

**KALASALINGAM UNIVERSITY**  
**(KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION)**  
**Krishnankoil – 626 126, Tamil Nadu, India**

**ANNUAL QUALITY ASSURANCE REPORT FOR ACADEMIC YEAR 2011-2012**

PART-A

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

1. Formulate few more inter-disciplinary courses of national relevance at the post-graduate level.  
Outcome: 3 Additional interdisciplinary courses were formulated and these courses will be offered from academic year 2012-13.
2. Adding more than ` 50 Lakhs worth of research projects.  
Outcome: ` 31 Lakhs worth of research projects were sanctioned in the academic year 2012-13.
3. Collaborative research with National research laboratories.  
Outcome: MoU is signed with CSIR- Central Leather Research Institute, Chennai for collaborative research work and discussions are on for the finalization of the MoU with CSIR-Central Electrochemical Research Institute, Karikudi for signing of MoU.
4. Targetting 100 International Journal publications.  
Outcome: 90 journal publications were done in the academic year 2011-12.
5. Setting up of Technology Business Incubator at KARE.  
Outcome: Preparation of Proposal is in progress.
6. Organizing one Faculty Development Program per department.  
Outcome: Seven departments have organized one faculty development program each.
7. Organizing six National Level Conferences / Seminar at KARE.  
Outcome: Seven National-level conferences/seminars were conducted with support from various funding agencies.
8. Organizing four International Conferences / Seminar at KARE.  
Outcome: Four international Conferences are finalized and they will be conducted in academic year 2012-13 in addition to the other International Conferences being proposed.
9. Associating with Professional Societies for conduct the conferences  
Outcome: For all the conferences/seminars, funding agencies were approached and most of the conferences and seminars were funded by funding agencies like DST, CSIR, DRDO, BRNS, etc. and organized through respective Professional Societies like IEEE, IETE, IoSI, ISTE, CSI, etc.
10. Beautification of the campus, use of renewable energy resources and increase the plantation.  
Outcome: All the roads in the campus were broadened and relaid. About 1000 trees were planted in campus. Solar panels for lighting and biogas plant for the hostel are installed.

11. Increase the interaction with the alumni for their support.

Outcome: Meetings with senior Alumni were carried out at Chennai and Coimbatore. Silver reunion of first batch of B.E. students of the parent institution is planned in 2013.

12. Conduct of one national-level sports/cultural event at KARE.

Outcome: Proposed to conduct National level Sports/Cultural event in the academic year 2012-13 and in the process of identifying sponsors for the event.

13. Supplementing teaching-learning processes through effective use of e-learning portal.

Outcome: Faculty members have undergone a workshop on use of Moodle Learning Management System (LMS) and they would be using this LMS. New NPTEL course content is also made available on the intranet server.

PART-B

**1. Activities reflecting the goals and objectives of the Institution**

Goals and Objectives of the Institution:

Kalasalilingam Academy of Research and Education (KARE) has been sincerely focusing its activities on fulfilling the objectives proposed. It has been offering programs/courses identified by AICTE/DST as thrust/emerging areas and also in areas which are futuristic for national economic development. The specific goals and objectives formulated for KARE based on UGC guidelines are given below:

- To be a recognized leader in the integration of learning and discovery both at the undergraduate and at higher levels and for its research and teaching excellence.
- To make academic offerings increasingly interdisciplinary and industry-oriented, committed to community and national development.
- To make curriculum learner friendly, and to integrate soft skill requirements with regular credit offerings.
- To provide opportunities for higher education to the rural and the disadvantaged communities.
- To expand educational service and research in association with leading industries and international universities to meet the global demands.
- To maintain currency in informational technologies that support student-centered learning (e-learning) and the rapidly evolving educational needs of all students.
- To have a strong sense of campus community and improve its competitive status as an employer.
- To create Centers of Excellence in critical areas that promotes R&D activities of social relevance.
- To focus research on “3-O” technologies (Info, Bio, Nano) and in some of the national thrust areas like Environmental Safety and Pollution Control, Energy Conservation and Audit, Cyber Crime and Information Security, Corporate Sociology, Disaster and Risk Management, Discrete Mathematics
- To set up Technology Business Incubators for creates spin-offs and promoting entrepreneurship.

Activities:

Distinct activities in the form of Academic, Research and Extension activities which reflect the goals and objectives of the institution are given in a detailed manner.

Academic activities:

In addition to ten UG degree programs, KARE offers 20 Post-Graduate programmes leading to Master of Technology Degree in various areas including Biotechnology, Nanotechnology and Information Technology, Industrial Safety Engineering and Construction Management.

Courses offered by KARE during the academic year 2011-12 are listed below:

<p><b>UG Courses</b>  <u>B.Tech.</u>                  - Biotechnology                  - Civil Engineering                  - Computer Science &amp; Engg.                  - Electronics &amp; Comm. Engg.                  - Electrical &amp; Electronics Engg.                  - Electronics &amp; Instrumentation Engg.                  - Information Technology                  - Mechanical Engineering                  - Automobile Engineering                  - Food Technology</p> <p><u>6-year Integrated B.Tech. program</u> for Speech and Hearing Impaired Persons</p> <p>B.Ed (SHIP)</p> <p><b>PG Courses</b>  <u>M.Tech.</u>                  - Automotive Systems Engg.                  - Biotechnology                  - CAD/CAM                  - Computer Applications                  - Computer Science &amp; Engg.                  - Control &amp; Instrumentation Engg.                  - Digital Comm. &amp; Networking                  - Information Assurance &amp; Security</p>	<ul style="list-style-type: none"> <li>- Embedded Systems Technologies</li> <li>- Energy Engineering</li> <li>- Information Technology</li> <li>- Nano-Technology</li> <li>- Network Engineering</li> <li>- Pharmaceutical Biotechnology</li> <li>- Power Systems Engg.</li> <li>- VLSI Design</li> <li>- Environmental Engineering</li> <li>- Power Electronics and Drives</li> <li>- Industrial Safety Engineering</li> <li>- Construction Engineering and Management</li> </ul> <p><u>MBA</u>                  Marketing/Finance/HR/Banking &amp; Insurance/Retail Management</p> <p><u>MCA</u></p> <p><u>M.Sc.</u>                  CT / Maths / Physics / Chemistry</p> <p><u>M.Phil.</u>                  Maths / Physics / Chemistry</p> <p><b>Ph.D. Programs</b>                  offered by all departments</p>
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The courses planned as per the vision document of the university address both regional and national needs.

The curriculum integrates technical skills with soft skills in the form of CGPA and non-CGPA courses. It also ensures that the technologies offered are contemporary by including experts from industries in framing the syllabus as well as programme/course offerings.

In addition to offering programmes that are desired by the students of this region, the University curriculum has been made flexible, to accommodate the students of different capabilities as well.

Four programs in the Under-graduate level and three programs in the Post-graduate level are approved and are introduced from the academic year 2012-13. The Freshmen Induction Program also profiles the students based on their learning skills and tailor-make their academic progress. The University offers additional academic support to the rural

and weak students by means of flexible credit registration, bridge courses, additional summer term, Faculty Advisory System, and so on. The highly learner friendly curriculum design ensures currency, relevance and employability.

Research Activities:

In accordance with the national objectives, our University research focuses on Nano, Bio and Info Technologies.

About 194 research scholars are pursuing their research at KARE in various areas.

All Research scholars publish articles in impact factor journals.

14 sponsored research projects are currently being carried out at KARE.

National conferences are conducted by the departments.

All faculty members are motivated to apply for funded / collaborative research projects.

Department of Instrumental and Control Engineering and Department of Mechanical Engineering who have obtained the DST-FIST grants are equipping their Laboratories as per the project proposals.

Value based Education and Extension Activities:

The academic system which mandates non-CGPA requirements to qualify for the degree is mainly meant for imparting multiple skills through its curriculum and course offerings. The University promotes value education and social citizen role among its students in terms of both academic and non-academic course offerings. As a part of imparting value based education KARE invites industrial experts and VVIPs for delivering Lectures through the endowments it has created. Examination reform are implemented for insuring quality in the examination system by introducing External Audit of question papers, dummy number system for answer script and automation of the mark entry and declaration of the results.

About 12 expert lectures are organized by each of the departments for their students on latest practices or technologies being implemented in the industries.

Implementation for effective utilization of ICT by the students is ensured by virtue of subscribing to National Knowledge Network, using NPTEL courseware, providing WiFi access, utilization of e-learning portal.

Formulation of the IQAC done as per the recommendations of NAAC. Department level IQACs are proposed and would be effective from the academic year 2012-13 onwards.

The students are given opportunity to participate in extension activities like NSS, NCC and other society-oriented clubs like EXNORA, Nature Club, etc. that promote value education and social citizenship role.

Apart from imparting academic skills, a funded project promotes entrepreneurial culture among the youth of this region, particularly the socially disadvantaged.

**2. New academic programmes initiated (UG and PG)**

To suit to the needs of the industry, four programs at UG level and three at PG level are formulated and these programs would be offered from the academic year 2012-13.

B.Tech. (Information and Communication Technology)

B.Arch.

BBA

B.Sc. Visual Communication  
Master of Social Works  
M.A. (Journalism and Mass Communication)  
Integrated M.Sc. (Mathematics and Computer Science)

**3. Innovations in curricular design and transaction**

- a. For the curriculum design, experts from academia and industries have participated
- b. Curriculum updation was done based on the feedback received from students also. For 120 subjects, feedback on curriculum updation was taken from 480 students.
- c. More number of electives such as free electives, major electives, minor electives, humanities electives and self study electives were offered to students:

Sl. No.	Nature of elective	Number offered during 2011-12
1	Free Electives	39
2	Major Electives	36
3	Minor Electives	14
4	Humanities Electives	19
5	Self Study Electives	15

- d. Internal auditing of teaching and learning process was conducted three times in a semester.
- e. Increase in number of seminars and workshops organized.
- f. More number of co- and extra-curricular, soft skill programs were conducted through Non-CGPA courses scheme.

**4. Inter-disciplinary programmes started:**

B.Tech. (Information and Communication Technology) and Integrated M.Sc. (Mathematics and Computer Science) are the inter-disciplinary courses that are formulated and would be offered from the academic year 2012-13 onwards.

**5. Examination reforms implemented:**

- a. Complete automation of examination process starting from online registration till the declaration of results.
- b. Dummy number system for answer scripts is introduced
- c. External auditing of question papers was done. 20 external experts have audited the question papers.

**6. Candidates qualified: NET/SLET/GATE, etc.**

S. No.	Name of the Examination	No. of students qualified
1.	GATE	63

**7. Initiative towards faculty development programme:**

Centre for Learning Technologies at KARE coordinates all the Faculty Training Programs. KARE is associated with Wipro Technologies for training of High Impact Teaching Skills to faculty members under Mission 10X program. KARE is also a member of ICT Academy of Tamil Nadu whereby the faculty members are trained on various Information and Communication Technologies. Faculty Induction Program is organized by CLT for all the faculty members inducted to this institution. KARE faculty members have attended a total of 75 Faculty Development Programs in the academic year 2011-12.

