

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

ANNUAL QUALITY ASSURANCE REPORT FOR ACADEMIC YEAR 2010-2011

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. Increase the soft infrastructure facility by providing ICT enabled learning facilities
2. Initiate process for getting FIST status for atleast two more departments.
3. Create research facilities and increase the number of external funded projects
4. Provide WiFi connectivity to the new academic blocks and new hostels
5. Increase the number of placements by providing more support for students training in softskills
6. Create an e-management portal for all academic activites of the institute.
7. Increase the number and improve the quality of conferences organized.
8. Forge more research collaborations with Universites and National Laboratories.
9. Offer inter-disciplinary courses as per the needs of the industries.
10. Enhance stakeholders' participation in decision making process wherever appropriate
11. Conduct quality audit of question papers and teaching-learning process for Quality Assurance.
12. Motivate students for participation in co- and extra-curricular activites.

PART B

1. Activities reflecting the goals and objectives of the Institution

Goals and Objectives of the Institution:

Kalasalingam 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 promote 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 its existence of four years, it has started a six year integrated B.Tech program for Speech and Hearing Impaired students, a unique programme in the whole of Asia.

In addition to nine UG degree programs, KARE offers 18 Post-Graduate programmes leading to Master of Technology Degree in various areas including Biotechnology, Nanotechnology and Information Technology. It has also started Post-Graduate and Research programs in the inter-disciplinary areas, like Pharmaceutical Biotechnology, Information Assurance and Security, Bioinformatics, Materials Science, and Environmental Engineering.

Courses offered by KARE during the academic year 2010-11 are listed below:

<p>UG Courses <u>B.Tech.</u> – Biotechnology – Civil Engineering – Computer Science & Engg. – Electronics & Comm. Engg. – Electrical & Electronics Engg. – Electronics & Instrumentation Engg. – Information Technology – Mechanical Engineering</p> <p><u>6-year Integrated B.Tech. program</u> for Speech and Hearing Impaired Persons</p> <p>PG Courses <u>M.Tech.</u> – Automotive Systems Engg. – Biotechnology – CAD/CAM – Computer Applications – Computer Science & Engg. – Control & Instrumentation Engg. – Digital Comm. & Networking – Information Assurance & Security</p>	<ul style="list-style-type: none"> – Embedded Systems Technologies – Energy Engineering – Information Technology – Nano-Technology – Network Engineering – Pharmaceutical Biotechnology – Power Systems Engg. – VLSI Design – Environmental Engineering – Power Electronics and Drives <p><u>MBA</u> Marketing/Finance/HR/Banking & 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>Ph.D. Programs offered by all departments</p>
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The courses planned are 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.

Three programs in the Under-graduate level and three programs in the Post-graduate level are approved and are introduced from the academic year 2011-12. 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 155 research scholars are pursuing their research at KARE in various areas.

All Research scholars publish articles in impact factor journals.

22 sponsored research projects are currently being carried out at KARE other than the 6 projects that are completed in the academic year 2010-11.

International and National conferences are conducted by the departments.

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

In addition to Department of Instrumental and Control Engineering obtaining the DST-FIST grant earlier, Department of Mechanical Engineering has obtained the DST-FIST grant in this academic year. The departments of Biotechnology, and Electrical and Electronic Engineering have applied for DST-FIST grant in June 2011.

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 10 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 course ware, providing WiFi access, utilization of e-learning portal.

Formulation of the IQAC done as per the recommendations of NAAC.

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

Apart from imparting academic skills, the university Entrepreneurship Development Cell (EDC) gives training to promote entrepreneurial activities. This centre is established with the funding of ` 8.00 lakhs from Dept. of Science and Technology, Govt. of India. It also 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, three programs at UG level and two at PG level were formulated and would be offered from the academic year 2011-12.

- a. B.Tech. (Automobile Engineering)
- b. B.Tech. (Food Technology)
- c. M.Tech. (Industrial Safety Engineering)
- d. M.Tech. (Construction Engineering and Management)
- e. B.Ed (SHIP)

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 103 subjects, feedback on curriculum updation was taken from 415 students.
- c. Increased number of visiting faculty from industries and research organizations. Eighteen visiting faculties were appointed in the year 2010-11.
- d. 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 2010-11
1	Free Electives	38
2	Major Electives	59
3	Minor Electives	26
4	Humanities Electives	14
5	Self Study Electives	25

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

4. Inter-disciplinary programmes started:

B. Tech (Food Technology) is an inter-disciplinary course that is formulated and offered from the academic year 2011-12 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 (NET/SLET/GATE/CAT, etc.)	No. of students qualified
1.	GATE	64
2.	MAT	1
3.	CAT	2
4.	GMAT	4

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 79 Faculty Development Programs in the academic year 2010-11.

(a) FDPs attended by faculty:

S. No.	Name of the Faculty	Programme	Organized by
1.	Mr.K.Somasundaram	Faculty Development Program on NPTEL programme.	PSG Technology, Coimbatore.
2.	Ms.M.Subbulakshmi	Faculty Induction Program 2010	KARE
3.	Ms.M.Jansi Rani		
4.	Ms.M.T. Sivakamiselvi		
5.	Ms.K.Kiruthika		
6.	Mr.M.Raja		
7.	Mr.P.Manikandan	Multi-core Programming for Academia.	ICT Academy of Tamil Nadu at Saranathan College of Engg and Tech
8.	Mr.A.Muthukumar	Analog –mixed signal and digital design using Cadence tools	ICT Academy of Tamil Nadu at PSY Engineering College
9.	Ms.R.Sumathy		
10.	Mr.T.Senthil	Introduction to NPTEL Courses	PSGTech, Coimbatore
11.	Ms. N. Karpagam	“Capacity Building Woman Manager in Higher Education”	Mother Theresa University, Kodaikanal
12.	Mr. P. Duraipandy	FDP on “Research Issues in Electrical Engineering”	Vellamal Engineering Madurai
13.	Dr. T. G. Merly	Teacher Support Programme	British Council at KARE
14.	Mrs. C. GangaLakshmi		
15.	A. Prem Anandhi		
16.	Mr. R. Naganathan		
17.	Ms. Benita		
18.	Mr. K. Kumaresan		
19.	Miss. K. Abilasha		
20.	Miss. C. Sudha		
21.	Miss. S. Jeya Chitra		
22.	Miss. S. Suganya		
23.	Ms. B. Malathi		
24.	Ms. K. Raja Lakshmi		
25.	Mr. Hari Hara Sudan		

