosco Raj	International Journal of Printing, Packaging Allied Sciences	2016	0	PSN College of Engineering and Technology	0

Correction						
Efficient Denoising Of Rician Noisy Magnetic Resonance Brain Images Using Self Similarity Approach And Spatial Filter	Hari Haran.G, Ajith Bosco Raj.T, Jayachandran. A	International Journal of Advanced Engineering Technology	2016	0.121	PSN College of Engineering and Technology	0
Smart Technology For Real Time Weather Monitoring And Control In Agriculture Based On Green House	S. Augusty Jose Lincy, T. Ajith Bosco Raj	International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)	2016	0.167	PSN College of Engineering and Technology	0
Intensity Based Simulation of the Temperature Prediction in the Focal Region of Liver Using MRI-Guided High Intensity Focused Ultrasound (HIFU)	P. Revathy, V. Sadasivam, T. Ajith Bosco Raj	Journal of Computational and Theoretical Nanoscience	2016	0.221	PSN College of Engineering and Technology	0
PI Control for Voltage Regulation in Positive Output Elementary Parallel	G.Jiji, M.Rajaram, T. Ajith Bosco Raj	Middle-East Journal of Scientific Research	2016	0.605	PSN College of Engineering and Technology	0

Connected Boost Converter						
RFID: Study of the Malevolent Attacks and Clustering Mechanism in the RFID System	M. Thurai Pandian, R. Sukumar,T. Ajith Bosco Raj	International Journal of Printing, Packaging Allied Sciences	2016	0	PSN College of Engineering and Technology	0
Sliding Mode Control for Voltage Regulation in Positive Output Elementary Parallel Connected Boost Converter	Spencer Prathap Singh , Kesavan Nair , G. Jiji , M. Rajaram, T. Ajith Bosco Raj	Asian Journal of Information Technology	2016	0.38	PSN College of Engineering and Technology	0
Severity Analysis of Cervical Cancer in PAP Smear Images Using Textures Features and Hybrid RBF Kernel Based SVM	G.Hariharan, A.Jayachandran, G.Jiji, M.Rajaram and T.Ajith Bosco Raj	Asian Journal of Information Technology	2016	0.38	PSN College of Engineering and Technology	0
Distorted Waveform Balancing Using an Artificial Bee Colony (ABC) Based Optimal Control for Mitigating Total Harmonics	Spencer Prathap Singh.N.M, Kesavan Nair, Ajith Bosco Raj.T	Circuits and Systems	2016	0.34	PSN College of Engineering and Technology	0

Title of the Paper	Name of Author	Title of journal	Year of publication			Institutional affiliation as mentioned in the publication
Cluster Computing - The Journal of Networks, Software Tools and Applications	Jijith C Moses, Blesso De Raja, Ajith Bosco Raj T, Jiji G	International Journal of Chemical Sciences	2016	0		PSN College of Engineering and Technology	1

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
Cluster Computing - The Journal of Networks, Software Tools and Applications	Jijith C Moses, Blesso De Raja, Ajith Bosco Raj T, Jiji G	International Journal of Chemical Sciences	2016	15	1	PSN College of Engineering and Technology
Distorted Waveform Balancing Using an Artificial Bee Colony (ABC) Based Optimal Control for Mitigating Total Harmonics in Single Phase Inverter	Spencer Prathap Singh.N.M, Kesavan Nair, Ajith Bosco Raj.T	Circuits and Systems	2016	45	0	PSN College of Engineering and Technology
Severity Analysis of Cervical Cancer in PAP Smear Images Using Textures Features	G.Hariharan, A.Jayachandran, G.Jiji, M.Rajaram and T.Ajith Bosco Raj	Asian Journal of Information Technology	2016	8	0	PSN College of Engineering and Technology

