
EVALUATIVE REPORT OF THE DEPARTMENT



Department of Aeronautical Engineering



1. **Name of the Department :** **Aeronautical Engineering**
2. **Year of establishment:** Department of Aeronautical Engineering was established in the year 2007 in St.Peter's Engineering College which was declared as Deemed to be University in 2008.
3. **Is the department part of a School/ Faculty of the university**

Department of the University
4. **Names of the Programmes offered (UG, PG, Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt etc.)**
 - B.E (Aeronautical Engineering) Suspended
 - M.E (Aeronautical Engineering) Suspended
5. **Interdisciplinary programmes and departments involved**

S. No	Interdisciplinary courses	Year /Sem	Departments
UG Programme B.E. (Aeronautical)			
1	113EHT01-Technical English-I	I/I	English
	213EHT01-Technical English-II	I/II	
2	113MAT02-Mathematics-I	I/I	Mathematics
	213MAT02-Mathematics-II	I/II	
	313MAT01-Transforms and Partial Differential Equations	II/III	
	413AET01-Numerical Methods	II/IV	
3	113PHT03-Engineering Physics-I	I/I	Physics
	213PHT03-Engineering Physics-II	I/II	
4	113CYT04-Engineering Chemistry-I	I/I	Chemistry
	213CYT04-Engineering Chemistry-II	I/II	
5	113CPT05-Computer Programming	I/I	CSE
6	213EET05-Basic Electrical and Electronics Engineering	I/II	EEE
	513AET05-Control Engineering	III/V	

7	113EGT06-Engineering Graphics	I/I	Mechanical Engineering
	213EMT06-Engineering Mechanics	I/II	
	313AET02-Manufacturing Technology	II/III	
	313AET03-Aero Engineering Thermodynamics	II/III	
	313AET04-Fluid Mechanics and Machinery	II/III	
	313AET05-Solid Mechanics	II/III	
	413AET04-Mechanics of Machines	II/IV	
8	413AET03-Environmental Science and Engineering	II/IV	Chemical Engineering
9	613AET01-Principles of Management	III/VI	MBA
	713AET01-Total Quality Management	IV/VII	
	712AET01-Total Quality Management	IV/VII	
PG Programme M.E. (Aeronautical)			
10	113ARPT01-Applied Mathematics	I/I	Mathematics

6. Courses in collaboration with other universities, industries, foreign institutions.

Nil

7. Details of programmes discontinued, if any.

Nil

8. Examination system with: Annual/Semester/Trimester/Choice Based credit system.

Semester system and Choice Based Credit System (CBCS)

9. Participation of the department in the courses offered by other departments

Nil

10. Number of Teaching posts sanctioned, Filled

	Sanctioned	Filled	Actual (including CAS & MPS)
Professors	-	-	-
Associate professors	1	1	1
Asst. Professors	3	3	3

11. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

S. No	Name of the faculty	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D students under guidance
1.	Mrs.A.Bharathi	M.E	Associate Prof	Avionics	13	-
2.	Mr.A.Muthukrishnan	M.E	Asst. Prof	Aeronautical Engineering	3	-
3.	Mr.M.Dinesh	M.E	Asst. Prof	Aeronautical Engineering	2	-
4.	Mr.N.Kalaimani	M.E	Asst. Prof	Avionics	3.8	-

12. List of senior visiting faculty :

Nil

13. Percentage of classes taken by temporary faculty-programme – wise information

Nil

14. Programme-wise Student Teacher Ratio

S.No	Program	Sanctioned strength	Student Teacher ratio
1	B.E(Aeronautical)	30	15:1
2	M.E(Aeronautical)	18	12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

	Sanctioned	Filled	Actual (incl. CAS &MPS)
Support Staff (Technical)	1	1	1
Administrative Staff	1	1	1

16. Research thrust areas as recognized by major funding agencies.

Research Areas	Funding Agencies
<ul style="list-style-type: none"> • Applied Mechanics - Failure and Fracture Mechanics, Advanced Materials • Fluid & Thermal Systems - Combustion and Propulsion, Internal Combustion Engines 	<p>Ford, Goodrich, Hyundai,</p> <p>DST, DRDO</p>

