

NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University Chennai) K. R. Nagar, Kovilpatti – 628 503

> INTERNAL QUALITY ASSURANCE CELL

ANNUAL QUALITY ASSURANCE REPORT 2017 - 2018

Submitted to

National Assessment and Accreditation Council Bangalore, India

CERTIFICATE

This is to certify that the Annual Quality Assurance Report 2017 -18 forwarded to the National Assessment and Accreditation Council, Bengaluru is compiled from the data collected from the official records and is true to the best of our knowledge and belief.

N- 528/06/18

IQAC COORDINATOR (Dr.K.Manisekar)

29678

PRINCIPAL (Dr.S.Shanmugavel)

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The Annual Quality Assurance Report (AQAR) of the IQAC

(For Autonomous Colleges)

<u>Part – A</u>

1.	Name of the Institution	:	NATIONAL ENGINEERING COLLEGE
			K.R.Nagar, Kovilpatti – 628 503
	Name of the Head of the institution	:	Dr.S.Shanmugavel, M.E., Ph.D.
	Designation	:	Principal
	Does the institution function from own campus	:	Yes
	Phone no./Alternate phone no.	:	04632-227441 / 04632-222502
	Mobile no	:	9488702250
	Registered Email	:	principal@nec.edu.in
	Alternate Email	:	iqac.nec@gmail.com
	Address	:	K.R.Nagar, Kovilpatti – 628 503, Thoothukudi Dist., Tamil Nadu
	City/Town	:	Kovilpatti
	State / UT	:	Tamil Nadu
	Pin Code	:	628 503
2.	Institutional Status	:	
	Autonomous Status (provide the date of Conformant of Autonomous Status)	:	23-05-2011
	Type of Institution	:	Co-education
	Location		Rural/ Semi-urban/Urban
	Financial Status (please specify)	:	Grants in aid/ UGC 2f and 12 (B)/ Self financing
	Name of the IQAC Co-ordinator / Director	:	Dr.K.Manisekar
	Phone no. /Alternate phone no.	:	04632 - 222502 / 9442182502
	Mobile	:	9443002317
	IQAC e-mail address	:	iqac.nec@gmail.com
	Alternate Email address	:	deanacd@nec.edu.in
3.	Website address Web-link of the AQAR: (Previous Academic Year)	:	http://nec.edu.in/pdf/AQAR%202016-2017.pdf

4.	duri if ye	ether Academic ng the year? s, whether it is up tutional website	_	repared		Yes. Weblink: <u>http://nec.edu.in</u> <u>18.pdf</u>	n/pdf/NI	EC%20Academic%20Calender%2020	<u>17-</u>	
5.	Acc	reditation Detail	S		:					
		Cycle	Grade	CG	FPA	Year of Accreditat		Validity Period		
		1^{st}	В	2.5		2014		21.02.2014 - 20.02.2019		
		1 st Cycle Reassessment	B++	2.83	3	2017		22.02.2017 - 21.02.2022		
6.	Date	e of Establishme	ent of IQAC		:	06/06/2013				
7.	Inte	ernal Quality Assurance System				IQAC Cell				
7.1	.1 Quality initiatives by IQAC during the year for promoting quality culture			0	:					
	Item /Title of the quality initiative by IQAC					ate & duration		Number of Participants / beneficiaries		
		12 th IQAC	Meeting		1	5.07.2017		24		
		13 th IQAC	Meeting		20.01.2018			25		
	Ace	ademic Administr	ative Audit (AA	A) 07.	06.2	2017-16.06.2017		207		
				03.	03.03.2018-13.03.2018 17.01.2018 -			207		
		Participation in	NIRF							
		ISO Certification	n							
		NBA Audit				8.12.2017	ECE			
		Academic Quali	ty Audit			5.03.2017 9.08.2017	CSE & EEE Mechanical, ECE, EEE, EIE, CSE, IT & Civil			
					26.08.2017			S&H		
	<u>No</u> • •	Assurance Repo for improvement	g of Internal Q rt (AQAR) to 1 ts vistrative Audit NIRF	uality A NAAC; 1	ssur Feed	ance Cell (IQAC); timel <u></u> keholde	y submission of Annual Quality ors collected, analyzed and used ction		
8.	by UGO	vide the list of Sp Central/ S C/CSIR/DST/DB d Bank / CPE of	State Gove Γ / ICMR / T	ernment						

		Institution /			Funding	Year of award with	Amount
		Department / Faculty	Scheme		agency	duration	
			DST – FIST (Le	evel 0)	DST	2017	Rs. 90 Lakhs
		National Engineering College	New generation innovation and Entrepreneurship development (NewGen IEDC)	centre	NSTEDB & DST, New Delhi	2017	Rs.60 Lakhs
					MSME, New Delhi	2016-17	Rs.29.39 Lakhs
9.	late *up	ether composition of I st NAAC guidelines load latest notification QAC	QAC as per		/es Veb link - <u>http://nec</u>	c.edu.in/aboutiqac.p	<u>hp</u>
10.	No. year	of IQAC meetings he	ld during the	: 2			
	con	e minutes of IQAC ppliance to the decision paded on the institution	ons have been		/es. Veb link - <u>http://nec</u>	.edu.in/iqac%20mii	nutes.php
11.							
12.	Sig	nificant contributions i	made by IQAC	during	g the current year (n	naximum five bulle	ts)
		scheme in rural siMotivational activFaculty members	de development vities have been have been mo	ts. initia otivate	ted for students' sta	art-ups. o attend faculty de	nder Swachh Bharat evelopment training
13.	Pla	n of action chalked out	t by the IQAC in	n the l	beginning of the Ac	ademic year toward	ls Quality
	Enh	ancement and the out	come achieved b	by the	end of the Academ	ic year	
		1					
			N OF ACTION			HIEVEMENTS / OU	
		i. More than 75 % placed with med annum				students have been p 3 lakhs per annum	laced with average
	ii.More than 20 % of the students should get eligible scores in competitive examinations like GATE, Tofel, CAT, MAT, etc.,2.3 % of students have got eligible s CAT and MAT exams.						
	ii					ents have been mot	ivated and became
	i	w. The average CGF students should be	PA scored by the	•	*	e CGPA of the 20	017-18 passed out
		v. Each department projects worth > 1	should have ong	oing l		lepartments have ong	oing R&D projects

	· · · ·										
	vi.	Each department should have		0 0	Mechanical, EEE and CSE departments have						
		industrial consultancy work worth	KS.	5 lakii.	ongoing industrial consultancy work of worth more than Rs.2 lakh.						
	vii.	Faculties should be motivated to	pub	lish the	Totally 58 papers have been published in						
		research articles in high imp	-		International journals with the impact factor ranging						
		journals.			from 0.2 to 5.5 in the academic year 2017-18.						
	viii.	All the faculty members s	shou	uld be	Totally 153 Conferences and workshops in						
		encouraged to participate / presen			International and national level have been attende						
		international conferences / worksh	-		by the faculty members in the academic year 2017-						
		organized by other leading institut			18.						
	ix.	Each department should organize / workshops / FDP in every acader			EEE, EIE, CSE and IT departments have organized Faculty Development Training programs.						
	х.	Every department should sign		÷	All the departments have signed MoU with						
	л.	minimum 2 companies per year.	IVIO	0 with	minimum 2 companies in the academic year 2017-						
		initiatin 2 companies per year.			18.						
	xi.	More number of students	shou	uld be	In 2015 curriculum, it is made compulsory to						
		encouraged to undergo in-plant	tra	aining /	undergo In-plant training and internship training						
		internship program / industrial pro	ject	s.	program. So, all the students will be undergoing						
					industrial training in leading industries during the						
					semester vacation period.						
	xii.	Every department has to develop	at le	east one	10 products have been developed totally in the						
		product every year.			academic year 2017-18 with the fund sanctioned from NewGen IEDC.						
	xiii.	Every year, it is proposed to initiat	tan	start up	Two start ups have been initiated in the academic						
	АШ.	through our alumni and faculty.	ic a	start up	year 2017-18.						
14.	XX /1 /1			Yes							
		r the AQAR ced before									
	-	y body?									
		the Statutory		Manag	ement						
	body :	the Statutory									
	-	meeting(s)		08.06.2	2018						
15		r NAAC/or any other accredited	-	N7							
15.		visited IQAC or interacted with	:	Yes.	tion with NAAC committee on 19.01.2017						
	• • •	ess the functioning?		Interac	tion with NAAC commutee on 19.01.2017						
16		r institutional data submitted to		No							
16.	AISHE	i institutional data submitted to	:	INO							
17.		e Institution have Management		Yes							
17.		tion System?	•	105							
	If yes, g	ive a brief description and a list of									
	modules	currently operational. (Maximum									
	500 wor	ds)									
	To imp	rove the productivity of our insti	tuti	on towa	rds paperless administration, InsProPlus (Institution						
	Product	ivity Plus) software serves as a	ne	erfect sol	lution. At present, the modules in practice are as						
		•	· P		interior in present, the modules in practice are as						
	follows	,									
1											

• Student Management

- Academic Management
- HR Management
- Hostel Management
- Central Library Management
- Finance Management
- COE Administration
- Certificate Issue
- Automatic SMS for absentee, e-circular notifications
- Performance reports, Access reports, online Entries and Enquiries
- Online web portal for staff and students
- Online leave apply and approval
- Online faculty recruitment process

The system helps the management, Director, Principal, HODs and faculty to view the academic details of the student. Also, parent/guardian can get assistance about their ward through mobile via SMS or web portal. InsproPlus for MIS has been installed and available at our college premises since august 2011.

PART – B

CRII	ERION I -	-CURRICUL	AR ASPE	CTS								
1.1	Curriculu	m Design and	Developm	ent								
1.1.1	Programm	es for which sy	llabus revi	sion was	carried out during the	e Academic y	ear					
		Name of	f programn	ne	Programme Code	Dates of	of revision					
1.1.2	Programmes / courses focused on employability/ entrepreneurship / skill development during the Academic year											
	Prog	ramme with Code	Date Introdu		Course with	Code	-	ate of duction				
		or all UG ogrammes			NCG28 – Critical ar Thinking	nd Creative	02 nd E	Dec 2017				
		3 days epreneurship wareness Camp			Training programme	12 -14 th July 2017 08 -10 th August 2017						
		weeks FDP on epreneurship										
1.2	Academic	Flexibility										
1.2.1	New programmes/courses introduced during the Academic year											
		Progra	umme / Cou	irse		Date of Intr	oduction					
1.2.2	Programmes in which Choice Based Credit System (CBCS) / Elective Course System implemented at the College level during the Academic year.											
		ne of Programm	es UG	PG	Date of implementa CBCS / Elective C System		UG	PG				
	Alrea	ady adopted (20	015-16)				June 2015	June 2015				
1.3	Curriculu	m Enrichmen	t									
1.3.1	Value-add	ed courses imp	arting trans	sferable a	and life skills offered o	luring the yea	ar					
				_		umber of students enrolled						
		Value added of a for youth emp			Date of introduction June 2015	INU						

1.3.2	Field Projects / Internships undertaken during the year					
	Project / Programme Title	No. of students enrolled for Field Projects / Internships				
	NSS Special Camp was conducted at Villiseri Village, Kovilpatti Taluk by NSS volunteers from 26.02.2018 to 04.03.2018	100				
	Free Eye Medical Camp was conducted by NSS units of our college in association with Dr.R.Ramakrishnan of Aravind Eye Hospital, Tirunelveli on 03.03.2018	 64 students 208 patients were screened and 30 patients were admitted for cataract surgery 				
	Internship Training program – Mechanical Engineering Department	• 17 students				
	Internship Training program – Civil Engineering Department	• 93 students				
	Internship Training program – Electrical and Communication Engineering Department	• 4 students				
	Internship Training program – Electrical and Electronics Engineering Department	• 3 students				
	Internship Training program – Electrical and Instrumentation Engineering Department	• 3 students				
	Internship Training program – Computer Science and Engineering Department	• 8 students				
	Internship Training program – Information Technology Department	• 14 students				
1.4	Feedback System					
1.4.1	Whether structured feedback received from all the sta	keholders				
	1) Students2) Teachers3) Employed	rs 4) Alumni 5) Parents				
	Yes Yes Yes	Yes Yes				
1.4.2	How the feedback obtained is being analyzed and util Institution? (maximum 500 words)	ized for overall development of the				
	Students' feedback about each course in a semester	is obtained through online system using InsProPlus				
		feedback on teaching & learning is obtained through				
		t students. Both Course outcome evaluations and Staff				
		edback. Staff Evaluation Reports, Students Feedback				
	Report and Staff Self Appraisal are discussed and meetings.	corrective measures are planned during the IQAC				

CRITERI	ION II -TEA	CHING-LEAR	NING AND EVA	LUATION			
2.1 Stu	ıdent Enrolm	ent and Profile	e				
2.1.1 Der	mand Ratio d	uring the year					
		me of the ogramme	Number of seats available	Number of app receive		Students Enrolle	d
		Programmes	660	Filled through Ann		649	
	PG Degree	Programme	115	Chennai single wi	ndow system	17	
2.2 Ca	tering to Stu	dent Diversity					
2.2.1 Stu	ıdent - Full t	ime teacher ra	tio (current year	data)			
	Year students enrolled in the		Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of fu time teacher available in t institution teac only PG cour	rs teachers he teaching bo hing UG and PC	th
	2017-18	2781	37	198	19	60	
2.3 Te	aching - Lear	rning Process				i	
	-	-	Γ for effective teac . (current year data	•	g Management	Systems	
	Number of teachers on roll	Number of teachers usin ICT (<i>LMS</i> , e <i>Resources</i>)	lg resources	l Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used	
	217	217	Smart classroo with tools, Smart TV, Projectors	m 37	8	NPTEL, SWAYAM	
Yes me gua hel per stud of obt ext	Every s Every s entor/tutor. At ardian and ass p the student riodically. If r dents through his/her ward. tained in the u tra-curricular a Student r	student will be bout 20 student sist them in all ts in registering necessary, the tu the concerned The record sh university exami- activities and dis- mentoring plays by and discuss t	lable in the institut under the care a s will be assigned matters of academ g the courses, mo tor may also discu- ter contains all in nations, monthly t sciplinary proceeding a vital role in a stu- heir problems free	nd guidance of a l to each mentor/t ic as well as other onitor their attenda uss with or inform tment. The mentor nformation concer ests, achievements ngs if any taken ag ident's life. Hence	faculty who utor who will activities. Fur ance and prog the parents al will maintain ning the stude if any in curri gainst the stude , the students a y should also	is appointed as also act as the rther, the tutor v gress and counce bout the progress a record sheet f ents 'attendance icular, co-curricu- ent. are advised to me take care to see	ir local vill also il them s of the for each , marks alar and eet their that all

		of students the institution	Number of	fulltime tead	chers	Mentor	: Mentee Ratio				
	20	10		217			1.13				
2.4	Teacher Profil	e and Quality									
2.4.1	Number of full t	ime teachers app	ointed during	the year							
	No. of sanctioned positions	No. of fill position		t positions	Position durin curr ye	g the ent	No. of faculty with Ph.D				
	34	34			34		3				
2.4.2	Honors and rec	ognitions receiv	ed by teacher	S	1						
	Honors and recognitions 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 ti receiving awar level, nation internation	ds from state nal level,	Desig	nation	Name of the award, fellowship, received from Government or recognized bodies					
		Dr.T.Vigraman			Asso. Prof. (SG) / Mechanical Engg		Teaching Excellence at Indo Global Education Summit & Expo 2017, Chennai.				
	2017 – 18	Dr.B.Sankarago	amthi	Prof. / EIE		"Life Time Achievement Award" through DK International Research Foundation Faculty Awards 2018.					
2.5	Evaluation Pro	ocess and Refor	ms								
2.5.1	Number of days	from the date of	semester-end/	year- end e	xaminatio	n till the c	leclaration of results	5			
	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		resul en	of declaration of ts of semester - d / year- end examination				
	UG / PG degree programme	Odd semester	II, III & IV year		2017 / .2017		08.01.2018				
	UG / PG degree programme	Odd semester	I year	08.1	2.17		27.01.2018				
	UG / PG degree programme	Even semester	IV year	02.04	2018 / .2018		14.05.2018				
	UG / PG degree programme	Even semester	II & III year		2018 / .2018	N	Not yet declared				
	UG / PG degree programme	Even semester	I year	11.0	5.18	Ν	Not yet declared				

