The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

Part – A AQAR for the year (for example 2013-14) 2015-16 1. Details of the Institution Velammal Engineering College 1.1 Name of the Institution Velammal New-Gen park 1.2 Address Line 1 Ambattur – Redhills Road Address Line 2 Chennai – 600 066 City/Town Tamil Nadu State 600 066 Pin Code principal@velammal.edu.in Institution e-mail address 044 - 39666005Contact Nos.

Name of the Head of the Institut	ion: Dr	.N. Duraipandian		
Tel. No. with STD Code:	044 – 396	6 6010		
Mobile:	0 – 89398	26491		
Name of the IQAC Co-ordinator:	Dr.S. Srinath			
Mobile:	0 – 99411 37212			
IQAC e-mail address:	drsrinath.	eee@velammal.edu.in		
1.3 NAAC Track ID (For ex. MHCOGI	N 18879)	TNCOGN13954		
OR				
1.4 NAAC Executive Committee No.	& Date:	F.19.26/EC(SC-13)/DO/2016/39.2 dated		
(For Example EC/32/A&A/143 dated	3-5-2004.	17 th March 2016		
This EC no. is available in the right co	orner- bottom			
of your institution's Accreditation Co	ertificate)			
Г	www.velamm	al.edu.in		
1.5 Website address:				
http://	velammal edu in/nd	f/AOAB15-16.pdf		
Web-link of the AQAR: http://velammal.edu.in/pdf/AQAR15-16.pdf				

Revised Guidelines of IQAC and submission of AQAR

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.27	2009	5
2	2 nd Cycle	Α	3.07	2016	5

- 1.7 Date of Establishment of IQAC : DD/MM/YYYY 07-08-2010
- 1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11submitted to NAAC on 12-10-2011)

AQAR 2015 – 16 submitted to NAAC at present after the latest assessment and acceditation

1	a	Incti	tut	iona	l Stat	110
Ι.		เบรน	ιαι	iulia	ı Stat	u۵

University State	Cent	ral Deemed		Private \[\forall \]
Affiliated College	Yes V	No		
Constituent College	Yes	No V		
Autonomous college of UGC	Yes	No 🗸		
Regulatory Agency approved	Institution	Yes v No		
(eg. AICTE, BCI, MCI, PCI, NCI))			
Type of Institution Co-edu	cation $\sqrt{}$	Men	Women	
Urban 🗸	Rural	Tribal		
Financial Status Grant	-in-aid	UGC 2(f)	UGC 12B	
Grant-in-aid + S	elf Financing	g V Totally Self-	financing	

1.10 Type of Faculty/Programme

Arts Science Comme	rce Law	PEI (Phys Edu)	
TEI (Edu) Engineering V Health Scie	ence	Management	
Others (Specify)			
1.11 Name of the Affiliating University (for the	c Colleges)	Anna University, Chenn	ai
1.12 Special status conferred by Central/ State	e Government-	- UGC/CSIR/DST/DBT/ICN	∕IR etc
Autonomy by State/Central Govt. / Univer	sity No		
University with Potential for Excellence		UGC-CPE	
DST Star Scheme			
UGC-Special Assistance Programme		DST-FIST	Yes (Mechna
UGC-Innovative PG programmes		other (<i>Specify</i>)	
UGC-COP Programmes			
2. IQAC Composition and Activities			
2.1 No. of Teachers	14		
2.2 No. of Administrative/Technical staff	02		
2.3 No. of students	02		

2.5 No. of Alumni	02
2. 6 No. of any other stakeholder and community	y representatives 01
2.7 No. of Employers/ Industrialists	01
2.8 No. of other External Experts	01
2.9 Total No. of members	24
2.10 No. of IQAC meetings held	02
2.11 No. of meetings with various stakeholders:	Faculty 2
Non-Teaching Staff Students 2	Alumni 1 Others 2
2.12 Has IQAC received any funding from UGC du	ring the year? Yes No V
If yes, mention the amount	
2.13 Seminars and Conferences (only quality rela	ted)
(i) No. of Seminars/Conferences/ Workshop	s/Symposia organized by the IQAC
Total Nos. International N	lational State Institution Level 02
(ii) Themes National Board of Accredit	tation, Workshop of spoken tutorial, ISO, New Strategic
2.14 Significant Activities and contributions mad	e by IQAC
lectures, to learn Open Source Software	eaching by involving students and faculty for NPTEL s from Spoken Tutorial Team from IIT Bombay, ction Delivery System (IDS) following Bloom's
2.15 Plan of Action by IQAC/Outcome	
The plan of action chalked out by the IQAC i	n the beginning of the year towards quality
enhancement and the outcome achieved by the	end of the year *