26.	Ms.T.Mercy Christial	Exploring various engineering tools in Linux	Anand Institute of Higher Tech.,Chennai
27.	Ms. KH Susila Devi		
28.	Ms. T. Raja Sree	Faculty Induction Programme	KARE
29.	Ms. J. Varalakshmi		
30.	Mr. K. Vaikundamoorthy	Instructional Workshop on Mathematical Modeling and Simulation	n-CARDMATH, KARE
31.	Dr. K. Muthugurupackiam		
32.	Ms. M. Prasanna Jeyanthi		
33.	Ms. L. Sathikala		
34.	Ms. M. Usha		
35.	Mr. T. Manimaran		
36.	Mr. K. Easwaran		
37.	Mr. N. Vairavasamy		
38.	Ms. A. Geethalakshmi		
39.	Ms. S. Kaleeswari		
40.	Ms. M. Radha		
41.	Ms. P. Valli		
42.	Mr. A. Santhanamahalingam		
43.	Ms. T. Rathika		
44.	Ms. B. Raja Bharathi		
45.	Ms. K. A Kanaga Jothi		
46.	Ms. R. Sumathi	IBM Rational Application Developer Workshop	IBM Training Centre, Chennai at KARE
47.	Ms. P. Vidhyasaraswathi		
48.	Mr. M. Arun		
49.	Ms. K. Anusha		
50.	Ms. G. Thenmozhi	Moodle e-Learning Portal	TIFAC-CORE, KARE
51.	Ms. S. Rojathai		
52.	Ms. R. Nalayini		
53.	Mr. R. Ramprasath		
54.	Mr. V. T. Kesavan	"High Impact Teaching Skills"- Mission 10X	Wipro Technologies at KARE
55.	Ms. P. Vidhyasaraswathi		
56.	Ms. S. Rojathai		
57.	Mr. M. Muthu Kannan		
58.	Mr. P. Balamurugan		
59.	Dr. A. Muthukumaran		
60.	Mr. B. Balamurugan		
61.	Mr. R. Kasimani		
62.	Dr.A.Murugan		
63.	Ms. P. Muthulakshmi		
64.	Ms. B. Krishnakumari		
65.	Mr.B.PitchaiManickam		
66.	Mr.S.Sankaranarayanan.		
67.	Ms.S.SivaRanjani		
68.	Dr.S.Kannan		
69.	Ms. R. Narmatha Banu		
70.	Mr.Ponnayirasundravel		
71.	M.Thilagaraj		
72.	Ms.T.Mercy Christial		
73.	Ms.G.Seethalakshmi		
74.	Ms. KH Susila Devi		
75.	Dr. K. Karuppasamy		
76.	Ms.B.Shanmuga Priya	Case writing and presentation	K C E, Coimbatore
77.	Mr.N.Muthukumar	Art of Writing Research Article in Commerce & Management	Bharathidasan University
78.	Mr.N.Muthukumar	SPSS on Research Methodology	PSG Institute of Mgmt., Coimbatore
79.	Mr. V.P.Sriram	Entrepreneurship Development	Technopark, Thiruvananthapuram

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 2010-11 are mentioned below:

S. No.	Events	Total Numbers
1.	International Conferences	4
2.	National Conferences	7
3.	Workshops and Seminars	55
5.	Technical Symposia	7

a) Conferences – International:

S. No.	Event Details	Sponsoring Agencies	Total Amount Sponsored in `	Total No. of participants	No. of Countries from which participants attended
1	International Conference on Biotechnology for a Better Life Nov. 15-16, 2010	IBRSI CSIR BRNS	50,000	476	10
2	International Conference on Advanced Materials and its Applications (ICAMA-2011) March 4-5, 2011	DRDO CSIR BRNS	1,80,000	450	7
3	International Conference on Thermal Energy and Environment (INCOTEE'11) March 24-26, 2011	CSIR DRDO INSA AERB	1,80,000	247	9
4	2 nd International Conference on Globalisation and Consumer Protection (ICGCP'11)	IIPA	1,50,000	285	5

b) Conferences – National:

S. No.	Event Details	Sponsoring Agencies	Total No. of participants	No. of States from which participants attended
1.	National Conference on Emerging Trends in Civil Engineering (NCONET - 11), March 11, 2011	ISTE IEI	550	1
2.	National Conf. on Advancement and Future Trends in VLSI Design (NCVD 2011), March 30-31, 2011	ISRO CSIR National Instruments	44	6
3.	Third National Conference on Power & Energy Systems - NPES'11, March 18-19, 2011	DRDO	300	4
4.	NCICCA'2011, April 8, 2011	ISoI	50	3
5.	National Conf. on Advanced computing March 9, 2011	-	30	2
6.	National conference on Luminescence, February 11, 2011	-	200	6
7.	National Conference on Intelligent Techniques in Control, Optimization and Signal Processing INCOS'11	IEEE	56	2

c) Seminars/Workshop:

S.No.	Name of the Event	Conducted on		No. of participants
		From (dd/mm/yyyy)	To (dd/mm/yyyy)	
1.	Science day celebrations	28/02/2011		470
2.	Workshop -on PCR Cloning and Analysis of Recombinant	15/10/2010	17/10/2010.	55
3.	Workshop on “Analytical Techniques in Bioprocess Industries	15/10/2010	17/10/2010	48
4.	Workshop on Neural Networks for Image Processing	4.02.2011	5.02.2011	58
5.	Engineers Day	15/09/2010		780
6.	Workshop on Ethical Hacking	18/09/2010		150
7.	Workshop on Open Source Technology	25/09/2010		450
8.	Digitech'11	04/02/2011		360
9.	Workshop on Hypertext Pre-processor	18/02/2011		135
10.	Workshop on Software Testing	18/02/2011		70
11.	Workshop on Image and Video Processing	24/10/2010		45
12.	Workshop on Signals and Systems	24/05/2010	26/05/2010	45
13.	Seminar on Channel Allocation in Networks	05/02/2011		180
14.	Seminar on Positive Thinking	28/01/2011		180
15.	Seminar on Optical Commnication	02/11/2010		180
16.	Seminar on DSP with FPGA	29/10/2010		180
17.	Seminar on Artificial Neural Networks	28/10/2010		180
18.	Seminar on Students Motivation Program	28/10/2010		180
19.	Seminar on Skill gaps of Entry Level Engineers	25/10/2010		180
20.	Seminar on Recent Trends in Wireless Communication	22/10/2010		180
21.	Seminar on Aptitude and Attitude Knowledge	22/10/2010		180
22.	Seminar on Super Ionic Conductors and its applications on battery, fuel cells and biosensors	06/10/2010		180
23.	Seminar on Smart Antennas	17/09/2010		180
24.	Seminar on Recent trends in Wireless Technologies	13/09/2010		180
25.	Seminar on How to attend Group Discussion and Interview	27/08/2010		180
26.	Seminar on Theory and application of Non Linear optical systems	13/08/2010		180
27.	Seminar on Under Water Robotics & Higher Study Opportunities in USA	30/07/2010		180
28.	Energy Auditing Workshop	08/10/2010	09/10/2010	50
29.	Energy Auditing Workshop	29/10/2010	30/10/2010	50

30.	Sustainable Renewable Energy for Future	27/07/2010		250
31.	Reactive Power Compensation & Planning	18/08/2010		250
32.	Science and Spirituality	27/10/2010		250
33.	Energy Auditing	29/08/2010	30/08/2010	250
34.	Power Plant Engineering	20/10/2010	21/10/2010	250
35.	Power Electronics Applications in Electrical Drives	08/02/2011		250
36.	English Language in the Digital Age	25/02/2011		150
37.	Workshop on “Matlab for Intelligent Control System using Matlab	14/08/2010	15/08/2010	50
38.	Workshop on Linear System Design & Image Processing	04/09/2010	05/09/2010	50
39.	Digital design using VHDL and Verilog	01/04/2011		37
40.	Web Application Development (Workshop)	16/09/2010		250
41.	Workshop on Grid Computing	06/10/2010		225
42.	Workshop on Google Technologies	30/10/2010	31/10/2010	250
43.	Workshop on Web Development	05/02/2011		200
44.	Workshop on Storage Management	22/02/2011		220
45.	Instructional Workshop on Mathematical Modeling and Simulation	07/07/2010	14/07/2010	60
46.	One Day National Workshop on “Research Trends in Grid Computing”	13/03/2010		490
47.	One day Workshop on "Employability Skills and Project Internship"	24/02/2011		158
48.	Workshop on Luminescence and its applications	12/02/2011		125
49.	TQM practices in IndoShell Cast (P) Ltd.	07/08/2010		328
50.	Quality and Non Destructive Testing	16/08/2010		III Year
51.	Industrial Safety	21/09/2010		III Year
52.	From Horsepower to Horsepower	27/09/2010		II Year & III Year
53.	Material Characterization Techniques	15/10/2010		III Year & IV Year
54.	HR Conclave	5.02.2011		All MBA
55.	Statistical Package for the Social Sciences (SPSS)	25.02.2011	27.02.2011	All MBA

d) Technical Symposium:

S.No.	Name of the Event	Dates	No. of participants
1.	ISTE sponsored “National Level Technical Symposium on ASTHIVAAR”	October 23, 2010	550

2.	Digital Dreams' 11,	March 30-31, 2011	1400
3.	ENIAC'10	September 23-24, 2010	268
4.	One day National level Technical Symposium- SOFTNIVAL '11	March 16,2011	85
5.	Symposium Revelation	April 17-19, 2011	120
6.	TRANS-MISSION'10	October 29, 2010	320
7.	One day National level Technical Symposium- SOFTNIVAL '11	March 16, 2011	85

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

A total of 23 sponsored research projects of ₹ 5,20,71,650 are being executed during the academic year 2010-11.

a) Ongoing research projects:

S. No	Title	Principal Investigator	Funding Agency	Date of sanction (dd/mm/yy)	Total Cost
1.	Molecular Mechanism of Vascular Permeability in Diabetic Retinopathy: PEDF is an anti-permeability agent	Dr. G. Sangiliyandi Dept. of Bio-Technology	DBT	10/01/2008	23,20,000
2.	Studies on Molecular Mechanism of Erythropoietin in Diabetic Retinopathy	Dr. G. Sangiliyandi Dept. of Bio-Technology	DST	22/01/2008	12,36,000
3.	Scale-up of polyhydroxyalkanoate production from indigenous isolates and its applications	Dr. G. Sangiliyandi Dept. of Bio-Technology	DBT	09/01/2009	16,13,000
4.	Biosynthesis and Characterization of Silver Nanoparticles - a Potential New Therapeutic Approach	Dr. G. Sangiliyandi Dept. of Bio-Technology	CSIR	07/10/2009	25,17,000
5.	Gold Nano particles: Burgeoning Therapeutic molecules for Proliferative Diabetic Retinopathy.	Dr. G. Sangiliyandi Dept. of Bio-Technology	DST	04/10/2010	41,00,000
6.	New Deviation parameter methods to predict secondary structure of protein from amino acid sequences	Dr. S. Arul Mugilan Dept. of Bio-Technology	DST	17/08/2009	17,88,000
7.	“Bacteriophage-A novel vehicle for delivering HIV CTL epitopes”	Dr. K. Sundar Dept. of Bio-Technology	DRDO	02/02/2009	14,98,200
8.	Rain gauge network design to improve rainfall estimation for sustainable planning of water resources in river basin	Dr. C. Sivapragasam Dept. of Civil Engg.,	CSIR	05/04/2009	5,50,000
9.	Combinatorial Optimization in Packing Problems Specific to VLSI Design	Dr. P. Subbaraj Dept. of Electronic and Comm. Engg.,	DST	18/09/2009	9,94,000
10.	Development of Hybrid Meta heuristic Algorithms for Solving Power System Operation Planning under Deregulated Environment	Dr. S. Kannan Dept. of Electronic and Comm. Engg.,	DST	18/09/2009	9,97,000
11.	FIST	Dr.K.Valarmathi	DST	Jan 2010	65,00,000
12.	Graph Theory and Combinatorial Computing with Industrial and Engineering Applications – Core Group Research Facility (CGRF), National Center for	Dr. S. Arumugam Dept. of Mathematics	DST	25/04/2007	1,67,72,000