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

- a) National Funding Agencies: Nil
- b) International Funding Agencies : Nil
- c) Total Grants Received : Nil

18. Inter-institutional collaborative projects and associated grants received

- a) National Collaboration - Nil
- b) International Collaboration - Nil

19. Departmental projects funded by DST-FIST; DBT, ICSSR, AICTE etc; total grants received.

Nil

20. Research facility/centre with

- State recognition - Nil
- National recognition - Nil
- International recognition - Nil
- Others

Sl.No	Softwares available
1	AUTO CAD
2	CREO
3	ANSYS

21. Special research laboratories sponsored by / created by industry or corporate bodies.

Nil

22. Publications

- a) No. of paper published in peer reviewed journals (National/International)

Year	International Journal	National Journal	International Conference	National Conference	Total
2015	1	-	1	4	6
2014	1	-	1	1	3
2013	-	-	-	3	3
2012	1	-	-	-	1
2011	2	-	1	-	3
2010	-	-	1	-	1
Total	5	-	4	8	17

PUBLICATIONS IN INTERNATIONAL JOURNALS

2015	
1	Evangeline.C, Bharathi.A , “Financial Markets: Conceptual Studies” International Global Journal of Business and Management Research, Vol-I Issue-2, Feb-2015, ISSN 2349-7814

2014	
2	Bharathi.A , Avadiammal.M., “Conversion of destructive Acoustic energy into useful electrical energy for Aircraft internal lighting system” International journal for scientific and Engineering Research, Apr-2014, ISBN NO:978-81-927500-5-7 Impact Factor: 3.2
2012	
3	M.Chinnapandian , “A study on the thermodynamic analysis of a cascaded latent heat storage system over the single storage tank system for diesel engine waste heat recovery”, Int. Journal Exergy, Vol.11, No.3, 2012. Impact Factor: 0.921
2011	
4	V.Pandiyarajan, M.Chinnapandian , V.Raghavan and R.Velraj, “Second law analysis of a diesel engine waste heat recovery with a combined sensible and latent heat storage system”, Journal of Energy Policy, pp. 6011-6020, 2011 Impact Factor: 2.7
5	Pandiyarajan. V, Chinnapandian M , Malan. E, Velraj. R, Seeniraj. R.V., “Experimental investigation on heat recovery from diesel engine exhaust using finned shell and tube heat exchanger and thermal storage system”, Applied Energy, Vol. 88, pp. 77-87 2011. Impact Factor: 5.61

PUBLICATIONS IN INTERNATIONAL CONFERENCES

2015	
6	Evangeline.C, Bharathi.A , “Paradigm Shift in Management” International Conference. ISSN 2349-7814
2014	
7	Bharathi.A , Avadiammal.M, “Conversion of destructive Acoustic energy into useful electrical energy for Aircraft internal lighting system” International Conference on Green Technologies for Power Generation & Communication ICGPC-2014, Apr-2014, ISBN NO:978-81-927500-5-7 Pg No. 123-126
2011	
8	M.Chinnapandian ,V.Pandiyarajan and R.Velraj, “Experimental Investigation of A Latent Heat Storage System for Diesel Engine Waste Heat Recovery with and without Cascaded Arrangement” International Conference on Mechanical, Automobile and Robotics Engineering (ICMAR’2011)
2010	
9	Chinnapandian.M , “Comparative study of vehicular pollution load of biodiesel and conventional diesel fuel at north east karnataka state road transport corporation, Gulbargur” International conference on Frontiers in Automobile and Mechanical Engineering ‘2010