and Hybrid RBF Kernel Based SVM						
Sliding Mode Control for Voltage Regulation in Positive Output Elementary Parallel Connected Boost Converter	Spencer Prathap Singh , Kesavan Nair , G. Jiji , M. Rajaram, T. Ajith Bosco Raj	Asian Journal of Informatio n Technology	2016	8	0	PSN College of Engineerin g and Technology
PI Control for Voltage Regulation in Positive Output Elementary Parallel Connected Boost Converter	G.Jiji, M.Rajaram, T. Ajith Bosco Raj	Middle-East Journal of Scientific Research	2016	34	0	PSN College of Engineerin g and Technology
Intensity Based Simulation of the Tem perature Prediction in the Focal Region of Liver Using MRI-Guided High Intensity Focused Ultrasound (HIFU)	P. Revathy, V. Sadasivam, T. Ajith Bosco Raj	Journal of Computa tional and Theoretica l Nanoscie nce	2016	43	0	PSN College of Engineerin g and Technology
Facile synthesis of 3-D nan ostructure d zinc oxide aerogel and its ap	Alwin, S Shajan, X S	Surfaces and Interfaces	2017	9	0	PSN College of Engineerin g and Technology

plication as photoanode material for dye-sensitized solar cells							
Microwave assisted synthesis of high surface area TiO2 aerogels: A competent photoanode material for quasi-solid dye-sensitized solar cells	Alwin, S, Shajan, X S, Karup pasamy, K Warrier, K	Materials Chemistry and Physics	2017	132	0		PSN College of Engineerin g and Technology
Colloidal chemical synthesis of pentanary semiconduc tor nanopa rticles-A versatile functional material for low-cost, high efficient photovolta ic applica tions	Babu, GSD Shajan, X S	Materials Today: Pro ceedings	2017	18	0		PSN College of Engineerin g and Technology
Low-cost hydrotherm al synthesis and charac terization of pentanary Cu2ZnxNi1-xSnS4 nano particle inks for thin film solar cell	Babu, GSD, Shajan, X S, George, A, Parames waran, P, Murugesan, S, Divakar, R, Mohandas, E, Kumaresan, S Rao, G M	Materials Science in Semiconduc tor Processing	2017	49	0		PSN College of Engineerin g and Technology

applications					

					View Uploaded File

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	1	3	11	12
Presented papers	1	58	0	0
Resource persons	1	0	0	0

View Uploaded File

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
EEE	Energy audit	Arun group of Restaurants, Tirunelveli	150000
Marine Engineering	Static equipment inspector	NDT CCS	1100000
Civil Engineering	Flyash Cement Brick Test	Saravana Cement Bricks	1000
Mechanical Engineering	Designing Drip irrigation system	LJC Micro irrigation and engineering	0
Mechanical Engineering	Heat transfer analysis	Jothy plastics	0

View File

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
nil	nil	nil	0	0

No file uploaded.

3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Blood Donation Camp at PSNCET	PSN College of Engineering and Technology	2	180
World Heart Day	PSN College of Engineering and	2	300

	Technology			
Anti Drugs, Anti Tobacco Cancer Awareness Programme	PSN College of Engineering and Technology		2	350
AIDS / HIV awareness programme.	PSN College of Engineering and Technology		2	400
Eye Awareness Programme	Aravind Eye Hospital, Tirunelveli		2	230
Campus Cleaning	PSN College of Engineering and Technology		2	67
Film show on "Pollution of River".	District Collector, Tirunelveli		2	630
Cleaning of Thamirabarani River	District Collector, Tirunelveli		2	100
NSS Special Camp was conducted at Melaseval Village.	Special Officer, Melaseval		2	45
[View File](#)				

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
nil	nil	nil	0
No file uploaded.			

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 activites	Number of students participated in such activites
Hepatitis awareness program	PSN College of Engineering and Technology	Hepatitis awareness program	9	46
Eye awareness program	PSN College of Engineering and Technology	Eye awareness program	2	11
World heart day program	PSN College of Engineering and Technology	World heart day program	2	11
Rally	PSN College of Engineering and Technology	Rally	1	5
Rally	PSN College of Engineering and Technology	Rally	10	66

Rally on Hepatitis Awareness	PSN College of Engineering and Technology	Rally on Hepatitis Awareness	2	12
[View File]()				