	Advanced Research in Discrete Mathematics (<i>n</i> -CARDMATH)				
13.	Domination in Graphs – Theory, Algorithms and Applications	Dr. S. Arumugam Dept. of Maths	NBHM	07/07/2009	8,35,150
14.	Saturation of Graph Parameters	Dr. A.Thuraiswamy Dept. of Maths	DST	22/04/2008	10,07,400
15.	High Throughput Crystallography	Dr. S. Selvanayagam Dept. of Maths	DST	Nov'2009	7,32,000
16.	Rare earth doped nano crystalline olivine phosphate cathodes for high voltage lithium ion batteries	Dr.G.Hirankumar Dept. of Physics	BRNS	20/07/2010	17,60,000
17.	Study of Interface problems associated with coupled ordinary differential equations	Dr.M.Venkatesulu Dept. of Computer Applications	DST	04/08/2011	9,74,400
18.	Investigation on mechanical properties of naturally woven coir sheath/nano clay reinforced hybrid composite	Dr. J.T. Winowlin Jappes Dept of Mech. Engg.,	DST Fast track	10.06.2010	14,00,700
19.	Investigation of Effect of Conjugate Heat Transfer from a series of Zig Zag Blocks Mounted over a Flat Surface in a Confined Environment.	Dr. P. Rajesh Kanna Dept of Mech. Engg.,	DST Fast track	31.03.2010	15,38,400
20.	Experimental Investigations on the Characteristics of Supersonic Flow Past Axisymmetric Cavities	Dr. S.Jeyakumar Dept of Mech. Engg.,	DST Fast track		16,00,000
21.	Cell Formation Using Graph Theory In Cellular Manufacturing System	Dr. P. Venkumar Dept of Mech. Engg.,	DST	05.06.2009	9,56,400
22.	A structural model in measurement of SQ in railways and hospitals.	S.Rajaram Dept. of Business Administration	IIPA	04.04.2010	3,82,000
23.	An empirical study on the intention to visit cultural heritage site-Rameshwaram south India.	S.Yavana Rani Dept. of Business Administration	ICSSR	25.01.2011	3,92,375

b) Completed Projects:

Six sponsored research projects of ` 51,20,740/- are completed and closed in the academic year 2010-11.

S. No.	Title	Principal Investigator	Funding Agency	Date of sanction (dd/mm/yyyy)	Total Cost
1.	Studies on Molecular mechanism of Vascular endothelial growth factor and pigment epithelium derived factor in diabetic retinopathy	Dr. G. Sangiliyandi Dept. of Bio-Technology	ICMR	53/05/2006-BMS	17,00,000
2.	Multilevel multi criteria optimization of water specialty expansion planning	Dr. C. Thangaraj Dept. of Civil Engg	DST	06/06/2007	9,90,720
3.	Development of Hybrid Metaheuristic Algorithms for solving power system operation planning under Deregulated Environment	Dr. S. Kannan Electrical and Electronic Engg	DST-(<i>n</i> -CARDMATH)	16/05/2007	9,90,720
4.	Remote patient monitoring system using wireless sensor network	Dr. M. Pallikonda Rajasekaran Dept. of EIE	AICTE	Dec 2009	3,50,000
5.	Solution of boundary value coupled nonlinear ordinary differential equations	Dr.M.Venkatesulu Dept. of Computer Applications	DST	02/05/2006	7,94,300
6.	Quality of worklife among women employees in public and private sector.	S.Sakthivel Rani Dept. of Business Administration	ICSSR	03.01.2009	2,95,000

10. Patents generated, if any:

S. No.	Title of the Patent	Country patented in	Patented on	Patent No.
1.	Screw drives vehicles with suspension and steering mechanism to be used for agricultural purposes.	India	25/03/2011	949/CHE/2011 (Application no)
2.	Screw drives vehicles with suspension and steering mechanism to be used as a toy.	India	25/03/2011	950/CHE/2011 (Application no)
3.	Funnel with inbuilt passage for air to pass out without disturbing flow of liquid.	India	25/03/2011	948/CHE/2011 (Application no)

11. New Collaborative Research Programmes: (Projects currently in progress to be considered)

17 collaborative research programmes are currently in progress.