PUBLICATIONS IN NATIONAL CONFERENCES

2015	
10	Devika.C, Bharathi.A , “ Design and Optimizing wing spar for commercial aircraft” National conference on Mechanical Sciences March 2015 Pg No.23-28
11	Prassan Kumar.S, Santhosh Kumar.M, Dinesh.M , “Flow simulation and Analysis of Main refueling line of Tejas” National Conference on research and innovative development in aeronautical Engineering March 2015 Pg No.40-45
12	Dinesh.M, Deepan.J , “Drag estimation and flow field investigation around OREX typical reentry capsule at Mach No. 2.5&3.5”National Conference on research and innovative development in aeronautical Engineering March 2015 Pg No.37-39
13	Bharathi.A , Annamahesh.A, “Fabrication and Analysis of natural fiber reinforced composite material for construction” National seminar on Advanced construction techniques and geotechnical Engineering Feb-2015 Pg No.172-179
2014	
14	Bharathi.A , Biswajit Dey, “Vibration, Mechanical Behaviour and Fracture analysis of Materials” Design, Materials & Construction(NCDMC 2014) March 2014 Pg No.61-65
2013	
15	M.Kamatchi Hariharan , D.David, “Design and performance analysis of single inlet multiple outletjet nozzle with thrust vector control” National conference on mechanical sciences March 2013 Pg No.120-129
16	Vinoth.V , “Design and performance analysis of a tail sitter UAV” National conference on mechanical sciences March 2013
17	A.Bharathi , “Quaternion based non-linear modeling of SDINS” National conference on mechanical sciences Mar 2013 Pg No.51-58

b) Monographs – Nil

c) Chapters in Books

S.No.	Name of the Author	Name of the Chapter	Title of the Book	Publisher
1.	-	Nil	-	-

d) Edited Books – Nil

e) Books with ISBN with details of Publishers – Nil

- f) **Number listed in International Database(for e.g. web of science, scopus, Humanities International complete, Dare Database –International Social sciences Directory, EBSCO host, etc) - 2**
- g) **Citation Index - range/ average – : Nil**
- h) **SNIP - : Nil**
- i) **SJR - Nil**
- j) **Impact factor - Range /average : 3.11**
- k) **H-index- Nil**
- l) **Total Impact factor – 12.461**

23. Details of patents and income generated.

Nil

24. Areas of consultancy and income generated.

Nil

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad.

Nil

26. Faculty Serving in a) National Committees b) International Committees c) Editorial Boards

- a) **Faculty serving in National Committees - Nil**
- b) **Faculty serving in International Committees - Nil**
- c) **Editorial Boards - Nil**
- d) **Any other (please specify) - Nil**

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, Workshops, training programs and similar programs).

Year	FDP	Training Prog.	Workshops	Seminars	Conference
2015	-	1	1	1	3
2014	3	1	5	-	3
2013	1	1	-	-	5
2012	3	-	-	-	-
2011	-	-	1	-	-
2010	-	1	-	-	1

Workshops / training program details are given in below table

S.No	Name of the faculty	Program	Organized by	Period
Faculty Development Programme				
1	Mr.M.Dinesh	Entrepreneurship	TBI, St.Peter's Universty	08.12.14 to 20.12.14
2	Mr.J.Deepan	Entrepreneurship	TBI, St.Peter's Universty	08.12.14 to 20.12.14
3	Mr.A.Muthukrishnan	Entrepreneurship	TBI, St.Peter's Universty	08.12.14 to 20.12.14
4	Mrs.A.Bharathi	Advances in Internal Combustion Engineering	Dept of Mechanical Engg, St. Peter's University	06.05.13 to 18.05.13
5	Mr.V.Vinoth	Gas Dynamic and Jet Propulsion	Anna University	10.12.12 to 16.12.12
6	Mrs.A.Bharathi	Entrepreneurship	TBI, St.Peter's Universty	03.12.12 to 15.12.12
7	Mr.M.D.Raj Kamal	Entrepreneurship	TBI, St.Peter's Universty	03.12.12 to 15.12.12
Training Programme				
8	Mr.A.Muthukrishnan	NSS Camp	St Peter's University	21.02.15 to 27.02.15

9	Mrs.A.Bharathi	Solar Photovoltaic System	Institute for energy studies, Anna University	25.08.14 to 28.08.14
10	Mrs.A.Bharathi	CATIA	TBI, St. Peter's Engineering College	13.07.13 & 14.08.13
11	Mr.M.Chinnapandian	ISO 9001:2008 Quality management system and Audit	Creative management consultants	08.10.10 & 09.10.10
Workshops				
12	Mr.M.Dinesh	UAV Autopilot Programming using Arduino Mega	Adhiyamaan college of Engineering	06.08.15 & 07.08.15
13	Mrs.A.Bharathi	Popularization of Research Methodology and Techniques	St Peter's University	16.10.14 & 17.10.14
14	Mrs.A.Bharathi	Fire Safety	St Peter's University	15.10.14
15	Mr.M.Dinesh	Fire Safety	St Peter's University	15.10.14
16	Mr.J.Deepan	Fire Safety	St Peter's University	15.10.14
17	Mrs.A.Bharathi	Emerging Trends on Nano Materials for Engg Applications	Dept of Production Technology, MIT	21.02.14 & 22.02.14
18	Mr.Chinnapandian	Recent Developments in Large scale solar thermal systems for commercial applications and green buildings	Anna University	22.06.11
Seminars				
19	Mrs.A.Bharathi	National seminar on Advanced construction techniques and geotechnical Engineering	St.Peter's College of Engineering and Technology	25.02.15 & 26.02.15
Conferences				