2.5.2	Ave	rage percent	age of Student complaint	ts/grievances about evalu	ation aga	ainst total nu	umber appea	red in	
	the e	examinations	during the year						
	* D 0	not include	re-evaluation/ re-totallin	g					
	N		omplaints or grievances	Total number of stud		Percent	tage		
			ut evaluation	appeared in the examin	nation		uge		
			per'2017 - 102	2060		4%			
		April'20	018 - 62	2060		4%			
2.6	Stud	lent Perforn	nance and Learning Out	tcomes					
2.6.1			nes, program specific ou				ns offered l	by the	
	ınstı	tution are sta	ted and displayed in webs	site of the institution (to p	rovide th	e weblink)			
	1.	B.E. Mech	http://nec.edu.in/academic/	/R-2015%20Mechanical%20	0Syllabus	.pdf			
	2.	B.E. ECE	http://nec.edu.in/academi		•				
				urriculum%20&%20Sylla					
	3.	B.E. CSE		ic/R-2015%20%20CSE%2				<u>df</u>	
	4.	B.E. EEE	http://nec.edu.in/academi	ic/R-2015%20EEE%20cu	rriculum ⁹	<u>%20&%20sy</u>	<u>llabus.pdf</u>		
	5.	B.E. EIE	http://nec.edu.in/academi	ic/R-2015%20EIE%20Cu	rriculum ^o	<mark>%20&%20Sy</mark>	<u>llabus.pdf</u>		
	6.	B.E Civil	http://nec.edu.in/academi	ic/R-2015%20CIVIL%20c	urricului	<u>m%20&%20</u>	syllabus.pdf		
	7.	B.Tech. IT	http://nec.edu.in/academi	ic/R-2015%20IT%20Curr	iculum%	20&%20Syll	abus.pdf		
2.6.2	Dace	percentage (of students						
2.0.2	1 a 55	percentage	or students						
		Programme Code	Programme name	Number of students appeared in the final year examination	passe Seme	of students d in final ster /year nination	Pass Percentage		
	-	B.E.	Mechanical Engineering	145		93	64.14		
		B.E.	Electronics and Communication Engg	133		98	73.68		
		B.E.	Computer Science and Engineering	121		80	66.12		
		B.E.	Electrical and Electronics Engineering	139		93	66.91		
		B.E.	Electronics and Instrumentation Engg	54		44	81.48		
		B.E.	Civil Engineering	68		60	88.24		
		B.Tech.	Information Technology	56		47	83.93		
		M.E.	Energy Engineering	2		2	100		
		M.E.	Communication Systems	2		2	100	_	
		M.E.	Computer Science and Engineering	8		6	75		
		M.E.	High Voltage Engineering221						
		M.E.	Embedded system Technologies	8		8	100		
		M.E.	Control & Instrumentation	_		_	_		
		M.Tech.	Information and Cyber warfare	-		_	_		

	Student Satisfactio	n Surve	ev										
2.7.1	Student Satisfaction		•	overall ins	titutional p	erformance	(Institutio	n may design					
	questionnaire) (resu	lts and d	letails be prov	vided as web	link)								
		· 1		la ~~~~	1								
	wednink	: <u>nup://n</u>	nec.edu.in/coll	legeproject.p	<u>onp</u>								
CRIT	TERION III – RES	EARC	H, INNOVA	ATIONS A	ND EXTE	INSION							
3.1	Promotion of Res	search a	and Facilitie	es									
3.1.1	The institution provides seed money to its teachers for research, if, yes give details												
	NO												
	NO												
	Name o	of the	m	1	V f	• • •	Durat						
	teach	m	unt of seed oney		receiving rant		ion of the rant						
getting seed me		d money		oney	5		8	iant					
	-			-		-		-					
3.1.2	Teachers awarded N	lational/	International	fellowship fo	or advanced	l studies/ res	earch durin	ng the year					
	[]	Nome	of the teache	rowordad	Nome	of the	Date of	Awardina					
		Iname	the fellowsh			Name of the Award		Awarding Agency					
	National		-	mp	-		Award -	-					
	International		-		_		_	_					
3.2	Resource Mobiliza	tion for	Research										
3.2.1	Descent funds sons	tionado	and received f		acanaiaa i	a ductory and	other orcor	izationa					
5.2.1	Research funds sanctioned and received from various agencies, industry and other organizations												
						Total gran	nt .]					
	Nature o Proje		Duration Name of funding 4		Sanction Sanction		oned Amount received						
				e	e ;	in lakh							
	Major Project		2015-2018	DST (TDT)		24.413		15.813					
	Major Project		2.5 years	DRDO		9.8		6.4					
	Major Project Major Project	. ,	2016-2018 2014-2017	DRDO	E)	12.19 25.713		12.195 24.97039					
	Major Project Major Project		2014-2017	BRNS (DA	с <i>)</i>	44.2		41.07					
	Major Project		2015-2018	BRNS (DA	E)	25.246		23.7894					
	Major Project		3 years	DST (SERE	-	26.193		9.452					
	Minor Project		2017-2018	UGC	,	4.4		4.10					
	Minor Project		-										
	Interdisciplina			1									
	Projects												
	Industry spons	sored	1 year	TATA Po	wer SFD	3.6	50						
	Projects		i yeai			5.0							
	Projects spons												
	by the Univers	sity /											
	College	1											
	Students Resea	arch											
	Projects (other th	,	2017 - 18	NewGer		25.0	0	25.00					

Students Re	search			IE (I)		0.60		0.60
Projects (oth compulsory College)		201	7-18	TNSCST		0.10		0.10
Internationa	l Projects							
Any other (S	Specify)	2017	7 – 18	MSME, New Del	hi	29.39	8	
		2017	7 – 18	Alumni Fund				0.5
Total					230.9518		172.799	
Number of ongoing research pro agencies during the years				acher funded by go			overnment	
Dept.	Funding a	gency	Ongoir	ng research project		Principal nvestigator	Amount	Period
MECH	BRN		for imp strengtl	zation of grain size roving fatigue 1 of 304 Hcu	Dr.D.I	Ravindran 2.Mannan	33,52,500	2014-17
ECE	DST (T	,	harvest	Fully Automated Coconut harvesting Machine		Familselvi .Arumugam '.Devakumar	24,41,360	2 015-18
Chemistry (S&H)	BRN (DAE		Syntheses of novel bifunctional chelating agents and biomolecule - BPCA conjugates for complexation with copper, rhenium, gallium, technetium and lutetium radionuclide's for possible applications in radio pharmaceutical applications Synthesis, Structural Characterization, Stability and Chemical nuclease activity of some Cu(II) and Zn(II) complexes containing imidazole and pyridine		Dr.M.A.Neelakantan Prof. & Head / S&H		24,24,500	2014-17
Chemistry (S&H)	DST	Y				A.Neelakantan & Head / S&H	44,25,000	2015-18
Chemistry (S&H)	BRNS (DAE)		Spatial Uranina water q	Distribution of an and associated uality parameters in cts of Tamil Ndau	Prof. 8 Dr.S.S	A.Neelakantan & Head / S&H S.Mariappan Prof.(SG)	25,24,650	2015-17
CSE	DRDO		Automa	in Cellular tta with its ttions on graphy	Prof & Dr.K.I Pitcha	Paramasivan 2 Head / CSE Mohaideen i, Asso. Prof .Bhuvaneswari	12,19,500	2016 -18
CSE	EPICS in I	EEE	platforr and dea	: A smart cloud n between normal f people.	Prof./0		5,24,402	2016 - 17
CSE IE(I)			eradica embedo	ted Robotic weed tion system using led techniques	Prof./0		60,000	2017 - 18
ECE	DRDO		target C	n Non Cooperative Classification m using Statistical ues	Prof. & Mr.V.	Shenbagavalli, & Head/ECE R.S.Mani, Prof/ECE	9,85,000	2017 - 18

		EEE	UGC	Real Time Implementation of PID Controller for Single Phase Buck-Boost Power Factor Correction Converter using Evolutionary Computation	Mr.M.P.E.Rajamani, Asst.Prof (SG)/EEE	4,10,000	2016 - 18
		S&H	DST (SERB)	Designing of novel benzothiazole derivatives and their Cu(II), Fe(II/III) and Al(III) Complexes in Alzheimer's disease	Dr.S.Thalamuthu, AP(SG) / S&H Dr.M.A.Neelakantan, Prof. & Head / S&H	27,66,948	2017 - 20
3.3	Innov	ation Ecos	vstem				
3.3.1				on Intellectual Property R	ights (IPR) and Indu	stry-Acade	mia
0.011		ative practic	ces during the ye	1.		-	1
		Title of kshop/Semin		Resource person		Name of the Dept.	Date(s)
		nt Leadershi	•		0'1 D 1	All I year	Throughout
		opment amme	Dr.P.Esakki	Muthu, Chief Scientist, Riv	er Silca, Bengaluru	UG students	the academic year
			Silca, Beng	Mr. L.Gnana Michael Prakasam, Chief Scientist, River Silca, Bengaluru			16-02-2018
							14-07-2017
			Meteorolog	Mr.P.Murugavel, Scientist-E, Indian Institute of Trophic Meteorology, Pune			14-07-2017
			Chennai				8-12-2017
				an, TCS Software Engineer,		ECE	8-12-2017
				nan, TCS Software Enginee			8-12-2017
			-	Mr.K.JeyaGanesh, Infosys Software Engineer, Bangaluru			8-12-2017
				aran, TCS Software Engine			8-12-2017
	Guest	Lecture	of Engineer	Mr.Andrew Roobert, Research Scholar Thiagarajar College of Engineering, Madurai.			8-12-2017
			Mr.Muthuk	umar, Maffire, Software En	gineer, Nagarkovil		8-12-2017
				ga, TCS Assistant System E	•		2-02-2018
				gabhushana, IISc, Bangalor			06.11.2017
			Chennai	h Kumar Annadurai, GE		EEE	17.11.2017
				n Kavi, NLC India Ltd, Ney			27.12.2017
			-	yappan, Scientist/CSIO, Ch			25.10.2017
				r, CEO, Mathimigal Tech. Pv			26.10.2017
			Dr.S.Arumu Section	igaperumal, IETE Cha	irman, Trivandrum	EIE	26.10.2017
				eyen, MD, Control soft PVT			27.10.2017
			Mr.Sathiyar Ltd., Chenn	aj, TeamLeader-R&D, Vi ai	Microsystems Pvt.		27.10.2017

		Mr.D.Mah	esh, Fo	rishnan, MIT Campus, A under and First Offic		•		27.10.20		
							01.09			
		Spinning r	Mill, Vell	akoil				01.09.20		
		· ·	okan, Ma	anager(T&CC),National	Therma	l Power		23.02.20		
		Mr.C.Beb	in Suresh	n, Director-DevOps, Un India, Bangalore	ified Tec	chnology		21.04.20		
		-	. .	Arravindh, HCL Technol	logies I i	mited		18.11.201		
		Chennai	y Dasali I	Anavindii, mel reeniio	logics Li	micu,		21.04.20		
			hmesh, I	HCL Technologies Limit	ed, Cher	nnai		18.11.201 [°] 21.04.20		
		Mr.K.N.V Chennai	isveswar	an, Hexaware Technolog	gies Limi	ited		21.04.20		
			Mr.D. Rajesh Kannan, Tata Consultancy Services, Chennai				CSE	21.04.20		
		e	Ms.G.Maria Justin Mary, Honeywell Technology Solutions,							
		Madurai						18.11.20		
		Mr.S.Vigr Solutions,		lasamy, Cognizant Tech ore	nology			04.07.20		
				Technologies, Coimbato	re			13.07.20		
		Mr.Ganes	h Murthy	, HP, Bangalore				19.08.20		
				gnizant Technology Solu				13.07.20		
		Mr.T.Kana Pvt. Ltd.,		eputy General Manager,	Ozone P	Project		30.06.20		
			0	Manager, PPC Material N ia Ltd., Chennai	Managen	nent,		19.07.20		
		Mr.Christo	opher Gn	anaraj, Head of section, motor India limited, Che		ent	MECH	08.03.20		
		×	-	e President (Operations a						
		Manufactu	iring Eng	(ineering) Daimler India Chennai)		cial		17.03.20		
3.3.2	Awards for Innovation			n/Teachers/Research s	cholars/	Students d	uring the y	ear		
	Title of the innovation	Name o Awar		Awarding Agenc	у	Date of Award	Cat	tegory		
	Coconut Grading Machine	Mr. M.V Shanthi	Veera	DAAD - German Aca Exchange Service and - German House for Re and Innovation New	DWIH esearch	7 th April 2018		ng Walls ndia 2018		
3.3.3	No. of Incubation cer	ntre created	, start-up	os incubated on campu	s during	the year				
	Incubation (Centre		Name		Snone	sored by			
	MSME recogniz		NEC –	Business Incubation		^	•			
	Business Incubat		Centre			MSME, N	IEWDELH	l		

		Name of the Start	-up	Nature of Start-up		Date of commencemen				
	AU	TOWELKIN	To Connec	ct Junkyards of AUTO s	pares	Company Registered (14 th May 2018)				
	SU	VADI	For the	e Collection of old Book	.s	Yet to register				
3.4	RESEA	RCH PUBLICA	TIONS AND AWA	ARDS						
3.4.1	Ph. Ds av	warded during th	ne year							
			Name of the	No. of	f Ph. Ds Awarded					
			hanical Engineering			2				
			trical and Communi			1				
			trical and Electronic			1				
				entation Engineering		1				
		Science and	l Humanities			2				
3.4.2	Research	Publications in	the Journals notified	d on UGC website dur	ing the y	<i>r</i> ea r				
	4.2 Research Publications in the Journals notified on UGC website during the year									
			Department	No. of Publication	Averag	e Impact Factor, if any				
			Department Mechanical Engg.,	No. of Publication 10	Averag	e Impact Factor, if any				
			Mechanical Engg., ECE	10 09	Averag					
		National &	Mechanical Engg., ECE S&H	10 09 11	Averag	e Impact Factor, if any Average – 1.2				
		National & International	Mechanical Engg., ECE S&H CSE	10 09 11 04	-	Average – 1.2				
		National & International	Mechanical Engg., ECE S&H CSE IT	10 09 11 04 07	-					
			Mechanical Engg., ECE S&H CSE IT EIE	10 09 11 04 07 08	-	Average – 1.2				
			Mechanical Engg., ECE S&H CSE IT	10 09 11 04 07	-	Average – 1.2				
3.4.3		International nd Chapters in ec	Mechanical Engg., ECE S&H CSE IT EIE EEE dited Volumes / Boo	10 09 11 04 07 08 09 ks published, and pap	F	Average – 1.2 Range - 0.2 to 5.5				
3.4.3		International nd Chapters in ec	Mechanical Engg., ECE S&H CSE IT EIE EEE	10 09 11 04 07 08 09 ks published, and pap	F	Average – 1.2 Range - 0.2 to 5.5				
3.4.3		International nd Chapters in ec	Mechanical Engg., ECE S&H CSE IT EIE EEE dited Volumes / Boo per Teacher during	10 09 11 04 07 08 09 ks published, and pap	F Ders in Na	Average – 1.2 Range - 0.2 to 5.5				
3.4.3		International nd Chapters in ec	Mechanical Engg., ECE S&H CSE IT EIE EEE dited Volumes / Boo	10 09 11 04 07 08 09 ks published, and pap	ers in Na	Average – 1.2 Range - 0.2 to 5.5				
3.4.3		International nd Chapters in econce Proceedings	Mechanical Engg., ECE S&H CSE IT EIE EEE dited Volumes / Boo per Teacher during	10 09 11 04 07 08 09 Oks published, and pap the year	ers in Na	Average – 1.2 Range - 0.2 to 5.5 ational/International				
3.4.3		International nd Chapters in econce Proceedings BE. Electrical	Mechanical Engg., ECE S&H CSE IT EIE EEE dited Volumes / Boo per Teacher during Department	10 09 11 04 07 08 09 Oks published, and pap the year	ers in Na	Average – 1.2 Range - 0.2 to 5.5 ational/International				
3.4.3		International nd Chapters in econce Proceedings BE. Electrical B.Tech. Infor	Mechanical Engg., ECE S&H CSE IT EIE EEE dited Volumes / Boo per Teacher during Department and Electronics En	10 09 11 04 07 08 09 Oks published, and pape the year gineering	ers in Na	Average – 1.2 Range - 0.2 to 5.5 ational/International f Publication in <u>ence proceedings</u> 2				
3.4.3		International ad Chapters in econce Proceedings BE. Electrical B.Tech. Infor BE. Electrical BE. Electrical	Mechanical Engg., ECE S&H CSE IT EIE EEE dited Volumes / Boo per Teacher during Department and Electronics En mation Technology and Communicatio and Instrumentatio	10 09 11 04 07 08 09 Oks published, and pap the year gineering ons Engineering	ers in Na	Average – 1.2 Range - 0.2 to 5.5 ational/International f Publication in <u>ence proceedings</u> 2 19				
3.4.3		International ad Chapters in econce Proceedings BE. Electrical B.Tech. Infor BE. Electrical BE. Electrical	Mechanical Engg., ECE S&H CSE IT EIE EEE dited Volumes / Boo per Teacher during Department and Electronics En mation Technology and Communicatio	10 09 11 04 07 08 09 Oks published, and pap the year gineering ons Engineering	ers in Na	Average – 1.2 Range - 0.2 to 5.5 ational/International f Publication in <u>ence proceedings</u> 2 19 13				
3.4.3		International International Ind Chapters in econce Proceedings BE. Electrical B.Tech. Infor BE. Electrical BE. Electrical BE. Electrical BE. Mechanic	Mechanical Engg., ECE S&H CSE IT EIE EEE dited Volumes / Boo per Teacher during Department and Electronics En mation Technology and Communicatio and Instrumentatio cal Engineering r Science and Engin	10 09 11 04 07 08 09 oks published, and pap the year gineering ons Engineering n Engineering	ers in Na	Average – 1.2 Range - 0.2 to 5.5 ational/International f Publication in <u>ence proceedings</u> 2 19 13 10				