S. No.	Principal Investigator	Title	Collaborative agency	Country
1.	Dr. G. Sangiliyandi	Diabetic Retinopathy	Dr. Tim Curtis Queen University, Belfast, Northern Ireland, UK	Northern Ireland, UK
2.	Dr. G. Sangiliyandi		Prof. Dr. rer. nat. Olaf Strauss University Regensburg, Germany	Germany
3.	Dr. G. Sangiliyandi		Dr. Gowri Shankar Center for Disease Control, Atlanta, USA	USA
4.	Dr. G. Sangiliyandi		Dr. Eric Vives IRCM, Universit'e Montpellier, France	France
5.	Dr. G. Sangiliyandi	Diabetic Retinopathy	Dr. Soo Hyun Eom Gwangju Institute of Science and Technology, South Korea	Korea
6.	Dr. G. Sangiliyandi	Diabetic Retinopathy	Dr. Jongsun Park Chungnam National University, South Korea	South Korea
7.	Dr. G. Sangiliyandi		Dr. Pin Ju Chueh National Chung Hsing University, Taiwan	Taiwan
8.	Dr. G. Sangiliyandi	Diabetic Retinopathy	Dr. Mike O Karl Center for Regenerative Therapies, Dresden, Germany	Germany
9.	Dr. G. Sangiliyandi	Cancer biology	Dr. Sivasubramiyam Nottingham Trent University, UK	UK
10.	Dr. S. Mohanraj	Plant cell engineering	Dr. Lee Pusan National University, South Korea.	Korea.
11.	Dr. Siva Subramanian	Plant	St. Laurent Institute, USA	USA

		Glutamate Receptors		
12.	Dr. C. Sivapragasam	Spatial modeling of Electrical Conductivity with Neural Network	JCU University	Australia
13.	Dr. C. Sivapragasam	Prediction of algal blooms using genetic programming	Victoria University	Australia
14.	Dr. S. Armugam	Centre for Applicable Mathematics and Systems Science (CAMSS)	Liverpool Hope University, Liverpool,	UK
15.	Dr.M.Uthayakumar	Experimentation on Machining and Materials	India Pitons Ltd, Chennai	India
16.	Dr. P. Rajesh Kanna	CFD	National Taiwan University of Science and Technology.	Taiwan
17.	Dr. R. Sudhaharapandian	Optimisation technique	Technical University of Kosice.	SLOVAK REPUBLIC

12. Research grants received from various agencies:

Twelve research grants to the total amount of ` 2,49,16,600 were received during the academic year 2010-11

S. No.	Project title	Principal Investigator	Funding Agency	Total sanctioned amount	Project Duration	Date of sanction
1.	Molecular Mechanism of Vascular Permeability in Diabetic Retinopathy: PEDF is an anti-permeability agent	Dr. G. Sangiliyandi	DBT	23,20,000	3 years	10/01/2008
2.	Studies on Molecular Mechanism of Erythropoietin in Diabetic Retinopathy	Dr. G. Sangiliyandi	DST	12,36,000	3 years	22/01/2008
3.	Scale-up of polyhydroxyalkanoate production from indigenous isolates and its applications	Dr. G. Sangiliyandi	DBT	16,13,000	3 years	09/01/2009
4.	Biosynthesis and Characterization of Silver Nanoparticles - a Potential New Therapeutic Approach	Dr. G. Sangiliyandi	CSIR	25,17,000	3 years	07/10/2009
5.	Gold Nano particles: Burgeoning Therapeutic molecules for Proliferative Diabetic Retinopathy.	Dr. G. Sangiliyandi	DST	41,00,000	3 years	04/10/2010

6.	New Deviation parameter methods to predict secondary structure of protein from amino acid sequences	Dr. S. Arul Mugilan	DST	17,88,000	3 years	17/08/2009
7.	Bacteriophage-A novel vehicle for delivering HIV CTL epitopes	Dr. K. Sundar	DRDO	14,98,200	3 years	02/02/2009
8.	FIST	Dr.K.Valarmathi	DST	65,00,000	5 years	Jan 2010
9.	Study of Interface problems associated with coupled ordinary differential equations	Dr.M.Venkatesulu	DST	9,74,400	3 years	04/08/2011
10.	Solution of boundary value coupled nonlinear ordinary differential equations	Dr.M.Venkatesulu	DST	7,94,300	3 years	02/05/2006
11.	Investigation on mechanical properties of naturally woven coir sheath/nano clay reinforced hybrid composite	Dr. J.T. Winowlin Jappes	DST Fast track	11,00,700	3 years	10.06.2010
12.	Investigation of Effect OF Conjugate Heat Transfer from a series of Zig Zag Blocks Mounted over a Flat Surface in a Confined Environment.	Dr. P. Rajesh Kanna	DST Fast track	4,75,000	3 years	31.03.2010

13. Details of Research Scholars:

About 155 research scholars are pursuing the research in KARE. Details are mentioned below:

Male Scholars: 112
 Female Scholars: 43
 Total: 155

a) Current research scholars:

S. No.	Name of Research Scholar	Area of Research	Name of Guide
1.	Ms. E. Banumathi	Molecular and cellular Biology	Dr. G. Sangiliyandi
2.	Mr. S. Sheik Pran Babu	Molecular and cellular Biology	Dr. G. Sangiliyandi
3.	Mr. R. Haribalaganesh	Molecular and cellular Biology	Dr. G. Sangiliyandi
4.	Ms. L. Harini	Molecular and cellular Biology	Dr. G. Sangiliyandi
5.	Mr. B. Karthikeyan	Molecular and cellular Biology	Dr. G. Sangiliyandi
6.	Mr. R. Kasimani	Microbiology	Dr. K.Sundar
7.	Mr. M. Kalusalingam	Microbiology	Dr. H. Nellaiah
8.	Mr. G. Vinothapooshan	Pharma ceutical Biotechnology	Dr. K.Sundar
9.	Ms. V. Vijayalakshmi	Environmental Biotechnology	Dr. Mohan raj
10.	Mr. V.Deepak	Molecular and cellular Biology	Dr. G. Sangiliyandi
11.	Mr. S. Ram Kumar Pandian	Molecular and cellular Biology	Dr. G. Sangiliyandi
12.	Mr. K. Kalishwaralal	Nano bio technology	Dr. G. Sangiliyandi
13.	Mr. A. S. William Arputha Sundar	Environmental Biotechnology	Dr. H. Nellaiah
14.	Ms. M. Ajitha	Bioinformatics	Dr. S. Arul Mugilan
15.	Mr. N. R. Livingston Raja	Pharmacology	Dr. K. Sundar
16.	Mr. M. Manikandan	Immunology	Dr. K. Sundar