20	Mr.M.Dinesh	National Conference on Research and Innovative development in Aeronautical and Mechanical Engineering	Adhiyamaan College of Engineering	26.03.15 & 27.03.15
21	Mr.Deepan	National Conference on Research and Innovative development in Aeronautical and Mechanical Engineering	Adhiyamaan College of Engineering	26.03.15 & 27.03.15
22	Mrs.A.Bharathi	National Conference on Recent Advances in Mechanical Sciences'15	St. Peter's University	27.03.15
23	Mrs.A.Bharathi	International conference on Paradigm Shift in Management	St. Peter's University	13.02.15
24	Mrs.A.Bharathi	National Conference on Modern construction Materials and Technology (NCMCMT)	St.Peter's College of Engineering and Technology	06.11.14 & 07.11.14
25	Mrs.A.Bharathi	International conference for scientific and Engineering Research	St. Peter's University	03.04.14 & 04.04.14
26	Mrs.A.Bharathi	Design, Materials and Construction (NCDMC 2014)	Veltech University	05.03.14 & 06.03.14
27	Mr.J.Deepan	National Conference on Wind tunnel Testing-03	VSSC, Trivandrum	23.09.13 & 24.09.13
28	Mrs.A.Bharathi	National Conference on Mechanical Sciences'13	St. Peter's University	14.03.13 & 15.03.13
29	Mr.M.Kamatchi Hariharan	National Conference on Mechanical Sciences'13	St. Peter's University	14.03.13 & 15.03.13
30	Mr.V.Vinoth	National Conference on Mechanical Sciences'13	St. Peter's University	14.03.13 & 15.03.13

31	Mr.M.Chinnapandian	International conference on Frontiers in automobile and Mechanical engineering 2010	Sathyabama University	25.11.10 to 27.11.10
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28. Student Projects

- **Percentage of students who have done in-house projects including inter-departmental projects**
- **Percentage of students doing projects in collaboration with other universities /industry/institute**

Year	% of In-house Projects	% of project in collobaration with other University / Industry / Institute
B.E Projects		
2011 – 2015	75	25
2010 – 2014	100	0
2009 – 2013	93.75	6.25
2008 – 2012	95	5
2007 – 2011	94.74	5.26
M.E		
2013 – 2015	100	0

29. Awards / recognitions received at the national and international level by Faculty:

- **Awards and Recognition of Faculty**

Nil

- **Doctoral / post doctoral fellows**

Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (National / International) with details of outstanding participants, if any.

Academic Year	Seminars	Conferences	Workshops
2010-2011	-	-	-
2011- 2012	-	-	-
2012- 2013	1	-	-
2013- 2014	-	-	-
2014-2015	-	-	2
Total	1	-	2

S.No	Title of the program & period	Convenor/ Co-ordinator	National/ International	Funding Agency
1	Hands on Training in Robotics by WITY solutions 04 Sep 2014 & 05 Sep 2014	Mr.J.Deepan	National	St. Peter's University
2	SAE Collegiate Club and Events 18 Aug 2014 & 19 Aug 2014	Mrs.A.Bharathi	National	SAE Collegiate Club & St. Peter's University
3	Recent Trends in two wheeler Engineering 15 Apr 2013	Dr.M.Chinnapandian SAE/ Faculty Advisor	National	SAE Collegiate Club
	Intelligent Transport Vehicles 15 Apr 2013	Dr.M.Chinnapandian SAE/ Faculty Advisor		

31. Code of ethics for research followed by the departments:

- Researchers must respect the rights, interests and dignity of participants and related persons in research
- Research must be undertaken in accordance with any relevant common law or legislation.
- Informed consent should normally be obtained from participants.
- Consent itself should be given freely without force or coercion.