## (a) FDPs attended by faculty:

S. No.	Name of the Faculty	Programme	Organized by
1.	Mr. S.N. Ramaswamy	Building Modelling	ICAT
2.	Mr. R. Bharathi Murugan		
3.	Mr. PL. Meyyappan	Disaster Management	VLB Janakiammal College of Engg. & Tech.
4.	Ms. M. Usha	Training Programme on "Microsoft Saksham"	Microsoft & KARE
5.	Mr.A.SanthanaMahalingam		
6.	Dr.R.Ilavarsi		
7.	Ms.D.Vanitha		
8.	Mrs.R.Aruna		
9.	Ms.M.Sumathi		
10.	Ms.J.Kohila		
11.	Ms.S.Gomathi		
12.	Mrs. D.Danalakshmi		
13.	Mr.S.Kalimuthukumar		
14.	Mr.S.Rajendran		
15.	Mrs.S.Yavana Rani	Workshop on Advanced Statistical Methods	IBS, Hyderabad
16.	Mrs.B.Shanmuga Priya	PLC & SCADA	ISoI
17.	Mr.R.Prasanna		
18.	Mr.C.Karthick		
19.	Mr.R.P.Surya Sankar		
20.	Mr.K.Asan Mohideen		
21.	Mr.R.Pon Arun		
22.	Mr.G.Saravana Kumar		
23.	Ms. G. R. Bavithra	Mission 10X-High Impact Teaching Skill	WIPRO
24.	Ms. S. Manimegalai		
25.	Mr.Vijaya Karthick		
26.	Mr.S.Dhanasekaran		
27.	Mr.T.Manikandan		
28.	Mrs.D.Dhanalakshmi		
29.	Mrs.B.Noorul Hamitha		
30.	Mr.R.Imtiaz		
31.	Mr.S.Ponnayira Sundaravel		
32.	Ms. G. R. Bavithra		
33.	Ms. S. Manimegalai		
34.	Mr.P.Sivakumar		
35.	Mr.S.SriramSundar		
36.	Mr.T.Senthil		
37.	Ms.J.Kohila		
38.	Ms.S.Gomathi		
39.	Mr.R.P.Surya Sankar	Automation Engineering	ICT Academy
40.	Mr.R.P.Surya Sankar		
41.	Mr.C.Karthick		
42.	Mr.C.Karthick		
43.	Mr. R. P. Suryasankar	Neural Network and Fuzzy logic control	CLT, KARE
44.	Mr. K. Asan Mohideen		
45.	Mr. C. Karthik		
46.	Mr. R. Prasanna		
47.	Ms. R. Aruna		
48.	Ms. D. Babiyola		
49.	Mr. T. Harish Babu		
50.	Ms. V. Manimala		
51.	Mr. K. SubaDeepan		

52.	Ms. S. Manimegalai		
53.	Mr. G. Vishnuvarthanan		
54.	Ms. G. R. Bavithra		
55.	Mr. V. Selvam		
56.	Mr. R. P. Suryasankar		
57.	Mr. K. Asan Mohideen		
58.	Mr. C. Karthik		
59.	Mr. R. Prasanna		
60.	Ms. R. Aruna		
61.	Ms. D. Babiyola		
62.	Mr. T. Harish Babu		
63.	Ms. V. Manimala		
64.	Mr. K. SubaDeepan		
65.	Ms. S. Manimegalai		
66.	Mr. G. Vishnuvarthanan		
67.	Ms. G. R. Bavithra		
68.	Mr. V. Selvam		
69.	Mr.G.Prabu Kanna	Tivoli	IBM
70.	Mr.G.Dinesh		
71.	Dr.A.MuthuKumaran	DBT & CSIR	Department of Biochemistry and Molecular Biology Pondicherry University Pondicherry.
72.	Ms.B.Vinobiah	Modeling and simulation in chemical and environmental Engineering.	National Institute of Technology (NIT)Calicut
73.	Ms.G.Nadana Raja vadiuv		
74.	Ms.V.Aruna Janani		
75.	Dr.N.Karpagam	UGC sponsored SAM workshop on “Capacity Building women Manager in Higher Education”	Mother Theresa University, Kodaikanal

### 8. Total Number of Conferences/Seminars/Workshops conducted:

For the promotion of research culture, KARE has been organizing Conferences/Seminars/Workshops/Technical Symposia regularly. Details of the events organized for the academic year 2011-12 are mentioned below:

S. No.	Events	Total Numbers
1.	National Conferences	7
2.	Workshops and Seminars	68
3.	Technical Symposia	4

#### a) Conferences – National

S. No.	Event Details	Sponsoring Agencies	Total No. of participants	No. of States from which participants attended
1.	National Conference on Disaster Management and Mitigation Measures (NCODMM-12)	-	600	1
2.	National Conference on Intelligent Computing in Communication and Automation (NCICCA-2012)	ISRO	78	3

3.	National Conference on Advancement & Future Trends in VLSI Design (NCVD'11)	-	103	3
4.	National Conference on VLSI, Embedded & Communication systems (NCVEC'12)	CSIR, ISRO, DRDO, BRNS, ISTE	91	5
5.	National Conference on Advanced Functional Materials and Applications (NCAFMA-2011)	CSIR	248	4
6.	National Conference on Theoretical Computer Science and Discrete Mathematics (NCTCSDM 2012)	DST	73	9
7.	Third national conference on intelligent techniques in control, optimization and signal processing - INCOS '12	CSIR, DRDO, BRNS	100	Nil

## b) Seminars/Workshops:

S.No.	Name of the Event	Conducted on		No. of participants
		From (dd/mm/yyyy)	To (dd/mm/yyyy)	
1.	Introduction to "Finite Element Method and its Applications"	14/04/2012		200
2.	Workshop on "Introduction to Tools in Bioinformatics"	31/03/2012		25
3.	One day workshop on "Question paper setting"	24/03/2012		12
4.	National Level Workshop on "Art of Article writing and Thesis writing for Social Sciences"	24.03.2012		155
5.	One day workshop on "MATLAB"	23/03/2012		25
6.	One day workshop on "SAKSHAM"	17/03/2012		16
7.	One day workshop on "Animation"	16/03/2012		30
8.	Workshop on "Energy Conservation and Energy Audit"	07/03/2012		80
9.	Matlab- Fuzzy Logic Tool box	06/03/2012		39
10.	Technical Seminar and Awareness program on Nuclear Power plant	06/03/2012		970
11.	Entrepreneurship Development Programme	03/03/2012		155
12.	Alpha Meditation	03/03/2012		180
13.	Technologically Important Crystalline and Amorphous Solids (TICAS-2012)	02/03/2012	03/03/2012	32
14.	Sports for Students-SPARK'12	1/03/2012	02/03/2012	516
15.	National Workshop on 'Advanced FPGA Design'	28/02/2012	29/02/2012	155
16.	National Level Workshop On Advanced FPGA Design	28.02.12	29.02.12	48



17.	National Safety week Celebration	27/02/2012	07/03/2012	191
18.	GIS and GPS	25/02/2012	26/12/2012	200
19.	National Level Workshop on Clean Energy for Green Environment (CEGE 2012)	24/02/2012	25/02/2012	150
20.	Immunoinformatics	24/02/2012		25
21.	LabVIEW Programming	23/02/2012		23
22.	Inter-Competition on technical competition, Sports and cultural for SHIP-AURA	22/02/2012	23/02/2012	150
23.	Art of Counselling	18/02/ 2012	19/02/2012	41
24.	National level seminar on KNOWLEDGE ENGINEERING and KNOWLEDGE BASED SYSTEMS	17/02/2012		63
25.	One day Workshop on “MATLAB Programming”	10/02/2012		20
26.	One day Workshop on “Animation”	09.02.2012		31
27.	One Day Workshop on Labview Programming	08.02.2012		19
28.	Role of Laboratory Courses in Awakening Learning/Research interests in Students	07.02.2012		19
29.	National Level Workshop on Challenges & Innovative Practices in Automotive Technology (CIPAT 2012)	04/02/2012		180
30.	Workshop on 'PHISHING and SPYWARE'	25/01/2012		
31.	Workshop on MOODLE software	21/01/2012		30
32.	Workshop on Ethical Hacking and Cyber Forensics	20/01/2012	21/01/2012	
33.	Professional Skills Development	19.01.2012	20.01.2012	155
34.	National Seminar on Research and Consultancy	30/12/2011		27
35.	Advanced Workshop-Mission 10X	15/12/ 2011	16/12/2011	30
36.	Orientation programme for faculty handling SHIP classes	24/11/2011		41
37.	Anatomy of Cloud Computing	15.10.2011		200
38.	National Level Workshop on Emerging Trends in Industrial Safety Engineering (ETISE'11)	14/10/2011		250
39.	Technical Lecture on “Cloud Computing in Network Technologies and Advanced Unix Programming Concepts”	01/10/2011		175
40.	PLC and SCADA	01.10.2011	03.10.2011	130
41.	A One Day Workshop on Communication Competencies	17/09/2011		81
42.	Workshop on “Signal Processing” Title: Signal Processing from Past to Future	17/09/2011		27
43.	Role of Laboratory Courses in Awakening Learning/Research interests in Students	17/09/2011		20
44.	One Day Workshop on Labview Programming	17/09/2011		21
45.	National Level Workshop on Recent Advances in Machining (RAM'11)	17/09/2011		200
46.	Disaster Management and Mitigation	16.09.2011		784
47.	Rally on energy conservation and	5/9/2011		400

	environment protection		
48.	Association Inauguration and Lecture on “ Current Industrial Trends”	30/08/2011	210
49.	National Level Workshop on Research Issues in Reinforced Materials	27/08/2011	200
50.	National Level Workshop on Research Issues in Reinforced Materials	27/08/2011	200
51.	Seminar on Wireless Networks	26.08.11	344
52.	Mission 10X Pre Workshop	22/08/2011	32
53.	Career Guidance Program on “NASSCOM and its Importance”	22.8.11	58
54.	Workshop on Introduction to LaTeX	20/08/2011	50
55.	Workshop on Simulated Annealing, Genetic Algorithm	20/08/2011	38
56.	Workshop on Intellectual Property Rights	20/08/2011	35
57.	Workshop on “Contemporary Issues in Management”	17.08.2011	271
58.	OrCAD, Pspice and its Application	16.8.11	58
59.	Freshman Induction Program	19.08.2011   21.08.2011	156
60.	Career Guidance Program on “Skill gap for entry level Engineers “	19.8.11	213
61.	Workshop on Entrepreneurship Development	06.08.2011	115
62.	Seminar on Positron Emission Tomography (PET) Technology and Application	30/07/2011	83
63.	Workshop on Entrepreneurship Development	30.07.2011	115
64.	Technical Lecture on SAP	27/07/2011	210
65.	Image Processing on Robot and its applications	23.07.2011   24.07.2011	80
66.	Faculty Induction Program, FIP-2011	01/07/2011   02/07/2011	87
67.	Storage Management	22.02.2011	220
68.	Web Development	05.02.2011	200

## c) Technical Symposium:

S.No.	Name of the Event	Dates	No. of participants
1	National level Technical Symposium on SOFTNIVAL '12	09/03/2012	113
2	National level symposium on New Vistas in Molecular Medicine (ORIGENE'12)	28/02/2012	250
3	National level Technical Symposium on ASTHIVAAR'11	15.09.2011	754
4	National Technical symposium on ELECTRO TECH'11	29/10/2011	75

## 9. Research Projects: (a) On-going (b) Completed:

A total of 14 sponsored research projects of ` 4,88,05,670/- are being executed during the academic year 2011-12.

a) Ongoing research projects:

S. No.	Name of the investigators	Title of the Project	Funding Agency	Reference No.	Amount Sanctioned (in Rupees)	Duration
1.	Dr. S. Arumugam	n-CARDMATH – CGRF	DST	Dy.No.100 /IFD /1470/ 2008-2009 Dated 11 <sup>th</sup> June 2008	1,67,72,000	5 years
2.	Dr. S. Arumugam	Domination in Graphs – Theory Algorithms and Applications	NBHM	48/5/2008-R&D II/561 Dated 7 <sup>th</sup> July 2009	8,35,150	3 years
3.	Dr. C. Thangaraj	Multilevel Multicriteria Optimization of Water Supply Facility Expansion Planning	DST- (n-CARDMAT H)	Dy.No.100/ IFD /5040/ 2009-2010 dated 18 <sup>th</sup> Sept. 2009	9,90,720	3 years
4.	Dr. V. Manikandan	Investigation of Mechanical Properties of Basalt Fiber Reinforced Polymer Composites	DST	Sanction No. 100/IFD/6129/ 2008-2009 dt. 15 <sup>th</sup> Dec. 2008	20,32,000	3 years
5.	Dr. S. Selvanayagam	High Throughput Crystallography	DST	Dy.No.IFD/2809 /2009-2010 dated 22 <sup>nd</sup> July 2009	7,32,000	3 years
6.	Dr.P. Venkumar	Cell Formation Using Graph Theory in Cellular Manufacturing System	DST	Dy.No./IFD/ 3156/2009-2010 Dated 31 <sup>st</sup> July 2009	9,59,400	3 years
7.	Dr. J.T. Winowlin Jappes	Investigation on mechanical properties of naturally woven coire/non-clay re-inforced hybrid composites.	DST	GR/FTP/ETA/92 /2009 dated 2 <sup>nd</sup> December2009	14,70,000	3 years
8.	Dr. S. Jeyakumar	Experimental investigations on the characteristics of supersonic flow past axisymmetric cavities.	DST	SR/FTP/ETA- 55/2009 dated October 09 2009	16,50,000	3 years
9.	Head of the Department/ICE	Process Control Lab and Biomedical lab	DST under FIST	SR/FST/ETI- 249/2009 dated 19 <sup>th</sup> March 2010	65,00,000	5 years
10.	Head of the Department/ Mech	Advanced Machining and Maesurement Lab Material Processing Lab Machine Dynamics and Condition	DST under FIST	SR/FST/ETI- 052/2010dated 19 <sup>th</sup> March 2010	1,20,00,000	5 years

		Monitoring Lab				
11.	Dr. G. Hiran kumar	Rare earth doped nano crystalline olivine phosphate: Cathodes for high voltage high energy lithium batter	DAE	No.2010/20/37P/3/BRNS	17,60,000	3 years
12.	Dr. M. Venkatesulu	Study of Interface problems associated with coupled ordinary differential equation	DST	Dy No: 100/IFD/3962/2010-2013 dated: 23.07.10	9,74,400	3 years
13.	Dr.S.Rajaram	Designing a structural model for measurement of audit expectation gap in selected South Asian Countries	ICAF New Delhi		8,50,000	1 yr
14.	Dr.S.Rajaram	Technology Propagation and development of Micro enterprise by SHG women	DSIR, New Delhi		12,80,000	2 years
<b>Total Amount</b>					<b>4,88,05,670</b>	

### b) Completed Projects:

Sixteen sponsored research projects of `4,90,51,595/- are completed and closed in the academic year 2011-12.