17.	Ms. Kruthika	Marine Biotechnology	Dr. A. Muthukumar
18.	Mrs. L. Muthulakshmi	Industrial Biotechnology	Dr.S.Mohan Raj.
19.	Mr. K.Lingadurai	Nano Technology	Dr.M.Kottaisamy
20.	Ms. B.S.Prathibha	Meterial Sciences	Dr.P.Kotteeswaran
21.	Ms. S. Sundaranathavalli	Helrbal Durgs	Dr.C.C.Christopher
22.	Mr. Bibin Mathew Cherian	Nano Technology	Dr.M.Kottaisamy
23.	Mr. Gejo George	Nano Technology	Dr.E.R.Nagarajan
24.	MS. G.Kanthimathi	Nano Technology	Dr.M.Kottaisamy
25.	Mr. M.Thomas	Meterial Sciences	Dr.A.Kulandaisamy
26.	Mr.Nazia Shamsudeen	Nano Technology	Dr.E.R.Nagarajan
27.	Ms. T.Kavitha	Environmental science	Dr.P.Thillai Arasu
28.	Ms. R.Sudha Devi	Environmental Chemistry	Dr.K.Ananthakumar
29.	Ms. P.Siva Ranjana	Environmental Chemistry	Dr.K.Ananthakumar
30.	Ms. L.Jayalakshmi	Environmental Chemistry	Dr.V.Devadas
31.	Mr. C.R.Ravikumar	Physical Chemistry	Dr.P.Kotteswaran
32.	Mr. K.Sirajudeen	Physical Chemistry	Dr.P.Thillai Arasu
33.	Mr. P.Kamalarajan	Meterial Sciences	Dr.P.Thillai Arasu
34.	Mr. S.Kumarasamy	Environmental Chemistry	Dr.E.R.Nagarajan
35.	Mr. K.Karpagavel	Physical Chemistry	Dr.A.Manohar
36.	Mr. M.Paramaguru	Physical Chemistry	Dr.A.Murugan
37.	Ms. P.Manorama	Bio-Chemistry	Dr.R.IIavarasi
38.	Mr. S.N. Ramaswamy	Industrial Safety	Dr. T. Sekar
39.	Mr. N. Suresh kumar	Meterial Sciences	Dr. T. Sekar
40.	Mr. N. Ganesan	Meterial Sciences	Dr. T. Sekar
41.	Mr. PL. Meyyappan	Tsunami Resistant Structures	Dr. T. Sekar
42.	Mr. P. Mahadevan	Water Resource Management	Dr. C. Thangaraj
43.	Mr. S.Murugan	Bio-Medical Instrumentation	Dr.S.Radhakrishnan
44.	Mr. N. Saravana Selvam	Active Networks	Dr.S.Radhakrishnan
45.	Prof. G.Sudhakar	Embedded Multiprocessors	Dr.S.Radhakrishnan
46.	Mr. J.Amutharaj	Overlay Networks	Dr.S.Radhakrishnan
47.	Ms. P.Deepalakshmi	Mobile Adhoc Networks	Dr.S.Radhakrishnan
48.	Mr. V.T. Kesavan	Sensor Networks	Dr.S.Radhakrishnan
49.	Mr. B.Jayaram	Graph Theory	Dr.S.Arumugam
50.	MS. R.Krisna priya	System Engineering	Dr.C.Thangaraj
51.	Ms. S.Siva Ranjani	Sensor Networks	Dr.C.Thangaraj
52.	Mr. K.Kartheeban	Security in Grid computing	Dr.M.Venkatesulu
53.	Mr. B. Pitchaimanickam	Wireless Sensor Networks	Dr.S.Radhakrishnan
54.	Mr. S Sankara Narayanan	Mobile Adhoc Networks	Dr.S.Radhakrishnan
55.	Ms. R.Ramalakshmi	Sensor Networks	Dr.S.Radhakrishnan
56.	Mr. R.Rajasekaran	Virtual Private Networks	Dr.V.Vasudevan
57.	Mr. P.J.Devanand	Cyber Security	Dr.V.Vasudevan
58.	Ms. S. S. Christal Mary	Cyber Security	Dr.M.P. Rajasekaran
59.	Ms. R.Murugeswari	wireless Networks	Dr.S.Radhakrishnan
60.	Mr. T.Senthil	Sensor Networks	Dr.S.Radhakrishnan
61.	Mr.P.Murugan	Transmission Expansion Planning	Dr.P.Subbaraj
62.	Mr.P.Sivaklumar	VLSI Physical Design	Dr.P.Subbaraj
63.	Mr.S.Anand	VLSI Design	Dr.P.Subbaraj
64.	Mrs.S.Dhanalakshmi	Generation Scheduling	Dr.S.Kannan
65.	Mr.A.Muthukumar	Biometric Image Processing	Dr.S.Kannan
66.	Mr.S.Suresh	Power Electronics	Dr.S.Kannan
67.	Mr. M.Syed Ahamed	Digital Signal Processing	Dr.S.Durairaj
68.	Mr. K.Rajakumar	Image Processing	Dr.T.Arivoli
69.	Mr.K.Suthendran	Digital Communication System	Dr.T.Arivoli
70.	Ms.K.Anish Pon Yamini	Energy Conservation in MANET	Dr.T.Arivoli
71.	Ms. S.Malini	Control Area Network	Dr.S.Durairaj
72.	Mr. T.Ramu	Biometric Image Processing	Dr.T.Arivoli
73.	Mrs R.Jeevajoithi	Power Systems	Dr.D.Devaraj
74.	Mrs.K.Punitha	Embedded Systems Applications	Dr.D.Devaraj