3.4.4	Patents published/awar	ded during	the year							
	Patent Det	ails	Patent st Published		Patent N	umber / C.B.R.	No	Date of A	Award	
	System and M Instinctive Mon Infants		Fil	ed	201741	1043400 / 3727	0	-		
	Thermal Imagin Identification of	ng based Alkaloids	Fil	ed	20174	1043401 / 3727	'0	-		
	in Vinca Rosea Tree Climber Ap	paratus	Fil	ed	20174	1044490 / 3808	37			
	Cold Items Product through	Heat Resisting Intermediate Panels for Cold Items Container- Product through Charcoal waste of water treatment		ls for ntainer- harcoal Filed		5533/CHE/2014 / 22337				
	An Improved hy operated sing Coconut Dehuske	le step	Fil	ed	20164	1021350 / 1393	31			
3.4.5	Bibliometrics of the pu Web of Science or Pub		-		lemic year	based on ave	erage	citation ind	lex in Sc	opus /
	Title of the paper	Name of	the author		e of the urnal	Year of publication	affi mer	titutional lliation as ntioned in publication	Numbe citatio exclud self cita	ons ling
	Model based multivariable control scheme in a reset configuration for stable multivariable systems		an A.R., eesan P.	Jour Che	nadian rnal of emical neering	2018	N Eng C	Vational gineering College, ovilpatti		
	Experimental and theoretical studies on vanadium bromoperoxidase activity of alkyne arm dioxidovanadium(V) complex: Crystal structure, spectral studies, and DFT calculations	Balakris Kows	ntan M.A., shnan C., alya P., rani V.	Poly	hedron	2018	Eng C	Vational gineering College, ovilpatti		
	Performance studies on dielectric and physical properties of eco-friendly based natural ester oils using semi- conductive nanocomposites for power transformer application	A.R.P.R.	gnanam , Siluvairaj Karthik R.	Meas	Science, urement chnology	2018	Eng C	Vational gineering College, ovilpatti		

Interaction of Amino Acid Schiff Base Metal Complexes with DNA/BSA Protein and Antibacterial Activity: Spectral Studies, DFT Calculations and Molecular Docking Simulations	Neelakantan M.A., Balamurugan K., Balakrishnan C., Subha L.	Applied Organometallic Chemistry	2018	National Engineering College, Kovilpatti	
DNA/BSA binding interactions and VHPO mimicking potential of vanadium (IV) complexes: Synthesis, structural characterization and DFT studies	Neelakantan M.A., Balakrishnan C., Selvarani V., Theetharappan M.	Applied Organometallic Chemistry	2018	National Engineering College, Kovilpatti	
Framework for Fast and Efficient Cloud Video Transcoding System Using Intelligent Splitter and Hadoop MapReduce	Kesavaraja D., Shenbagavalli A.	Wireless Personal Communications	2018	National Engineering College, Kovilpatti	
Optimization using Artificial Bee Colony based clustering approach for big data	Ilango S.S., Vimal S., Kaliappan M., Subbulakshmi P.	Cluster Computing	2018	National Engineering College, Kovilpatti	1
Automated recognition of ROIs for breast thermograms of lateral view-a pilot study	Josephine Selle J., Shenbagavalli A., Sriraam N., Venkatraman B., Jayashree M., Menaka M.	Quantitative InfraRed Thermography Journal	2018	National Engineering College, Kovilpatti	
Mitigation of non linear effects using non linear transform in dispersion managed coherent optical OFDM systems	Rishi P., Tamilselvi S.	Journal of Computational and Theoretical Nanoscience	2018	National Engineering College, Kovilpatti	
Crystal structure and bio-catalytic potential of oxovanadium (IV) Schiff base complexes derived from 2-hydroxy-4- (prop-2-yn-1-yloxy) benzaldehyde and alicyclic / aromatic diamines	Balakrishnan C., Neelakantan M.A.	Inorganica Chimica Acta	2018	National Engineering College, Kovilpatti	1
Designandimplementationofmodelpredictivecontrollerfor	Leema Rose J., Sankaragomathi B.	Journal of Computational and Theoretical Nanoscience	2018	National Engineering College, Kovilpatti	

digitally controlled					
digitally controlled Ćuk converters					
Investigation on the properties of natural esters blended with mineral oil and pyrolysis oil as liquid insulation for high voltage transformers	Bakrutheen M., Willjuice Iruthayarajan M., Senthil Kumar S.	Lecture Notes in Electrical Engineering	2018	National Engineering College, Kovilpatti	
Performance enhancement of a building-integrated photovoltaic module using phase change material	Karthick A., Murugavel K.K., Ramanan P.	Energy	2018	National Engineering College, Kovilpatti	2
Microanaurysms identification using computational intelligence approach in two dimensional fundus images for detection of Diabetic Retinopathy	Karkuzhali S., Manimegalai D.	International Journal of Pure and Applied Mathematics	2018	National Engineering College, Kovilpatti	
Integration of wind power generators for the enhancement of profit by optimal allocation of SVC	Nagalakshmi S., Rohini R.C., Balakiruthiha S.	Lecture Notes in Electrical Engineering	2018	National Engineering College, Kovilpatti	
Tolerance allocation of complex assembly with nominal dimension selection using Artificial Bee Colony algorithm	Vignesh Kumar D., Ravindran D., Lenin N., Siva Kumar M.	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2018	National Engineering College, Kovilpatti	
Predicting membrane protein types using various decision tree classifiers based on various modes of general PseAAC for imbalanced datasets	Sankari E.S., Manimegalai D.	Journal of Theoretical Biology	2017	National Engineering College, Kovilpatti	
HonestAuctionBasedSpectrumAssignmentandExploitingSpectrumSensingDataFalsificationAttackUsingStochasticGameTheoryWirelessCognitiveRadioNetwork	Subbulakshmi P., Prakash M., Ramalakshmi V.	Wireless Personal Communications	2017	National Engineering College, Kovilpatti	
Crystalstructure,theoreticalandexperimentalexperimentalelectronicstructure	Gandhimathi S., Theetharappan M., Bhuvanesh N.S.P., Neelakantan M.A.	Polyhedron	2017	National Engineering College, Kovilpatti	2

	r		T		
and DNA/BSA protein interactions					
of nickel(II) N2O2					
tetradentate Schiff					
base complexes					
Assorted carrier-					
variable frequency- random PWM	Paramasivan M., Paulraj M.M.,	IET Power	2017	National Engineering	1
scheme for voltage	Balasubramanian S.	Electronics	2017	College, Kovilpatti	1
source inverter				nomputi	
Comparative analysis on classical					
		Journal of		National	
1	Ramaswamy S.,				
theory and higher	Rajadurai J.S., Moshi	Computational and Theoretical	2017	Engineering	
order lamination	A.A.M.	Nanoscience		College,	
plate theory for cross-		Nanoscience		Kovilpatti	
ply FRP composite					
structures Influence of dopant					
concentration on the		Journal of		National	
structural, optical and	Gomathy P., Sundar	Materials		Engineering	
magnetic properties	S.M.	Science:	2017	College,	
of nickel doped SnO2	5.111.	Materials in		Kovilpatti	
		Electronics		Kovnpatti	
nanoparticlesAclusterbased					
intrusion detection		Journal of		National	
	Sankar Ganesh S.,	Computational			
	Ramar K.	and Theoretical	2017	Engineering	
homogeneous and heterogeneous mobile	Kallial K.	Nanoscience		College, Kovilpotti	
ad hoc network		Ivalioscience		Kovilpatti	
Retreatment of aged					
mineral oil using	Ramaian	International		National	
semiconductive	Thirugnanam A.R.P.,	Transactions on		Engineering	
nanocomposites for	Maria Siluvairaj	Electrical	2017	College,	
power transformer	W.I., Radha K.	Energy Systems		Kovilpatti	
application	w.i., Naulla N.	Energy Systems		Kovnpatti	
Improved dynamic					
response of isolated					
full bridge DC to DC		International		National	
converter using	Anand R., Arun	Journal of		Engineering	
BATA optimization	Samuel T.S., Melba	Hydrogen	2017	College,	
tuned fuzzy sliding	Mary P.	Energy		Kovilpatti	
mode controller for		LIICIEY		Kovnpatti	
solar applications					
Collaborative					
approach on					
mitigating spectrum					
sensing data hijack				National	
attack and dynamic	Vimal S., Kalaivani	Cluster		Engineering	
spectrum allocation	L., Kaliappan M.	Computing	2017	College,	1
based on CASG	L., Kanappan wi.	Computing		•	
				Kovilpatti	
modeling in wireless cognitive radio					
cognitive radio networks					
An efficient secured	Somprodoones: T	Research		National	
An efficient secured multicast routing	Sampradeepraj T., Anusuya Devi V.,	Journal of	2017		
i i municast routing			2017	Engineering	
protocol for wireless	Chitra D.	Biotechnology	I	College,	

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sensor network using				Kovilpatti	
identity-based					
cryptography and its					
application in					
biomedical research					
A professional					
estimate on the					
computed					
tomography brain		Pattern		National	
tumor images using	Ramakrishnan T.,	Recognition	2017	Engineering	1
SVM-SMO for	Sankaragomathi B.	Letters	2017	College,	1
classification and		Letters		Kovilpatti	
MRG-GWO for					
segmentation					
A hybrid random		Journal of		National	
perturbation approach	Chidambaram S.,	Computational	2017	Engineering	
for privacy	Srinivasagan K.G.	and Theoretical	2017	College,	
preservation in		Nanoscience		Kovilpatti	
perturbated data				inputti	
Structural					
characterization,					
surface					
characteristics and					
non covalent	Chithiraikumar S.,	Journal of		National	
interactions of a	Gandhimathi S.,	Molecular	2017	Engineering	2
heterocyclic Schiff	Neelakantan M.A.	Structure	2017	College,	2
base: Evaluation of	Neelakaman M.A.	Structure		Kovilpatti	
antioxidant potential				-	
by UV "visible					
spectroscopy and					
DFT					
Enhanced					
Cooperative					
Spectrum Sensing in		Wireless		National	
CRAHNs Using	Muthukkumar R.,	Personal	2017	Engineering	
Distributed Dynamic	Manimegalai D.	Communications	2017	College,	
Load-Balanced		Communications		Kovilpatti	
Clustering Scheme					
U U					
Facial expression		Journal of		National	
recognition using a	Carmel Sobia M.,	Computational	2017	Engineering	
hybrid kernel based	Abudhahir A.	and Theoretical	2017	College,	
extreme learning		Nanoscience		Kovilpatti	
machine					
Enhancing					
cooperative spectrum				National	
sensing in cognitive	Muthukkumar R.,	Wireless		Engineering	
radio ad hoc	Manimegalai D.	Networks	2017	College,	
networks using	Manniegalal D.	INCLWOIKS		•	
priority-based two-				Kovilpatti	
stage detection model					
Node level anomaly					
mitigation through		• • • •		National	
trustworthy	Gowri M.,	Journal of	2 01-	Engineering	
computation based	Paramasivana B.	Ovonic	2017	College,	
election of	r arannabi (ana Di	Research		Kovilpatti	
forwarding nodes				isoviipatti	
ion warding notes		1			

				1	
Game Theory Based Defense Technique for Jamming Attacks in Mobile Ad Hoc Networks	Vadhana Kumari S., Paramasivan B.	Journal of Computational and Theoretical Nanoscience	2017	National Engineering College, Kovilpatti	
Defense against Sybil attacks and authentication for anonymous location- based routing in MANET	Vadhana Kumari S., Paramasivan B.	Wireless Networks	2017	National Engineering College, Kovilpatti	1
Noncovalent interactions from electron density topology and solvent effects on spectral properties of Schiff bases	Gandhimathi S., Balakrishnan C., Theetharappan M., Neelakantan M.A., Venkataraman R.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2017	National Engineering College, Kovilpatti	4
Tuning of robust PID controller with filter for SISO system using evolutionary algorithms	Rathinam M., Maria Siluvairaj W.I., Ramaveerapathiran A.	Studies in Informatics and Control	2017	National Engineering College, Kovilpatti	1
Computational intelligence-based Decision Support System for glaucoma detection	Karkuzhali S., Manimegalai D.	Biomedical Research (India)	2017	National Engineering College, Kovilpatti	1
A zwitterionic pH responsive ESIPT- Based fluorescence "Turn-On― Al3+ ion sensing probe and its bioimaging applications	Balakrishnan C., Neelakantan M.A., Banerjee S.	Sensors and Actuators, B: Chemical	2017	National Engineering College, Kovilpatti	1
MagneticFluxLeakage(MFL)baseddefectcharacterizationofsteam generator tubesusing artificial neuralnetworks	Daniel J., Abudhahir A., Paulin J.J.	Journal of Magnetics	2017	National Engineering College, Kovilpatti	1
Dual-treecomplexwaveletwithmodifiedSPIHTalgorithmforvideocompression	Muthulakshmi K., Seenivasagam V.	International Journal of Biomedical Engineering and Technology	2017	National Engineering College, Kovilpatti	
Analytical approach and simulation of GaN single gate TFET and gate all around TFET	Arun Samuel T.S., Arumugam N., Chandra S.T.	Transactions on Electrical Engineering, Electronics, and Communications	2017	National Engineering College, Kovilpatti	
Automatic generation control in deregulated power system using	Priyadarsini S.A., Melba Mary P., Iruthayarajan M.W.	Applied Mathematics and Information	2017	National Engineering College,	

genetic algorithm optimized fuzzy controller		Sciences		Kovilpatti	
Influence of metal powder premixing on mechanical behavior of dual reinforcement (Al2O3 (Î ¹ /4m)/Si3N4 (nm)) in AA6061 matrix	Hariharasakthisudhan P., Jose S.	Journal of Alloys and Compounds	2018	National Engineering College, Kovilpatti	
Dry sliding wear behaviour of single and dual ceramic reinforcements premixed with A1 powder in AA6061 matrix	Hariharasakthisudhan P., Jose S., Manisekar K.	Journal of Materials Research and Technology	2018	National Engineering College, Kovilpatti	
Combined effect of nano clay and fibre surface treatment on mechanical behaviours of Palmyra fruit fibre/MMT clay reinforced polyester hybrid composite	Irullappasamy S., Ravindran D.	International Journal of Computer Aided Engineering and Technology	2018	National Engineering College, Kovilpatti	
FiniteElementAnalysisofHeatInputEffectOnTemperature,Residual Stresses andDistortionDistortionWelded Plates	Venkatkumar D., Ravindran D., Selvakumar G.	Materials Today: Proceedings	2018	National Engineering College, Kovilpatti	
Computational fluid dynamics based experimental analysis of solar tunnel dryer for tapioca using aluminium and copper absorber plate	Subbian V., Kalidasa Murugavel K.	Journal of Computational and Theoretical Nanoscience	2017	National Engineering College, Kovilpatti	
Experimental investigation of thermal performance of a single and double pass solar air heater with arc like structures as the absorber plate	Sam Stanley S.G., Kalidasa Murugavel K.	Journal of Computational and Theoretical Nanoscience	2017	National Engineering College, Kovilpatti	
Enhancement of integrated solar still using different new absorber configurations: An experimental approach	Samuel Hansen R., Kalidasa Murugavel K.	Desalination	2017	National Engineering College, Kovilpatti	

Title of the paper	Name of the Author	Title of the Journal	Year of Publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Speed control of switched reluctance motor with torque ripple reduction using non- dominated sorting genetic algorithm (NSGA-II)	Kalaivani L., Subburaj P., Willjuice Iruthayarajan M.	International Journal of Electrical Power and Energy Systems	2013	26	National Engineering College, Kovilpatti	26
Investigation of microstructure and mechanical properties of aluminum hybrid nano-composites with the additions of solid lubricant	Ravindran P., Manisekar K., Vinoth Kumar S., Rathika P.	Materials and Design	2013	26	National Engineering College	26
Effect of phase transformation and intermetallic compounds on the microstructure and tensile strength properties of diffusion-bonded joints between Ti- 6Al-4V and AISI 304L	Vigraman T., Ravindran D., Narayanasamy R.	Materials and Design	2012	27	National Engineering College	27
Effect of axial force on microstructure and tensile properties of friction stir welded AZ61A magnesium alloy	Razal Rose A., Manisekar K., Balasubramanian V.	Transactions of Nonferrous Metals Society of China (English Edition)	2011	30	National Engineering College	30
Enhancing the critical characteristics of natural esters with antioxidants for power transformer applications	Raymon A., Pakianathan P., E. Rajamani M.P., Karthik R.	IEEE Transactions on Dielectrics and Electrical Insulation	2013	32	National Engineering College	32
Optimum manufacturing tolerance to selective assembly technique for different assembly specifications by using genetic algorithm	Kumar M.S., Kannan S.	International Journal of Advanced Manufacturing Technology	2007	33	National Engineering College	33
Thermal creep properties of alloy D9 stainless steel and 316 stainless	Latha S., Mathew M.D., Parameswaran P., Bhanu	International Journal of Pressure Vessels and Piping	2008	34	National Engineering College	34

steel fuel clad tubes	Sankara Rao K., Mannan S.L.					
Influence of fibre treatments on mechanical properties of short Sansevieria cylindrica/polyester composites	Sreenivasan V.S., Ravindran D., Manikandan V., Narayanasamy R.	Materials and Design	2012	35	National Engineering College	35
Performance evaluation of handoff detection schemes	Marichamy P., Chakrabarti S., Maskara S.L.	IEEE Region 10 Annual International Conference, Proceedings/TENCON	2003	35	National Engineering College	35
Multilevel thresholding for segmentation of medical brain images using real coded genetic algorithm	Manikandan S., Ramar K., Willjuice Iruthayarajan M., Srinivasagan K.G.	Measurement: Journal of the International Measurement Confederation	2014	39	National Engineering College	39
Application of extreme learning machine for series compensated transmission line protection	Malathi V., Marimuthu N.S., Baskar S., Ramar K.	Engineering Applications of Artificial Intelligence	2011	44	National Engineering College	44
Intelligent approaches using support vector machine and extreme learning machine for transmission line protection	Malathi V., Marimuthu N.S., Baskar S.	Neurocomputing	2010	44	National Engineering College	44
Mechanical properties of randomly oriented short Sansevieria cylindrica fibre/polyester composites	Sreenivasan V.S., Ravindran D., Manikandan V., Narayanasamy R.	Materials and Design	2011	45	National Engineering College	45
Flow shop scheduling with multiple objective of minimizing makespan and total flow time	Ravindran D., Selvakumar S.J., Sivaraman R., Haq A.N.	International Journal of Advanced Manufacturing Technology	2005	46	National Engineering College	46
Tribological behaviour of powder metallurgy- processed aluminium hybrid composites with the addition of graphite solid lubricant	Ravindran P., Manisekar K., Narayanasamy R., Narayanasamy P.	Ceramics International	2013	56	National Engineering College	56
A review of different methods to enhance the productivity of the multi-effect solar still	Rajaseenivasan T., Murugavel K.K., Elango T., Hansen R.S.	Renewable and Sustainable Energy Reviews	2013	56	National Engineering College	56