Plan of Action	Achievements
Acquirement of accreditation by	The department of ECE, EIE & CSE have
NBA for five departments	acquired three years accreditation. The NAAC peer team visited the institution from 25 th to 27 th February 2016 and accredited with a CGPA of 3.07 on a 4 point scale with A grade valid over a period of five years.
New strategic plan to improve the quality of teaching, research and enhancing the quality of engineering education in VEC	New strategic plan was endorsed by the management for approval and action

^{*} Annexure – 1- Academic calender

2.15 Whether the AQAR was placed in statutory body Yes V No						
Managemei Pro	ont V Syndicate Any other body vide the details of the action taken					
	The activities are well supported by the management.					

Pa	rt	_	R

Criterion - I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	04			
PG	08			
UG	09			10
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total				
Interdisciplinary				
Innovative				

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
 - (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	17 (UG+PG)
Trimester	
Annual	

1.3 Feedback from stakeholders* (On all aspects)	Alumni	٧	Parents	٧	Employers V Students V	
Mode of feedback :	Online	٧	Manual	٧	Co-operating schools (for PEI)	
Please provide an analysis of the feedback in the Annexure						

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Regulation 2013 - Framed by Anna University is followed

Criterion – II											
2. Teaching, Lear											
2.1 Total No. of	Total	l		Professors		ciate Pr	rofessors		ofessors	Oth	ers
permanent faculty 227			186		19			23		-	
2.2 No. of permanent fact	ulty with	Ph.D	. [53							
2.3 No. of Faculty Position Recruited (R) and Vacant		Ass	t. fessors	Associ Profess		Profes	ssors	Other	s	Total	
during the year	ι(ν)	R	V	R	V	R	V	R	V	R	V
		23	5	9	2	4	1	-	-	36	8
2.5 Faculty participation	in confer	•		porary fac mposia:	ulty 2				[
No. of Faculty	Internati	ences	and sy	mposia:	l level	State	e level		[
No. of Faculty Attended	Internati	ences ional 77	and sy	ymposia: Nationa 39	l level						
No. of Faculty	Internati	ences	and sy	mposia:	l level		e level				
Attended Presented papers	Internati	ences ional 77 82 07 by the	and sy level	Nationa 39 55 07 ution in Tea	l level	and Lea	25 11 arning:				es
No. of Faculty Attended Presented papers Resource Persons 2.6 Innovative processes Group discussion	adopted by a seaching of the s	ional 77 82 07 by the ars, Q visits days forms Open	e institu uiz, NF , Videc	Nationa 39 55 07 ation in Tea TEL lectures, A 180 ed by Examinati	aching aching ses, Spok	and Leacen tuto	25 11 arning: orial, Reg y Edu-Sat Test Phot is pr	s for s and	Unit Tes model e y of univ	t, 2setexamin	ts for Cycle

restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

2.10 Average percentage of attendance of students



2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students			Division		
Frogramme	appeared	Distinction %	I %		II %	Pass %
		UG R	esults			
B.E (Automobile)	63	8	75		17	89
B.E (Civil)	127	7.87	66.14		10.23	51
B.E (CSE)	190	8.42	54.21		5.78	82.6
B.E (EEE)	134	11.94	73.13		3.73	89.55
B.E (ECE)	203	20.19	68	68 01		89.65
B.E (EIE)	120	6.6	74.16		3.3	84.16
B.E (Mech)	201	5.47	78.61		4.98	89.05
B.E (Production)	64	1.5	79.68	79.68		87.5
B.Tech (IT)	120	3.33	78.33		13.33	95
		PG R	esults			
M.E (CSE)	15	2.66	73.34	-		100
M.E (C&I)	14	0	100	0		100
M.E(Applied Electronics)	9	44	56	-		100
M.E (PSE)	18	11	89	-		100
M.E (IC Engines)	13	23.07	61.53	51.53 0		84.61
M.E (EST)	11	27	73	-		100
M.E (Const.Engg &Mgmt)	13	6	7	-		100
M.B.A	43	2	31	9		97.6

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

Velammal Engineering College has a well-established policy for Quality Assurance that was achieved through Internal Quality Assurance Cell.