S.No	Name of the investigators	Title of the Project	Funding Agency	Reference No.	Amount Sanctioned (in Rupees)	Duration
1	Dr. C. Thangaraj (Co-ordinator) Project Directors: Dr.S.Radhakrishnan Dr. D. Devaraj Prof.G.Sudhakar Dr. V. Vasudevan	TIFAC CORE in Network engineering	DST	T/TVM/V(REACH)/AKCE/A/3/2001 Dated 9 <sup>th</sup> January 2002	3,85,00,000	6 years
2.	Dr. S. Arumugam	Domination Related Functions in Graphs	DST	Dy.No.100/IFD/1808/2006-2007 Dated 10 <sup>th</sup> July 2006	16,60,400	3 years
3.	Dr. S. Arumugam	Decomposition Graphs into Paths and Cycles	NBHM	48/2/2004/R&D-II/7372 dated 25 <sup>th</sup> October 2004	6,98,000	3 years

4.	Dr. M. Venkatesulu	Solutions of Boundary value problems for coupled non-linear ordinary differential equations	DST	Dy.No.100/IFD/5419/2006-2007 dated 1 <sup>st</sup> May 2006	7,94,300	3 years
5.	Dr. C. Thangaraj	Development A pilot Scale Sensor Network for Monitoring Water Quality Variations	AICTE	8023/BOR/RPS/45/2006-2007 dated 26 <sup>th</sup> Feb 2007	6,00,000	2 years
6.	Mr. M. Pallikonda Rajasekaran	Remote Patient Monitoring System Using Wireless Sensor Network	AICTE	200/62/FIN/4/5/124/599 dated 24 <sup>th</sup> July 2007	3,50,000	2 years
7.	Dr. G. Sangliyandi	Studies of Molecular mechanism of PEDF and VEGF in Diabetic retinopathy	ICMR	SAN NO.102 IFD/SAN/PR/1906/2007-2008 3 <sup>rd</sup> January 2008	14,16,923	3 years
8.	Dr.S.Radhakrishnan	Core optimization in Multi-processor embedded systems	AICTE(RPS)	-----	5,70,000	2 years
9	Dr. S. Rajaram	Designing a Structural Service Quality model for Telecommunication industry – A TELEQUAL Approach	IITCOE Ahmedabad		1,90,000	8 months
10	Dr. S. Rajaram	Designing a structural Model for measurement of Service Quality in Railways and Hospitals with special reference to Tamilnadu & Kerala State	IIPA New Delhi	CPCPCW-2009/IIPA/01-05/2010-11/5 dated 12.07.2010	3,82,000	1 year
11.	Dr. S. Kannan	Development of Hybrid Metaheuristic Algorithms for Solving Power System Operation Planning Under Deregulated Environment	DST-(n-CARDMATH)	Dy.No.100/IFD/5032/2009-2010 dated 18 <sup>th</sup> September 2009	9,90,720	3 years
12.	Dr. P. Subbaraj/ Dr.S.Saravanasankar	Combinatorial optimization in packing problems specific to VLSI design	DST-(n-CARDMATH)	Dy.No. 100/IFD/5041/2009-2010 dated 18 <sup>th</sup> September 2009	9,74,000	3 years

13.	Dr.M.Subramanian/ Dr. A. Thurasamy	Saturation Of Graph Parameters	DST- (n- CARDMATH)	Dy.No.100/IFD /185/2008-2009 dated 11 <sup>th</sup> April 2008	10,07,400	3 years
14.	Dr.S.Sakthivel Rani	Quality of work life among women employees in various government and private sector in Tamil Nadu	ICSSR	F.No. RP02/ 0031/2008 /RP 13 th Feb 2009	2,95,000	2 years
15.	Dr.C. Sivapragasam	Rain Guage Network Design to Improve Rainfall Estimation for Sustainable Planning of water Resources in River Basin	CSIR	No.24 0305 /09/EMR II	3,42,167	2 years
16.	Dr. S. Rajaram	A structural Model for Customer Behaviour & Service Quality in Insurance Sector – A Servqual Approach	Indian Council of Social Science Research	F.No.RPO II/0044/2008/RP dated 3 <sup>rd</sup> June 2009	2,80,685	2 years
<b>TOTAL</b>					<b>4,90,51,595</b>	

**10. Patents generated, if any: nil****11. New Collaborative Research Programmes: (Projects currently in progress to be considered)**

No collaborative research programmes are currently in progress.

**12. Research grants received from various agencies:**

Three research grants to the total amount of ` 31,11,000/- were received during the academic year 2011-12

S. No.	Project title	Principal Investigator	Funding Agency	Total sanctioned amount	Project Duration	Date of sanction
1.	ICICCA-2013	-	DRDO	30,000		14.06.2012
2.	Technology Propagation and Development of Micro Enterprises by SHG Women	Dr.S.Rajaram	DSIR, New Delhi	12,81,000	2 years	12.01.2012

3.	Sequestration of CO <sub>2</sub> emission through critical analysis of end use energy efficiency in heterogeneous mixture of process industries	Dr. S. Rajakarunakaran Mr.M.Thirugnanasambantham Dr. D. Devaraj	DST	18,00,000	3 years	11/10/2011
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### 13. Details of Research Scholars:

About 194 research scholars are pursuing the research in KARE. Details are mentioned below:

Male Scholars: 131

Female Scholars: 63

Total: 194

#### a) Current research scholars:

S. No.	Name of Research Scholar	Area of Research	Name of Guide
1.	Ms. L. Harini	Molecular and Cellular Biology	Dr. T. Kathiresan
2.	Mr. B. Karthikeyan	Molecular and Cellular Biology	Dr. T. Kathiresan
3.	Mr. R. Kasimani	Microbiology	Dr. K.Sundar
4.	Ms. Shyamala Devi	Molecular cloning and expression of thermostable lipase from Bacillus SP. In E. coli	Dr. H. Nellaiah
5.	Mr. M. Kalusalingam	Microbiology	Dr. H. Nellaiah
6.	Mr. G. Vinothapooshan	Pharmaceutical Biotechnology	Dr. K.Sundar
7.	Ms. V. Vijayalakshmi	Environmental Biotechnology	Dr. Mohanraj
8.	Mr. V.Deepak	Molecular and Cellular Biology	Dr. H. Nellaiah
9.	Mr. S. Ram Kumar Pandian	Molecular and Cellular Biology	Dr. H. Nellaiah
10.	Mr. A. S. William Arputha Sundar	Environmental Biotechnology	Dr. H. Nellaiah
11.	Ms. M. Ajitha	Bioinformatics	Dr. K. Sundar
12.	Mr. N. R. Livingston Raja	Pharmacology	Dr. K. Sundar
13.	Mr. M. Manikandan	Immunology	Dr. K. Sundar
14.	Ms. Kruthika	Marine Biotechnology	Dr. A. Muthukumaran
15.	Mrs. L. Muthulakshmi	Industrial Biotechnology	Dr. S. Mohanraj
16.	Ms. T. Shenbagavalli	Identification of major T2DM-Linked Biomarkers for prognosis of Diabetes Type2	Dr. K. Sundar
17.	Mr. C. Mariappan	Neurophysiology	Dr. T. Kathiresan
18.	Mr. K.Lingadurai	Nano Technology	Dr. M. Kottaisamy
19.	Ms. B.S.Prathibha	Material Sciences	Dr. P. Kotteeswaran
20.	Ms. S. Sundaranathavalli	Herbal Durgs	Dr. C.C. Christopher
21.	Mr. Gejo George	Nano Technology	Dr. E.R. Nagarajan
22.	MS. G.Kanthimathi	Nano Technology	Dr. M. Kottaisamy
23.	Mr. M.Thomas	Material Sciences	Dr. A. Kulandaisamy Dr. A. Manohar
24.	Mr.Nazia Shamsudeen	Nano Technology	Dr. E.R.Nagarajan
25.	Ms. T.Kavitha	Environmental science	Dr. P.Thillai Arasu
26.	Ms. R.Sudha Devi	Environmental Chemistry	Dr. E.R.Nagarajan
27.	Ms. P.Siva Ranjana	Environmental Chemistry	Dr. K.Ananthakumar Dr. E.R.Nagarajan
28.	Ms. L.Jayalakshmi	Environmental Chemistry	Dr.V.Devadas Dr. K. Ananthakumar

29.	Mr. C.R.Ravikumar	Physical Chemistry	Dr. P.Kotteswaran
30.	Mr. K.Sirajudeen	Physical Chemistry	Dr. P.Thillai Arasu
31.	Mr. P.Kamalarajan	Material Sciences	Dr. P.Thillai Arasu
32.	Mr. S.Kumarasamy	Environmental Chemistry	Dr. E.R.Nagarajan
33.	Mr. K.Karpagavel	Physical Chemistry	Dr. A.Manohar
34.	Mr. M.Paramaguru	Physical Chemistry	Dr. A.Murugan
35.	Ms. P.Manorama	Bio-Chemistry	Dr. R.Ilavarasi
36.	Mr. K. Sudarshan	Environmental Science	Dr. P. Kotteeswaran Dr. A. Murugan
37.	Mr. S.N. Ramaswamy	Industrial Safety	Dr. T. Sekar Dr. NVN. Nampootheri
38.	Mr. N. Suresh kumar	Material Sciences	Dr. T. Sekar Dr. C. Sivapragasam
39.	Mr. N. Ganesan	Material Sciences	Dr. T. Sekar Dr. NVN. Nampootheri
40.	Mr. PL. Meyyappan	Tsunami Resistant Structures	Dr. T. Sekar Dr. C. Sivapragasam
41.	Mr. P. Mahadevan	Water Resource Management	Dr. C. Thangaraj Dr. C. Sivapragasam
42.	Mr. G. Kannadasan	Versatile Model for design of rural roads and expressways	Dr. M.Muthukannan
43.	Mrs. S. Vanitha	Eco-system restoration of a lake in a watershed	Dr. NVN. Nampootheri
44.	Ms. P.Deepalakshmi	Mobile Adhoc Networks	Dr. S.Radhakrishnan
45.	Mr. V.T. Kesavan	Sensor Networks	Dr. S.Radhakrishnan
46.	Mr. B.Jayaram	Graph Theory	Dr. S.Arumugam
47.	Mrs. R.Krisna priya	System Engineering	Dr. C.Thangaraj Dr. S.Kannan
48.	Ms. S.Siva Ranjani	Sensor Networks	Dr. C.Thangaraj Dr. S.Radhakrishnan
49.	Mr. K.Kartheeban	Security in Grid computing	Dr. M.Venkatesulu
50.	Mr. B. Pitchaimanickam	Wireless Sensor Networks	Dr. S.Radhakrishnan
51.	Mr. S Sankara Narayanan	Mobile Adhoc Networks	Dr. S.Radhakrishnan
52.	Ms. R. Ramalakshmi	Sensor Networks	Dr. S.Radhakrishnan
53.	Mr. R. Rajasekaran	Virtual Private Networks	Dr. V.Vasudevan
54.	Mr. P.J. Devanand	Cyber Security	Dr. V.Vasudevan
55.	Ms. S. S. Christal Mary	Cyber Security	Dr. M.P. Rajasekaran
56.	Ms. R. Murugeswari	Wireless Networks	Dr. S. Radhakrishnan
57.	Mr. T. Senthil	Sensor Networks	Dr. S. Radhakrishnan
58.	Mr. S. Diwakaran	Wireless Sensor Networks	Dr. K. Vimaladevi
59.	Mr. C. Rajesh babu	Cloud Computing	Dr. K. Vimaladevi
60.	Mrs. A.Suganya	Resource efficient and secure routing in VANET	Dr. K. Vimaladevi
61.	Mr.S.Anand	VLSI Design	Dr. S. Saravana Sankar Dr. P.Subbaraj
62.	Mrs. S.Dhanalakshmi	Generation Scheduling	Dr. S.Kannan
63.	Mr. A.Muthukumar	Biometric Image Processing	Dr. S.Kannan
64.	Mr.S.Suresh	Power Electronics	Dr. S.Kannan
65.	Mr. M.Syed Ahamed	Digital Signal Processing	Dr. S.Durairaj Dr. D. Devaraj
66.	Mr. K.Rajakumar	Image Processing	Dr. T.Arivoli
67.	Mr.K.Suthendran	Digital Communication System	Dr. T.Arivoli
68.	Ms.K.Anish Pon Yamini	Energy Conservation in MANET	Dr. T.Arivoli
69.	Ms. S.Malini	Control Area Network	Dr. S.Durairaj
70.	Mr. T.Ramu	Biometric Image Processing	Dr. T.Arivoli
71.	Mrs. A. Lakshmi	Medical Image processing for Brain tumor analysis	Dr. T.Arivoli
72.	Mr. P.S. Mathankumar	Application of computational	Dr. V.K.Madan