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
Internship, Project work at University Malaysia Pahang (UMP), Pahang, Malaysia	03 Students	INDIVIDUAL	90
Standard Training Certification for Watch Keeping	46 Students	INDIVIDUAL	21
Collaborative research	Dr.X.Sahaya Shajan	BRNS-DAE sponsored research project	7
Collaborative research	Dr. K.G.K. Warier, National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram	BRNS-DAE sponsored research project	7
Collaborative research	Dr.P.Y.Nabhiraj, Variable Energy Cyclotron Centre (VECC) Kolkata	BRNS-DAE sponsored research project	5
Collaborative research	Dr.X.Sahaya Shajan, Dr. Manuel Torres Betancort, University of La Laguna, Spain	Management	6
Collaborative research	Dr.X.Sahaya Shajan, Dr. Mohan roa Indian Institute of Science, Bengaluru	Management	5
Collaborative research	Dr.S.Moorthy Babu, Crystal Growth Centre, Anna University, Chennai	Management	5
Collaborative research	Dr.S. Parameswaran, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam	Management	5
[View File]()				

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
Student Mobility Programme	Student Mobility Programme	University Malaysia Pahang (UMP), Pahang, Malaysia	03/03/2017	31/03/2017	3
Project	Project	JK FENER INDIA LIMITED	20/02/2017	04/03/2017	2
Project	Project	Zigma pressings	01/02/2017	24/02/2017	6
Project	Project	Bharat heavy electrical limited	01/02/2017	24/02/2017	4
Project	Project	Bosch gasoline limited gangaikondan	23/01/2017	10/03/2017	4
Project	Project	Thermal power station-II NLC INDIA LIMITED NEYVELI	01/02/2017	28/02/2017	4
Project	Project	Renault Nissan automotive india pvt limited	10/01/2017	03/03/2017	4
Project	Project	National cooperative sugar mills	10/01/2017	03/03/2017	3
Project	Project	Bharat heavy electrical limited	10/01/2017	03/03/2017	4
Industries	Training	Intel FICE	19/09/2016	23/09/2016	23

[View File](#)

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
Universiti Malaysia Pahang (UMP), Pahang, Malaysia	08/09/2016	Developing student/faculty exchange programs. Collaborative joint Research Development activities	3
Imaya international institute of NDT, Tirunelveli	22/02/2016	Skill oriented training	65
Intel FICE	16/09/2016	Career oriented experiential learning	23
View File			

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
10	10.54

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

4.2 – Library as a Learning Resource

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

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

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total

Text Books	**57432**	**14488694**	**765**	**252083**	**58197**	**14740777**
Reference Books	**1746**	**698400**	**0**	**0**	**1746**	**698400**
e-Books	**0**	**0**	**0**	**0**	**0**	**0**
Journals	**0**	**0**	**33**	**100000**	**33**	**100000**
e-Journals	**0**	**0**	**2**	**17449**	**2**	**17449**
[View File](#)						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
nil	**nil**	**nil**	**01/12/2017**
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

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

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

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

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
10	**8.11**	**10**	**11.02**

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

The college has well defined procedure and policy for maintain the academic

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

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

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Fee Concession by the Management	153	6120000
Financial Support from Other Sources			
a) National	BC/MBC/DNC/SC/ST/ SCC/SCA	606	26129430
b)International	-	0	0

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Yoga Programme	10/06/2016	54	Vivenkanada kendra - Kanyakumari
Yoga Programme	17/06/2016	15	Vyakshi Vikas Kendra India
Yoga Programme	08/03/2017	26	The World Community Service Centre
Bridge Course	06/07/2016	278	Internal Staff
CCNA – Soft Skill	16/07/2016	115	Penta CAD - Palayamkottai
Ethical Hacking – Soft Skill	11/08/2016	115	Elysium Academy Pvt Ltd - Madurai
PHP Programming – Soft Skill	12/08/2016	115	NIIT - Tirunelveli
Internal Intelligence Systems Lab – Soft Skill	20/09/2016	115	Internal Staff
Business English Certificate	27/09/2016	80	Internal Staff
Remedial Coaching Class	13/03/2017	27	Internal Staff