75.	Ms.B.Rampriya	Power Systems	Dr.K.Mahadevan
76.	Mr.M.Rajkumar	Power Systems	Dr.K.Mahadevan
77.	Mr.A.Tamilselvan	Power Systems	Dr.D.Devaraj
78.	Mr.S.P.Rajaram	Power Systems	Dr.S.Kannan
79.	Mr.A.Ram Kumar	Renewable Energy Generation	Dr.S.Durairaj
80.	Mr.J.Raja Kumar	Power Systems	Dr.S.Durairaj
81.	Mr.P.Durai Pandy	Artificial Neural Network	Dr.D.Devaraj
82.	Mr.S.Saravanan	Load Forecasting	Dr.C.Thangaraj
83.	Mr.K.Karthikeyan	Generation Expansion Planning	Dr.C.Thangaraj
84.	Mr.K.Asan Mohaideen	Intelligent Computing	Dr.K.Valarmathi
85.	Mr.B.Kannapiran	Intelligent Computing	Dr.P.Subbaraj
86.	Mr.S.Ramesh	Power System	Dr.S.Kannan
87.	Mr.G.Saravana Kumar	Control Systems	Dr.K.Valarmathi
88.	Mr. M. Sundarakannan	Graph Theory	S. Arumugam
89.	Mr. K. Raja Chandrasekar	Graph Theory	S. Arumugam
90.	Ms. L. Sathikala	Graph Theory	S. Arumugam
91.	Mr. B. Jayaram	Graph Theory	S. Arumugam
92.	Mr. M. Nalliah	Graph Theory	S. Arumugam
93.	MR. R. Anantha Kumar	Graph Theory	S. Arumugam
94.	Ms. N. Kamatchi	Graph Theory	S. Arumugam
95.	Mr. R. Lakshmanan	Graph Theory	S. Arumugam
96.	Ms. J. Saral	Graph Theory	S. Arumugam
97.	Ms. M. Usha	Statistics	S. Balamurali
98.	Mr. T. Manimaran	Graph Theory	A. Thuraiwamy
99.	Mr. N. Vairavasamy	Graph Theory	A. Thuraiwamy
100.	Ms. Radha. N.	Cryptography	Dr. M. Venkatesulu
101.	Ms. S. Rojathai	Data Mining	Dr. M. Venkatesulu
102.	Ms. P. Vidhya Saraswathi	Cryptography	Dr. M. Venkatesulu
103.	Ms. R. Vijayalakshmi	Grid Computing	Dr. V. Vasudevan,
104.	Mr. K. Kartheeban	Grid Computing	Dr. M. Venkatesulu
105.	Mr. Angadi U. B	Bio-Informatics	Dr. M. Venkatesulu
106.	Ms. Aruljothi	Cryptography	Dr. M. Venkatesulu
107.	Ms. D. Arockiya Vanitha	Bio-Informatics	Dr. M. Venkatesulu
108.	Mr. P. Illango	Data Mining	Dr. V. Vasudevan
109.	Mr. K.Sivaramamoorthy	Condensed matter Physics	Dr. S. Asath Bahadur
110.	Mr. A. Jahubar ali	X-ray Crystallography	Dr. S. Asath Bahadur
111.	Mr. V.Susindran	Condensed matter Physics	Dr. S. Asath Bahadur
112.	Ms. A. Chitra Devi	Condensed matter physics	Dr. S. Asath Bahadur
113.	Ms. R. S. Daries Bella	Condensed matter Physics	Dr. S. Asath Bahadur
114.	Mr. M.Suresh	Condensed matter Physics	Dr. S. Asath Bahadur
115.	Ms. D.Vanitha	Condensed matter Physics	Dr. S. Asath Bahadur
116.	Mr. M Prabu	Solid State Ionics	Dr. S. Selvasekarapandian
117.	Mr. S. Thangarasu	X-ray Crystallography	Dr. S. Asath Bahadur
118.	Ms. C. Ambika	Solid state ionics	Dr. G. Hirankumar
119.	Mr. A. Maheswaran	Biomaterials	Dr. G. Hirankumar
120.	Ms. N. Rajeswari	Battery materials	Dr. S. Selvasekarapandian
121.	Mr. S. Karthick prabhu	Battery materials	Dr. G. Hirankumar
122.	Mrs. B.Shanmuga priya	Marketing	Dr.M.Jeyakumaran
123.	Mr. V.Kumar	HR	Dr.M.Jeyakumaran
124.	Mr. V.P.Sriram	Marketing	Dr.S.Rajaram
125.	Mr. R.Sethuraman	Finance	Dr.M.Jeyakumaran
126.	Mr. P.S.Vijay Anand	Marketing	Dr.S.Sakthivel Rani
127.	Mr. P. Pitchipoo	Supply chain Management	Dr. P. Venkumar
128.	Mr. S. John Leon	Polymer Matrix composites	Dr. J.T. Winowlin Jappes
129.	Mr. I. Jerin Leno	Combinatorial Optimization	Dr. S. Saravanasankar
130.	Mr. M. Victor Raj	Optimization Techniques	Dr. S. Saravanasankar
131.	Mr. I. Siva	Composite Material	Dr. J.T. Winowlin Jappes
132.	Mr. K. Vinoth Babu	Composite Material	Dr. J.T. Winowlin Jappes