		intelligence to bio-medical signals	Dr. S. Arumugam
73.	Mrs R.Jeevajothi	Power Systems	Dr. D.Devaraj
74.	Mrs.K.Punitha	Embedded Systems Applications	Dr. D.Devaraj Dr. S. Sakthivel
75.	Ms.B.Rampriya	Power Systems	Dr. K.Mahadevan Dr. S.Kannan
76.	Mr.M.Rajkumar	Power Systems	Dr. K.Mahadevan Dr. S.Kannan
77.	Mr.A.Tamilselvan	Power Systems	Dr. D.Devaraj
78.	Mr.A.Ram Kumar	Renewable Energy Generation	Dr. S.Durairaj
79.	Mr.J.Raja Kumar	Power Systems	Dr. S.Durairaj
80.	Mr.P.Durai Pandy	Artificial Neural Network	Dr. D.Devaraj
81.	Mr.S.Saravanan	Load Forecasting	Dr. C.Thangaraj
82.	Mr.K.Karthikeyan	Generation Expansion Planning	Dr. C.Thangaraj
83.	Mrs. V. Agnes Idhaya Selvi	Congestion Management in deregulated Power System	Dr. R. Narmatha Banu Dr. D. Devaraj
84.	Mr. B. Kanaga Sakthivel	Renewable energy	Dr. D. Devaraj Dr. R. Narmatha Banu
85.	Mrs. D. Danalakshmi	Power System Operation	Dr. S. Kannan
86.	Mr. K. Karunanithi	Generation expansion planning with integration of wind power	Dr. S. Kannan
87.	Mr.S. Sheik Mohammed	Solar Energy	Dr. D. Devaraj Dr. N. Karpagam
88.	Mr. T.Balamurugan	Power Electronics – Advanced level converters for high voltage applications	Dr. N. Karpagam Dr. R. Narmatha Banu
89.	G. Petchinathan	Computational Intelligence in Process Industries	Dr. K.Valarmathi
90.	Mr.K.Asan Mohaideen	Intelligent Computing	Dr. K.Valarmathi
91.	Mr.G.Saravana Kumar	Control Systems	Dr. K.Valarmathi
92.	Mr. B. Perumal	Wireless sensor Grid	Dr. M. Pallikonda Rajasekar
93.	Mr. G. Vishnuvarthanan	Virtual reality in control & Biomedical Applications	Dr. M. Pallikonda Rajasekar
94.	Mr. S. Arivoli	Process control	Dr. K. Valarmathi Dr. M. Pallikonda Rajasekar
95.	Mr. R. P. Suryasankar	Robotics & Automation	Dr. K. Valarmathi
96.	Mr. T. Arun prasath	Biomedical Imaging & Soft computing	Dr. M. Pallikonda Rajasekar Dr. S. Kannan
97.	Mr. P. Murugavell	Information System – Semantic interoperability	Dr. M. Pallikonda Rajasekar
98.	Mr. V. Selvam	Brain computer interface analysis using soft computing techniques	Dr. M. Pallikonda Rajasekar
99.	Mr. C. Karthik	Online monitoring and control of dying process in paper industry	Dr. K. Valarmathi
100.	Mr. R. Prasanna	Modeling and control of CO <sub>2</sub> emission	Dr. K. Valarmathi
101.	Ms. L. Sathikala	Graph Theory	Dr. S. Arumugam
102.	Mr. M. Nalliah	Graph Theory	Dr. S. Arumugam
103.	MR. R. Anantha Kumar	Graph Theory	Dr. S. Arumugam
104.	Ms. N. Kamatchi	Graph Theory	Dr. S. Arumugam
105.	Mr. R. Lakshmanan	Graph Theory	Dr. S. Arumugam
106.	Ms. J. Saral	Graph Theory	Dr. S. Arumugam
107.	Ms. M. Usha	Statistics	Dr. S. Balamurali
108.	Mr. T. Manimaran	Graph Theory	Dr. A. ThuraiSwamy

109.	Mr. N. Vairavasamy	Graph Theory	Dr. A. ThuraiSwamy
110.	Ms. N. Radha.	Cryptography	Dr. M. Venkatesulu
111.	Ms. S. Rojathai	Data Mining	Dr. M. Venkatesulu
112.	Ms. P. Vidhya Saraswathi	Cryptography	Dr. M. Venkatesulu
113.	Ms. R. Vijayalakshmi	Grid Computing	Dr. V. Vasudevan
114.	Mr. K. Kartheeban	Grid Computing	Dr. M. Venkatesulu
115.	Ms. Aruljothi	Cryptography	Dr. M. Venkatesulu
116.	Mrs. C. Devi Arockiya Vanitha	Neural Network and Fuzzy Logic Approaches for Data Mining	Dr. M. Venkatesulu
117.	Mr. P. Ilango	Data Mining	Dr. V. Vasudevan
118.	Mrs. J. Kalavathi	Data Mining	Dr. S.Balamurali Dr. M. Venkatesulu
119.	Mrs. K. Devibala	Cryptography	Dr. S.Balamurali
120.	Mrs. M. Sornalakshmi	Data Mining	Dr. M. Venkatesulu
121.	Mr. K.Sivaramamoorthy	Condensed matter Physics	Dr. S. Asath Bahadur
122.	Mr. A. Jahubar ali	X-ray Crystallography	Dr. S. Asath Bahadur
123.	Mr. V.Susindran	Condensed matter Physics	Dr. S. Asath Bahadur
124.	Ms. A. Chitra Devi	Condensed matter physics	Dr. S. Asath Bahadur
125.	Ms. R. S. Daries Bella	Condensed matter Physics	Dr. S. Asath Bahadur
126.	Mr. M.Suresh	Condensed matter Physics	Dr. S. Asath Bahadur
127.	Ms. D.Vanitha	Condensed matter Physics	Dr. S. Asath Bahadur
128.	Mr. M Prabu	Solid State Ionics	Dr. S. Selvasekarapandian
129.	Mr. S. Thangarasu	X-ray Crystallography	Dr. S. Asath Bahadur
130.	Ms. C. Ambika	Solid state ionics	Dr. G. Hirankumar
131.	Mr. A. Maheswaran	Biomaterials	Dr. G. Hirankumar
132.	Ms. N. Rajeswari	Battery materials	Dr. S. Selvasekarapandian
133.	Mr. S. Karthick prabhu	Battery materials	Dr. G. Hirankumar
134.	Ms.N.Ramjeyanthi	Preparation and Charaterization of Pure and Doped Cerium Oxide Nanoparticles for Optical and Conductivity Applications	Dr. R. Srinivasan
135.	Mr.D.Muthuraman	Synthesis and Characterization of Rare Earths Doped Oxide Nanoparticles by Chemical Method for Luminescence	Dr. R. Srinivasan
136.	Mrs. B. Vasanthi	Application of Graph Theory in the Study of Organization Behavior	Dr. S. Sakthivel Rani
137.	Mrs. V. Geetha	Quality of Work life among the employees in cement industries in Virudhunagar District	Dr. M. Jeyakumaran
138.	Mr. C. Manoharan	SOCIO, Economic and Political Empowerment of Rural Women in Virudhunagar Dt	Dr. M. Jeyakumaran
139.	Ms.C. R. Mathuravalli	Effectiveness of branding on consumer purchase decision	Dr. S. Sakthivel Rani
140.	Mr. S. Kannan	Marketing management	Dr. S. Sakthivel Rani
141.	Mr. K. Sankar Ganesh	Marketing management	Dr. P.C.S. Rajajram
142.	Ms. S. Suganya	Finance management	Dr. S. Sakthivel Rani
143.	Ms. M. Selvarani	Finance management	Dr. S. Sakthivel Rani
144.	Mr.S.SaiVenkata Krishnan	Marketing management	Dr. S. Sakthivel Rani
145.	Mr.M.ShunmugaSundaram	Human Resource Management	Dr. M. Jeyakumaran
146.	Mrs. S. Yavana Rani	Services Marketing	Dr. M. Jeyakumaran
147.	Mr. N. Muthu Kumar	Human Resource Management	Dr. M. Jeyakumaran
148.	Mr. S. Sivasubramanian	Marketing	Dr. P. Kameswara Rao Dr. S. Rajaram
149.	Mrs. B.Shanmuga priya	Marketing	Dr. M.Jeyakumaran
150.	Mr. V.Kumar	HR	Dr. M.Jeyakumaran

151.	Mr. V.P.Sriram	Marketing	Dr. P.C.S. Rajajram
152.	Mr. R.Sethuraman	Finance	Dr. M.Jeyakumaran
153.	Mr. P.S.Vijay Anand	Marketing	Dr. S.Sakthivel Rani
154.	Mr. K. Durai	Culture Formation in Higher Education in Southern Districts of TamilNadu	Dr. S.Sakthivel Rani
155.	Mr. P. Pitchipoo	Supply chain Management	Dr. P. Venkumar
156.	Mr. S. John Leon	Polymer Matrix composites	Dr. J.T. Winowlin Jappes
157.	Mr. I. Jerin Leno	Combinatorial Optimization	Dr. S. Saravanasankar
158.	Mr. K. Vinoth Babu	Composite Material	Dr. J.T. Winowlin Jappes
159.	Mr. K. Chandrasekar	Cellular Manufacturing Systems	Dr. P. Venkumar
160.	Mr. Robin Kumar Samuel	Remote manufacturing system	Dr. P. Venkumar
161.	Mr. M. Edwin Sahayaraj	Composite Material	Dr. J. T. Winowlin Jappes
162.	Mr.DavidSanthosh Christopher	Flow and Heat Transfer	Dr. P. Venkumar
163.	Mr. G. Raja Pandian	Composite Material	Dr. V. Manikandan
164.	Mr. P. Amuthakkannan	Composite Material	Dr. V. Manikandan
165.	Mr. V. Arumuga Prabu	Composite Material	Dr. V. Manikandan
166.	Mr. A. Adi Narayanan	Operations Management	Dr. M. Uthayakumar
167.	Mr. C. Bennet	Fluid Dynamics	Dr. P. Rajesh Kanna
168.	Mr. N. Rajini	Polymer NanoComposite	Dr. J. T. Winowlin Jappes
169.	Mr. M. Muthu Kannan	CFD and Heat Transfer	Dr. P. Rajesh Kanna
170.	Mr. M. Sivasubramanian	Computational Fluid Dynamics	Dr. P. Rajesh Kanna
171.	Mr. S. Rajesh	Online tool condition monitoring	Dr. S. Raja Karunakaran
172.	Mr. K. D. Jaganathan	Supersonic Flow	Dr. S. Jeyakumar
173.	Mr. M. T. Sambandam	Energy and Environment	Dr. S. Raja Karunakaran
174.	Mr. A. Maniram Kumar	Safety Engineering	Dr. S. Raja Karunakaran
175.	Mr. V. Narasiman	Thermal Engineering	Dr. S. Jeyakumar
176.	Mr. S. Muthuvel	Solar Energy	Dr. S. Saravana Sankar
177.	Mr. S. Bathrinath	Multi-objective Optimization	Dr. S.Saravanasankar
178.	Mr. S. Thirumalai kumaran	Composite Material	Dr. M.Udhayakumar
179.	Mr. P. Balamurugan	Preparation of Aluminium based Hybrid Composite and its performance studies	Dr. M. Uthayakumar
180.	Mr. K. Balamurugan	Investigation on the properties of some Ceramic oxides for Thermal barrier application	Dr. V. Janakiraman
181.	Mr. G. Kalusuraman	Synthesis and characteristics of Cerium based ceramic oxides	Dr. V. Janakiraman
182.	Mr. T. Sivageerthi	Estimation and sequestration of CO <sub>2</sub> emission through energy analysis in coal fired power plant	Dr. S. Rajakarunakaran Dr. D. Devaraj
183.	Mr. M.Pethuraj	Cutting Tool Wear Estimation in Milling Process Using Intelligent Techniques	Dr. S.Rajakarunakaran
184.	Mr. D.S. Vincent	Ergonomics Design for Public Transport Vehicles and Measures to Improve Driver's Performance for Safe Night Driving	Dr. R.Sudhakarapandian
185.	Mr. P. Suresh kumar	Investigation of Fabrication of an Erosion Protection Strip in Main Rotor Blade of Helicopter	Dr. V. Janakiraman
186.	Mr. K. Gurusamy	English Language Teaching	Dr. G. Manivannan
187.	Ms. B. Sharmila	Feminism in the 21 <sup>st</sup> Century	Dr. G. Manivannan
188.	Ms. C. GangaLakshmi	Diaspora Literature	Dr. G. Manivannan Dr. M. Jeyakumaran
189.	Mr. S. Hariharasudan	Post Modern Literature	Dr. S. Robert Gnanamony
190.	Mr. Mr. K. Saravanan	Indian Migrant Fiction	Dr. S. Robert Gnanamony

191.	Mrs. Tharunika kanna	English Literature	Dr.T. G. Merly
192.	Ms. J. Shermina	Image analysis – optimized facial recognition	Dr. V. Vasudevan
193.	R. Joshua Samuel Raj	Grid Computing	Dr. V. Vasudevan
194.	P.Vijayakarthish	Grid Computing	Dr. V. Vasudevan

(b) Ph.D. completed:

Nine research scholars have completed their Ph.D. in the academic year 2011-12.