- Researchers have an obligation to protect research participants wherever possible from significant harm consequent upon the research.
- The confidentiality of information supplied by research participants and any agreement to grant anonymity to respondents should be respected
- All research involving human participants whether undertaken by academic staff, other university staff or students is to be subject to ethical approval.
- Both the design of research and its conduct should ensure integrity and quality.
- Research is to be undertaken subject to the principle of academic independence. Where any conflicts of interest or partiality arise, these must be clearly stated prior to ethical approval being obtained.

32. Student profile programme-wise:

Name of the Programme (refer to question no.4)	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
B.E.					
2008-2012	66	53	13	98.1	100
2009-2013	53	47	6	95	100
2010-2014	33	30	3	80	33.3
2011-2015	14	12	2	42	100
2012-2016	8	5	1	-	-
2013-2017	2	2	-	-	-
2014-2018	3	3	-	-	-
M.E.					
2013-2015	3	2	1	100	100
2014-2016	2	2	-	-	-

33. Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the state	% of students from universities outside the state	% of students from other countries
B.E				
2010-2011	-	-	-	-
2011-2012	-	-	-	-
2012-2013	-	-	-	-
2013-2014	-	-	-	-
2014-2015	-	-	-	-
M.E				
2013-2014	-	100	-	-
2014-2015	-	100	-	-

34. How many students have cleared Civil services and Defense service examinations, NET, SLET, GATE and other competitive examinations? Give details category wise.

S.No.	Name of the student	Programme & Batch	Competitive Exams details
1	Anand Prabhu	2008-2012	IELTS (2012)
2	Subhajit Roy	2009-2013	GATE (2013)

35. Student progression for last 5 years

Student progression	Percentage against enrolled				
	2010-11	2011-12	2012-13	2013-14	2014-15
UG to PG	14.5	16.92	1.9	9.37	7.14
PG to M.Phil.	-	-	-	-	-
PG to Ph.D.	-	-	-	-	-
Ph.D to post -Doctoral	-	-	-	-	-
Employed	-	60	75	-	14
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	90	40	25	75	-

36. Diversity of staff.

Percentage of faculty who are graduates	
of the same University	-
From other universities within the state	100%
From Universities from other states	-
From Universities outside the country	-

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period.

S.No	Registration No	Name of the Faculty awarded with Ph.D	Year	Title of the Thesis
1	2004219102/RG	Chinnapandian.M	2010	Experimental Investigation and Thermodynamic Analysis of a Cascaded Latent Heat Storage System for Diesel Engine Waste Heat Recovery

38. Present details of departmental infrastructural facilities with regard to

a) Library:

- Books – Available in the central Library
- NPTEL Lectures
- International E-Journals : 08
- National Journals : 06

S.No	Journal Details
1	IEEE Transactions on Aerospace and Electronic Systems
2	Journal of Nanomechanics and Micromechanics, ASCE
3	Journal of Aerospace Engineering, ASCE
4	Journal of Fluid Engineering, ASCE
5	Journal of Heat Transfer, ASCE
6	Journal of Engineering for Materials and Technology, ASCE

7	Journal of Turbomachinery, ASME
8	Journal of Engineering for Gas Turbine and Power, ASME
9	Journal of Aerospace Sciences and Technology
10	Journal of Spacecraft Technology
11	IEISERIES-C Aerospace Engineering
12	Indian Journal of Engineering Materials Sciences
13	International Journal of Advanced Mechatronics and Robotics
14	International Journal of Automated Identification Technology

b) Internet facilities for staff and students – YES

- Name of the Internet Provider : NKN + BSNL
- Available Bandwidth : 1 Gbps
- Computers are available in Digital Signal Processing lab. Students and staffs can access internet from the labs. The university has 1Gbps internet connectivity.

c) Total number of class rooms – 05

d) Class rooms with ICT facility - YES

The department has 3 UG class rooms and 2 PG class rooms equipped with OHP facilities. An air conditioned seminar hall to accommodate about 300 students where in seminars, guest lectures, and department meetings are organized.