The first vitamin B6 zinc complex, pyridoxinato-zinc acetate: A 1D coordination polymer with polar packing through strong inter-chain hydrogen bonding	Chamayou A C., Neelakantan M.A., Thalamuthu S., Janiak C.	Inorganica Chimica Acta	2011	56	National Engineering College	56
Synthesis, characterization and biocidal activities of some schiff base metal complexes	Neelakantan M.A., Esakkiammal M., Mariappan S.S., Dharmaraja J., Jeyakumar T.	Indian Journal of Pharmaceutical Sciences	2010	57	National Engineering College	57
Multi-objective robust PID controller tuning using two lbests multi-objective particle swarm optimization	Zhao SZ., Iruthayarajan M.W., Baskar S., Suganthan P.N.	Information Sciences	2011	58	National Engineering College	58
Tribological properties of powder metallurgy - Processed aluminium self lubricating hybrid composites with SiC additions	Ravindran P., Manisekar K., Rathika P., Narayanasamy P.	Materials and Design	2013	59	National Engineering College	59
Histogram modified local contrast enhancement for mammogram images	Sundaram M., Ramar K., Arumugam N., Prabin G.	Applied Soft Computing Journal	2011	61	National Engineering College	61
N-o -Vanillylidene- l -histidine: Experimental charge density analysis of a double zwitterionic amino acid schiff-base compound	Neelakantan M.A., Chamayou AC., Thalamuthu S., Avadhut Y.S., Schmedt Auf Der Günne J., Banerjee S., Janiak C.	Crystal Growth and Design	2010	64	National Engineering College	64
Microstructural, physico-chemical and mechanical characterisation of Sansevieria cylindrica fibres - An exploratory investigation	Sreenivasan V.S., Somasundaram S., Ravindran D., Manikandan V., Narayanasamy R.	Materials and Design	2011	67	National Engineering College	67
Computer-aided detection of breast cancer on mammograms: A swarm intelligence optimized wavelet neural network approach	Dheeba J., Albert Singh N., Tamil Selvi S.	Journal of Biomedical Informatics	2014	71	National Engineering College	71

	to study the wear of Al hybrid composites with graphite addition	Ravindran P., Manisekar K., Narayanasamy P., Selvakumar N., Narayanasamy R.	kar K., nasamy akumar Materials and Design ., nasamy		2012	2 72	Natio Enginea Colle	ering	72
	slope solar still with minimum	Aurugavel K.K., Sivakumar S., Ahamed J.R., Chockalingam Kn.K.S.K., Srithar K.	avel K.K., cumar S., ned J.R., kalingam K.S.K.,		ed Energy 201		Natio Enginea Colle	ering 1	09
3.4.7	Faculty participation is	n Seminars/Co	onferences and	d Sympo	osia duri	ng the year			
	No. of Faculty Attended Seminars /	Interna	ational level	Natio	onal level 79	l State le	evel	Local lev	vel
	Workshops Presented papers		43		11				
	Resource Persons				33	11			
3.5	CONSULTANCY								
3.5.1	Revenue generated from	om Consultanc	y during the y	vear					
	Name of the Consultant (s) department	Name of C	Consultancy pro	oject	Consulting / Sponsoring Agency CM Envirosystems Pvt Ltd., Bangalore		1	Revenue generated (amount in Rs	
	Mechanical	dust test char					vt F	Rs.2,50,000)/-
	Engineering	woven sack		hodologies for Veubro pol Erode				Rs.25,000/-	
	CSE	Services in the Intelligence			Engine	Power Strateg eering Division		Rs. 3,60,00	0/-
	EEE	Excel Hydro Nanguneri, T	Pneumatics (I Firunelveli	ndia),	Electrical withstand test and megger			Rs. 3,500/-	
	Civil Engineering		and Infrastruct	nts Ltd & Air voice nd Infrastructure ed To determin capacity, C Strength Te cube				Rs. 27,000/-	
3.5.2	Revenue generated from	om Corporate T	Fraining by th	e institu	tion dur	ing the year			
	Name of the Consultant(s) &	Title of the Programme	0	cy seekii aining	ng	Revenue generated (amount in		Number o trainees	of
	Department	i i ogrannine				rupees)			

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 co- ordinated in such activities	Number of students participated in such activities
NSS Special Camp	NSS	2	100
Eye Medical Camp at Aravind Eye Hospital, Tirunelveli	NSS	2	65
CATC camp @ Sankar Polytechnic, Sankar Nagar	NCC	2	54
Thalsainik Camp @ Mannar Thirumalai Naicker College, Madurai	NCC	2	8
BLC Camp @ Periyar Maniammai Universtity, Thanjavur	NCC	2	4
IUC-RDC Camp @ NTA, Idayappatti, Madurai	NCC	2	3
AAC @ 4 ENGRS REGMT, Secunderabad	NCC	2	4
RDC TRG-I CAMP @ James College of Engg, Nagercoil	NCC	2	2
Swachh Bharath Awareness @ NEC & KPT Village	NCC	2	51
Indhradhanush Awareness Program @ Ettayapuram	NCC	2	51
RDC GP TRG-II CAMP @ NTA, Idayappati, Madurai	NCC	2	2
RDC GP Launch Camp @ NTA, Idayappati, Madurai	NCC	2	2
RDC GP IGC Camp @ Bannari Amman College	NCC	2	2
SSB Screening Capsule – OTA, Nagpur	NCC	2	1
Medical Awareness Camp @ Kovilpatti	NCC	2	30
NIC-II @ SILCHAR	NCC	2	6
RDC TRG-II Camp @ New Delhi	NCC	2	1
RDC Training Camp @ New Delhi	NCC	2	1
Trekking Camp @ Belgaum	NCC	2	3

	Youth Day Cell							
	Outdoor Skill P	ractice	NCC		2		61	
	Camp @ Manin	nuthar						
	Weapon Trainir	ng						
	Practice @ San		NGG				- 1	
	Polytechnic Col		NCC		2		51	
	Sankar Nagar							
		NCC B-Certificate						-
			NCC		2		51	
	Exam @ Rani Anna		NCC		2		51	
	College, Tirune							_
	NCC C-Certificate							
	Exam @ St.Joh		NCC		2		21	
	College, Tirune							
	NCC Cycle Ral	ly –						
	"Clean India &	Water	NCC		2		21	
	Conservation" -	- 150	NCC		2		31	
	Kms							
3.6.2	Awards and recogn	nition	received for extension	on activities from G	overnment a	and other	recognized bodies	S
	during the year						-	
	during the year							
	Name of the	<u> </u>						٦
			Award/recognition	n Awarding be	odies I	No. of Stu	idents benefited	
	Activity		-	-				_
3.6.3	Students participat	ing in	extension activities	with Government (roanisation	Non-Go	overnment	
5.0.5		-			-			
	Organisations and	progra	ammes such as Swac	enn Bharat, Aids Av	vareness, Ge	ender Issu	e, etc. during the	year
	Organising unit/				Numbe	er of	Number of student	1 2
	Name of the		rganising unit/				Number of student	
	Name of the		0 0	Name of the activity	teacher	s co-	participated in suc	
	Name of the scheme		0 0	Name of the activity	teacher ordinated	s co- l such		
			cy/ collaborating		teacher	s co- l such	participated in suc	
	scheme	agen	cy/ collaborating agency	Cleaning work in	teacher ordinatec activit	s co- l such	participated in suc	
		agen NSS	cy/ collaborating agency S Club, National		teacher ordinatec activit	s co- l such	participated in suc activities	
	scheme	agen NSS	cy/ collaborating agency S Club, National ineering College,	Cleaning work in	teacher ordinatec activit	s co- l such	participated in suc	
	scheme Swachh	agen NSS	cy/ collaborating agency S Club, National	Cleaning work in Femple, School, Play	teacher ordinatec activit	s co- l such	participated in suc activities	
37	scheme Swachh	agen NSS	cy/ collaborating agency S Club, National ineering College,	Cleaning work in Femple, School, Play ground premises of	teacher ordinatec activit	s co- l such	participated in suc activities	
3.7	scheme Swachh Bharat Collaborations	agen NSS Engi	cy/ collaborating agency S Club, National ineering College, Kovilpatti	Cleaning work in Femple, School, Play ground premises of Villiseri village	teacher ordinated activit	s co- 1 such ties	participated in suc activities	
	scheme Swachh Bharat Collaborations	agen NSS Engi	cy/ collaborating agency S Club, National ineering College,	Cleaning work in Femple, School, Play ground premises of Villiseri village	teacher ordinated activit	s co- 1 such ties	participated in suc activities	
3.7 3.7.1	scheme Swachh Bharat Collaborations	agen NSS Engi	cy/ collaborating agency S Club, National ineering College, Kovilpatti	Cleaning work in Femple, School, Play ground premises of Villiseri village	teacher ordinated activit	s co- 1 such ties	participated in suc activities	
	scheme Swachh Bharat Collaborations Number of Collabo	agen NS: Engi	cy/ collaborating agency S Club, National ineering College, Kovilpatti	Cleaning work in Femple, School, Play ground premises of Villiseri village ch, faculty exchang	teacher ordinatec activit 2 e, student ex	s co- 1 such ties	participated in suc activities 100 luring the year	
	scheme Swachh Bharat Collaborations Number of Collaborations	agen NSS Engi	cy/ collaborating agency S Club, National ineering College, Kovilpatti e activities for resear Participant	Cleaning work in Femple, School, Play ground premises of Villiseri village	teacher ordinatec activit 2 e, student ex	s co- 1 such ties	participated in suc activities 100 luring the year Duration	
	scheme Swachh Bharat Collaborations Number of Collabo	agen NSS Engi	cy/ collaborating agency S Club, National ineering College, Kovilpatti	Cleaning work in Femple, School, Play ground premises of Villiseri village ch, faculty exchang	teacher ordinatec activit 2 e, student ex	s co- 1 such ties	participated in suc activities 100 luring the year	
	scheme Swachh Bharat Collaborations Number of Collaborations	agen NSS Engi	cy/ collaborating agency S Club, National ineering College, Kovilpatti e activities for resear Participant	Cleaning work in Femple, School, Play ground premises of Villiseri village ch, faculty exchang	teacher ordinatec activit 2 e, student ex	s co- 1 such ties	participated in suc activities 100 luring the year Duration	
3.7.1	scheme Swachh Bharat Collaborations Number of Collabo Nature of Actir Paper Publicati	agen NSS Engi orative vity ions	cy/ collaborating agency S Club, National ineering College, Kovilpatti e activities for resear Participant 10	Cleaning work in Temple, School, Play ground premises of Villiseri village ch, faculty exchang Source of fina	teacher ordinated activit 2 e, student ex ncial support	s co- 1 such ties achange d	participated in suc activities 100 luring the year Duration 1 Year	
	scheme Swachh Bharat Collaborations Number of Collabo Nature of Actir Paper Publicati	agen NSS Engi orative vity ions	cy/ collaborating agency S Club, National ineering College, Kovilpatti e activities for resear Participant	Cleaning work in Temple, School, Play ground premises of Villiseri village ch, faculty exchang Source of fina	teacher ordinated activit 2 e, student ex ncial support	s co- 1 such ties achange d	participated in suc activities 100 luring the year Duration 1 Year	
3.7.1	scheme Swachh Bharat Collaborations Number of Collabo Nature of Actir Paper Publicati	agen NSS Engi orative vity ions itution	 cy/ collaborating agency S Club, National ineering College, Kovilpatti activities for resear Participant 10 s/industries for inter 	Cleaning work in Temple, School, Play ground premises of Villiseri village ch, faculty exchang Source of finat	teacher ordinated activit 2 e, student ex ncial support	s co- 1 such ties achange d	participated in suc activities 100 luring the year Duration 1 Year	
3.7.1	scheme Swachh Bharat Collaborations Number of Collabo Nature of Actir Paper Publicati	agen NSS Engi orative vity ions itution	cy/ collaborating agency S Club, National ineering College, Kovilpatti e activities for resear Participant 10	Cleaning work in Temple, School, Play ground premises of Villiseri village ch, faculty exchang Source of finat	teacher ordinated activit 2 e, student ex ncial support	s co- 1 such ties achange d	participated in suc activities 100 luring the year Duration 1 Year	
3.7.1	scheme Swachh Bharat Collaborations Number of Collabo Nature of Actir Paper Publicati	agen NSS Engi orative vity ions itution	 cy/ collaborating agency S Club, National ineering College, Kovilpatti activities for resear Participant 10 s/industries for inter 	Cleaning work in Temple, School, Play ground premises of Villiseri village ch, faculty exchang Source of finat mship, on-the-job tr stry – Institute Inter	teacher ordinated activit 2 e, student ex ncial support aining, proje	s co- 1 such ties	participated in suc activities 100 luring the year Duration 1 Year sharing of	
3.7.1	scheme Swachh Bharat Collaborations Number of Collabo Nature of Acti Paper Publicati Linkages with insti	agen NSS Engi orative vity ions itution etc. du	cy/ collaborating agency S Club, National ineering College, Kovilpatti e activities for resear Participant 10 s/industries for inter ring the year (Indus	Cleaning work in Temple, School, Play ground premises of Villiseri village ch, faculty exchang Source of fina mship, on-the-job tr stry – Institute Inter Name of the pa	teacher ordinated activit 2 e, student ex ncial support aining, proje action)	s co- l such ties	participated in suc activities 100 luring the year Duration 1 Year sharing of	
3.7.1	scheme Swachh Bharat Collaborations Number of Collabo Nature of Actir Paper Publicati	agen NSS Engi orative vity ions itution etc. du	 cy/ collaborating agency S Club, National ineering College, Kovilpatti activities for resear Participant 10 s/industries for inter 	Cleaning work in Femple, School, Play ground premises of Villiseri village ch, faculty exchang Source of fina mship, on-the-job tr stry – Institute Inter Name of the pa Institution / industr	teacher ordinated activit 2 e, student ex ncial support aning, proje action) rtnering y / research	s co- 1 such ties	participated in suc activities 100 luring the year Duration 1 Year sharing of	
3.7.1	scheme Swachh Bharat Collaborations Number of Collaborations Number of Collaborations Linkages with instruction Linkages with instruction Nature of linka	agen NSS Engi orative vity ions itution etc. du ge	 cy/ collaborating agency S Club, National ineering College, Kovilpatti activities for resear Participant 10 s/industries for inter ring the year (Industries for the linkage 	Cleaning work in Temple, School, Play ground premises of Villiseri village ch, faculty exchang Source of finat rnship, on-the-job tr stry – Institute Inter Name of the pa Institution / industr lab with contac	teacher ordinated activit 2 e, student ex ncial support aining, proje action) thering y / research t details	s co- l such ties	participated in suc activities 100 luring the year Duration 1 Year sharing of on To) Participant	
3.7.1	scheme Swachh Bharat Collaborations Number of Collabo Nature of Acti Paper Publicati Linkages with insti	agen NSS Engi orative vity ions itution etc. du ge	cy/ collaborating agency S Club, National ineering College, Kovilpatti e activities for resear Participant 10 s/industries for inter ring the year (Indus	Cleaning work in Temple, School, Play ground premises of Villiseri village ch, faculty exchang Source of finat mship, on-the-job tr stry – Institute Inter Name of the pa Institution / industr lab with contac Apex Design	teacher ordinated activit 2 e, student ex ncial support aning, proje action) rtnering y / research	s co- l such ties	participated in suc activities 100 luring the year Duration 1 Year sharing of on To) Participant	
3.7.1	scheme Swachh Bharat Collaborations Number of Collabo Nature of Acti Paper Publicati Linkages with insti research facilities e Nature of linka Incubation Cente	agen NSS Engi orative vity ions itution etc. du ge	 cy/ collaborating agency S Club, National ineering College, Kovilpatti activities for resear Participant 10 s/industries for inter ring the year (Industries for the linkage 	Cleaning work in Temple, School, Play ground premises of Villiseri village ch, faculty exchang Source of fina mship, on-the-job tr stry – Institute Inter Name of the pa Institution / industr lab with contac Apex Design Coimbatore	teacher ordinated activit 2 e, student ex ncial support action) thering y / research t details Centre,	s co- l such ties	participated in suc activities 100 luring the year Duration 1 Year sharing of on To) Participant	
3.7.1	scheme Swachh Bharat Collaborations Number of Collaborations Number of Collaborations Linkages with instruction Linkages with instruction Nature of linka	agen NSS Engi orative vity ions itution etc. du ge	 cy/ collaborating agency S Club, National ineering College, Kovilpatti activities for resear Participant 10 s/industries for inter ring the year (Industries for the linkage 	Cleaning work in Temple, School, Play ground premises of Villiseri village ch, faculty exchang Source of finat mship, on-the-job tr stry – Institute Inter Name of the pa Institution / industr lab with contac Apex Design	teacher ordinated activit 2 e, student ex ncial support action) thering y / research t details Centre,	s co- l such ties	participated in suc activities 100 luring the year Duration 1 Year sharing of on Fo) Participant rs 28	