S. No.	Name of Research Scholar	Area of Research	Name of Guide	Month of completion of Ph.D. viva
1	Mr. M. Sundarakannan	Studies in Graph theory – domination in graphs	Dr. S. Arumugam	15.07.2011
2	Mr. Ulavappa B. Angadi	Clustering of DNA/protein sequences	Dr. M. Venkatesulu	28.11.2011
3	Mr. J. Amutharaj	Design of an efficient and resilient context distribution network	Dr. S. Radhakrishnan	02.01.2012
4	Mrs.C.Chitra	Performance Comparison of Multi-Objective Evolutionary algorithm for QOS routing problems in computer networks	Dr.P.Subbaraj	06.01.2012
5	Mr. K. Raja Chandrasekar	Studies in Graph Theory - Independence	Dr. S. Arumugam	05.04.2012
6	Mr. M. Victor Raj	Heuristic search algorithms for optimizing assembly tolerance variation and manufacturing system efficiency through batch selective assembly	Dr. S. Saravana Sankar	30.04.2012
7	Mr. Sudhakar Gummadi	A study of multicore processor performance for Network application	Dr. S. Radhakrishnan	16.05.2012
8	Mr. Bibin Mathew Cherian	Development of Chemically modified cellulose nanofiber composites for biomedical applications	Dr. M. Kottaisamy Dr. E. R. Nagarajan	11.05.2012
9	Mr. I. Siva	Investigation on the mechanical properties of naturally woven coconut sheath reinforced polymer matrix composite	Dr. J. T. Winowlin Jappes	01.06.2012

#### 14. Citation index of faculty members and impact factor:

A total of 90 publications in reputed journals were done by the faculty of Kalasalingam Academy of Research and Education during the academic year 2011-12

a) Publications:

<b>S. No.</b>	<b>Name of Faculty</b>	<b>Title</b>	<b>Name of Journal</b>	<b>Impact Factor of Journal</b>
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1.	D. Devaraj	Power quality disturbance classification using Hilbert transform and RBF networks	Neuro computing, Elsevier	1.234
2.	D. Devaraj	Mixed Genetic Algorithm approach for fuzzy classifier design	International Journal of Computational Intelligence and Applications	0.2334
3.	K. Vimala Devi	Resource Control and Estimation Based Fair Allocation (EBFAA) in Heterogeneous Active Networks	International Journal of Computing and Informatics	---
4.	K. Vimala Devi	An Effective end-to end approach to infer the Packet Forwarding Priority in the Network	International Journal of Computer Science, Systems Engineering and Information Technology	---
5.	Amutharaj Joyson	Evaluating the performance of Equitable Dominating set based content Distribution network design	Journal of Computer science	---
6.	Amutharaj Joyson	Design of Qos aware dominating set based semantic overlay network(QADSON) for content distribution	Journal of Computer Science	---
7.	P. Deepalakshmi	An Ant Colony Based Multi Objective Approach to Source-Initiated QoS Multicasting Method for Ad Hoc Networks	International Journal of Advances in Soft Computing and its Applications	---
8.	Sudhakar Gummadi	Dynamic allocation of CPUs in multicore processor for performance improvement in network security applications	Journal of Computer Science	---
9.	S. Dhanalakshmi	Application of Modified NSGA-II Algorithm to Combined Economic and Emission dispatch problem	International Journal of Electrical Power and Energy systems	2.073
10.	S. Anand	An multi-objective optimization tool for VLSI non-slicing floorplanning	International journal of Circuit theory and Application	
11.	S. Kannan	Application of Modified NSGA-II Algorithm to Combined Economic and Emission dispatch problem	International Journal of Electrical Power and Energy Systems	1.613
12.	N. Karpagam	Improved Fuzzy Logic Controller for SVC in power system damping using global signals	Journal of Electrical Engineering, Springer Publications	0.378
13.	S. Kannan	An improved generalized differential evolution algorithm for multi objective reactive power dispatch	Taylor & Francis-Engineering Optimization	
14.	S. Robert Gnanamony	The Marginalized Bushes as Fuzzed Moths: A Reading of Wendy Lill's The Occupation of Heather Rose.	Indian Journal of Post Colonial Literature	--
15.	S.Ramesh	An Improved Generalized Differential Evolution Algorithm for Multi-objective Reactive Power Dispatch	Engineering Optimization -Taylor & Francis	0.9
16.	S.Ramesh	Application of Modified NSGA-II Algorithm to Multi-objective	Applied Soft Computing – Elsevier,	2.084

		Reactive Power Dispatch		
17.	V.Vasudevan	Beyond Simulated Annealing in Grid Scheduling	International Journal on Computer Science and Engineering (IJCSE)	---
18.	K.Karuppasamy	Fractional distance domination in Graphs	Discussiones Mathematicae Graph Theory	---
19.	L. Sathikala	The covering chain of a graph	The Utilitas Mathematica	---
20.	S. Rajaram	Customer Perceived Service Quality and their behavioral Intentions on Banks with Special reference to Virudhunagar Taluk	International Journal of Marketing and Management Research	---
21.	S. Balamurali	A New System of Skip-lot Sampling Plans Having a Provision for Reducing Normal Inspection	Applied Stochastic Models in Business and Industry	0.351
22.	S. Balamurali	An Investigation of Effects of Misclassification Errors on the Analysis of Means	<i>Tamsui Oxford Journal of Information and Mathematical Sciences</i>	
23.	S. Balamurali	On Effective Arrangement of Posters in Advertising	International Journal of Current Research	
24.	S. Balamurali	An Optimal Design of a Skip-Lot Sampling Plan of Type V by Minimizing Average Sample Number	<i>Pakistan Journal of Statistics</i>	
25.	S. Balamurali	Bayesian Double Sampling Plan under Gamma-Poisson Distribution	Research Journal of Applied Sciences Engineering and Technology	
26.	S. Balamurali	Optimal Designing of an SkSP-V Skip-lot Sampling Plan with Double Sampling Plan as the Reference Plan	International Journal of Advanced Manufacturing Technology	
27.	S. Balamurali	Optimal Designing of Skip-lot Sampling Plan of Type SkSP-2 with Double Sampling Plan as the Reference Plan	Research Journal of Applied Sciences, Engineering and Technology	
28.	S. Balamurali	Bootstrap Confidence Limits for the Process Capability Index $C_{pmk}$	International Journal of Quality Engineering and Technology	
29.	S. Balamurali	Bayesian Sampling Inspection for Resubmitted Lots Under Gamma- Poisson Distribution	Research Journal of Applied Sciences, Engineering and Technology	
30.	K. Kartheeban	Euclidean Algorithm Based key computation protocol for secure group communication in dynamic grid environment	International Journal of Grid and Distributed Computing	
31.	K. Kartheeban	An efficient certificate-free key distribution protocol for secure group communication in Grid environment	Journal of computer science	
32.	P.Pitchipoo	A distinct decision model for evaluation and selection of supplier for an electro plating industry	International Journal of Production Research	1.3
33.	P.Pitchipoo	Modelling and development of decision model for supplier	International Journal of Computer Aided	---

		selection in process industry	Engineering and Technology (IJCAET)	
34.	P.Venkumar	Manufacturing cell formation using artificial immune system	International Journal of Computer Aided Engineering and Technology (IJCAET)	---
35.	J. T. Winowlin Jappes	Studies on the Influence of Silane Treatment on Mechanical Properties of Coconut Sheath-Reinforced Polyester Composite	Polymer-Plastics Technology and Engineering	0.69
36.	J. T. Winowlin Jappes	Investigation on Coir Sheath/Polyester Composites: Effect of Moisture on Wear Properties	International Journal of Advanced Manufacturing Systems	---
37.	J. T. Winowlin Jappes	Fractography Analysis of Naturally Woven Coconut Sheath Reinforced Polyester Composite: A Novel Reinforcement	Polymer-Plastics Technology and Engineering	0.69
38.	S. Arumugam	Degrees and Degree Sequence of $k$ -edge $d$ -critical graphs	Journal of Discrete Mathematical Sciences & Cryptography	---
39.	S. Arumugam	Algorithmic Aspects of Dominator Colorings in Graphs	Springer-Verlag, LNCS	---
40.	S. Arumugam	Minimal dominating sets in maximum domatic partitions	Australasian Journal of Combinatorics	---
41.	S. Arumugam	The Fractional Metric Dimension of Graphs	Discrete Mathematics	---
42.	S.Selvanayagam	1'-Methyl-4'-(1-naphthyl)-1'',2'',3'',4''-tetrahydroindane-2-spiro-2'-pyrrolidine-3'-spiro-2''-naphthalene-1,3,1''-trione	Acta Cryst. E	0.45
43.	S. Selvanayagam	1',1''-Dimethyl-4'-(naphthalene-1-yl)-1,2,3,4-tetrahydro-naphthalene-2-spiro-3'-pyrrolidine-2'-spiro-3''-indoline-1,2''-dione	Acta Cryst. E	0.45
44.	S. Asath Bahadur	Creatininium cinnamate	Acta Cryst. E	0.45
45.	S. Asath Bahadur	2,6-Bis(2-chlorophenyl)-4-oxo-3,5-diphenylheptane-1,1,7,7-tetracarbonitrile	Acta Cryst. E	0.45
46.	S.Selvanayagam	1''-Benzyl-1'-methyl-4'-(naphthalene-1-yl)naphthalene-2-spiro-3'-pyrrolidine-2'-spiro-3''-indoline-1,2''-dione	Acta Cryst. E	---
47.	S. Asath Bahadur	A triclinic polymorph of 3-nitroanilinium chloride	Acta Cryst. E	0.45
48.	S. Asath Bahadur	Diethyl 1-benzyl-2,2-dioxo-4-phenyl-3,4,6,7,8,8a-hexahydro-1H-pyrrolo-[2,1-c][1,4]thiazine-1,3-dicarboxylate	Acta Cryst. E	0.45
49.	S.Selvanayagam	Crystal growth and characterization of dibromo bis(triphenylphosphine oxide) cadmium (II)	Journal of Crystal Growth	1.737



50.	A.Maheswaran	Effect of annealing temperature on an ion transport properties of the bioglass	Journal of Alloys and Compounds	2
51.	C. Sivapragasam	Re-design of Rain Gauge Network using Genetic Programming based ordinary kriging	34 <sup>th</sup> IAHR World Congress	---
52.	C. Sivapragasam	Long term flow forecasting for water resource planning in a river basin	19 th international congress on modeling and simulation	---
53.	C. Sivapragasam	Suitability of universal function approximators in redesigning rain gauge network for a river basin	International journal of Earth sciences and Engineering	ISSN 0974-5904
54.	PL. Meyyappan	Low cost Tsunami resistant structures for coastal Tamil Nadu regions	International Journal of Applied Management Research	---
55.	N. Ganesan	Studies on strength characteristics on utilization of waste materials as coarse aggregate in concrete	International Journal of Engineering Science and Tech (IJEST)	---
56.	S.N. Ramaswamy	studies on strengthening of brick masonry structures in fire works industries against accidental explosions	Asian journal of civil engineering	---
57.	Selvanayagam, S	Synthesis, growth, spectral and thermal properties of a new organic crystal: 2-Carboxypyridin-1-ium trichloroacetate	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	
58.	Gomathinayagam, S	Comparative study of biological agents, Trichoderma harzianum and Trichoderma viride for controlling brown spot disease in rice	Journal of Biopesticides 5 (SUPPL.)	
59.	Kotteeswaran, P	Inhibition of mild steel corrosion in 1 M HCl solution by 1-propanaminium N,N,N-tributyl bromide	Asian Journal of Chemistry	
60.	Arumugam, S	Super (a, d)-edge antimagic total labelings of friendship graphs	Australasian Journal of Combinatorics	
61.	Selvanayagam, S	4-[(E)-(Hydroxyimino)methyl]-N,N-dimethylanilinium chloride	Acta Crystallographica Section E: Structure Reports Online	
62.	Nagarajan, E.R	Viscoelastic behaviour of novel commingled biocomposites based on polypropylene/jute yarns	Composites Part A: Applied Science and Manufacturing	
63.	Banu, R.N	Multi-objective GA with fuzzy decision making for security enhancement in power system	Applied Soft Computing Journal	
64.	Prabu, M	Dielectric and modulus studies of LiNiPO 4	Materials Chemistry and Physics	
65.	Prabu, M	Synthesis and characterization of proton conducting polymer electrolyte based on poly(N-vinyl pyrrolidone)	Journal of Applied Polymer Science	
66.	Selvanayagam, S	Resorcinol ninhydrin complex: 1,5,9-tri-hydroxy-8-	Acta Crystallographica Section E: Structure	