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2017	GATE Coaching	101	0	1	1

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
7	7	4

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 stduents placed	Name of organizations visited	Number of students participated	Number of stduents placed
8	178	59	47	333	70
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2017	1	BE	Aeronautical Engineering	Universal College of Engineering and Technology	ME
2017	1	BE	Electrical and Communication Engineering	Hertfordshire University	Msc (Eectrical and Electronic Power)
2017	1	BE	Electrical and Communication Engineering	PSN College of Engineering and Technology	ME
2017	1	BE	Electrical and Communication Engineering	Sathiyabama College of Engineering, Chennai	MBA
2017	1	BE	Electrical and Communication Engineering	Kalasalingam University	MBA
2017	1	BE	Mechanical Engineering	Mohamed sathak Engineering College, Kilakarai - Ramanathapuam	ME
2017	1	BE	Mechanical Engineering	KLN College of Engineering, Pottapalayam	MBA
2017	1	BE	Mechanical Engineering	Mailam Engineering College, Mailam	ME
2017	1	BE	Mechanical	Sethu	ME

| 2017 | 1 | BE | Civil Engineering | MET Engineering College | ME |

<div align="center">

[View File](#)

</div>

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
CAT	1

<div align="center">

[View File](#)

</div>

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

Activity	Level	Number of Participants
Paper Presentation - American University of India (AUI) Kodaikanal	District	1
State Handball Championship TN Handball Association	State	2
VIBRANCE - 17	National	3
Anna University Zonal Level KHO-KHO Tournament	Zone-18 Anna University	1
Anna University Zonal Level Hand Ball Tournament	Zone-18 Anna University	1
Anna University Zonal Level Badminton Tournament	Zone-18 Anna University	2
Anna University Zonal Level Basketball Tournament	Zone-18 Anna University	4
Anna University Zonal Level Kabadi Tournament	Zone-18 Anna University	3
Anna University Zonal Level Athletic Tournament	Zone-18 Anna University	2
PSN TROPHY-2017 (National Level Tournament)	National	250

<div align="center">

[View File](#)

</div>

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
2017	hird	National	3	0	1310015,	Kalaiyaa

					1310007, 1310021	san S Asarudeen J Malaiara san M
	Position VIT University Chennai National Level Handball					
2016	Anna University Sports Board	National	1	0	1303009	Aaron John Iype
2016	Anna University Sports Board	National	1	0	1303022	Pulary Prakash
2016	Anna University Sports Board	National	1	0	1303005	M.Ananthi
2016	Anna University Sports Board	National	1	0	1403022	M.Sankar
2016	Anna University Sports Board	National	2	0	1303303	K.Suganya
View File						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The four years of stay in a college must make a student to become an endeavouring leader and a role model for others in the future. For this to become reality a college must provide opportunity for a student to acquire good communication skills, organizing skills, team work and planning skills. Bearing this in mind the college provides its students to acquire leadership qualities while pursuing their degree programmes itself by making them to actively involve and participate in various academic and administrative process of the college. This starts from the class committee to students' representation in various academic and administrative committees. This includes student representation in Internal Quality Assurance Cell (IQAC), Students Grievances and Redressal Committee, Anti-Ragging Committee etc. Class committee forms the back bone of the student leadership activities. The Class committee meeting is conducted every month to discuss the issues of the students and find solutions to them. The committee consists of the student representatives from each class in every department. They discuss the academic plan, syllabus coverage, difficulties in the subjects, test pattern, result analysis and other departmental activities like symposiums, workshops, paper presentations, Mini projects, etc. The students are free to suggest remedies for their issues and also new and innovative ideas that can be implemented in their departments. Every department has a technical Association which periodically organized symposia, guest lectures and conferences. Students are given opportunities to organize such departmental programmes like seminars, guest lectures, conferences and symposia. These type of programmes help the students to expose and empower themselves to take a lead in various activities related to the