The IQAC was constituted to take up the following activities:

- 1. Development of Quality benchmark / parameters for various academic and administrative activities of the institute.
- 2.Organization of workshops, seminars and quality related themes.
- 3. Documentation of various programmes / activities leading to quality improvement.
- 4. Conducting internal quality audit periodically.
- 5. In the periodical Class Committee Meetings (CCMs), the students share their views on present teaching-learning process and how to improve them. The students have abosoute freedom to crique the loopholes in the system and bring amendments to close the gap between the teaching and learning. They

are encouraged to propose and organize various co-curricular and extra-curricular activities in the institution.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	10
UGC – Faculty Improvement Programme	9
HRD programmes	0
Orientation programmes	10
Faculty exchange programme	0
Staff training conducted by the university	10
Staff training conducted by other institutions	32
Summer / Winter schools, Workshops, etc.	73
Others	29

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	08	-	-	-
Technical Staff	46	01	07	-

Criterion - III

3. Research, Consultancy and Extension

- 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution
 - Research projects taken up by the college are mostly of national relevance.
 - Both postgraduate and under graduate students give preference to take up projects related to industrial and society needs.
- 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	3	6	3	14
Outlay in Rs. Lakhs	51	55.3	62.5	104

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number		4		
Outlay in Rs. Lakhs		0.6		

3.4 Details on research publications

	International	National	Others
Peer Review Journals	49	01	
Non-Peer Review Journals	24	-	
e-Journals	02	-	
Conference proceedings	72	53	

3.5	Detail	s on	Impact	tactor	ot	pub.	lıca	tıons:
-----	--------	------	--------	--------	----	------	------	--------

		_					
Range	0.15 - 2.1	Average	1.8	h-index	32	Nos. in SCOPUS	87

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
	31.5.2010- 28.2.2013	DRDO	Rs.13.49 lakhs	Rs.13.49 lakhs
Major projects	Jan 2010 – April 2012	AICTE - MODROB	14.27 lakhs	14.27 lakhs
	August 2015 – 2018	DST	28 Lakhs	-
	2015-2016	Institution of Engineers (India)	Rs.20,000	Rs.20,000
	2015-2016	Institution of Engineers (India)	Rs.10,000	Rs.10,000
Minor Projects	1 year	IEI	0.20	0.20
	6 month	IEI	0.10	0.10
Interdisciplinary Projects				

Industry sponsored						
Projects sponsored by the	ie					
University/ College						
Students research project (other than compulsory by the University of the University						
Any other(Specify)	·					
Total						
3.7 No. of books published i) ii)	With ISBN No. Without ISBN N		hapters in l	Edited Bo	ooks 1	
3.8 No. of University Departme	nts receiving fur	ds from				
UG	C-SAP	CAS	DS	ST-FIST	1	
DPI	Ε		DI	BT Schei	me/funds	
3.9 For colleges Auto	onomy	СРЕ	DI	BT Star S	Scheme	
INS	PIRE	CE	Aı Aı	ny Other	(specify)	一
3.10 Revenue generated through	n consultancy	2,09,000				
3.11 No. of conferences	Level	International	National	State	University	Coll
organized by the Institution	Number	1	9 BRNS &			
organized by the montant	Sponsoring agencies		Industry			
	agonoros			1		
				1		
3.12 No. of faculty served as ex		ns or resource p	ersons	42		
Ž			ersons [Any other [
3.13 No. of collaborations 3.14 No. of linkages created dur	perts, chairperso Internation	onal Na			Any other [
3.13 No. of collaborations 3.14 No. of linkages created du 3.15 Total budget for research f	perts, chairperso Internation ring this year for current year in	onal Na 2 1 lakhs:	itional 2			
3.13 No. of collaborations 3.14 No. of linkages created dur	perts, chairperso Internation ring this year for current year in	onal Na	itional 2			
3.12 No. of faculty served as ex 3.13 No. of collaborations 3.14 No. of linkages created du 3.15 Total budget for research f From Funding agency 38. Total 54.6	perts, chairperso Internation ring this year for current year in From	onal Na 2 1 lakhs:	itional 2			
3.13 No. of collaborations 3.14 No. of linkages created dur 3.15 Total budget for research f From Funding agency 38.	perts, chairperso Internation ring this year for current year in From	onal Na 2 1 lakhs:	itional 2		e 16	