		oxatetracyclo[7.7.0.0 2,7.0 10,15]-hexadeca-2,4,6,10(15),11,13-hexaen-16-one	Reports Online	
67.	Radhakrishnan, S	Automatic ischaemic beats classification using genetic-based least square support vector machine	International Journal of Biomedical Engineering and Technology	
68.	Siva, I	Investigation on mechanical and tribological behavior of naturally woven coconut sheath-reinforced polymer composites	Polymer Composites	
69.	Kannan, S	Generation Scheduling problem by Intelligent Genetic Algorithm	Computers and Electrical Engineering	
70.	Muthulakshmi, L	Seasonal distribution of some heavy metal concentrations in ground water of Virudhunagar District, Tamilnadu, South India	Electronic Journal of Environmental, Agricultural and Food Chemistry	
71.	Vasudevan, V.	A five step procedure for outlier analysis in data mining	European Journal of Scientific Research	
72.	Venkumar, P	Numerical investigation of heat transfer from a two-dimensional sudden expansion flow using nanofluids	Numerical Heat Transfer; Part A: Applications	
73.	Bahadur, S.A	4-Chloro-anilinium 3-carb-oxy-prop-2-enoate	Acta Crystallographica Section E: Structure Reports Online	
74.	Arumugam, S	The equivalence chain of a graph	Journal of Combinatorial Mathematics and Combinatorial Computing	
75.	Sivakumar, P	Parallel memetic algorithm for VLSI circuit partitioning problem using graphical processing units	Journal of Computer Science	
76.	Amuthakkannan, P	Investigation of the effect of surface modifications on the mechanical properties of basalt fibre reinforced polymer composites	Composites Part B: Engineering	
77.	Selvanayagam, S	1-(2-Hydroxyethyl)-1'-methyl-4'-(naph-thalen-1-yl)-1'', 2'',3'',4''-tetrahydro-dispiro[indoline-3,2'-pyrrolidine-3',2''-naphthalene]-2,1''-dione	Acta Crystallographica Section E: Structure Reports Online	
78.	Prabu, M	Impedance studies on the 5-V cathode material, LiCoPO 4	Journal of Solid State Electrochemistry	
79.	Sambandam, M.T	An energy flow analysis in a paper-based industry	Clean Technologies and Environmental Policy	
80.	Winowlin Jappes, J.T	Fabrication and optimization of drilling parameters in heat treated sic reinforced functionally graded AL composites using taguchi method	Materials Science Forum	
81.	Venkatesulu, M	Structural SCOP superfamily level classification using unsupervised machine learning	IEEE/ACM Transactions on Computational Biology and Bioinformatics	
82.	Sundar, K	Psidium guajava Linn confers gastro protective effects on rats	European Review for Medical and Pharmacological Sciences	

83.	Devaraj, D	Design of fuzzy expert system for microarray data classification using a novel Genetic Swarm Algorithm	Expert Systems with Applications	
84.	Prabu, M	Influence of europium doping on conductivity of LiNiPO 4	Transactions of Nonferrous Metals Society of China (English Edition)	
85.	Bahadur, S.A.	Creatinium hydrogen oxalate	Acta Crystallographica Section E: Structure Reports Online	
86.	Nagarajan, E.R	Novel bio-commingled composites based on jute/polypropylene yarns: Effect of chemical treatments on the mechanical properties	Composites Part A: Applied Science and Manufacturing	
87.	Hirankumar, G	Structural, vibrational, thermal, and conductivity studies on proton-conducting polymer electrolyte based on poly (N-vinylpyrrolidone)	Ionics	
88.	Manohar, A	Synthesis, spectral, redox and antimicrobial investigation of some schiff base transition metal complexes	International Journal of ChemTech Research	
89.	Gummadi, S	Effective utilization of multicore processor for unified threat management functions	Journal of Computer Science	
90.	Punitha, K.	Fuzzy Adaptive Hysteresis band Current Controller for solar photovoltaic inverter	Advanced Materials Research	

### 15. Honours/Awards to Faculty:

S.No.	Name of Faculty	Details of Honours/Awards received	Awarding Organization
1	Dr. C. Sivapragasam	Executive Member in Editorial Board	International Journal of Earth Sciences & Engineering
2	S. Arumugam	Adjunct Professor, Department of Computer Science	Ball State University, Muncie, Indiana 47306, USA
3	S. Arumugam	Visiting Professor, Department of Computer Science	Liverpool Hope University, Liverpool, UK

### 16. Internal Resources generated:

S. No.	Activity	Amount Generated in `
1.	Traning Programs	4,58,000
2.	Consultancy Services	5,03,000
3.	Testing Services	17,000

### 17. Details of Departments getting SAP, COSIST (ASSIST)/DST, FIST, etc. assistance/recognition:

S.No.	Department	Name of Programs	Sanctioned Date	Amount sanctioned in `	Duration
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1	Instrumentation and Control Engg.	DST-FIST	18/01/2010	65 Lakhs	5 years
2	Mechanical Engineering	DST-FIST	29/10/2010	120 Lakhs	5 Years

**18. Community services:**

S.No.	Name of Service	Beneficiaries	Month & Year
1.	Swine flu Awareness Program	Ramachandrapuram Village	October, 2011

**19. Teachers and officers newly recruited:**

142 faculty members and 62 Non-Teaching staffs were recruited during the Academic year 2011-12

## a) Faculty recruited:

S. No	Name	Joined as	Department
1	Dr. T. Kathiresan	Asst.Prof	Bio-Tech.
2	Ms. J. Christina Rosy	Asst.Prof. I	Bio-Tech.
3	Dr. K. Palanichelvam	Associate Professor/	Bio-Tech.
4	Dr. S. Ramalingam	Asst. Prof. I	Chemistry
5	Dr. S.Senthilkumar	Asst.Prof.-I	Chemistry
6	Mr. C. Sankar	Asst. Prof.I	Chemistry
7	Mr. V. Srisrinivash	Asst.Prof.-I	Civil Engg.
8	Mr. K. Prabakaran	Asst. Prof-I	Civil Engg.
9	Mr. S.K.M. Pothinathan	Asst. Professor-I	Civil Engg.
10	Ms. P. Naga Sowjanya	Asst. Professor-I	Civil Engg.
11	Mr. R. Premkumar	Asst. Professor-I	Civil Engg.
12	Ms.Sofia Thena	Asst. Professor-I	Civil Engg.
13	Ms. K.Karthiga	Asst. Professor-I	Civil Engg.
14	Mrs. K. Karpagavalli	Asst. Professor-I	Civil Engg.
15	Ms.P. Vanalakshmi	Asst. Prof.-I	Civil Engg.
16	Mr. P. Baranitharan	Asst. Prof.-I	Civil Engg.
17	Ms. S. Thayammal	Asst. Prof.-I	Civil Engg.
18	Ms.K.V. Priya	Asst. Prof.-I	Civil Engg.
19	Mr. R. Bharathi Murugan	Asst. Prof.-I	Civil Engg.
20	Mr. N.P.Vignesh	Asst. Prof.-I	Civil Engg.
21	Ms. V. Karpaham	Asst. Prof.-I	Civil Engg.
22	Ms. R. Venkada Lakshmi	Asst. Prof.-I	Civil Engg.
23	Dr. K. Vimala Devi	Professor	CSE
24	Mrs. K. Dhanalakshmi	Asst. Prof.-I	CSE
25	Ms. S. Karkuzhali	Asst. Prof.-I	CSE
26	Ms. I. Gethzi Ahila Poornima	Asst. Prof.-I	CSE
27	Mr. P. Ravikumar	Asst. Prof.-I	CSE
28	Mr. S. Prakash Kumar	Asst. Prof. II	CSE
29	Ms. P.G. Banu Priya	Asst. Prof. II	CSE
30	Ms. J.Jeya Ranjani	Asst. Prof. I	CSE
31	Ms. M. Sangeetha	Asst. Prof. I	CSE
32	Ms. B. Indira	Asst. Prof. I	CSE

33	Mr. T. Grace Winsolin	Asst. Prof. I	CSE
34	Ms. K. Mari Selvi	Asst. Prof. I	CSE
35	Mr. R. Sasikumar	Asst. Prof. I	CSE
36	Ms. B. Bala Kiruthiga	Asst. Prof. I	CSE
37	Ms. A. Nithya Kalyani	Asst. Prof. I	CSE
38	Ms. D. Kirubha	Asst. Prof. I	CSE
39	Mr. R. Muniasamy	Asst. Prof. I	CSE
40	Mr. A.Robert Singh	Asst. Prof. I	CSE
41	Mrs. Achsah G.P. Oliviah	Asst. Prof. I	CSE
42	Ms. A. Suganya	Asst. Prof. I	CSE
43	Ms. A. Glory Santha Vinothini	Asst. Prof. I	CSE
44	Mr. A. Sivanesh Kumar	Asst. Prof. I	CSE
45	Ms. R. Jeyalakshmi	Asst. Prof. I	CSE
46	Mr. T. Harish Babu	Asst. Prof.-I	E&I
47	Mr. R. Prasanna	Asst. Prof.-I	E&I
48	Mr.G..Vishnu Varthanan	Asst. Prof.-I	E&I
49	Mrs. R. Aruna	Asst. Prof.-I	E&I
50	Ms. C.Karthik	Asst. Prof.-I	E&I
51	Ms. D. Babiyola	Asst. Prof.-I	E&I
52	Ms. V. Manimala	Asst. Prof.-I	E&I
53	Mr. R. Pon Arun	Asst. Prof.-I	E&I
54	Ms. S. Manimegalai	Asst. Prof.-I	E&I
55	Mr.K. Subadeepan	Asst. Prof.-I	E&I
56	Ms. S.R. Revathy	Asst.Prof.-I	ECE
57	Mr. B. Srinivasa Rao	Asst. Prof.-II	ECE
58	Ms. A. Chinnammal	Asst. Prof.-I	ECE
59	Mr. R. Radeep Krishna	Asst. Prof.-I	ECE
60	Ms. K.S. Dhanalakshmi	Asst. Prof.-I	ECE
61	Mr. A. Azhagu Jaisudhan Pazhani	Asst. Prof.-I	ECE
62	Ms. R. Ganga	Asst. Prof.-I	ECE
63	Ms. G. Thiruselvi	Asst. Prof.-I	ECE
64	Mr. J. Prabin Jose	Asst. Prof.-I	ECE
65	Mr. S.P.Velmurugan	Asst. Prof.-I	ECE
66	Ms. G. Vijayalakshmi	Asst. Prof.-I	ECE
67	Ms. J. Nithya	Asst. Prof.-I	ECE
68	Mr. A. Diwakaran	Asst. Prof.-I	ECE
69	Ms. B. Thilagavathi	Asst. Prof.-I	ECE
70	Mr. S. Balamurugan	Asst. Prof.-I	ECE
71	Mr. V. Karutharaja	Asst. Prof.-I	ECE
72	Ms. A. Saraswathi	Asst. Prof.-I	ECE
73	Ms. J. Rani	Asst. Prof.-I	ECE
74	Ms. M. Arul Thenmathi	Asst. Prof.-I	ECE
75	Ms. G. Prabha	Asst. Prof.-I	ECE
76	Ms. M. Indu Menon	Asst. Prof.-I	ECE
77	Mr. M. Krishna Paramathma	Asst. Prof.-I	ECE
78	Mr. P. Naveen	Asst. Prof..I	ECE
79	Ms. K. Sridevi	Asst. Prof.	ECE
80	Mrs. S. Dhanalakshmi	Asst.Prof.-II	EEE
81	Ms.J.Kohila	Asst. Prof.-I	EEE
82	Ms. R. Karthika	Asst. Prof.-I	EEE
83	Ms.S. Gomathi	Asst. Prof.-I	EEE
84	Mr. S.Kalimuthu Kumar	Asst. Prof.-I	EEE