National Engineering College

	Internship, on-the-job training, project work	Bizplus Prod Development La	1	5 Years	9
	Internship cum Placement	MOU	Recodem Software Solutions, Chennai	5 years	4
.3	MoUs signed with institu corporate houses etc. due		l, international importance, other i	institutions, indus	stries,
	Organisation	Date of MoU signed	Purpose and Activities	Number of stude participated un	
	M/s. Bizplus Services, Chennai, Taminadu	04.12.2016	To provide training to incubates and to support R&D activities in the area of cloud, IoT and artificial intelligence	9	
	M/s. River silica, Bangalore	17.08.2015	To have collaboration with academic, research and incubation related activities in the area of signal and image processing		
	M/s. BS Tecknology Pvt. Ltd., Madurai, Tamilnadu	07.09.2017	To create entrepreneurs and to develop innovative solutions through web development and software development		
	M/s. Axis Global Institute of Industrial Training, Coimbatore, Tamil Nadu		To train the students and the faculties in PLC and SCADA through industrial internship and inplant training		
	M/s. Mitrah Soft Software Solutions, Kovilpatti, Tamilnadu	01.08.2017	To support startups on software development in the area of web services and web technology		
	Recodem Software Solutions, Chennai	21.02.2018	Internship cum Placement	05	
	AJ & J Tech Solutions Pvt., Ltd, Bangalore	November, 2019	Internship cum Placement	04	
	JiJi Technologies Pvt. Ltd, Tirunelveli	04.09.2017	Academic Interaction and collaboration		

CRIT 4.1	-	ing								
	Physical Facilit									
4.1.1	Budget allocation, excluding salary for infrastructure augmentation during the year									
	Budget allocat	ad for infr	actructura	allaman	tation	Bu	doot u	tilized for inf	rastructu	re development
		Rs. 260		augmen	lation	Du	luget u		3 Lakhs	
4.1.2	Details of augme	Details of augmentation in infrastructure facilities during the yea						<u>Duitili</u>		
1.1.2			i iiii usu c		unities a	unne	the y	<u> </u>		
		Facilities				Exist	0			Newly added
	Campus area			07.00		<u>50 sq</u> .	mt.		4 (211	-
	Class rooms				$\frac{324.28 \text{ sq}}{0720.74}$.649 sq.mt)
	Laboratories Seminar Halls				0729.74)					.34 sq.mt
	Classrooms w		cilitics		71.03 sq.1 9.94 sq. n				1 (18)	6.9 sq.mt)
	Classrooms w				lass rooms					-
	Seminar halls				1455 10011	<u> </u>				_
	Video Centre	when ite i i	defittes			8				_
	No. of importa	ant equipm	ents			209				12
	purchased (≥ 1									
	Current year.									
	Value of the e	ourchased			-			Rs.5	8,98,183	
	during the yea	r (Rs. in La	akhs)							
	Others									
42	Library as a Le	arning R	esource							
4.2	Library as a Le	5								
4.2 4.2.1	Library as a Le	5		l Librai	y Mana	geme	nt Sy:	stem (ILM	S)}	
	-	mated {In	ntegrated	Librar		geme				
	Library is auto	mated {In	ntegrated Nature		nation	geme		stem (ILM) ersion		ear of automatio
	Library is auto Name of the software	mated {In	ntegrated Nature	e of autor y or parti	nation	geme		ersion		
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	Library is auto Name of the software	mated {In ILMS e	ntegrated Nature	e of autor y or parti	nation	geme		ersion		
	Library is autor Name of the software InsproPlus	mated {In ILMS e	ntegrated Nature	e of autor y or parti Fully	nation	geme	V	ersion		
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	Library is autor Name of the software InsproPlus	mated {In ILMS e	ntegrated Nature (fully	e of autor y or parti Fully Fully	nation ally) Existing	e	V	ersion 6.1 wly Added	Y	2013 Total
	Library is autor Name of the software InsproPlus Library Services	mated {In	ntegrated Nature (fully	e of autor y or parti Fully Fully E No.	nation ally) Existing Value	e	V Nev No.	ersion 6.1 wly Added Value	No.	2013 Total Value
	Library is autor Name of the software InsproPlus Library Services	mated {In	ntegrated Nature (fully	e of autor y or parti Fully Fully Fully Fully Fully Fully Fully	nation ally) Existing Value	e	V Ne No. 1703	ersion 6.1 wly Added Value 8,21,677.00	No. 59100	2013 Total Value
	Library is autor Name of the software InsproPlus Library Services Books	mated {In	ntegrated Nature (fully	e of autor y or parti Fully E No. 57,397 1038	nation ally) Existing Value	e 83.75	V No. 1703 29	ersion 6.1 wly Added Value 8,21,677.00	No. 59100 1067	2013 Total Value
	Library is autor Name of the software InsproPlus Library Services Books e-Books	mated {In	ntegrated Nature (fully	e of autor y or parti Fully F No. 57,397 1038 875	nation ally) Existing Value 1,75,59,08	e 83.75 98.50	V Nev No. 1703 29 -	ersion 6.1 wly Added Value 8,21,677.00 - -	No. 59100 1067 875	2013 Total Value 1,83,80,760.75 - -
	Library is autor Name of the software InsproPlus Library Services Books e-Books Journals	Text Boo Reference	htegrated Nature (fully ks e Books	e of autor y or parti Fully Fully B No. 57,397 1038 875 194	nation ally) Existing Value 1,75,59,08 - - - 6,89,59	e 83.75 98.50 57.00	V No. 1703 29 - 125	ersion 6.1 wly Added Value 8,21,677.00 - - 3,73,473.00	No. 59100 1067 875 125	2013 Total Value 1,83,80,760.75 - - 3,73,473.00
	Library is autor Name of the software InsproPlus Library Services Books e-Books Journals	Text Boo Reference	htegrated Nature (fully ks e Books	e of autor y or parti Fully Fully E No. 57,397 1038 875 194 145	mation ally) Existing 1,75,59,08 - - 6,89,59 5,41,16	e 83.75 98.50 57.00 54.00	V No. 1703 29 - 125 152	ersion 6.1 wly Added Value 8,21,677.00 - - 3,73,473.00 5,45,433.00	No. 59100 1067 875 125 152	2013 Total Value 1,83,80,760.75 - 3,73,473.00 5,45,433.00
	Library is autor Name of the software InsproPlus Library Services Books e-Books Journals	Text Boo Reference IEEE Science I	Nature (fully ks e Books	e of autor y or parti Fully Fully E No. 57,397 1038 875 194 145 275	nation ally) Existing Value 1,75,59,08 - - 6,89,59 5,41,16 6,82,85	e 83.75 98.50 57.00 54.00 51.00	V No. 1703 29 - 125 152 275	ersion 6.1 wly Added Value 8,21,677.00 - 3,73,473.00 5,45,433.00 6,92,412.00	No. 59100 1067 875 125 152 275	2013 Total Value 1,83,80,760.75 - 3,73,473.00 5,45,433.00 6,92,412.00
	Library is autor Name of the software InsproPlus Library Services Books e-Books Journals	mated {In ILMS = Text Boo Reference IEEE Science I ASME	htegrated Nature (fully ks e Books Direct	e of autor y or parti Fully Fully E No. 57,397 1038 875 194 145 275	mation ally) Existing Value 1,75,59,08 - - - 6,89,59 5,41,16 6,82,85 2,31,06 11,50	e 83.75 98.50 57.00 54.00 51.00	V No. 1703 29 - 125 152 275 30	ersion 6.1 wly Added Value 8,21,677.00 - 3,73,473.00 5,45,433.00 6,92,412.00 2,28,483.00	No. 59100 1067 875 125 152 275 30	2013 Total Value 1,83,80,760.75 - 3,73,473.00 5,45,433.00 6,92,412.00 2,28,483.00

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		Spol CDs	cen Tutorial	6 nos.	-		-		-	6 nos.		
		Text	Book CDs	3147			263			3410		
	Others (specify)		DELNET Since 2009 (Inter Library Loan & Document Delivery Services)									
		FOS	S Courses the	rough Spol	en Tutoria	lls, IIT l	Bomba	у				
4.2.2	Graduate)	developed b SWAYAM onal (Learni	other MO	OCs plat	form NP	TEL/N	MEI	`				
		ne of the eacher	Nan	ne of the 1	nodule		latforr odule i				Date of la e - cor	U
		-		_				-	•		-	
4.3	IT Infrast	ructure										
4.3.1	Technolog	y Upgradati	on (overall)								
		Total Computer s	Compute r Labs	Internet	Brows	0	Comp Centr		Offic	e I	Departme nts	Others
	Existin g	1544	1163	320 Mbps	83		139)	45		68	46
	Added	59	59									
	Total	1603	1222		83		139)	45		68	46
4.3.2	Bandwidth	n available o	f internet c		n in the I BPS /GE		ion (L	easec	l line)			
4.3.3	Facility for	r e-content										
	Name	of the e-cont facil	·	ment	Provide the link of the videos and media centre and recording facility							re and
	ERP				http://erg	p.nec.e	du.in/e	erp/				
	Feedback	k for Teachin	g - Learning	5	<u>172.16.11.11/feedback</u>							
	R & D po				<u>172.16.1</u>							
	-	Recruitment			172.16.1							
	Faculty A	~ ~			<u>172.16.1</u>							
	NECAM				http://ne			-	itomatic	on/inde	<u>x.php</u>	
	Grievanc		~	~~~	<u>172.16.1</u>	-		<u>ce</u>				
	Choice B	ased Credit S	System (CB	CS)	<u>172.16.1</u>	1.11/c	bcs					
4.4	Maintena	nce of Cam	pus Infras	tructure	1							

4.4.1

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

	Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
Building			1,80,00,000	23,42,381
Equipment	1,50,00,000	2,41,24,533	-	-
Books	10,00,000	8,26,450	-	-
Journals including	25,00,000	19,06,973	-	-
E-journals				
Research & Development	-	19,20,381	-	-
Building Maintenance	-	-	80,00,000	89,71,289
Other Maintenance	-	-	10,00,000	18,82,976
Bus Maintenance	1,20,00,000	1,49,35,238	-	-
Internet	25,00,000	24,53,773	-	-
Software Expenses	15,00,000	12,83,741	-	-
Sports & Games	12,00,000	17,65,693	-	-
Professional Society membership	2,50,000	7,67,828		
Staff Development Expenses	10,00,000	22,47,573	-	-
Student Project Expenses	1,00,000	1,55,957		
Seminar Expenses	12,00,000	12,10,239		
Special course Expenses	8,00,000	6,24,547		
BEC Course Expenses	5,50,000	4,99,375		
Scholarship expenses	3,00,000	2,19,112		
Lab Maintenance	40,00,000	52,41,886		
TOTAL	4,39,00,000	6,01,83,299	2,70,00,000	1,31,96,646

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)

Physical facilities

The comprehensive infrastructure of the College is constituted by elementary features like buildings, classrooms and playgrounds, Administrative office, Auditorium, and advanced attributes like ICTenabled classrooms and laboratory facilities. The physical facilities are made available for the students those who are admitted in the college. Sometimes it is also made available for the other governmental and the nongovernmental organizations for conducting the exams and training based on the availability. The maintenance and the cleaning of all the blocks including classrooms, laboratories and garden are done with the efforts of the non-teaching staff appointed for the above said purpose. A separate wing headed by a Maintenance engineer will supervise the work.

The college has adequate number of the computers with internet connections and UPS support and the utility software's distributed in different locales like office, laboratories, library, departments etc. All the stakeholders have equal opportunity to use those facilities as per the rules and the policies of the institution. The college also provides uninterrupted power supply throughout the campus. The maintenance of UPS and the Generator is regularly done by separate wing headed by Senior Engineer

Academic and Support Facilities

The academic support facilities like library, the sports and the other platforms supporting overall development of the students like NSS or Competitive examination cell etc. is open to the students by 24x7. Accession to library is permitted for both students and faculties by producing id proofs. A provision of the budget for the library maintenance is made by the college management.

The department of physical education has adequate infrastructure consisting of the indoor Hall, 400 meter running track and Hockey ground which can be used by student, staff and the local community. The physical education department of our Institution is facilitated by the physical director and directress to engage the students in physical activities. The cost of maintenance is done by the Management of the college. A gym has been established on behalf of the physical education department within the college premises and hostels.

Academic facilities

The Heads of the respective Departments superintend the research, PG and UG laboratories. Each of the curricular, co-curricular and extra-curricular facilities available in the Departments are maintained and managed in such a way that they are freely accessible to all the students, but strictly monitored by a member of the faculty, who is in charge of the facility. The major funds which aid in the enrichment and maintenance of infrastructural facilities are from the Management and project funds. The institution avidly insists on credibility and transparency in all transactions. As a manifestation of this ideal, a Purchase Committee is constituted to administer all the purchases made in the campus. There are ample guidelines legislated for the Committee to exercise its powers judiciously. The Principal and a Convener, nominated by the College Council, head the Committee.

The College ensures the availability of latest equipment and up-to-date infrastructure in the campus. There is a systematic procedure for the purchase as well as maintenance of these infrastructural facilities including all sorts of equipments which is as follows:

- 1. Submission of requirement in the form of a proposal
- 2. Evaluation by Purchase Committee and Maintenance Committee
- 3. Approval by the Principal
- 4. Call for quotations and verification of prices and availability of the items
- 5. Approval from the Management

6.	At the end of financial year stock verification is undertaken for various departments and a detailed
	report is compiled. Based on this policy the perspective plan for the maintenance, repair, writing off
	and purchase of relevant infrastructure facilities is formulated (refer web site)

- 7. The College maintenance team regularly monitors and supervises the available infrastructure and ensures its upkeep, repair and other maintenance of the infrastructure.
- 8. Round the clock Security of the College aids in keeping the College infrastructure secure.
- 9. Fire Extinguishers have been installed at identified locations.
- 10. Safe and Clean Drinking Water is ensured through ROs and Water Coolers.

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1	Student Su	pport				
5.1.1	Scholarship	s and Financial Sup	oport			
		Nam	e / Title of the scheme	Number of stu	dents Amou	nt in Rupees
	Financial from insti		rious Scholarship	3	1	,35,000
	Financial s	support from other so				
	a) Nation		Vadu Government rship	800	1,1	4,88,200
		Other S	Sources	22	1	,44,000
	b) Interna	ational	-	-		-
5.1.2	Remedial c Mentoring	coaching, Language	ement and developm e lab, Bridge courses	s, Yoga, Meditatio	on, Personal Co	
		f the capability ement scheme	Date of implementation	Number of stude enrolled	Ager	cies involved
	Soft skill D	evelopment	2011	All students	College P	lacement Cell
	BEC Cours	se	2011	115	Trichy	ouncil & Ebek,
	Personal Co	ounseling	2013-14	10		santha Lakshmi. Counsellor
	Yoga		2013-14	209	Sky, Alya	
5.1.3		nefited by guidance luring the year	e for competitive example	ninations and care	er counseling o	ffered by the
	Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counseling activities	Number of students who have passed in the competitive exam	Number of students placed
	2017-18	Gate Forum & Career Guidance Cell	1493	1320	15	207

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Transparency in Evaluation: All the end semester examination papers are shown to the students before publishing the results. Any grievances in the evaluation proposed by the students will be rectified then and there.