2.16 N-	- C t	4 41.:			County 1			_
3.10 No	. or paten	ts received this year	r Internati	ional	Granted Applied			
					Granted			
			Comme	rcialised	Applied			
2 17 No	of massage	ch awards/ recogni	tions massi	yad by fa	Granted	anah fall	O.V.I.O.	
		ate in the year	nons recei	ved by 12	icuity and resea	arch lene	ows	
		•						_
	Total	International	National	State	University	Dist	College	
	10	2	1	2	3	2	-	
								J
		y from the Instituti	on [23				
	are Ph. D							
and st	udents re	gistered under ther		82				
3.19 No.	of Ph.D.	awarded by faculty	from the In	stitution	02	7		
					02	_		
3 20 No	of Resear	rch scholars receiv	ing the Fello	wshins (Newly enrolled	l + existi	ing ones)	
3.20110.	or resea			wsinps (- CAISU	ing ones)	
	JRF	- SR	7 _	Project	Fellows _	Any	y other	-
						_		
3.21 No.	of studer	nts Participated in I	NSS events:					
				Unive	rsity level 9	St	ate level	47
				Nation	nal level 1	5 In	ternational l	evel
2 22 N	C . 1		NGG 4					
3.22 No.	or stude:	nts participated in	NCC events:					
				Unive	ersity level 1	3 S	tate level	11
				Notice	nal level		nternational 1	
				rano.	2	3	nemanonar	level
3 23 No	of Awar	ds won in NSS:						
3.23 110.	OI / I wai	ds won in 1100.						
				Unive	rsity level	St	ate level	
				Nation	nal level	 In:	ternational l	evel
3.24 No.	of Awar	ds won in NCC:						
						_		
				Unive	rsity level	St	ate level	1
				Natior	nal level	— In	ternational l	evel \Box
					-			1 1

3.25 No. of Extension activ	ities organi	zed		
University forum		College forum		
NCC	6	NSS	3	Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- International yoga day celebrations on 21st June 2015
- Condolence for Dr.A.P.J. Abdul Kalam on 28th July 2015
- Independence day parade 15th August 2015
- Coastal clean up on 21st September 2015
- Ship visit INS RANVIJAY on 11th October 2015
- Inter group competitions Athletics and Hockey- Won 1st Prize
- Warship Visit INS SHAKTHI
- Helmet Awareness Rally
- Combined annual training camp
- Republic Day parade
- Republic day CM-Rally
- Weapon Training camp

Criterion - IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	19.76	-	Tuition Fee	19.76
Class rooms	94+3			72
Laboratories	56			49
Seminar Halls	5			5
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	46	8	Management	54
Value of the equipment purchased during the year (Rs. in Lakhs)	53.05	26.7	Management	79.75
Others				

4.2 Computerization of administration and library

- ✓ Attendance for the entire campus is made through biometric system and monitored through system.
- e-governance at all levels and communication is sent to all departments through emails.
 Official domain mail id is provided to all faculty.
- ✓ LAN is maintained at all departments and internet facility is provided in all systems.

4.3 Library services:

	Existing 2014-15			wly 2015-16	Total		
	No.	Value	No.	Value	No.	Value	
Text Books	67883	18916937	1290	538881	69173	19455818	
Reference Books	4669	2334500	63	31500	4732	236600	
e-Books	-	-	-	-	-	-	
Journals	2764	4236903	174	471832	2924	4708735	
e-Journals	8954 +	5502926	9500+	913174	9500+	6416100	
Digital Database	272	50000	-	-	272	50000	
CD & Video	2495	-	139			2634	

Others (specify)	1013041	67750	1080791
Xerox machine			
and Furniture,			
etc			

4.4 Technology up gradation

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart- ments	Others
Existing	1190	13	All	3	6	20	87	NIL
Added	35	1	1	1	-	-	-	-
Total	1190	13	ALL	3	6	20	87	NIL

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

RAM Upgraded to 8Gb

OFC Communication is established

100 MBPS Speed Internet is provided

4.6 Amount spent on maintenance in lakhs:

i) ICT 0.75 Crores

ii) Campus Infrastructure and facilities 2.63 Crores

iii) Equipments 1.06 Crores

iv) Others 1.43 Crores

Total: 4.87 Crores

Criterion - V

5. Student Support and Progression

- 5.1 Contribution of IQAC in enhancing awareness about Student Support Services
 - ✓ The requirements and conduction of the services for students is discussed in a forum of HOD's meetings scheduled regularly every week conducted by the head of the institution.
 - ✓ The awareness on such services are made to the student community through their respective faculty advisors and also through office circulars originated from the O/o. Principal from time to time.
 - ✓ The support services like scholarships, library facilities, conduction of coaching classes, sports facilities etc are communicated also through notice boards maintained at different locations in the campus.
- 5.2 Efforts made by the institution for tracking the progression
 - ✓ 25% financial support is provided to students to participate in various competitions / conferences in India and abroad
 - ✓ In association with the British Council, Business English Certification Programme is conducted for all students for training towards TOEFL and GRE
 - ✓ Students are encouraged to attend technical / management competitive examinations like GATE,CAT, MAT etc.
 - ✓ Aptitude, soft skill training is provided by the placement and training division.
 - ✓ In-depth coverage of syllabus catering to practical oriented sessions help the students to excel in GATE exams.
 - ✓ Official duty permission is given to students writing GATE, TOEFL, GRE, MAT, CAT etc. on their day of exams and also two days for preparation.
 - ✓ Well facilitated communication lab is provided to enhance the students in their oral and wring skills and also in improving their skills in spoken English, computer literacy etc.
 - ✓ Remedial classes are arranged for the slow learners, and student counsellors continuously monitor their progress.