85	Mr. S. Rajendran	Asst. Prof.-I	EEE
86	Ms. C. Vidhya	Asst. Prof.-I	EEE
87	Mr.K. Vijayakumar	Asst. Prof.-I	EEE
88	Mr. D. Ganesha Perumal	Asst. Prof.-I	EEE
89	Mr. K. Muniyasamy	Asst. Prof.-I	EEE
90	Mr.K. Rajesh	Asst. Prof.-I	EEE
91	Ms.B. Rathi	Asst. Prof. I	English
92	Ms. Jean Ida Gunaseeli	Asst. Prof. I	English
93	Ms. Niji Nelson	Teaching Asst	English
94	Ms. N. Rajeswari	Teaching Assistant	English
95	Dr. B. Subathra	Asst.Prof.	ICE
96	Ms. P. Deepavathi	Asst. Prof. I	IT
97	Mr. G. Dinesh	Asst. Prof. I	IT
98	Mr.M. Karthik	Asst. Prof. I	IT
99	Ms. A. Murugeswari	Asst. Prof. I	IT
100	Mr. G. Prabu Kanna	Asst. Prof. I	IT
101	Ms. V. Lakshmi Priya	Asst. Prof. I	IT
102	Ms. B. Sheeba Backia Mary	Asst. Prof. I	IT
103	Ms. M. Muthu Meena	Teaching Asst	MBA
104	Mr.V.Karthik Raja	Asst. Prof. I	MBA
105	Dr. R. Sudhakara Pandian	Professor	Mech. Engg.
106	Mr. P.Sankar Ganesh	Asst. Professor-I	Mech. Engg.
107	Mr. T. Saravanan	Asst. Professor-I	Mech. Engg.
108	Mr. M. Manoj Prabhakar	Asst. Professor-I	Mech. Engg.
109	Mr. R. Vinoth Babu	Asst. Professor-I	Mech. Engg.
110	Mr. S. Karthikeyan	Asst. Professor-I	Mech. Engg.
111	Mr. J. Manivannan	Asst. Professor-I	Mech. Engg.
112	Mr. S. Kalirasu	Asst. Professor-I	Mech. Engg.
113	Mr. V. Ragunathan	Asst. Professor-I	Mech. Engg.
114	Mr. M.A. Parthasarathy	Asst. Professor-I	Mech. Engg.
115	Mr. S. Suresh Kumar	Asst. Professor-I	Mech. Engg.
116	Mr.M. Ekambaram	Asst. Professor-I	Mech. Engg.
117	Mr. A. Muthulakshmanan	Asst. Professor-I	Mech. Engg.
118	Mr. R. Kamatchi	Asst. Prof.-II	Mech. Engg.
119	Mr. P.Ganesan	Asst. Prof.-I	Mech. Engg.
120	Mr. H.P.Chandan	Asst. Prof.-I	Mech. Engg.
121	Mr. B. Marxim Rahula Bharathi	Asst. Prof.-I	Mech. Engg.
122	Ms.S.Kavitha	Asst. Prof.-I	Mech. Engg.
123	Mr. M.Raja Chandra Sekar	Asst. Prof.-I	Mech. Engg.
124	Mr. K.Mayandi	Asst. Prof.-I	Mech. Engg.
125	Mr. V. Venu	Asst. Prof.-I	Mech. Engg.
126	Mr. G.Karthikeyan	Asst. Prof.-I	Mech. Engg.
127	Mr. M.S. Abilash	Asst. Prof.-I	Mech. Engg.
128	Mr. M. Pethuraj	Asst. Prof.-I	Mech. Engg.
129	Mr. C. Sankar	Asst. Prof.-I	Mech. Engg.
130	Mr. K.Devanarayanan	Asst. Prof.-I	Mech. Engg.
131	Dr. P. Jeyaraj	Assoc.Prof	Mech. Engg.
132	Mr. K. Maclin John Vasanth	Asst. Prof.-I	Mech. Engg.
133	Mr. S. Sathyaraj	Asst. Prof.-I	Mech. Engg.
134	Mr. T. Premkumar	Asst. Prof.-I	Mech. Engg.
135	Mr. G.S. Samy	Asst. Prof.-I	Mech. Engg.
136	Mr. M. Satheeshkumar	Asst. Prof.-I	Mech. Engg.
137	Dr. S. Rajagopal	Adjunct Prof	Nano Tech.

138	Dr. C.Ramalingam	Asst. Prof.	Nano-Tech.
139	Mr.R. Srinivasan	Asst.Prof./-I	Physics
140	Mr. K. Jeyadheepan	Asst. Prof.-I	Physics
141	Ms. M. Rajarajeswari	Asst. Prof.-I	Physics
142	Mr. N. Nallamuthu	Asst. Prof. I	Physics

## b) Non-teaching staff recruited:

S. No.	Name	Designation	Department
1	Mr. M. Ganesa Raja	Garden Super	Agri
2	Mr. A. Sasikumar	Garden Super	Agri.
3	Mr. M. Sriharan	Lab. Tech.	Bio-Tech.
4	Mr. B. Siva Sundarji	Lab. Tech.	CCF
5	Mr. V. Krishna Prabhu	Lab. Tech.	Chem.
6	Mr. T. Sokkumuthu	Lab. Tech.	Chemistry
7	Mr. G. Sundararaj	Clerk	COE
8	Mr. M. Marimuthu	Clerk	COE
9	Mr. M. Somasundaram	Clerk	COE
10	Ms.L. Kanmani	Lab. Tech.	Core
11	Ms. G. Pathirakali	Clerk	CORE
12	Mr. M. Sathya Narayanan	Proj.Assoc.	CORE
13	Mr. M. Venkatesh	Office Asst.	Dean (Acad)
14	Mr. M. Chandrasekar	Clerk	Dean (Acad.)
15	Mr. S. Muthu Kamatchi	Clerk	Dean (Acade)
16	Mr.R.Rajangam	Driver	E.O.
17	Mr. R. Patchaimal	Driver	E.O.
18	Mr. S.Sri Krishnan	Driver	E.O.
19	Mr.P. Kaliraj	Conductor	E.O.
20	Mr. T. Kalimuthu	Conductor	E.O.
21	Mr. M. Muniasamy	Conductor	E.O.
22	Mr.P.Rakkan	Driver	E.O.
23	Mr. S. Ganesan	Driver	E.O.
24	Mr. M. Kathiresan	Driver	E.O.
25	Mr. G. Murugan	Driver	E.O.
26	Mr. S. Ravi	Electrician	E.O.
27	Mr. M. Sachithanandham	Mat.Super	E.O.
28	Mr. P. Ganesan	Gen.Oper.	E.O.
29	Mr. R. Srinivasan	Elec.Helper	E.O.
30	Ms. M. Buvaneshwari	Lab. Tech.	ECE
31	Mr. T. Muthumanikkam	Lab. Tech.	ECE
32	Ms. R.Muthulakshmi	Lab. Tech.	EEE
33	Ms.T. Revathi	Lab. Tech.	EEE
34	Mr. K. Manikandan	Lab. Tech.	EEE
35	Mr. G. Pandiya Rajan	Lab. Tech.	EEE
36	Ms. T. Marimuthammal	Lab. Tech.	EEE
37	Ms. M. Jeya Malini	Lab. Tech.	EEE
38	Mr. S. Jay Ganesh	Lift operator	EO
39	Mr. P. Eswaramoorthy	Driver	EO
40	Mr. M. Mari Easwaran	Conductor	EO
41	Mr. S.Velmurugan	Main.Super	EO
42	Mrs. M. Muthulakshmi	Nursing Asst	Health Centre
43	Ms. P. Sudhalakshmi	Lab. Tech.	I.T.
44	Ms. V.P. Muthulakshmi	Lab. Tech.	I.T.
45	Mr. M. Amalraj	Clerk	I.T.
46	Ms.P. Valarmathi	Lab. Tech.	ICE

47	Mr. C. Mari Selvam	Clerk	ICE
48	Ms. A. Meena Mathi	Lab. Tech.	IT
49	Ms. A. Muthulakshmi	Clerk	IT
50	Ms. M. Ambika	Asst. Librarian	Library
51	Mrs. V. Seethalakshmi	Library Asst.	Library
52	Mr. S.P. Selvam	Lib. Asst.	Library
53	Mr. K. Ghosh	Lib. Asst.	Library
54	Mrs. M. Gayathri	Clerk	MCA
55	Mr. A. Kalirajan	Lab. Tech.	Mech. Engg.
56	Mr. S. Sakthivel	Clerk	Mech. Engg.
57	Mr. L. Kumar	Lab. Tech.	Mech.Engg.
58	Mr. G. Palanichamy	Elec. Engineer	P.O.
59	Mr. V. Navaneethakrishnan	Clerk	Regr.office
60	Mr. C. Jothi Vignesh	Trg. Coord.	TPO
61	Mr. R. Ravanan	PRO	VC Office
62	Ms. K. Rajeswari	Tel.Operator	VC's office

**20. Teaching – Non-teaching ratio:**

470: 196 = 2.40

**21. Improvement in the Library Services:**

- i. Subscribing to 7 additional journals.
- ii. Subscribing to 4 additional magazines.
- iii. Adding 3 more computers for access to on-line journals.

**22. New books/journals subscribed and their value:**

Books added in the academic year 2011-12 are mentioned below:

Particulars	Cost in `
Books	540024
E-Journals	459067
Print Journals	125960
Technical Magazines	5520
General Magazines	4384

**23. Courses in which student assessment of teachers is introduced and the action taken on student feedback:**

S.No.	No. of courses for which feedback taken	Percentage of faculty who scored < 0.8 (Normalised Score)
1	750 (Odd semester)	14
2	798 (Even semester)	12

Faculty members who have scored less than 0.8 (normalized score) are counseled by the Head of the Department and/or Dean Academics. They are also advised to attend Faculty Development Programs.

**24. Feedback from stakeholders**

Feedback is obtained from the students at the end of every semester. Alumni feedback is taken whenever the alumni visit our campus or during the alumni meetings. Feedback is



obtained from the employers during every recruitment process and during the visit to the industries by our faculty members where our students are working. During the general body meeting of the Parents Teachers Association, parents' feedback is taken. Their comments or suggestions are reviewed in the Staff Council meetings and appropriate action taken.

### 25. Unit cost of Education:

Total expenses / total number of students = ` 44,38,26,000/5,900 = ` 75,225/-

### 26. Computerization of administration and the process of admissions and examination results, issue of certificates:

Second version of the inhouse developed software for the admission process, attendance, marks entry & result declaration is presently being used. Student Information System developed whereby the student can check all the details regarding his academic performance and his attendance on the intranet.

Two touch screen kiosks are installed in the campus for the convenience of the students.

### 27. Increase in the infrastructural facilities:

Equipment in the existing Labs was added as per the requirement of the course curriculum. 100 computers were added in this academic year.

4 new buses were added.

Additional roads were developed and the existing roads were relaid.

### 28. Technology upgradation:

a) Video conferencing equipment is purchased and installed to enable better interaction with companies and other institutions.

b) Implemented Wireless Connectivity in the new academic blocks and hostels with Access Points supporting 802.11n technology and WLAN controllers.

### 29. Computer and Internet access and training to teachers and students:

Each department has a computer lab in addition to the central computing facilities that are provided by the university. All the 2000 nodes in the campus are connected to the local area network and have the internet access. 1400 students have their personal laptops and wireless connectivity is provided to all these laptops whereby students could access our intranet servers and the internet. 100 computers are added in this academic year.

24 Mbps (1:1) Internet bandwidth is provided for internet access in addition to the 1 Gbps National Knowledge Network. Wireless access for Internet and Intranet throughout the campus is provided for all students & faculty.

(a) Training programs organized for Faculty

S. No.	Department offering the Program	Date		FDP on
		From (dd/mm/yyyy)	To (dd/mm/yyyy)	
1	IT	25/06/2012	29/06/2012	Data Structures and Algorithms
2	Bio-Tech			Techniques in molecular microbiology
3	Civil Engg.			GIS and Remote Sensing
4	CSE			Soft Computing

5	EEE			Electric Circuit Analysis
6	ECE			Digital Image Processing
7	ICE			Neural Network and Fuzzy Logic Control
8	Mech. Engg.			Engineering Drawing

## (b) Training programs organized for students towards placements.

S. No.	Name of the Training Program	No. of days	Date (dd/mm/yyyy)		Type of participants (Faculty, Non-teaching staff and students)
			1.	Soft Skills Training Program	
2.	Freshman Induction Program	5	16.06.11 23.06.11	20.6.11 27.06.11	I Year B. Tech students
3.	Group Discussion & Mock Interviews	2	20.08.11	21.08.11	IV year B. Tech (2008-12 batch) students
		2	27.08.11	28.08.11	
		2	04.09.11	05.09.11	
4.	Company Specification Aptitude Test	3	22.08.11	24.08.11	2012 passing out B. Tech., M. Tech & MCA students
		3	25.08.11	27.08.11	
		3	29.8.11	31.08.11	
		3	01.09.11	03.09.11	

**30. Financial aid to students:**

Anandam Ammal Scholarship for the academic performance was given to 72 students. The total scholarship amount disbursed in 2011-12 is to the tune of ` .15,67,500/-.

**31. Activities and support from the Alumni Association:**

S. No.	Purpose	Cost in `
1.	Sponsorship for Conferences / Seminars	65,000
2.	Sponsorship for Technical Symposium	44,000
3.	Organising Expert Lectures by our alumini	61,500

**32. Activities and support from the Parent-Teachers Association:**

Parent Teachers Association extends partial financial support for some of the events organized at KARE. This association coordinates purchase of books, Stationery items, etc., for the students every semester. The Executive Council of Parent Teacher Association meets periodically and suggests the improvement for the students' amenities. The Staff Council of KARE evaluates their suggestions and implements as appropriate.

**33. Health Services:**

KARE has a Health Centre in the campus with both male and female duty doctors. University owns an ambulance to take the patients to hospitals, if required. Medicines are given free of cost to the students and employees. About `15,36,000 was spent on Health Care Centre during the academic year 2011-12.