		-1					Ave	rage nun	nber of days for
	Tot	al grievances receiv	ved	No. of g		nces redresse	a	-	ce redressal
		102 (Nov. 2017)				02		Withi	n the day
		87 (April 2018)			8	37		vv itili	if the duy
5.2	Student	Progression							
5.2.1	Details of	f campus placeme	nt durin	g the year					
)n campus					Off Campus
	Name o	f Organizations		per of Student	S		of Students	Nurr	ber of Students
		Visited	Р	articipated			laced		Placed
5.2.2	Student n	42 progression to high	or adua	415	onto		07		
5.2.2	Student p	rogression to high	ier educ	ation in perc	entag	ge during the	e year		
	Year	Number of stude enrolling into hig education	her F	Programme aduated from		Department duated from	Name of inst joined		Name of Programme admitted to
		03		B.E		CSE	NEC		ME (CSE)
		05		B.E	N	Iechanical	TCE		MBA
		1		B.E		EEE	Australian N University,A a		MS
	2017- 18	2		B.E		EEE	Anna Unive Chenna	ai	ME
		1		B.E		EEE	PSG tec Coimbate	·	MBA
		1		B.E		EEE	TCE		ME
		1		B.E		EEE	GCE, Tirun		ME
		7		BE		EEE	Private Instit		ME
5.2.3		qualifying in state /SET/SLET/GAT		AT/CAT/GRE	E/TO	FEL/Civil S	ervices/State	Governi	ment Services)
		Items				Students qualifying			n number/roll or the exam
	NET				-	<u> </u>			
	SET					-			
	SLET				-	-			
	GATE					9			
	GMAT					-			
	CAT/M	AT				5			
	GRE TOFEL					-			
	Civil Se					-			
		overnment Services	3						
	Any Ot		-			1			

		Activity		Level		Doutio	ripants
	Ball Badm	ninton (Women)		Inter Zone			.0
		nis (Women)		Inter Zone			5
		Ball (Women)		State Level		1	2
		n team (Men)	Anna U	Jniversity, Cheni	nai Zone -18		6
	Basketball	team (Men)		Jniversity, Cheni		1	2
	Chess team	· · · · ·		Jniversity, Cheni			5
	Hockey te	am (Men)	Anna U	Jniversity, Chenn	nai Zone -18	1	8
5.3	Student Pa	articipation and A	ctivities				
5.3.1		awards/medals for ternational level (a					
	Year	Name of the award / medal	National / International	Sports	Cultural	Student ID number	Name of the student
	2017-18	-	-	-	-	-	-
	representat	ives from each pro		-		•	AC, studen members o
	the council their fellow	ives from each pro and give their op friends and asks t iews are also recor	ogram are inclu inion. This for them to presen	ided. Students o rum also sugge t their grievanc	can directly int sts the student es in a collecti	eract with the members to inve manner. The	members o nteract with e Individua
	the council their fellow student's v important i	and give their op riends and asks t	ogram are inclu inion. This for them to presen ded in the min l, experts and	ided. Students or rum also sugge t their grievanc utes of the mee	can directly int sts the student es in a collecti ting. Before ta	eract with the members to in we manner. The aking any final	members o nteract wit e Individua decision o
	the council their fellow student's v important i the student Fur	and give their op friends and asks t iews are also recor ssues, the Principa	ogram are inclu inion. This for them to presen ded in the min al, experts and al. e their represe	ided. Students of rum also sugge t their grievanc utes of the mee the members fr	can directly int sts the student es in a collecti- ting. Before ta rom the manag Class committ	eract with the remembers to in we manner. The aking any final ement with the ee which inclu	members on nteract wit e Individua decision o e concern o udes facult
	the council their fellow student's v important i the student Fur members, s and wisdor	and give their op friends and asks t iews are also recor ssues, the Principa s give their approv ther, Students give students with good m for the students	ogram are inclu inion. This for them to presen ded in the min d, experts and al. e their represe academic and to define and	ided. Students of rum also sugge t their grievanc utes of the mee the members fr entation in the l slow learners. plan their teach	can directly int sts the student es in a collecti- ting. Before ta rom the manag Class committ The class con hing learning p	eract with the members to in ve manner. The aking any final ement with the ee which inclu nmittee gives f	members of nteract wit e Individua decision o e concern of ndes facult ull freedor ng definin
	the council their fellow student's v important i the student Fur members, s and wisdor evaluation	and give their op friends and asks to iews are also recorn ssues, the Principa s give their approve ther, Students give students with good m for the students procedure for the	egram are inclu inion. This for them to presen ded in the min al, experts and al. their represe academic and to define and continuous as	aded. Students of rum also sugge t their grievance utes of the mee the members fr intation in the slow learners. plan their teach sessment. In a	can directly int sts the student es in a collecti- ting. Before ta com the manag Class committ The class con hing learning p ddition to that	eract with the members to in we manner. The aking any final ement with the ee which inclu- nmittee gives f process includi students have	members on interact with a Individual decision of concern of indes facult full freedor ing definin been give
	the council their fellow student's v important i the student Fur members, s and wisdor evaluation full autono	and give their op friends and asks t iews are also recor ssues, the Principa s give their approv ther, Students give students with good m for the students	ogram are inclu inion. This for them to presen ded in the min al, experts and al. their represe academic and to define and continuous ass ers for the asse	aded. Students of rum also sugge t their grievance utes of the mee the members fr intation in the slow learners. plan their teach sessment. In a pociation, Techn	can directly int sts the student es in a collecti- ting. Before ta com the manag Class committ The class con hing learning p ddition to that ical Chapters a	eract with the members to in we manner. The aking any final ement with the ee which inclu- nmittee gives f process includi students have and club activi	members of nteract with e Individual decision of e concern of ndes facult ull freedon ng definin been give ties such a
	the council their fellow student's v important i the student Fur members, s and wisdor evaluation full autono Rotract, Re every year	and give their op friends and asks to iews are also recorn ssues, the Principal s give their approve ther, Students give students with good in for the students procedure for the my to elect membre ed Cross and so or to enhance various	ogram are inclu inion. This for them to presen ded in the min al, experts and al. their represe academic and to define and continuous ass ers for the asse h. Through the	aded. Students of rum also sugge t their grievance utes of the mee the members fr antation in the slow learners. plan their teach sessment. In a pociation, Techn ese clubs more	can directly int sts the student es in a collecti- ting. Before ta com the manag Class committ The class con hing learning p ddition to that ical Chapters a than 132 activ	eract with the response of the members to inverse to inverse to inverse to inverse to inverse the members. The aking any final ement with the event with the event with the event with the process includi students have and club activities have been	members on interact with a Individual decision of concern of indes facult ull freedon ing definin been give ties such a n conducte
	the council their fellow student's v important i the student Fur members, s and wisdor evaluation full autono Rotract, Re every year programme In ac	and give their op friends and asks to iews are also recorn ssues, the Principal s give their approve ther, Students give students with good in for the students procedure for the my to elect membre ed Cross and so or to enhance various	ogram are inclu inion. This for them to presen ded in the min al, experts and al. their represe academic and continuous ass ers for the asse h. Through the s skills of the s ents play impo	aded. Students of rum also sugge t their grievance utes of the mee the members fr antation in the solution in the l slow learners. plan their teach sessment. In a pociation, Techn ese clubs more students. Students	can directly int sts the student es in a collecti- ting. Before ta com the manag Class committ The class con hing learning p ddition to that ical Chapters a than 132 activ nts act as organ	eract with the research with t	members of nteract wit e Individua decision o e concern of ades facult ull freedor ng definin been give ties such a n conducte inteer man facilities a

5.3	Alumni	Engagement				
5.3.1	Whether 500 word		nas register	red Alum	nni Association? Yes/No, if yes	s give details (maximur
	• N	IEC Alumni assoc	ciation was	started in	the year 1991.	
					ered with Tamil Nadu society	on 01.06.2006. Societ
		egistration No: 5				011 01100.2000, 20010
		-		ad with	world class audio/video conferen	as facility with 200 cas
			•		umni members regularly connect	and share their experience
		o the Students/ Fa		-		
	• T	he association h	as various	chapters	at Chennai, Bangalore, UAE, K	uwait, Singapore and th
	g	eneral body mee	t is conduc	ted once	in a year in which all member	s present and discuss th
	a	ctivities and prog	ress of the a	ssociation	1.	
	• 5	Silver Jubilee Reu	nion is orga	nized and	l celebrated every year (5 Batches	completed).
	• 0	Conducts Seminar	on latest tre	nds in ind	lustry.	
	• F	inancially assistir	ıg in innova	tive proje	cts.	
		rovides job oppor	-	~ •		
		v 11	-	-		
5.3.2	No. of 1	registered Alum	ni: 7000 No	DS		
5.3.3	Alumni	contribution du	ring the ye	ar (in Ru	pees) : Rs. 2,36,000/-	
		Date		Alur	nni Name, Batch	Amount Rs.
		05/02/2017			m MECH 1995	5,000
		05/17/2017	Mr.Madhu			1,00,000
		12/13/2017			gam ECE 1998	21,000
		02/21/2018			umni Members Contribute	30,000
		03/07/2018			Members Contribute umni Members Contribute	45,000
		06/01/2018 06/06/2018			Members Contribute	20,000
		00/00/2010	2002 Date	n / mannin	TOTAL	<u>15,000</u> 2,36,000
5.3.4	Meeting	gs/activities orga	nized by A	Alumni A		2,50,000
	S . N	o Date	Branch	Batch	Event	
	1.	16.06.2017	CSE	1989	Interaction with IT III and Fina topic Awareness Programme in	
	2.	01.07.2017	EIE	2011	(2011 Batch EIE) interacted wit students at Alumni Chamber the Conference	
	3.	03.07.2017	EEE	2016	Alumni interaction with final ye	ar EEE students.
	4.	14.07.2017			1992 batch Reunion	
	5.	14.07.2017	EEE	2010	Alumni interaction with final ye	
	6.	17.07.2017	ECE	2006	Interacted with students on topic Opportunities through Video con	

7.	24.07.2017	ECE	2014	Interacted with students on topic Post Graduation and Job opportunities in Germany through Video conferencing
8.	07.08.2017	ECE	1989	Interacted with students on Applying learning into the constructive development for the world
9.	19.08.2017			Extra Ordinary General Body meeting
10.	21.08.2017	EIE	1998	Interacted with EIE 3 year Students
11.	23.08.2017	EIE	2013	Interacted with final year EIE & ECE students on Tessolve campus drive programme
12.	31.08.2017	EIE	2010	Interacted with EIE students on Safety Engineering Basics
13.	09.09.2017	CSE	2000	Interacted with CSE & IT students
14.	28.09.2017	EIE	2013	Interacted with EIE students
15.	09.12.2017			Alumni participated in NBA Interaction
16.	11.12.2017	MECH	1992	Interacted with CSE & IT students on Latest trend in IT industry & artificial intelligence
17.	22.12.2017	EEE	2015	Interaction with III year EEE students.
18.	30.12.2017	MCA	2000	Interacted with III year IT Students
19.	30.12.2017	CSE	2002	Review of Alumni funded projects
20.	05.01.2018	ECE	2006	Interacted with ECE students
21.	06.01.2018	ECE	2006	Interacted with MECH students
22.	08.01.2018	MECH	2002	Interacted with MECH Faculty
23.	10.01.2018	CSE	1990	Interacted with IT CSE Students on Latest Trend IT
24.	11.01.2018	MECH	2002	Interacted with MECH students Latest trend of mechanical engineering in global level and placement opportunity in global level
25.	24.01.2018	CSE	1988	Interacted with IT II & III year Students
26.	10.02.2018	EIE	2006	Interacted with Mech and EIE final year students towards getting placement in Emerson through Video conferencing
27.	17.02.2018	Mech	2002	First review on alumni fund project at Alumni Chamber through Video conferencing
28.	23.02.2018			Alumni induction programme for final year UG/PG student at Alumni Chamber
29.	06.03.2018	ECE	2005	Interaction with students on topic Higher Studies in Abroad at Alumni Chamber thru Video conferencing
30.	09.03.2018	Mech	2002	Interaction with students on topic Higher Studies in Abroad at Alumni Chamber thru Video conferencing
31.	23.03.2018			Kuwait Chapter 3rd get together
32.	26.04.2018	MECH	1994	Interaction with III Mech and I year students
33.	30.04.2014	CSE	2002	Review of alumni Best project
34.	07.05.2018	CSE	1999	Interaction with III year students

onal Vision and Lea	dership
	-
-	alization and participative management during the last year (maximum
5)	
	ntered practices: Heads of the departments are empowered to prepare
*	he consultation of senior faculty and lab in-charges.
e	DDs, a departmental level committee has been constituted to review the
	pments for laboratories, Research and for regular maintenance activities.
	ven authority in various committees/cells and allowed to conduct various
	to develop leadership skills by being in charge of various academic, co-
	tivities. They are given full rights to conduct industrial tours relevant to
-	with industrial experts and appointed as coordinator and convener for
seminars/workshops/co	
	en authority to do their Research works in their area of interest; in addition
	o set up Research centers with the support of Research funding or the
nt funding.	
- 0	entered practices: Through Choice Based Credit System, Students are
	tive courses as well the faculty members for any course. Students can have
	d through online courses like NPTEL, Coursera, etc., Further, they have
	port to choose their career as Entrepreneur / Higher studies / placement /
for competitive examination	
C C	en enough representation in the highest decision making bodies like
	y Assurance Cell and Board of Studies.
-	vered to play an active role as a coordinator of co-curricular and extra-
activities, social service	
institution have a Ma	nagement Information System (MIS)?
	YES
Development and D	Deployment
nprovement strategie	s adopted by the institution for each of the following (with in 100
I	 i. Efforts have been taken to develop new curriculum for Regulation 2019 by giving special importance for Artificial Intelligence, basic courses and science courses. ii. The entire curriculum for Regulation 2019 has been planned
	with comprising 65% of theory courses and 35% of the practical courses.
g and Learning	i. Product development laboratories are introduced in every department.
2	and Learning

<u> </u>		::	Live domes and animations are instuded in teaching are
		ii.	Live demos and animations are included in teaching process.
		iii.	Google class room teaching has been insisted to adapt for all the
			courses.
		iv.	Online courses like NPTEL, Coursera etc., are insisted to do by
			all the faculty members every year.
	Examination and Evaluation	i.	Evaluation of marks encompasses internal marks through
			continuous assessment and external marks scored in End
			Semester Examination.
		ii.	Automation of the examination cell to ensure timely declaration
			of results to keep the academic calendar on schedule.
		iii.	Dummy number system has been followed in Semester exam
			valuation to keep the honesty in valuation.
	Research and Development	i.	Every program has separate research centre approved by Anna
			University except Civil Engineering.
		ii.	Incentives for research publications and research projects are
			provided
		iii.	To promote R & D activities, progress review is conducted for
			faculty members having Ph.D degree and research scholars
	Library, ICT and Physical	i.	In the academic year 2017-18, Central library is added with
	Infrastructure /		a. 1703 books are newly added that worth Rs. 8,21,677/
	Instrumentation		b. 125 Journals subscriptions that worth Rs. 3,73,473/-
			c. E-Journals to the worth of Rs. 14,79,898/-
		ii.	Every department has individual smart class room that worth Rs.
			2 Lakh
		iii.	Books exhibition is arranged every year thro' vendors at campus
			to identify the quality books
		iv.	Special books have been exclusively purchased for
			Entrepreneurship Development of worth nearer to Rs. 1 lakh.
		v.	Central library and department libraries are equipped with Air-
			conditioner
		vi.	Every department has individual air-conditioned seminar hall
			with LCD projector, smart TV and computer system with
			internet connection.
	Human Resource	i.	Recruitment of faculty and staff are based on the guidelines
	Management		provided by Anna University and AICTE, New Delhi.
		ii.	There are many staff welfare schemes namely EPF, Group
			insurance and Accidental policy
		iii.	Sponsorship of Higher Studies for Faculties
		iv.	Organizing Developmental training programme and
		1	
			workshops/seminars for enhancing the multi-skills of faculties.
		v.	workshops/seminars for enhancing the multi-skills of faculties. Effective appraisal system has been followed to assess the
		v.	
		v. vi.	Effective appraisal system has been followed to assess the
			Effective appraisal system has been followed to assess the performance of faculties.