✓	Official duty is permitted to students to participate and to show cause their talent in the inter-
	college competitions increasing their exposure level.
,	

- √ Students are encouraged to publish articles in student / college newsletters / magazines
- Entrepreneurial cell is available to motivate the students to become a successful entrepreneur.
- ✓ Industrial visits are arranged regularly to make the students aware of the current industrial standards and requirements in their field of study.
- 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
4626	250	-	-

(b) No. of students outside the state

(c) No. of international students

Men

Women

No	%
1552	34

Last Year (2014-2015)						Th	is Ye	ar(201	5-2016)		
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
3888	571	22	369	02	4855	3857	610	19	389	01	4876

Demand ratio 98% Dropout 1 %

- 5.4 Details of student support mechanism for coaching for competitive examinations (If any)
 - In association with the British Council, Business English Certification Programme is conducted for all students for training towards TOEFL and GRE
 - Students are encouraged to attend technical / management competitive examinations like GATE, CAT, MAT etc.

No. of students beneficiaries

100

5.5 No. of students qualified in these examinations

SET/SLET **NET**

GATE

13

CAT

IAS/IPS etc

State PSC

UPSC

Others

24

12

5.6 Details of student counselling and career guidance

Counselling is done by the individual faculty members and a a counsellor at institute level is appointed. A separate career guidance cell is organized and run by training and Revis placement department.

age 18

NT.	of at		1	C: + + - 4
No	of st	udents	bene	titted

132

5.7 Details of campus placement

	Off Campus		
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
207	808	421	63

- 5.8 Details of gender sensitization programmes
 - 1. 19.8.15-women empowerment cell-Independance day celebration
 - 2. 26.9.15-Self defence programme for girls
- 5.9 Students Activities

	State/ University level	80	National level	7	International level	
	No. of students participat	ted in cu	ıltural events			
	State/ University level		National level		International level	
5.9.2	No. of medals /awards w	on by st	udents in Sports, C	Games an	nd other events	
Sports	: State/ University level	15	National level	5	International level	
Cultura	l: State/ University level		National level		International level	

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution		
Financial support from government	1845	3,76,69,490/-
Financial support from other sources		
Number of students who received International/ National recognitions		

5.11 Student organised / initiatives					
Fairs : State/ University level	8 National level	8	International level		
Exhibition: State/ University level	5 National level	5	International level [
5.12 No. of social initiatives undertaken by the students 5					

5.13 Major grievances of students (if any) redressed:

Grievances are addressed in the class committee meetings in the department headed by a senior faculty as Chairperson. Major grievances will be dealt through the grievance redressal committee.

Criterion - VI

- 6. Governance, Leadership and Managements
- 6.1 State the Vision and Mission of the institution

To educate the student community both by theory and practice to fit in with society and to conquer tomorrow's technology at global level with human values through our dedicated team.

6.2 Does the Institution has a management Information System

Yes.

- 6.3 Quality improvement strategies adopted by the institution for each of the following:
- 6.3.1 Curriculum Development

Program Assessment Committee meetings are conducted every year with academic and industry experts evaluating the feedback of various state holders and inputs by the faculty and students. Department meetings are held to assess the Course outcome, Program Outcome and Program Educational Objectives.

6.3.2 Teaching and Learning

Provision of state of the art learning resources in Central library

Highly ventilating and hygienic classrooms

Development of student support material

Conduct of remedial / slow learners / toppers coaching classes

Delivery of add-on-courses

Conduct of pre-placement training classes and campus connect programmes

Conduct of British English Language Certification courses

Structured course files and lab manuals for all courses

Continuous assessments and evaluation systems

Academic audit

Continuous improvement of resources

6.3.3 Examination and Evaluation

Properly structured and organized exam cell Two question paper setting pattern Evaluation and result analysis Retest conduction if required