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

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

1370

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

All decisions taken by the top management are descended to the faculty and administrative staff through the Principal, Directors, Deans and Heads of department. Principal is delegated to handle all day to day academic matters and take decisions. The Principal delegates the Directors, Deans and team of faculty members to monitor teaching learning process, academics, research and development, innovation, entrepreneurship development, internal revenue generation, faculty empowerment, student affairs, system automation, planning and development, institutional growth and appraisal, institutional promotion, exam related, industry institute partnership, alumni and stakeholders, admission, student discipline, library and college ambience. These are monitored by forming several committees consisting of Heads of department and faculty members. Director (Academics and Research) is delegated to look after teaching learning process, academics, research and development, faculty empowerment. Director (Planning and Development) is delegated to look after planning and development, institutional growth and appraisal, institutional promotion, industry institute partnership. Director (Training and Skill Development) is delegated to generate internal revenue by conducting skill development training programmes for the students through the Centres of Excellence established in the college. Heads of department are authorized to look after student affairs, teaching learning process in consultation with

Director (Academics and Research), alumni and stakeholders, admission, student discipline, internal exams and college ambience. Library committee is formed with a senior faculty member as its coordinator to look after the library updation, automation and related areas. All faculty members are delegated in various statutory as well as non-statutory committees of the college. ISO coordinator takes care of the quality system and is maintained through the Management Representative and department coordinators. The Internal Quality Assurance Cell is authorized to frame the quality policy and measures for the academic year and take action wherever and whenever there is inconsistency. The IQAC is authorized to conduct Administrative and Academic Audit (AAA) every year and identify the strengths and weakness of the institution and shall suggest ways and means to improve them. The participative management approach is practiced at different levels in the college and all the stakeholders are involved in the process of decision making based on collective knowledge. The statutory committees of the college are: Governing Council, Academic Council, Board of Studies and Finance Committee. All these committees have representations from various levels of academic and administrative personnel of the college as well as stakeholders. The other committees include, College Staff Council, Programme Assessment Committee, Department Advisory Committee, Class Committee, Department Staff Council, Internal Quality Assurance Cell, Parent Teacher Association, Alumni Association, and Students' Welfare Association etc. The participative management system enables the stakeholders to participate in the decision making process of the college which helps to establish better communication and human relationship.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	• Curriculum development is done through periodical feedback from students and faculty, • Introduction of courses in the curriculum to suit industry needs, • Industrial visits, mini projects and internships are made mandatory so that the students get industrial exposure and innovative thinking
Teaching and Learning	• 24x7 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 • NPTEL video lectures • Monitoring the delivery of syllabus • Lab manuals and study materials for students • Upgradation of class rooms and laboratories
Examination and Evaluation	• Structured Exam cell for internal assessment and Chief Superintendent (Examinations) office for end semester examinations • 60 question setting by external experts • Evaluation by

	external experts • Provision for photo copy answer scripts for the students to check the valuation • Revaluation of answer scripts • Challenging the valuation • Supplementary examinations for the students with arrears
Research and Development	• Projects funded by national funding agencies to a tune of Rupees three crores • Separate building for research and development • Research Advisory Committee with eminent scientists • Faculty and student support schemes • Stipend for research scholars • Financial support for presenting papers in international conferences • On duty leave and partial financial assistance for presenting papers in national conferences
Library, ICT and Physical Infrastructure / Instrumentation	• More than 60000 books available in the library • E-journals subscribed in all disciplines • Digital library with NPTEL videos • The library is kept open 24 hours and 7 days of a week • Barcoding facility • Class rooms with internet facility and LCD projectors • Extensive play grounds • HT electrical line for the entire campus • Augmented with solar panels and wind energy • 100 Mbps broadband internet facility • Nearly 900 computers available and upgraded periodically
Human Resource Management	• Formulating transparent faculty recruitment policy and dissemination • Constitution of faculty and staff recruitment committees • Organizing orientation and training programmes for faculty • Performance appraisal • Assisting IQAC in conducting FDP/refresher courses for faculty
Industry Interaction / Collaboration	• Fully functional Industry Institute Partnership Cell (IIPC) • Guest lectures by experts from industry • Industrial visits made mandatory • Internships in industry is encouraged • MoUs with industry for internships and project support • Project work in industry is encouraged
Admission of Students	The policies regarding admission and fee structure are as per the norms of AICTE / DOTE Chennai. Being a self-financing college 65 percent of intake is admitted through single window system conducted by Anna University, Chennai as per the reservation policy of Government of Tamil nadu. Remaining 35 percent is filled by the management.