	Industry Intera	action /	The Institute has collabo	ration with the following indu	stries of repute
	Collaboration		at both national and Inter	•	
			 Apex Design Co 	entre, Coimbatore æms, Bangalore.	
			•	are Private Limited, Madurai	
	Admission of	Students	The students are admitte	ed according to the Anna Univ	versity / Tamil
			Nadu Government/ AIC	-	2
6.2.2	Implementation	of e-governance	in areas of operations		
	Planning and	Development	HR ManagOnline fact	ement lty recruitment process	
	Administrati	on	Hostel MarPerformanceEnquiries	Management nagement ce reports, Access reports, onli re apply and approval	ne Entries and
	Finance and	Accounts	Finance Ma		
	Student Adn	nission and Support	Central Lib Student Ma Automatic	orary Management anagement SMS for absentee, e-circular n	otifications
				portal for staff and students	
	Examination	1	COE Admi		
6.3	Faculty Empor	werment Strategi	Certificate es	Issue	
6.3.1	Teachers provi	ided with financ	ial support to atten	d conferences / worksho	ns and towards
0.011			odies 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 Rs.)
	05.02.2018 to 09.02.2018	Dr.D.Ravindran, F.Michael Thomas rex and P.Harihara sakthi sudhan	Innovative Digital tools enabled product design	GIAN Course, IIT, Madras	18335
	19.02.2018 to 24.02.2018	Dr.D.Venkat kumar, Dr.M.Kathiresan, Dr.R.Hari chandran	Smart Manufacturing	GIAN Course, NIT, Jalandhar	7270
	12.03.2018 to 17.03.2018	Dr.H.Kanagasaba pathy	FDP	GIAN course, Allahabad	14547
	26.12.2017 to 02.01.2018	Mr.K.J.Prasanna Venkatesan	Vogue Technologies On 5g And 5g+ Communication And Vehicular Technology	GIAN Workshop NIT, Trichy	

I					
26.03.2	2018		Five days GIAN course		
to	2010	$I Ir \Delta Nhenhadayalli$	on "Advanced Pattern	GIAN Course MNIT, Jaipur	16050
30.03.2	2018		Recognition		10000
			Techniques"		
25.12.2	2017	Mc N K arthika	Advances In Cmos	GIAN COURSE	
to	017		Clock Generation	NIT, WARANGAL	
29.12.2	2017		Circuits		
05.03.2	2018		Programming GPUs &	CLAN	
to		Dr V (tomathi	Accelerators: A	GIAN course	16901
09.03.2	2018		Principled Quantitative	IIT Hyderabad, Telangana	
			Approach Algorithmic		
10.12.2	0017		Foundations of	GIAN course	
to	2017		Wireless	Department of MACS and	18432
14.12.2	2017	1 10011011 00	Sensor Networks with	Department of	10452
17.12.2	2017	-	Applications	CSE, NIT, Surathkal.	
			Five Days GIAN		
26.03.2	2018	Ms.M.Bnuvaneswari,	Course on	National Institute of	
to	010	IVIS. V.J youini	"Introduction to	Technology Karnataka,	22095
30.03.2	2018	Bindhu &	Software defined	Surathkal	
		IVIS IVI TAVATAKSOODI	networks"		
			Five days GIAN		
05.03.2	2018	Ms.R.Rajakumari	Course on "Advanced		
to		&	Pattern Recognition	IIT, Indore, MP	30690
09.03.2	2018	Ms.G.R.Hemalakshmi			
			Biometrics"		
26.03.2	2018		Five days GIAN course	Malaviya National Institute	
to	2010	Mc V Vimala	on "Advanced Pattern	of Technology Jaipur,	16050
30.03.2	2018		Recognition	Department of CSE	10020
			Techniques"	*	
26.03.2	2018		Five days GIAN course	Malaviya National Institute	
to			on "Advanced Pattern	of Technology Jaipur,	16050
30.03.2	2018		Recognition	Department of CSE	
16.11.2	0017		Techniques" Remote Sensing Image		
to	2017		000	GIAN Course NIT, Surathkal	9120
20.11.2	2017		Analysis	OFAN COUISE INT, Suralikar	9120
29.01.2			"Model Predictive		
to	2010	Mr. R.Muniraj &	Control: Theory and	GIAN course IIT, Madras	_
02.02.2	2018		Applications"	Giral course in , madras	
			Multi-phase drive and		
12.02.2	2018		generation systems for		10.425
to	010		advanced industrial	GIAN course VNIT, Nagpur	12435
16.02.2	2018		applications		
05.02.2	2018		Innovative Digital		
to			Tools Enabled Product	GIAN Course IIT Madras	10000
09.02.2	2018		Design		
26.03.2			Advanced Pattern		
to		Dr.D.Manimegalai		Gian Course MNIT Jaipur	16050
30.03.2			Techniques		
08.01.2	2018		Fundamentals of		
to			Optical Wireless	GIAN course NIT, Nagpur	14200
12.01.2			Communications		
16.11.2			Remote Sensing Image		
to			Processing and	GIAN Course NIT, Surathkal	9120
20.11.2	2017		Analysis		

	08.01.2018 to 12.01.2018	Dr. S.Thalam	Gian Programme Inorganic Chemistry of imaging: Magnetic resonance and optical imaging coordination complex	f Discipline of Ch Indian Institu Technology, I	ite of	5810
				TOTAL A	AMOUNT 2,	53,155.00
6.3.2			elopment / administrative t n teaching staff during the			-
	Dates	Programme	Title	Experts	Participants	Nos.
	22.05.2017	Training	Instructional Design and	NITTTRC,	APs less than	75
	to 26.05.2017	programs	Delivery Systems	Taramani.	five years of experience	
	23.05.2017	Workshop	Defining short term	FDS_NEC	HODs and	62
	to	1	Goals for departments,	-	Senior faculties	
	25.05.2017		set targets for next academic year and planning strategy to achieve the targets and goals		of all the departments	
	26.05.2017	Meeting	Augmenting Engineering Education in the region	PALS, PAN IIT Alumni Leadership Series, Chennai	All HODs and Deans	10
	27.05.2017	Training	Technology Enabled	NITTTRC,	Senior faculties	91
	to 29.05.2017	program	Learning	Taramani.	except HODs	
	28.05.2017	Training	Technology Enabled	NITTTRC,	APs less than	103
	to 30.05.2017	program	Learning	Taramani.	five years of experience	
	01.06.2017	Workshop	OBE and its implementation in NEC – A review and resetting the process	FDS_NEC	50% of the staff members except (2)	73
	02.06.2017	Workshop	OBE and its implementation in NEC – A review and resetting the process	FDS_NEC	Remaining 50% of the staff members except (2)	75
	03.06.2017	Process	NEC Benchmark	FDS_NEC	-	-
	16.06.2017	Discussion	Strategic planning to achieve the short term goals of all departments	FDS_NEC	HODs	8
	17.06.2017	Workshop	Technical demo session for new toolboxes of MATLAB	Enthu Technology Solutions India Pvt Ltd, Coimbatore	Staff from EEE, ECE, E&I, Mech, CSE, IT, Maths &Physics	30
	27.06.2017	Process	Submission – NEC Benchmark Consolidated Report	FDS_NEC	-	-
	07.07.2017	Data Collection	List of experts from IITs, NITs or any other reputed institutions	FDS_NEC	-	-
	19.08.2017	Workshop	Blooms taxonomy for teaching learning process	FDS_NEC	Assistant professors	127

	24.08	3.2017	Process	Submission of Appra	aisal	FDS_NEC	-	-
	14 09	.2017	Review	Forms – Version I Mid semester		FDS_NEC	Assistant	127
		0	10000	competency		125_1120	professors	127
	25.09						_	
	28.09	.2017	Review Meeting	Technology enabled teaching-learning process		FDS_NEC	AP(SG) Asso. Profs.	64
	26.10	0.2017	Workshop	Application of Bloor taxonomy for TLP	n's	Dr.S.Baskar TCE, Madurai	Senior faculty members	40
	11.11	.2017	Workshop	Application of Bloor taxonomy for TLP	n's	Dr.S.Baskar TCE, Madurai	AP(SG) Asso. Profs.	64
	18.11	.2017	Workshop	Application of Bloor taxonomy for TLP	n's	Dr.S.J.Thiruveng dam TCE, Madurai	a Assistant professors	127
	te	0.2017 0.2017	In house Training Programme	Leadership Qualities Enhancement and Management	,	Mr.Natesan, Consultant, Lead Training	Senior faculty members	41
				Development programme		Solutions, Chennai		
				itude, skills and knowl	5480	· · · · · · · · · · · · · · · · · · ·		
6.3.3				ofessional developme m Course, Faculty D	-	-		
6.3.3	Refreshe	er Cour	se, Short Terr	m Course, Faculty D	evelo	pment Programn	nes during the year	
6.3.3	Refreshe	er Cour	e of the profess	m Course, Faculty De	evelo Nun	nber of teachers	nes during the year Date and Durati	
6.3.3	Refreshe S. No.	er Cour Title	e of the profess progra	m Course, Faculty De ional development amme	evelo Nun	pment Programm nber of teachers who attended	nes during the year Date and Durati (from – to)	on
6.3.3	Refreshe S. No. 1.	er Cour Title FDP or	e of the profess	m Course, Faculty D ional development amme sed Teaching	evelo Nun	nber of teachers	nes during the year Date and Durati	on
6.3.3	Refreshe S. No.	FDP or FDP or Learnin	e of the profess progra n Outcome Bas ng at IIT, Madu n Empowering	m Course, Faculty De ional development amme sed Teaching ras Teachers in Life	evelo Nun	pment Programm nber of teachers who attended	nes during the year Date and Durati (from – to)	on 1.2017
6.3.3	S. No. 1. 2. 3. 3.	FDP or FDP or Learnin FDP or Skills I FDP or	e of the profess progra n Outcome Bas ng at IIT, Madu n Empowering Education at Na n Stability Desi	m Course, Faculty De ional development amme sed Teaching ras Teachers in Life IT, Trichy ign of Steel	evelo Nun	nber of teachers who attended 4	Date and Durati (from – to) 01.11.2017 to 03.1	on 1.2017 1.2017
6.3.3	S. No. 1. 2. 3. 3.	FDP or FDP or Learnin FDP or Skills I FDP or Buildir	e of the profess progra n Outcome Bas ng at IIT, Madu n Empowering Education at N n Stability Desi ngs at IIT Madu	m Course, Faculty De ional development amme sed Teaching ras Teachers in Life IT, Trichy ign of Steel ras	evelo Nun	nber of teachers who attended 4 1 3	nes during the year Date and Durati (from – to) 01.11.2017 to 03.1 06.11.2017 to 10.1	on 1.2017 1.2017 1.2017
6.3.3	S. No. 1. 2. 3. 4. 5. 5.	FDP or FDP or Learnin FDP or Skills I FDP or Buildin FDP or FDP or	e of the profess progra n Outcome Bas ng at IIT, Madu n Empowering Education at N n Stability Dest ngs at IIT Madu n Entrepreneur n Data Science	m Course, Faculty De ional development amme sed Teaching ras Teachers in Life IT, Trichy ign of Steel ras ship at NEC Research And Big	evelo Nun	nber of teachers who attended 4	nes during the year Date and Durati (from – to) 01.11.2017 to 03.1 06.11.2017 to 10.1	on 1.2017 1.2017 1.2017 2.2017
6.3.3	S. No. 1. 2. 3. 4. 5. 5.	FDP or FDP or Learnin FDP or Skills I FDP or Buildin FDP or FDP or Data A	e of the profess progra n Outcome Bas ng at IIT, Madu n Empowering Education at N n Stability Desi ngs at IIT Madu n Entrepreneur n Data Science nalysis at NEC	m Course, Faculty De ional development amme sed Teaching ras Teachers in Life IT, Trichy ign of Steel ras ship at NEC Research And Big	evelo Nun	nber of teachers who attended 4 1 3 7 2	nes during the year Date and Durati (from – to) 01.11.2017 to 03.1 06.11.2017 to 10.1 06.11.2017 to 10.1 04.12.2017 to 16.12 11.12.2017 to 23.12	on 1.2017 1.2017 1.2017 2.2017 2.2017
6.3.3	S. No. 1. 2. 3. 4. 5. 6.	FDP or Learnin FDP or Skills I FDP or Buildir FDP or Data A FDP or on "No	e of the profess progra n Outcome Bas ng at IIT, Madu n Empowering Education at N n Stability Dest ngs at IIT Madu n Entrepreneur n Data Science nalysis at NEC n Quality Impro-	m Course, Faculty De ional development amme sed Teaching ras Teachers in Life IT, Trichy ign of Steel ras ship at NEC Research And Big	evelo Nun	nber of teachers who attended 4 1 3 7	nes during the year Date and Durati (from – to) 01.11.2017 to 03.1 06.11.2017 to 10.1 06.11.2017 to 10.1	on 1.2017 1.2017 1.2017 2.2017 2.2017
6.3.3	S. No. 1. 2. 3. 4. 5. 6.	FDP or FDP or Skills I FDP or Buildir FDP or Data A FDP or On "No IISC, F FDP or on " Learnin	rse, Short Terr of the profess progra a Outcome Bas ng at IIT, Madu a Empowering Education at N a Stability Dest ngs at IIT Madu a Entrepreneur a Data Science nalysis at NEC a Quality Impro- onlinear Adapti Bangalore n Quality impr Technology ng Process" co	m Course, Faculty De ional development amme sed Teaching ras Teachers in Life IT, Trichy ign of Steel ras ship at NEC Research And Big Covement Programme	evelo Nun	nber of teachers who attended 4 1 3 7 2	nes during the year Date and Durati (from – to) 01.11.2017 to 03.1 06.11.2017 to 10.1 06.11.2017 to 10.1 04.12.2017 to 16.12 11.12.2017 to 23.12	on 1.2017 1.2017 1.2017 2.2017 2.2017 5.2017
6.3.3	S. No. 1. 2. 3. 4. 5. 6. 7. 7.	FDP or Learnin FDP or Skills I FDP or Buildir FDP or Data A FDP or On "No IISC, E FDP or on " Learnin Chenna	e of the profess progra n Outcome Bas ng at IIT, Madu n Empowering Education at N n Stability Dest ngs at IIT Madu n Entrepreneur n Data Science nalysis at NEC n Quality Impro- polinear Adapti Bangalore n Quality impro- Technology ng Process" co- ai at NEC	m Course, Faculty De ional development amme sed Teaching ras Teachers in Life IT, Trichy ign of Steel ras ship at NEC Research And Big C ovement Programme ive Control Design", ovement Programme Enabled Teaching	evelo Nun	nber of teachers who attended 4 1 3 7 2 1	Date and Durati (from – to) 01.11.2017 to 03.11 06.11.2017 to 10.11 06.11.2017 to 10.11 04.12.2017 to 16.12 11.12.2017 to 23.12	on 1.2017 1.2017 1.2017 2.2017 2.2017 5.2017 5.2017
6.3.3	S. No. 1. 2. 3. 4. 5. 6. 7. 8.	FDP or FDP or Skills I FDP or Buildir FDP or Data A FDP or On "No IISC, E FDP or on " Learnin Chenna FDP or on "	e of the profess progra a Outcome Bas ing at IIT, Madu a Empowering Education at N a Stability Desi ings at IIT Madu a Entrepreneur a Data Science in Quality Impro- pollinear Adapti Bangalore in Quality impro- Technology ing Process" co- ai at NEC in "Energy and lologies" at TC	m Course, Faculty De ional development amme sed Teaching ras Teachers in Life IT, Trichy ign of Steel ras ship at NEC Research And Big C ovement Programme ive Control Design", rovement Programme Enabled Teaching nducted by NITTTR, power quality audit CE, Madurai	evelo Nun	nber of teachers who attended 4 1 3 7 2 1 9 9	Date and Durati (from - to) 01.11.2017 to 03.1 06.11.2017 to 10.1 06.11.2017 to 10.1 04.12.2017 to 10.1 11.12.2017 to 23.1 12.06.2017 to 16.0 27.05.2017 to 29.0 27.11.2017 to 10.1	on 1.2017 1.2017 1.2017 2.2017 5.2017 5.2017 2.2017 2.2017
6.3.3	S. No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 9.	FDP or FDP or Skills I FDP or Buildin FDP or Data A FDP or On "No IISC, F FDP or On " Learnin Chenna FDP or on " Learnin Chenna FDP or on " Chenna FDP or on " Chenna	e of the profess progra a Outcome Bas ing at IIT, Madu a Empowering Education at N a Stability Dest ings at IIT Madu a Entrepreneur a Data Science inalysis at NEC a Quality Impro- pollinear Adapti Bangalore in Quality impro- Technology ing Process" co- ai at NEC a "Energy and clologies" at TC a "Recent trend a Voltage Engi	m Course, Faculty De ional development amme sed Teaching ras Teachers in Life IT, Trichy ign of Steel ras ship at NEC Research And Big C ovement Programme ive Control Design", ovement Programme Enabled Teaching nducted by NITTTR, power quality audit	evelo Nun	nber of teachers who attended 4 1 3 7 2 1 9	Date and Durati (from - to) 01.11.2017 to 03.11 06.11.2017 to 10.11 06.11.2017 to 10.11 04.12.2017 to 16.12 11.12.2017 to 23.12 12.06.2017 to 16.00 27.05.2017 to 29.03	on 1.2017 1.2017 1.2017 2.2017 2.2017 5.2017 5.2017 2.2017 1.2017