Formulation of Research committees
Allocation of budget for in house R & D

Incentives and rewards for publications / research

Regular updation of Library facilities, ICT and Physical infrastructure

6.3.6 Human Resource Management

Transparent policy document

Transparent and scientific way of recruitment

Formulation and communication of policies of the college

Support for academic advancement

Systematic performance appraisal system and guidance to the people concerned

Systematic promotion policies

Democratic way of administration with participative management

6.3.7 Faculty and Staff recruitment

Systematic and procedural way of faculty & staff recruitment

Panel members consisting of experts from IITs, NITs, other Universities and industries in addition to the internal experts

6.3.8 Industry Interaction / Collaboration

Regulary organisation of industrial visits Guest lectures by experts from industry

6.3.9 Admission of Students

Through single window counselling conducted by Anna University, Chennai

6.4 Welfare schemes for

Teaching	08
Non teaching	04
Students	04

6.5 Tota	al corpus fund genera	ated Nil				
6.6 Whether annual financial audit has been done Yes						
6.7 Whether Academic and Administrative Audit (AAA) has been done?						
	Audit Type External Internal					
	Yes/No Agency Yes/No Authority					
	Academic	YES	ISO, NBA	YES	Principal	
	Administrative	YES	ISO, N BA	YES	Principal	
6.8 Doe	es the University/ Aut	onomous Colle	ege declares resu	lts within 30 day	rs?	
	For UG Programmes	s Yes	No	V		
			_		_	
	For PG Programmes	Yes	No		7	
6 9 Wh	at efforts are made b	ov the Universit	L v/ Autonomous	College for Exam	」 ⊔ination Reforms	;?
0.3 W II	-NA-	- The Oniversit	- Tutoriomous		iniacion recionni	•
	-NA-					
	hat efforts are made	by the Univers	ity to promote a	utonomy in the a	affiliated/constit	uent
college	s?					
VEC	is affiliated to Anna l	Jniversity.				
6.11 Ac	tivities and support f	rom the Alumn	i Association			
An a	ctive and effective al	umni associatio	on is maintained	by the training a	and placement d	epartment.
	ni association meetir					
	take part and help in ledge in the form of				eriences and tecl	nnical
KITOW	leage in the form of	<u>suest lectures a</u>	and help in place	ment trainings.		
Parents are regularly contacted and visit the campus whenever necessary. Some of the parents help						
in arranging industrial visits, guest lectures etc.						
6.13 Development programmes for support staff						
The supporting staff are encouraged to attend various refresher courses , technical development						
seminars conducted by external agencies etc. The NSS wing conducts various programs for the						
supporting staff.						
•	Energy Conservati Use of renewable					

Water harvesting

Check dam construction Plantation/Greening drives

Hazardous waste management and e-waste management

Criterion - VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Though restricted by the limited academic freedom of an affiliated institution, this college has introduced a spectrum of transformative and innovative options during last four years to respond to the complex needs of its stakeholders, as mentioned hereunder.

a) Innovative mechanism / process for internal quality checks

In its quest for excellence, the institution seeks continuous innovation for quality assurance in academic programmes & administration. Some of the mechanisms adopted are:

Academic system

- Handouts with lecture plan, assignment questions, useful Uniform Resource Locators (URL) and references is made available to the students in the beginning of the semester.
- Content Preparation is made available to all the students.
- Close monitoring of course coverage through frequent meetings of HODs with faculty members.
- Class Committee meeting are held thrice in a semester.
- Regular monitoring of academic activities through Academic Committee (Principal & HOD).
- Periodic collection of student feedback on individual subject teachers.
- Review of performance of teachers based on feedback and pass percentage of students at university examinations.
- Faculty mentors for every 20 students.
- Remedial classes, bridge courses to make up for weak and slow learners.
- Inviting experienced academia from reputed institutions and industry experts for delivering guest lectures.
- Incentives for those carrying out research and publishing papers/participating in Seminars/Conferences.
- Parents are informed about the performance of students after every internal examination. The attendance of students is closely monitored and informed to parents once in a fortnight. Also the performance of the students in the internal examination is communicated to parents. The students are counseled in this regard.