	The College ensures publicity through college website, advertisements in daily newspapers, and educational exhibitions.

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

E-governace area	Details
Examination	Examination Process: • Student Exam Application Regular, Arrear and Revaluation • Exam Fee Collection, Examination TimeTable Hall Ticket Generation • Examination Attendance Generation • Conducting Examination • Checklist Generation Flip and Foil Cover Generation Attendance Verification Despatch Generation Post Examination • Practical Mark Entry • Dummy Number Generation Bundle Number Generation • Examination Mark Entry Galley Generation • Result Passing • Grade Sheet Generation Consolidated Grade Sheet Generation • Award of Degree Report Generation
Student Admission and Support	The modules used for Student Admission and Support are: • Student Application • Roll No. Generation • Admission Quota • Fees Assignment based on the Category
Planning and Development	• Provides strategic plan for the college, both short term and long term • Quality Assurance • Mail communication facilities to all departments / faculty • Decisions taken in meetings, minutes of meetings are communicated to the departments/faculty concerned through internet • Coordinating with IQAC on preparing documents for NAAC, NBA and AAA
Administration	All the operational procedures and forms are made available in the server and can be accessed through intranet
Finance and Accounts	Tally software is used for accounting purposes.

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
2016	Mr.A.Kasi Viswanathan	Indigenisation of LCA ALH Components	0	1000

2016	Dr.A.Mala	FDP on IoT using Raspberry Pi for Engineering Application	0	500
		[View File](#)		

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)
2016	FDP On Engineering Mechanics	Nill	28/11/2016	30/11/2016	17	0
2016	Certificate Program in Intelligent Systems	Nill	19/09/2016	23/09/2016	7	0
2016	Faculty Development Program on Internet of Things	Nill	02/12/2016	02/12/2016	30	0
2017	Solar Smart Energy Systems	Nill	21/04/2017	22/04/2017	22	0
2017	Workshop on Electron Microscopy	Nill	08/04/2017	08/04/2017	20	0
		[View File](#)				

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
Workshop on Electron Microscopy	20	08/04/2017	08/04/2017	1
Indeginisation of LCA ALH Components	1	03/08/2016	03/08/2016	1

FDP on Engineering Mechanics	17	28/11/2016	30/11/2016	3
QMS Internal Auditor Training	5	26/10/2016	27/10/2016	2
Solar Smart Energy Systems	22	21/04/2017	22/04/2017	2
Certificate Program in Intelligent Systems	7	19/09/2016	23/09/2016	5
FDP on IoT using Raspberry Pi for Engineering Application	1	17/12/2016	18/12/2016	2
Faculty Development Program on Internet of Things	30	02/12/2016	02/12/2016	1

[View File](#)

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
222	222	88	88

6.3.5 – Welfare schemes for

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

6.4 – Financial Management and Resource Mobilization

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

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

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
nil	0	0

No file uploaded.

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	No	Nill	Yes	Internal Auditors
Administrative	Yes	Registered Chartered Accountant	Yes	Internal Auditors

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

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

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

Training on "How to operate Fire extinguishers" on 09.12.2016 Training on "Software installation and System Maintenance" on 12.12.2016 Training on "Ship onboard safety and workshop practices" on 27.01.2017

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

• Planning for NBA accreditation • Training and Skill Development centre • Research Schemes for Faculty and 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	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2016	11th IQAC Meeting	05/11/2016	05/11/2016	05/11/2016	11
2017	12th IQAC Meeting	31/03/2017	31/03/2017	31/03/2017	12
2016	ISO Internal	27/06/2016	27/06/2016	29/06/2016	222

| 2017 | NAAC Peer Team Visit | 23/01/2017 | 23/01/2017 | 25/01/2017 | 222 |

<div align="center">View File</div>

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
E-Commerce	14/12/2016	14/12/2016	10	12
Womens Day	08/03/2017	08/03/2017	51	0