e) Students Laboratories

- Aerodynamics Lab
- Aircraft structures Lab
- Propulsion Lab
- Aero engine Lab
- Airframe Lab
- Avionics Lab
- Aircraft systems Lab

f) Research Laboratories

- Technology Business Incubator (Shared With Other Departments)

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university - Nil
- b) from other institutions/universities

S. No	Registration Number	Name of the Ph.D Scholar
1	SP13AE101	Mr.G.Boopathy

40. Number of students receiving financial assistance from college, university, government or other agencies

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Before start up of this Master degree programme in 2013, we invited some industrial experts and academic people to discuss about the curriculum and the need of master degree in current period and different opportunities existing in this field. Based on their suggestion we created the curriculum and started up the Master level Programme.

42. Does the department obtain feedback from

a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

- Yes – the feedback from faculty members were analyzed and it resulted in organizing seminars, Guest Lectures, Industrial Visits and making the students to involve in mini projects.

b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

- Yes – The feedback information's were analyzed and proper measures have been taken to fulfill the needs of the students like updating the curriculum in Board of Studies every year and to improve the quality of teaching-learning process by adopting application oriented classes.

c) Alumni and employers on the programmes offered and how does the department utilize the feedback?

- Yes, the feedback from alumni and employers were considered to implement the changes in the curriculum and student career development strategies and to improve the placement status of the department.

43. List the distinguished alumni of the department (maximum 10).

S.No	Name of the Alumini	Batch	Company/ Institution	Position
1	Ms.Merly M James	2008	Renault Nissan	Design Engineer
2	Mr.Saurabh Agrahari	2009	HAL	Design Engineer
3	Mr.Srivatchavan	2010	Infosys	System Engineer
4	Mr.Dipankar Ranjan Chowdury	2010	Aerocrats	Sales Director
5	Mr.Joysen	2010	Aerocrats	HR
6	Mr.Mohan Krishna Maharjan	2010	Aerocrats	Technical Officer
7	Mr.sourav Paul	2010	Cape Gemini	Research Associate
8	Mr.Prassan Kumar	2011	Agana Global Solutions	Process Associate

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Details of Students enrichment programmes are given below

S.No.	Event Name	Event Date	External Experts
Special Lectures Organized From 2010-2015			
1	Design Against Fatigue	24.03.15	Dr.D.S.Ramachandramoorthy Vice Chancellor St.Peter's University
2	Spectrophysics as an investigative tool in Material Characterization	18.09.14	Dr.S.Gunasekaran Dean/ R&D St.Peter's University

3	Aircraft Pressurization – How & Why?	14.02.13	Mr.Martine Fiddler Senior Lecturer Staffordshire University, U.K
Workshops Organized From 2010-2015			
1	Hands on Training in Robotics by WITY solutions	04.09.14 & 05.09.14	WITY Solutions
2	SAE Collegiate Club and Events	18.07.14 & 19.07.14	Mr.M.Chinnapandian SAE/Advisor & Dr.P.V.Senthil HOD/Mechanical St. Peter's University
Seminars Organized From 2010-2015			
1	Recent Trends in two wheeler Engineering	15.04.13	Mr.P.Xavier jaganathan Managing director Goodwin Motors, Chennai
2	Intelligent Transport Vehicles		Mr.M.Chinnapandian HOD/Aero St.Peter's University
Placement Training Organized From 2010-2015			
1	Live Life Curriculum for 1 st , 2 nd and 3 rd year students	2012-2013	Dr. Kannan Girish Psychiatrist, Ms.Jennifer
2	Training on Analytical and communication skills for final year students	2012-2013	Smart Training Resources Pvt. Ltd, Chennai
3	Live Life Curriculum for 1 st year students	2013-2014	Dr. Kannan Girish Psychiatrist, Ms.Jennifer
4	Training on Analytical and communication skills for final year students	2013-2014	Smart Training Resources Pvt. Ltd, Chennai
5	Training on Analytical and communication skills for final year students	2014-2015	Smart Training Resources Pvt. Ltd, Chennai
6	Training on Analytical and communication skills for final year students	2015-2016	Smart Training Resources Pvt. Ltd, Chennai