Administrative system:

Administrative mechanisms are in place for quality assurances are:

- An exclusive Examination Section headed by Officer-In-charge Examination is constituted.
- Training and Placement Cell takes care of all the aspects related to placements.
- College administration is run through Management, CEO, Advisor, Principal, Deans, HODs and Professors. All decisions are implemented after a consensus is arrived at.
- There is a centralized research committee with Advisor , Principal to overview all R
 & D related activities at departmental and institutional level.
- Maintenance of all buildings and other infrastructure is entrusted to GM (facilities) and maintenance team.
- Physical director and Assistant Physical director attend to all sports activities of boys and girls.
- Technicians in all departments look after the repair and maintenance of lab equipment under the supervision of the teaching staff.
- HOD and senior faculty of each Department look after the teaching and learning process in each Department.

b) Quality assurance for academic programmes

Performance Monitoring

- Right from the time of admission, performance of every student is carefully monitored. Based on the examination results, faculty advisors take up counseling of poor performers and try to assess the reasons for their poor performance. HOD's arrange special classes for poor performers.
- Periodic meetings are conducted by the Principal and HODs to review the results of internal and external examinations.
- The analysis of the results of end semester examinations is carried out, and further discussed by HOD with the Principal.
- Teaching staff members guide the students in their projects, monitor their performance and counsel them regarding their performance, apart from regular teaching. Thus, teachers play different roles like project guides, mentors, etc.
- This process ensures the quality of the teaching process.

Administration

 Academic Coordinators and Class advisers closely monitor student performance and intimate the parents.

Student evaluation

- At college level two unit tests / two cycle tests and one model exam are conducted for internal evaluation. The university conducts the end semester examination.
- Evaluation procedure & guidelines are given to the staff for both theory & practical exams. Corrected answer scripts of internal exam are shown to the students. Students are encouraged to express their doubts and irregularities observed, if any, in the evaluation, to the notice of concerned teachers, and to HOD, if necessary. The results are monitored by the HOD.

c) Quality assurance for administration

- The college is ISO certified Institution
- The College id NAAC accreditated with 'A' Grade having 3.24 in 4 point scale. Top scorer of Engineering education in 2009 in TN.
- 5 UG courses are NBA accreditated. Remaining 3 UG courses have applied for NBA

- accreditation.
- Enhanced placement record.
- Improvement in faculty expertise leading to qualified faculty.
- Provides opportunities to non teaching staff to enhance their skills and qualifications.

d. Innovations in Research and Development and Extension

- Research committee overviews the R & D activities in the college.
- R & D labs are established in each department.
- Inter-departmental research projects are encouraged.

e. National Events

• Several state level events like seminars, workshops are conducted for students and faculty in order to update their knowledge.

f. Modern ICT Tools

 For effective teaching-learning process, e - content, modern ICT tools such as LCD projector, etc. are made use of.

g. Installation of latest configuration computers

• The systems with old configuration were replaced by the systems with latest configuration. Majority of the computers are P IV with Dual Core processors.

h. Students' exposure to industries

• The students go on frequent visits to different industries related to their branch so that they can observe the processes taking place there. This provides greater awareness and clarity on the concepts and techniques they learn in the classrooms.

i. Industry Institute Interaction

 The following points are considered for formulating the policies on Industry-Institute Interaction

Industries role in curriculum assessment

Program assessment committee is formed by each department in collaboration with industries for assessment . The suggestions made therein are presented at the Board of Studies of the university.

Consultancy and Extension Lectures

- The College provides all the necessary facilities for consultancy work at institute level.
- Guest lectures by eminent personalities / industrialists are arranged for the benefit of students and Staff members.

Continuing education and Industrial Internship

• College organizes Guest Lectures by industry experts / eminent personalities on latest technologies.

 Professional Society membership is made obligatory to all faculty members of the college.

Industrial Visits and Industrial Training

- Local Industrial Visits are arranged for II/III/IV year students by obtaining permission from industries.
- Industrial Training is arranged for III year students during summer.

Project Work

 Students are encouraged to take up Industry related projects. The college has entered into MOUs with the various industries

Placement

 A training and placement cell is established with necessary infrastructural facilities for providing training and placement assistance to students.

I. Learner Centered Teaching

The College adopts a mix of different methods of teaching like interactive, discussion based, project based and seminars to supplement the normal lecture method, depending on the nature of the content of instruction.

Lecture Method:

The lecture method is used to the extent of 60 to 75 % to explain abstract and conceptual parts of the subject which demand critical thinking and analysis. Teacher presents the relevant data and diagrams through power point / chalk-board mode.

Interactive Method:

The lecture method of teaching is supplemented with "discussion and interactive method" wherever needed.

Project-based learning

This method is mostly used for self learning to improve the learning ability of student and to reinforce knowledge received during the lecture. Being a technical College, this method is extensively used to provide practical evidence of the theory learned. Students are asked to prepare projects with a clear concept of the principles learned. The teacher guides the students at various stages of developing the project, further gives timely inputs during the preparation of the project work. The methodology helps the students for bring accolades in various design competitions, publications in symposium and conferences.