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
? Moved to 400KV HT ? 50 KW energy generated by the renewable energy sources (Solar and Wind) ? 125 KV generator available ? 17 Percentage of power requirement of the College met by the renewable energy sources

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	No	0
Rest Rooms	Yes	1
Scribes for examination	Yes	0
Special skill development for differently abled students	No	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2016	2	2	27/08/2016	1	Eye Camp	2	250
2016	2	2	06/10/2016	1	Anti Drug, Anti Tobacco	2	220

			Cancer Awareness Programme		

<div align="center">

[View File](#)

</div>

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Hand Book	02/07/2016	The handbook contains the code of conduct and ethical values that a student must learn during his/her stay in the campus which will make him/her to stand unique in the society. Students are generally following the code of conduct correctly and if any misconduct, students are advised through the mentor. Steps are taken to mentor the students in each and every phase and make them good citizens of the country.
Social Value Education	24/03/2017	Three days programme on social value education was made compulsory for the first year students. The students are trained at Vivekananda Kendra, Kanyakumari
Professional Ethics	01/06/2016	Professional Ethics is one of the courses in the curriculum of the programmes offered by the college.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Blood Donation Camp	19/07/2016	19/07/2016	200
Blood Donation Camp	29/07/2016	29/07/2016	150
Community Development Program (Welding House wiring Course) for central jail prisoners	20/07/2016	10/08/2016	40
Community Development Program (Welding House wiring Course) for	22/02/2017	10/03/2017	40

central jail prisoners				
View File				

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

Green campus programs were conducted to keep the environment neat and tidy by NSS volunteers.
Tree saplings were planted around the campus by eco club on 10.09.2016.
An awareness program on water conservation in men's hostel (Bharathi Hostel) was conducted by the eco club Volunteers on 10.12.2016.
An awareness program on water conservation in ladies hostel (Gangai Hostel) was conducted by the eco club Volunteers on 11.02.2017.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

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

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

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

7.3 – Institutional Distinctiveness

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

The geographical location of the college is an extreme rural area situated in the southern part of Tamilnadu. Most of the students are first generation learners getting financial support to pursue their studies either from the government or the management. The establishment of this college is a great boon for them to do higher studies and come up in their life. The college has established distinctive courses like B.E. Marine Engineering, M.E. Cryogenic Engineering, M.E. Avionics which are not available in other engineering colleges in the southern districts of Tamilnadu. This gives the students of this area an opportunity to learn such unique courses. To fulfil the vision of the institution to provide an academic environment to learn, work and do research, the college has set up Centres of excellence in many areas of engineering. To mention, the college has set up Bosch Centre of Excellence in Industrial Automation in collaboration with Bosch, Germany at a cost of about Rs. 4 crores, the only engineering college having this facility in south Tamilnadu. The centre offers hands-on training programmes for the students in hydraulics, pneumatics, sensorics, PLC, mechatronics, robotics. The college has also established centres of excellence in National Instruments Inc., INTEL, Computational Fluid Dynamics (CFD). The college also provides several research

schemes for the students to benefit with. Institutional stipendiary research scheme provides stipend for the Ph.D. students. Full time research students can avail Rs. 12000 p.m. till the completion of the Ph.D. work. In addition to this the college also offers seed money for the faculty to pursue research in the areas of their interest. A maximum of Rs. 1,00,000 can be availed as seed money for the period of 18 months under the scheme Faculty Research Initiatives in Science and Technology (FRIST). Several faculty members are benefitted under this scheme. In order to encourage students to take up innovative projects in their final year, the college offers financial support under the scheme Project Support Scheme for Students (PSSS). Students can avail a maximum of Rs.10000 under this scheme.

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

8.Future Plans of Actions for Next Academic Year

• To strengthen Centres of Excellence • To go for NBA accreditation for atleast three departments • To increase the employability skills of students • Extension of Autonomous status