45. List the teaching methods adopted by the faculty for different programmes.

- Our faculty uses some of the modern teaching methodologies to improve the quality of the students. They include the use of LCD projector. Using PPT's the technical concepts were explained clearly.
- To enhance comprehension animated and simulation videos were shown to the students, so that they can easily understand the concepts.
- To sharpen their Knowledge in various thrust areas, Technical Competitions are conducted.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- The programme objectives are met through assessment tools which include four continuous assessment tests, assignment and one end semester examination.
- The progress report has been sent to parents for every unit test and model exam.
- The slip test has been conducted for the failure students and class committee meeting is also conducted for improving students performance.
- Student Participation in Various Mini Projects with help of the Faculty members.

47. Highlight the participation of students and faculty in extension activities.

- Students are encouraged to participate in various extension activities by joining University level NSS programme, paper presentation, Sports and extra curricular activities.
- Some of the faculty members take part in Social Service Activities through NSS.

Students participated in extension activities like events conducted in symposium and workshops

S. No	Student Name & Class	Activity	Organized by	Period	Award Received
1	Mr.Biswajit Dey / IV Year	Project Design Contest- 15 th FUTURA	Bannari Amman Institute of Technology, Erode	02.09.13 to 04.09.13	Participated
2	Mr.Biswajit Dey / IV Year	RC Car Workshop – DEUS EX MACHINA 10	Velammal Engineering College	31.08.13	Participated
3	Mr.Prabakaran .R/ IV Year	Aerospace Festival 2013	Periyar Maniammai University	21.01.13 to 23.01.13	Participated
4	Mr.Senthil Kumar.K/ IV Year	Aerospace Festival 2013	Periyar Maniammai University	21.01.13 to 23.01.13	Participated
5	Mr.Chidambaram/ III Year	Air Crash Investigation- FLIEGEN'11	Park college of Engineering and Technology	21.02.11 to 23.02.11	I ST
6	Mr.Sarvesh.D/ III Year	Impulse - TECHKRITI	IIT Kanpur	17.02.11 to 21.02.11	2 ND
7	Mr.Anand Prabhu.M/ III Year	Impulse - TECHKRITI	IIT Kanpur	17.02.11 to 21.02.11	2 ND
8	Mr.Naveen Kumar.U/ II Year	Aviator (Best Innovative) – TECHFEST 2011	IIT Bombay	2011	Participated
9	Mr.Muthu Kumar / II Year				
10	Mr.J.Mukesh/ II Year	Water Rocketry – SAYUNKTH 10	P.M.R Institute of Technology	08.03.10	I ST
11	Mr.K.Sreenith Adiyodi/ II Year	AD ACT – SAYUNKTH 10	P.M.R Institute of Technology	08.03.10	2 ND
12	Mr.S.Sathish Kumar / II Year	Glider Competition - PRATIYOG	Jeppiar Engineering College	05.03.10	I ST
13	Mr.K.Sreenith	Power of Air	Sathyabama	07.09.09	III RD

	Adiyodi/ II Year	–AVIANCA’ 09	University	& 08.09.09	
14	Mr.Naresh Kumar/ II Year	Sail Ship – Symposium	Kings Engineering College	03.09.09	III RD
15	Mr.Naresh Kumar/ II Year	Water Rocketry – ENGINDA-09	Vel Tech Multi Tech Engineering College	02.09.09	I ST

Students Participated in Sports activities:

S.No	Student Name & Class	Event	Period	Position
1	Mrs.Jayalakshmi & IV Year	100 m	Jan 2015	1 ST
2	Mrs.Jayalakshmi & IV Year	200 m	Jan 2015	1 ST
3	Mrs.Jayalakshmi & IV Year	800 m	Jan 2015	1 ST

48. Give details of “beyond syllabus scholarly activities” of the department.

- Conducts periodic guest lectures on cutting edge technologies by inviting Academicians and industry persons
- Conducts Workshops both for faculty and students to help in acquiring the necessary skills for using modern tools and techniques.
- The University has Anna University Edu Sat link through which students and faculty have access to the classes which are conducted once a week by senior Professors on selected subjects.