Seminar Method:

From time to time, the teacher involves the active students into the seminar method. A student is

advised to come prepared on an assigned topic and present a seminar before the faculty and students. This method makes the student to undertake extensive reading and preparation, further; helps to improve the student's communication and presentation skills.

Computer –Assisted Learning (CAL):

Computer-assisted Learning is a very effective method in teaching and learning process. It involves visualizing, analyzing and understanding complex topics and interpretation of large data and is extensively put in practice in this college.

Other innovations that impacted the functioning of the college

- The College functions as per its Quality document which covers all the areas of the college, to ensure transparency.
- The college forms various CELLS and COMMITTEES for implementation of curricular, co-curricular and extra-curricular activities.
- College Magazine, Handbook, Yearbook, Annual Newsletter, Brochure, Department magazine, etc. are brought out.
- Program assessment committee, Students exit feedback, Course end survey, Program outcome assessment, Alumni survey, Faculty self appraisal report, Internal test analysis, University result analysis, Semesterwise feedback of teachers lead to the improvement of teaching learning process
- 7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Respective actions are taken against all the plan of action in all functioning systems on the regular basis

7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)

Goal of this practice:

The goal of this practice is to impart practical exposure to students in upcoming technologies by conducting workshops, guest lectures and seminars by internal and external academicians / industrialists and through industrial visits.

The Process:

The students are expected to be strong in academics and have good industrial exposure. They are encouraged to update their knowledge with latest developments in their respective disciplines and allied subjects.

- In addition to good academic record, the students need to develop leadership qualities and good communication skills and soft skills. In this aspect, eminent personalities from various reputed institutes and industries are invited to impart the practical exposure to the students through workshops, seminars, guest lectures, etc.
- Also, the students are motivated to share their ideas with the outside world by presenting their research work in National / International conferences.

- The students are monitored regularly by class committee meetings and conduct of remedial classes where necessary.
- Regular tests on GATE and other competitive exams are conducted by the college.
- To gain industrial knowledge, the students are encouraged to visit the industries.

Impact of the practice:

The morale of the students is thus increased due to the expertise training and measures taken by the college. There is recognition and appreciation by the students and they are actively participating in all the programs. As the outcome, discernible positive change has been observed in them.

*Provide the details in annexure (annexure need to be numbered as i, ii,iii)

7.4 Contribution to environmental awareness / protection

Velammal Engineering College, Chennai is located at Surapet a popular town near ambattur in Thiruvallur district in Tamil nadu. A tranquil world in itself, the campus stands unique with its lush green expanse, paved pathways and a serene, soothing environment. Our strategic plans for development have always been driven by a love for nature and sustainability of important resources like energy, water, green cover etc since the campus is located in the banks of puzhal lake.

7.5 Whether environmental audit was conducted?	Yes	No	
		$\sqrt{}$	

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Strengths:

- Qualified and experienced faculty
- High Faculty Retention
- Active participation of faculty in research activities
- Well equipped and spacious laboratories.
- State-of-Art equipment
- Good interaction with professional bodies

Weaknesses:

- No autonomy in syllabus usage
- Lack of interdisciplinary Projects
- Lack of Patents
- Lack of Consultancy

Opportunities:

- Skill-set required by the leading MNC's and Public sector and intense training
 in soft skills and personality development by T & P Cell and association with alumni
 grabs the opportunities to make the students industry ready.
- Amicable management with generous attitude in the form of lucrative

special pays and incentives with additional perks and allowances to attract highly qualified and efficient and veteran faculty.

Constraints:

- Students with diverse background
- Constant changes to technology
- Balancing administrative and academic load
- Adapting to changing student expectations
- 8. Plans of institution for next year
 - To achieve within top 5 position in Affiliated colleges of Anna University
 - 100% Result and Placement
 - Centre of Excellence
 - Good Number of University Ranks
 - To enhance the employability skills of students
 - Increased R&D activities

Name			Name		
- Signat		ne Coordinator, IQAC	Signature of the Chairperson, IQAC		

Annex	ure l				
Abbre	viations				
CAS	-	Career Advanced Scheme			
CAT	-	Common Admission Test			
CBCS	-	Choice Based Credit System			
CE	-	Centre for Excellence			
СОР	-	Career Oriented Programme			
CPE	-	College with Potential for Excellent	ce		

DPE - Department with Potential for Excellence

GATE - Graduate Aptitude Test

NET - National Eligibility Test

PEI - Physical Education Institution

SAP - Special Assistance Programme

SF - Self Financing

SLET - State Level Eligibility Test

TEI - Teacher Education Institution

UPE - University with Potential Excellence

UPSC - Union Public Service Commission