**34. Performance in sports activities:**

KARE students have secured awards / medals in 22 different sports events during the academic year 2011-12

S. No.	Name of event	No. of Awards/ Medals won	Details
1.	Athletic Meet	2 / Gold Medals	Conducted by Rotary Club, Sivakasi
2.	100mts	III Prize	Conducted by KLU (Intra College Level)
3.	Volleyball	I Prize	Open state level tournament, KLU
4.	Hammer & Discuss throw	Gold & Silver	Virudhunagar dist. Level inter collegiate ROTO ATHLETE -2011 ,sivakasi
5.	Triple Jump	Bronze	Virudhunagar dist. Level inter collegiate ROTO ATHLETE -2011 ,sivakasi
6.	Discuss throw	Silver	State games block level dist. Athletic competition, KLU.
7.	National level Foot ball	Silver Medal	Sasthra university. 11-03-11&12-03-11
8.	National level Cricket	Bronze Medal	Sasthra University 13-03-11
9.	National level Basket ball	Silver Medal	Sasthra University 11-03-11&12-03-11
10.	Cricket	Gold Medal	ANJAC,Sivakasi 09-01-11
11.	Volleyball	2 <sup>nd</sup> Place	Open State level Volley Ball Championship Tournament at Kovilpatti
12.	Shot Put	I prize	ROTO ATHELETIC 2011) Conducted by Sports Development Authority of Tamil Nadu.
13.	District Level Shot Put	I prize	Rotary club of Sivakasi
14.	Discus Throw	III prize	Sports Development Authority of Tamil Nadu.
15.	District Level Shot Put	III prize	Sports Development Authority of Tamil Nadu.
16.	Discus Throw	Gold	Virudhunagar District level Inter Collegiate ROTO ATHLETE
17.	Hammer Throw	Silver	Virudhunagar District level Inter Collegiate ROTO ATHLETE
18.	Discus Throw	Silver	Sports Development Authority of Tamilnadu
19.	Foot Ball	1 <sup>st</sup> & 2 <sup>nd</sup> Place	Kalasalingam University
20.	Basket Ball	Championship	Virudhunagar Stadium & K.V.S. School
21.	Volley Ball	Championship	Virudhunagar Stadium & K.V.S. School
22.	Hockey	Championship	Virudhunagar Stadium & K.V.S. School

**35. Incentives to outstanding sports persons:**

Three students received 25% fee concession for their participation in state level tournaments.

**36. Students Achievements/awards:**

34 students of KARE have been awarded prizes for their achievements in curricular activities and 61 students in extra-curricular activities

**37. Activities of the Guidance and Counseling unit:**

KARE has an effective Faculty Advisory System. About 20 students are assigned to each faculty advisor. Faculty advisor recommends the courses (CGPA and non CGPA) courses to be taken up for the subsequent semester. Faculty Advisor maintains the particulars of the student and meets the students periodically to monitor the student's progress and counsels the student.

**38. Placement services provided to students:**

Office of Corporate Relations coordinates all the placement activities. 33 companies have conducted the campus recruitment drive and selected 588 students as mentioned below:

S. No.	Name of the Company	No. of students placed	Annual Salary in ` (CTC)
<i>Annual Quality Assurance Report for year 2011-12</i>			
	TATA Consultancy Services	201	3,16,387
2.	Zifo Technologies	5	2,10,000
3.	HCL Technologies	74	3,40,000
4.	Athena Health Technology	1	5,00,551
5.	Sundaram Finance	4	1,68,000
6.	Cease fire	7	1,92,000
7.	Syntel	5	2,80,000
8.	SRM Technologies	23	1,85,025
9.	Hi Commands	11	1,80,000
10.	Popular Vehicles	19	96,000
11.	Adeco India	27	1,08,000
12.	Aditya Trading Solutions	17	1,68,000
13.	IMF Consultants	1	84,000
14.	Sharekhan Limited	2	84,000
15.	VIP Housing and Properties Ltd	1	1,08,000
16.	Way 2 Wealth Group	6	1,44,000
17.	Data Patterns	2	2,50,000
18.	BGR Energy Systems	13	2,76,000
19.	HCL Business Services	100	1,80,000
20.	Fomra Housing & Infrastructure	17	2,04,000
21.	Real Value Promoters	14	1,44,000
22.	Epi Source	5	1,44,000
23.	Global Edge Software Ltd	1	2,50,000
24.	Arcus Architect	5	2,00,000
25.	Kalycito Infotech	1	3,00,000
26.	R.K.M. Powergen	1	2,50,000
27.	Korea Fuel Tech	3	1,55,915
28.	URC Constructions	2	1,80,000
29.	Visionary RCM	11	1,44,000
30.	Anu Solar Systems	1	1,20,000
31.	Taj	1	3,80,000
32.	Kalasalangam University (Kalasalangam Academy of Research and Education) SMART Training Resource	1	96,000
33.	TVS Tyres	6	96,000
Total		588	

**39. Development programmes for non-teaching staff:**

Centre for Learning Technologies organized 5 training programs for the non-teaching staff as mentioned below:

S. No.	Name of the Programme	No. of participants	Dates	
			From (dd/mm/yyyy)	To (dd/mm/yyyy)
1.	Introduction to AUTOCAD	16	20/08/2011	
2.	PC Maintenance	24	20/08/2011	
3.	Office Administration	12	20/08/2011	
4.	Workshop on "LaTex"	29	17/09/2011	
5.	Advanced Workshop on AutoCAD	16	20/09/2011	22/09/2011

**40. Good practices of the Institution:**

## a) Faculty Advisory System

KARE has an effective mechanism to track the individual students through the Faculty Advisory System and helps the students to plan their academic activities as per the individual's capabilities.

## b) Skill based learning and academic flexibility

The curriculum of KARE offers enough academic flexibility for the slow learners such as

- (i) A student can reduce the academic load by dropping one or two courses and subsequently clear such backlogs at later stage
- (ii) A student who has failed in a core course is allowed to re-register for the course and complete it.
- (iii) A student who has failed in an elective course is permitted to register for a different elective.
- (iv) Summer Term Courses and Contact Courses are offered for the slow learners to clear their backlogs.

Similarly the advanced learners have the following provisions:

- (i) The advanced learners are encouraged to register for additional courses and aim for higher classification of degree such as Honors. The Advanced learners are encouraged to choose electives from the courses which are offered for M.Tech. programs.
- (ii) The advanced learners are given the opportunity to do their project work by getting involved in the ongoing research/Project Work that is done by the researchers.
- (iii) Under the semester abroad program, advanced learners are encouraged to register for courses offered by experts in any of the foreign universities and get the credit transfer as equivalent course in his/her curriculum.

## c) Inter-disciplinary course credit

The curriculum structure permits the students to study interdisciplinary courses under minor electives and free elective categories.

## d) Beyond Syllabus Practice

e) Best practices in Governance and Leadership

The QUALITY system of KARE describes the quality management system adopted and implemented in the Institution. The quality system consists of Quality Manual and Quality Procedures which are as per the requirements of International Standards ISO 9001: 2000 (E) and are necessary for implementing the quality system effectively. The best practices followed at KARE are:

- All administrative and academic processes are well defined on the lines of ISO 9001 (2000E)
- All the processes focus on customer requirement and satisfaction
- Decentralized and participative management through planning forum cells (28 cells covering all Academic & Administrative activities)
- Leadership focus on academic excellence and team work
- Regular meetings of statutory bodies and followup of actions
- Well structured staff recruitment process ensuring merit and transparency
- Performance appraisal system followed for both teaching and non-teaching staff
- Faculty Development Programs organized by Centre for Learning Technologies and outside agencies including Wipro Mission 10X, Microsoft, and ICT Academy.
- Extensive use of ICT by faculty members for teaching learning process
- Involvement of stake holders in decision making process.

f) Integration of soft skills requirement into curriculum

In order to make the students ready for industry, from day-one of their joining, courses are organized for the students to improve their learning skills and communication skills.

In addition to the regular academic courses relevant to their programme of study, the students of KARE are supposed to earn credits from the co- and extracurricular activities which come under the Non-CGPA courses, namely; NSS, NCC, Sports, Industrial Training, and International Certification programs In-built dynamism in curriculum

The Curriculum of KARE is on the basis of Choice Based Credit System with wide range of elective options to the students and it is highly flexible to cater the needs of the differently-abled students. The curriculum facilitates the teaching learning process from teacher-centered to student-centered. The student can plan his/her own academic load and study the courses accordingly. The student at KARE is entitled not only to register a course of his/her choice but also to choose a teacher and/or a class of his/her likings.

g) Freshman Induction Program

Freshman Induction Program is organized by experts from different consulting agencies. The objective of the program is to enrich their English knowledge, communication skills, body language and other survival skills. This program enables smooth transfer from school to University.

## h) Promotion of research

Faculty members of the University are encouraged to carryout research in their chosen field. The following schemes have been introduced to promote the research activities in the University.

- Professional Development Allowance (PDA) based on the designation of the faculty.
- Financial assistance to faculty members for presenting papers in conferences and seminars.
- Early promotion to faculty members who are completing their Ph.D.
- Seed money to faculty members who are working on cutting edge technologies to develop the necessary infrastructure.
- Ten percent of the overall Annual budget of the University for R&D activities.
- Seed money for organizing Conferences and Seminars.
- Senior Professors appointed exclusively for research.
- Inviting Professors from abroad for short-term research visits.

## i) International Advisory Committee

## j) Centre for Learning Technologies

## k) Blend of Academic, Industrial and Research Expertise

KARE faculty have a good blend of academic, industrial and research expertise.

## l) Transparency in Evaluation

In KARE the evaluation system is made 100% transparent. After every examination, the evaluated answer books along with the answer key are shown to all students. The students are permitted to refer to the answer book. In case of any grievance, the student can make representation to the concerned faculty or the Class Committee or the Dean (Academic) for redressal.

**41. Linkages developed with National/International, Academic/Research bodies:**

Linkages were developed with the following Universities and Research Centres during the academic year 2011-12.

S. No.	Department	Name of University/Research Centre	Nature of Linkages
1.	Computer Science and Engineering N-CARDMATH	Ball State University	Faculty Exchange
2.	n-CARDMATH	Liverpool Hope University, UK	Faculty exchange to the newly established center for advanced mathematics
3.	Kalasalingam University	HEIG-VD, Switzerland	Joint Research
4.	Kalasalingam University	Central Leather Research Institute, Chennai	Collaborative Research



**42. Action Taken Report on the AQAR of the previous year:**

Outcome based on the plans for the academic year 2011-12 is mentioned in Part A.

- i. Departments were requested to identify the interdisciplinary areas for forming new courses.
- ii. All faculty with Ph.D. were encouraged to submit research projects for funding from various agencies. They were also advised to collaborate with other institutions.
- iii. Institutional support was given for identifying the research areas and starting the research work.
- iv. Faculty members were advised to publish research papers only in scopus cited journals.
- v. Financial support was given for organizing Faculty Development Programs and conferences by the Departments.
- vi. Estate Office was given funds for campus beautification and for use of renewable energy.
- vii. Alumni Association organized meetings with Alumni members in Chennai and Coimbatore. Meetings are also planned in Bangalore and Hyderabad.
- viii. Departments were instructed to form the Department-level IQACs and to include student members in the IQAC.

**43. Any other relevant information the institution wishes to add:**

IQAC meetings were conducted periodically during the academic year 2011-12.

S. No.	Meeting	Date
1.	1 <sup>st</sup> IQAC meeting	3 <sup>rd</sup> Oct. 2011
2.	2 <sup>nd</sup> IQAC meeting	30 <sup>th</sup> Nov. 2011
3.	3 <sup>rd</sup> IQAC meeting	19 <sup>th</sup> March 2012
4.	4 <sup>th</sup> IQAC meeting	29 <sup>th</sup> June 2012

PART-C

Plans of the institution for the next year

1. Establishing Department-level IQACs.
2. Establish at least two faculties to provide all-round education in the areas such as Arts, Social Sciences, Commerce, Performing Arts, Education, Law, etc.
3. Adding more than `50 Lakhs worth of research projects.
4. Promoting faculty exchange programs with national and foreign universities.
5. To strengthen the collaborative research works with national laboratories like CSIR and DRDO labs.
6. Targetting not less than 100 International Journal publications.
7. Setting up of Technology Business Incubator at KARE.
8. Strengthening Faculty Development Programs by organizing programs focusing on Leadership Development, Curriculum Development, and Social Relevance.
9. Organising skill development programs for non-teaching staff members.

10. Organizing six National Level Conferences / Seminar at KARE with support from funding agencies, association with Professional Societies, and publication of proceedings by reputed publishers.
11. Increase the interaction with the alumni for their support.
12. Conduct of one national-level sports/cultural event at KARE.
13. Supplementing teaching-learning processes through effective use of ICT portal.
14. Conduct regional/national level seminar/workshop on Quality in Higher Education with support from NAAC.

Prof. Sudhakar Gummadi  
DIRECTOR – IQAC

Dr. M. Venkatesulu  
Vice Chancellor &  
CHAIRMAN - IQAC