	11.	0 0	cessing and applications	1	04.09.20	017 to 08.09.2017	
		· ·	ed) at IISC, Bangalore				
	12.		sed sensors: Fabrication	3	12.02.20	018 to 16.02.2018	
			on at IISC, Bangalore				
	13.	HDL for Signal, I	•	1	21.08.20	017 to 26.08.2017	
		Processing (HSIV					
		Sponsored) at IIT					
	14.	FDP on Environm	^	1	27.11.20	017 to 01.12.2017	
		Assessment at NI					
	15.	STTP on Geo Syr		3	05.02.20	018 to 10.02.2018	
		Construction Mat	erials at IIT Madras				
	16.	FDP course on Ad	dvanced Pattern	1	13.06.2017 to 17.06.2017		
		Reorganization Te	echniques at NEC				
	17.	-	d- FDP on Data Science	5	11.12.2017 to 23.12.2017		
		Research And Big	g Data Analytics at NEC				
	18.	FDP on "Foundat	ion Program 4.1 at SIT,	3	06 11 20	017 to 10.11.2017	
		Kariapatti			00.11.20	/1/ 10/10.11.2017	
	19.	FDP on Deep lea	rning – Academic and	3			
		Research perspect	tives at PSG Tech,		24.01.20	017 to 25.01.2017	
	Coimbatore						
	20.	FDP on research l	based statistical,	1			
		analytical and dat	a modeling tools at		26.04.20	018 to 28.04.2018	
		TCE, Madurai					
6.3.4	Faculty	and Staff recruitr	nent (no. for permanent i	recruitment):			
		Teac	hing		Non-teachin	ng	
		Teac Permanent	hing Fulltime	Permanent	Non-teachin	ng Fulltime	
		Permanent	Fulltime	Permanent	Non-teachin	Fulltime	
					Non-teachin	•	
635	Walford	Permanent 34	Fulltime	Permanent	Non-teachin	Fulltime	
6.3.5	Welfar	Permanent	Fulltime	Permanent	Non-teachin	Fulltime	
6.3.5	Welfar	Permanent 34 e schemes for	Fulltime 34	Permanent 20	Non-teachin	Fulltime	
6.3.5	Welfar	Permanent 34 e schemes for Teaching	Fulltime 34 • Transport facili	Permanent 20	Non-teachin	Fulltime	
6.3.5	Welfar	Permanent 34 e schemes for	Fulltime 34 • Transport facili • Staff Quarters	Permanent 20 ties	Non-teachin	Fulltime	
6.3.5	Welfar	Permanent 34 e schemes for Teaching	Fulltime 34 • Transport facili • Staff Quarters • Medical and Ma	Permanent 20 ties	Non-teachin	Fulltime	
6.3.5	Welfar	Permanent 34 e schemes for Teaching	Fulltime 34 • Transport facili • Staff Quarters • Medical and Ma • EPF	Permanent 20 ties aternity Leave	Non-teachin	Fulltime	
6.3.5	Welfar	Permanent 34 e schemes for Teaching	Fulltime 34 • Transport facili • Staff Quarters • Medical and Ma • EPF • Mediclaim polici	Permanent 20 ties aternity Leave	Non-teachin	Fulltime	
6.3.5	Welfar	Permanent 34 e schemes for Teaching Non teaching	Fulltime 34 • Transport facilit • Staff Quarters • Medical and Ma • EPF • Mediclaim polit • Group gratuity	Permanent 20 ties aternity Leave cy &		Fulltime	
6.3.5	Welfar	Permanent 34 e schemes for Teaching	Fulltime 34 • Transport facili • Staff Quarters • Medical and Ma • EPF • Mediclaim polic • Group gratuity • Scholarships lik	Permanent 20 ties aternity Leave cy & cy &	uate etc.,	Fulltime 20	
6.3.5	Welfar	Permanent 34 e schemes for Teaching Non teaching	Fulltime 34 • Transport facili • Staff Quarters • Medical and Ma • EPF • Mediclaim polic • Group gratuity • Scholarships lik • Medical Insurar	Permanent 20 ties aternity Leave cy & ce SC/ST, first gradu ace Policy for studen	uate etc., nts and paren	Fulltime 20 ts.	
6.3.5	Welfar	Permanent 34 e schemes for Teaching Non teaching	Fulltime 34 • Transport facili • Staff Quarters • Medical and Ma • EPF • Mediclaim polic • Group gratuity • Scholarships lik • Medical Insurar • Prof.S.Kannapp	Permanent 20 ties aternity Leave cy & ce SC/ST, first gradu ace Policy for studen oan Memorial Schola	uate etc., nts and paren	Fulltime 20 ts.	
6.3.5	Welfar	Permanent 34 e schemes for Teaching Non teaching	Fulltime 34 • Transport facili • Staff Quarters • Medical and Ma • EPF • Mediclaim polic • Group gratuity • Scholarships lik • Medical Insurar • Prof.S.Kannapp • excellent and po	Permanent 20 ties aternity Leave cy & te SC/ST, first gradu nce Policy for studen oan Memorial Schola por student.	uate etc., nts and paren arship for aca	Fulltime 20 ts.	
6.3.5	Welfar	Permanent 34 e schemes for Teaching Non teaching	Fulltime 34 • Transport facili • Staff Quarters • Medical and Ma • EPF • Mediclaim polic • Group gratuity • Scholarships lik • Medical Insurar • Prof.S.Kannapp • excellent and po	Permanent 20 ties aternity Leave cy & ce SC/ST, first gradu- nce Policy for studen oan Memorial Schola por student. ship for poor studen	uate etc., nts and paren arship for aca	Fulltime 20 ts.	

6.4	Financial Management and Resource Mobilization									
6.4.1	Institution c	conducts internal	and external	financial au	dits re	egularly (v	within 100 words eac	ch)		
	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 finance	cial year, the ove	erall account o	details are at	laitea	by a char	ted audited accounta	nt.		
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 govern		Funds / G	rants		Purpose			
		agencies / indiv		received in		G(1	-	1		
		Alumni Fur	Id	2,36	,000		ents' best Project award tudents' Scholarship	a,		
	Prof. Kannappan Memorial Award			1,35	,000	Acecon	ademically strong and omically poor students holarship for 3 years	,		
		Research fu	nd	20,00	,000		otted from the institution research	on for		
6.4.3	Total corpu	s fund generated								
6.5	Internal Q	uality Assuranc	e System							
6.5.1	Whether Ac	cademic and Adr	ninistrative A	udit (AAA)	has b	een done'	2			
		Audit Type	Exte	rnal		iternal				
		Audit Type	Yes / No	Agency Ye		es / No	Authority			
		Academic	No			Yes	Faculty Development Section			
		Administrative	yes			No				
6.5.2	Activities and support from the Parent – Teacher Association (at least three)									
	 General Body Meeting of Parent Teachers Association was held on 23.07.17 at 11.30 am General Body Meeting of Parent Teachers Association was held on 18.02.18 at 11.30 am Executive committee members meetings was held on 23.07.17 & 18.02.08 at 10 am Parents are informed about CBCS, OBE, Gate coaching and Aptitude training etc., 									
6.5.3	Development programmes for support staff									
	■ "Re	e-Engineering of	attitude, skill	ls and know	ledge'	' : HR Tra	ining – 23.09.2017			
6.5.4	Post Accre	editation initiativ	e(s) (mention	at least three	ee)					
	 Procedure for Credit Transfer is defined Student Leadership development programme is organized to enhance the employment skills Procedure has been defined to identify slow learners Entrepreneurship activities are motivated for self employment. 									

6.5.5	a. Submission of Data for AISHE portal	: No							
	b. Participation in NIRF : Yes								
	c. ISO Certification	: No							
	d. NBA or any other quality audit	: Yes							
6.5.6	Number of Quality Initiatives undertaken during the year								
	Name of quality initiative by IQAC	Date of conducting activity	Number of participants						
	12 th IQAC Meeting	15.07.2017	24						
	13 th IQAC Meeting	20.01.2018	25						
	Academic Administrative Audit (AAA)	07.06.2017-16.06.2017 03.03.2018-13.03.2018	207 207						
	Participation in NIRF	17.01.2018							
	NBA visit	08.12.2017	ECE						
		25.03.2017	CSE,EEE						
	Academic Quality Audit	19.08.2017	Mech, ECE, EEE, EIE, CSE, IT & Civil						
		26.08.2017	S&H						
	 Assurance Report (AQAR) to NAAC; Fee for improvements Academic Administrative Audit (AAA) co Participation in NIRF 	edback from all stakeholders	·						
	for improvementsAcademic Administrative Audit (AAA) co	edback from all stakeholders	collected, analysed and used						
	for improvements • Academic Administrative Audit (AAA) co • Participation in NIRF • NBA. • Academic Quality Audit, etc ERION VII - INSTITUTIONAL VALU	edback from all stakeholders nducted and its follow up act	collected, analysed and used tion						
7.1	 for improvements Academic Administrative Audit (AAA) co Participation in NIRF NBA. Academic Quality Audit, etc 	edback from all stakeholders nducted and its follow up act	collected, analysed and used tion						
	for improvements • Academic Administrative Audit (AAA) co • Participation in NIRF • NBA. • Academic Quality Audit, etc ERION VII - INSTITUTIONAL VALU	edback from all stakeholders nducted and its follow up act UES AND BEST PRAC a bilities	collected, analysed and used tion CTICES						
7.1	 for improvements Academic Administrative Audit (AAA) co Participation in NIRF NBA. Academic Quality Audit, etc ERION VII - INSTITUTIONAL VALU Institutional Values and Social Response Gender Equity (Number of gender equity processed)	edback from all stakeholders nducted and its follow up act UES AND BEST PRAC ibilities romotion programmes organ	collected, analysed and used tion CTICES						
7.1	 for improvements Academic Administrative Audit (AAA) co Participation in NIRF NBA. Academic Quality Audit, etc ERION VII - INSTITUTIONAL VALU Institutional Values and Social Response Gender Equity (Number of gender equity prithe year)	edback from all stakeholders nducted and its follow up act UES AND BEST PRAC ibilities romotion programmes organ	collected, analysed and used tion CTICES nized by the institution during						
7.1	 for improvements Academic Administrative Audit (AAA) co Participation in NIRF NBA. Academic Quality Audit, etc ERION VII - INSTITUTIONAL VALU Institutional Values and Social Response Gender Equity (Number of gender equity prithe year)	back from all stakeholders nducted and its follow up act UES AND BEST PRAC (bilities romotion programmes organ to)	collected, analysed and used tion CTICES nized by the institution during Participants						
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	Ramp/ Rails				Yes							
	Braille Software/facilities				Yes (Under development)							
	Rest Rooms				No							
	Soribos for avamination				Yes (Provision is available)							
	Scribes for examination				165	(FI		anable)				
	Special skill development for differently abled students						No					
	Any ot	her sim	ilar facility				No					
7.1.4	Inclusion a											
	Enlist mos the year	st impo	rtant initiati	ives ta	aken to	ado	dress locatio	onal advan	tages	and disadvanta	ges during	
	Year address location disadvantages a		iatives to is locational intages and	init ta enga and c to	Number of initiatives taken to engage with and contribute to local community		Date and duration of the initiative	Name of initiati		Issues addressed	Number of participating students and staff	
	2017-18		1		1		January to April 2018	Busine Incubator		For Economic Development	10	
	2017-18		1		1		May-June 2018	Live-In	lab	For the welfare of rural people (for village adoption scheme)	25	
	2017-18		1		1		June'17 – April'18	NewG IEDO		For development of products	40	
7.1.5	Human Values and Professional E Code of conduct (handbooks) for Title Date of Publication NEC Bulletin 05.06.2017		on Follow up (maxin Students are generally follow and if any misconduct, studen			imum 100 words each) wing the code of conduct correctly ents are advised through the mentor. e committee do the enquiry and en.						
7.1.6	Activities conducted for promotion of universal Values and Ethics											
	Activity -				Duration (fromto) Number of participants					icipants		
7.1.7	Initiatives	taken l	by the instit	ution	to mak	e th	he campus e	co-friendl	y (at le	east five)		
	 Campus landscape has been carried out for the worth of Rs. 60 lakhs. Awareness on "SAVE ECO-SYSTEM" was street played on 27th of July 2017. An awareness program on water conservation in men's hostel-2 was conducted volunteers on 3rd January of 2018. 						the eco club					

	 An awareness program on water conservation was conducted in ladies hostel on 27th February 2018.
	 "Campus Clean Day" has been celebrated on 18th September 2017 and an awareness mime was displayed.
	 ECO-FEST was conducted from 01st – 03rd February 2018. On February 1st a mime was displayed on the topic "save nature". On February 2nd a puppet show was displayed to create awareness on the spread of dengue.
7.2	Best Practices
	 Implementation of Outcome Based Education and Choice Based Credit System for International recognition of students and job opportunities
	 Implementation of Relative Grading System in End Semester examinations.
	Describe at least two institutional best practices Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link.
	Link: http://nec.edu.in/academic/UG%20R-2015%20(amended%209th%20meet).pdf
	The Curriculum and Syllabi under Regulations 2015 is designed keeping in mind the
	Outcome Based Education (OBE) and Choice Based Credit System (CBCS). The course content of each course shall be fixed in accordance with the Program Educational Objectives (PEOs), Program
	Outcomes (POs) and Course Outcomes (COs). The CBCS enables the students to earn credits across
	programmes and provides flexibility for slow and fast learners in registering the required number of credits in a semester. The CBCS facilitates transfer of credits earned in different departments / Centers
	of other recognized / accredited universities or institutions of higher education in India and abroad either by studying directly or by online method.
	In relative grading system, all assessments of a course will be done on absolute mark basis. Each
	student based on his/her performance will be awarded a final letter grade and grade point, based on the performance of the student relative to others who have registered for that particular course if the
	class strength is greater than or equal to 30. However, if the class strength is less than 30, then the
	grading system shown in Table-13 of clause 15.1 (ii) of Regulation 2015, will be followed. The letter grade and the grade point to each student studying theory / integrated courses (Internal and End
	semester examinations) are generally awarded based on the statistical parameters, Mean (μ) and
	Standard Deviation (σ) of the distribution of marks.
7.3	Institutional Distinctiveness
	Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust. Provide the weblink of the institution in not more than 500 words
	Product Development and Entrepreneurship is one of the distinctive characteristic programs in our
	Institution. As a part of vision and mission of our college to produce industry-ready students, we have
	introduced Product Development and Entrepreneurship activity as a part of curriculum. A systematic

plan ha	s been formulated for the implementation of this program. Further, to build these traits, the followin
courses	s have been included in the curriculum.
1. P	Product Development Laboratory: This course is designed for students to identify, design and fabricat
а	product which is more useful to the rural society
2. L	ive - in-Lab: This course is designed to support rural societies under the Scheme of swatchh Bharath
Т	The batch of 5 to 6 students can go to a village adopted by the Institution and stay there for few day
a	nd they can interact with the village people. After that they have to identify a problem and then th
S	plution to the problem may be given as report. Based on the nature of the work proper credit can b
c	laimed by the students from the institution form the Institution
3. P	product Design and Development : This course is designed to inculate product development skill for
tł	ne students
4. <i>C</i>	Critical and Creative Thinking Course: This non credit course is designed both for the students an
fa	aculty. This Course will provide skill and knowledge to the students and faculty to motivate them t
d	evelop a product.
Further	r, to motivate the students community, the college has taken the following initiatives:
1.	Established the entrepreneurship development cell (EDC) in the Year 2013.
2.	The college has been approved as Business Incubator/Host institution by MSME, New Delhi durin
	2015. Through this forum, our college is currently supporting five alumni to develop five products t
	the worth of 29.39 Lakhs.
3.	The college has been approved as NEWGEN IDEC, Supported by NSTEDB and DST, Government
	of India, New Delhi. Through this scheme, college can support students to develop 85 projects to the
	worth of Rs. 2.5 Lakhs each over a period of five years.
4.	Funding of Innovative projects through Alumni association and presenting innovative project award
	through alumni association
5.	Established CDIO laboratory to develop products
6.	Steps have been taken to establish product development laboratory in each department with the
	support of Institution.
In	addition to that, the college has signed MOU with the following alumni entrepreneurs to establish
inc	subation centers for Product development at the campus
1.	M/s Apex Design, Coimbatore
2.	M/s Bizplus services, Chennai
3.	M/s. River silica, Bangalore
4.	M/s Sum TWO software Pvt Ltd, Madurai
Outco	me:
1.	The institution has developed more than 10-15 products with financial support from variou
	Government funding Agencies
-	

2. Two of our students (Mr. Veera Shanthi Ram.M Final Year EIE – Coconut Grading Machine

and Mr. Muthu Mariappan.K CSE/ Alumni-Castalk) participated in the Falling Walls Lab India 2018 on 7th April 2018 organized by Jadavpur University Kolkata and the DAAD - German Academic Exchange Service and DWIH - German House for Research and Innovation New Delhi.

3. Veera Shanthi Ram M was adjudged the winner of the Lab. He will represent India to compete with Falling Walls Lab winners from across the world at the global Lab finale that takes place in Berlin on 8th November 2018, and also got a ticket to the prestigious Falling walls conference on 9th November 2018 where leaders from science, Industry and policy -making meet. The trip to Berlin was financed by the DWIH, New Delhi.

S. No.	Parameters	Action plan
1.	Students' performance	 More than 75 % of the students should be placed with medium salar of 4 lakhs per annum More than 20 % of the students should get eligible scores in competitive examinations like GATE, Tofel, CAT, MAT, etc., More than 3 % of the students should be motivated / trained to become an entrepreneur.
2.	Research & Development	 Each department should have ongoing R&D projects worth > 15 lakhs. Each department should have ongoing industrial consultancy work worth Rs. 3 lakhs. Faculties should be motivated to publish the research articles in high impact factor journals. All the faculty members should be encouraged to participate / present articles in international conferences / workshops / FDPs organized by other leading institutions. Each department should organize Conference / workshops / FDP in every academic year.
3.	Institute – Industry interaction	 Every department should sign MoU with minimum 2 companies per year. More number of students should be encouraged to undergo in-plant training / internship program / industrial projects Every department has to develop at least one product every year. Every year, it is proposed to initiate a start up through our alumni and faculty.

Name: Dr.K.Manisekar 4. N- 52 28/6/18 Signature of the coordinator, IQAC

Name: Dr.S.Shanmugavel

28/6/18

Signature of the chairperson, IQAC

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Annexure I

Abbreviations:

CAS	-	Career Advancement Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
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