SYMPOSIUM

S. No	Symposium Name	Date	Chief Guest
1	HEPHAESTUS 2K14	07.10.14	Mr.Pradip Subramanian, Director- Innovative & Development Philips, Chennai
2	EQUINOX 2K13	10.10.13	Mr.J.A.Porselvan, Wing Commander Indian Air force, Tambaram
3	VIHMAN’10	28.09.10	Mr.N.Rangamani, Dy. General Manager, Air India, Chennai

INPLANT TRAINING/INTERNSHIP

S. No	Student Name	Company Name	Period
1	Mr.Alok Ranjan	Taneja Aerospace and Aviation Limited, Hosur, Tamilnadu	11.12.14 to 17.12.14
2	Mr.Saikalyan		
3	Mr.Md Cassim Sannan		
4	Mr.Nithyanandharaj		
5	Mr.Biswajit dey	Arrow Aviation Services Private Limited, Kolkata	09.07.13 to 23.07.13
6	Mr.Joysen		
7	Mr.Ranaghosh		

INDUSTRIAL VISIT

S. No	Year/Batch	Date	Company Name
1	IV / (2011-2015) II / (2013-2017)	26.09.14	CSIR- Founder's Day (Open day visit)
2	IV / (2010-2014) III / (2011-2015) II / (2012-2016)	21.01.14	Airforce Station Tambaram
3	IV / (2010-2014) III / (2011-2015) II / (2012-2016)	26.09.13	INS Rajali, Arakkonam
4	III / (2010-2014)	19.09.12	Airforce Station Tambaram
5	III / (2009-2013)	20.01.12	Airforce Station Tambaram
6	II / (2008-2012)	07.02.10	Taneja Aerospace and Aviation Limited, Hosur

49. State whether the programme/ department is accredited /graded by other agencies? If yes, give details

The Certification Body of TUV SUD South Asia Private Limited certifies that St.Peter's University has established and applies a Quality Management System and fulfilled the ISO 9001: 2008 which is effective from 2014-06-06.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- PG students are motivated for journal publications
- Conducting Technical Science Exhibition

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Well equipped Laboratories as per the curriculum
- Well Qualified faculties with good academic records
- High speed internet facility (Any time)
- Good Infrastructure (Classrooms)
- TBI Research Facility

Weakness:

- Lack of interaction with the Industries.
- Lack of Interaction with the foreign universities.
- Lack of Funds for Projects.

Opportunities:

- Technological, economic and demographic factors influencing the evolution of aerospace.
- Placement to various core companies and Government organization.
- Getting research projects and establishing the centre for research.

Challenges:

- To shape the future of the aerospace by providing efficient education.
- To inspire the future generation of engineers in aerospace.
- Making some foreign collaboration educational system for research.
- Getting Advanced Technical Knowledge by means of Industrial Interaction.

52. Future plans of the department

- To get funded projects from the Industries.
- Signing MOU with different industries to make industrial interaction for the students.
- Arranging in plant training in every semester to get update with the industrial projects.

PHOTO GALLERY



Guest Lecture by Dr.Prof.D.S.RamachandraMorthy Vice-Chancellor St.Peter's University conducted by Department of Automobile Engineering on the Topic Designing against Fatigue on 24th March 2015.



Welcome Speech by Mrs.A.Annamahesh for the Guest Dr.S.RamachandraMorthy on the National Seminar on 24th March 2015.



A.Ashfaq Ahammed third year student of Automobile Engineering was the Host of the event that Day 24th March 2015



Memento offered by Mr.Jenish to the respected Guest Dr.S.RamachandraMorthy on the National Seminar on 24th March 2015



Special Lecture by Dr. S.Gunasakeran Dean R&D St.Peter's University conducted by Department of Automobile Engineering on the Topic Spectrophysics as an investigative tool in material Characterization on 18th September 2014.



Photograph taken on Guest Lecture conducted on 18th September 2014.



Hands on Training in Robotics, Conducted by WITY Solutions on 04.09.2014



Hands on Training in Robotics, Conducted by WITY Solutions on 05.09.2014



EQUINOX 2K13 conducted on 10th October 2013 with our special chief guest Mr.J.PORSELVAN Wing Commander Indian Air Force – Tambaram



EDU SAT & NPTEL programs arranged for some subjects which benefited the students.