133.	Mr. K. Chandrasekar	Cellular Manufacturing Systems	Dr. P. Venkumar
134.	Mr. R K Samuel	Remote manufacturing system	Dr. P. Venkumar
135.	Mr. M. Edwin Sahayaraj	Composite Material	Dr. J. T. Winowlin Jappes
136.	Mr. D S Christopher	Flow and Heat Transfer	Dr. P. Venkumar
137.	Mr. G. Raja Pandian	Composite Material	Dr. V. Manikandan
138.	Mr. P. Amuthakkannan	Composite Material	Dr. V. Manikandan
139.	Mr. V. Arumuga Prabu	Composite Material	Dr. V. Manikandan
140.	Mr. A. Adi Narayanan	Operations Management	Dr. M. Uthayakumar
141.	Mr. C. Bennet	Fluid Dynamics	Dr. P. Rajesh Kanna
142.	Mr. N. Rajini	Polymer NanoComposite	Dr. J. T. Winowlin Jappes
143.	Mr. M. Muthu Kannan	CFD and Heat Transfer	Dr. P. Rajesh Kanna
144.	Mr. M. Sivasubramanian	Computational Fluid Dynamics	Dr. P. Rajesh Kanna
145.	Mr. S. Rajesh	Online tool condition monitoring	Dr. S. Raja Karunakaran
146.	Mr. K. D. Jaganathan	Supersonic Flow	Dr. S. Jeyakumar
147.	Mr. M. T. Sambandam	Energy and Environment	Dr. S. Raja Karunakaran
148.	Mr. A. Maniram Kumar	Safety Engineering	Dr. S. Raja Karunakaran
149.	Mr. V. Narasiman,	Thermal Engineering	Dr. S. Jeyakumar
150.	Mr. S. Muthuvel,	Solar Energy	Dr. S. Saravana Sankar
151.	Mr. S. Bathrinath,	Muliti objective Optimization	Dr.S.Saravanasankar
152.	Mr. S. Thirumalai kumaran	Composite Material	Dr.M.Udhayakumar
153.	Mr. K. Gurusamy	English Language Teaching	Dr. G. Manivannan
154.	Ms. C. GangaLakshmi	Diaspora Literature	Dr. G. Manivannan
155.	Mr. S. Hariharasudan	Post Modern Literature	Dr. S. Robert Gnanamony

(b) Ph.D. completed:

Seven research scholars have completed their Ph.D. in the academic year 2010-11

S. No.	Name of Research Scholar	Area of Research	Name of Guide	Month of completion of Ph.D. viva
1.	Mr. R.Ganesan	Soft Computing	Dr.S.Radhakrishnan	July 2010
2.	Ms. N.Karpagam	Power Systems	Dr. D. Devaraj	Sept. 2010
3.	Ms. R.NarmathaBanu	Power Systems	Dr. D. Devaraj	Sept. 2010
4.	Mr.B.Sasikumar	Network Engineering	Dr. V. Vasudevan	Dec. 2010
5.	Mr.R.Sukumar	Wireless Security	Dr. V. Vasudevan	Dec. 2010
6.	Ms. S. Sudha	Graph Theory	Dr. S. Arumugam	Dec. 2010
7.	Mr. V.Janakiraman	Optimization	Dr. R.Saravanan	March 2011

14. Citation index of faculty members and impact factor:

A total of 132 publications in reputed journals were done by the faculty of Kalasalingam Academy of Research and Education during the academic year 2010-11

a) Publications:

S. No.	Name of Faculty	Title	Name of Journal	Impact Factor of Journal
1.	Sangiliyandi Gurunathan	Gold nano particles down regulate VEGF-and IL-1 β -induced cell proliferation through Src kinase in Retinal pigment epithelial cells	Experimental Eye Research, 91(5), 769-778	2.538
2.	Sangiliyandi Gurunathan	Medium optimization and immobilization of purified fibrinolytic URAK from Bacillus cereus NK1 on PHB nanoparticles.	Enzyme and Microbial Technology, 47(6), 297-304	2.638

3.	Sangiliyandi Gurunathan	Pigment epithelium-derived factor inhibits advanced glycation end products-induced retinal vascular permeability	Biochimie, 92, 1040-1051	3.897
4.	Sangiliyandi Gurunathan	Silver nanoparticles impede the biofilm formation by <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus epidermis</i>	Colloids Surf B Biointerfaces, 79, 340-344	2.600
5.	Sangiliyandi Gurunathan	Silver Nano - A Trove for Retinal Therapies.	. J Control Release, 145(2), 76-90	5.949
6.	Sangiliyandi Gurunathan	Pigment epithelium-derived factor inhibits Erythropoietin-induced retinal endothelial cell angiogenesis by suppression of PI3K/Akt pathway.	Experimental Eye Research. 90(6), 726-733	2.538
7.	Sangiliyandi Gurunathan	Biosynthesis of silver and gold nanoparticles <i>Brevibacterium casei</i>	Colloids Surf B Biointerfaces, 77, 257-262	2.600
8.	Sangiliyandi Gurunathan	Optimization of alpha-amylase production for the green synthesis of gold nanoparticles.	Colloids and Surfaces B: Biointerfaces, 72(2), 174-180	2.600
9.	Sangiliyandi Gurunathan	Pigment epithelium derived factor inhibits vascular endothelial growth factor-and interleukin-1beta-induced vascular permeability and angiogenesis in retinal endothelial cells.	Vascular Pharmacology, 52, 84-94	2.044.
10.	Sangiliyandi Gurunathan	The inhibition of Advanced Glycation End-products-induced retinal vascular permeability by silver nanoparticles	Biomaterials, 31, 2260-2271	7.365
11.	Sangiliyandi Gurunathan	PEDF prevents reactive oxygen species generation and retinal endothelial cell damage at high glucose levels.	Experimental Eye Research, 90, 89-96	2.538
12.	Sangiliyandi Gurunathan	Size Based Cytotoxicity of Silver nanoparticles in Bovine Retinal Endothelial cells.	Journal of Experimental Nano Science	0.614.
13.	Arul mugilan	Insilico secondary structure prediction method (klusp) using Comparative	Trends in Bio-informatics, 3, 11-19	
14.	Sangiliyandi Gurunathan	Gold nanoparticles inhibit Vascular Endothelial Growth Factor-induced Angiogenesis and Vascular Permeability via Src dependent pathway in Retinal Endothelial Cells.	Angiogenesis, 14(1), 29-45	5.470.
15.	Sangiliyandi Gurunathan	Anti-tumour activity of Silver Nanoparticles in Dalton's Lymphoma Ascites-Tumour model.	Nanomedicine, 5, 753-762	2.612
16.	Sangiliyandi Gurunathan	Anti-oxidant effect of gold nanoparticles restrains hyperglycemic conditions in diabetic mice.	Nanobiotechnology, 8, 16	5.09
17.	Sangiliyandi Gurunathan	Isolation and characterization of goat retinal microvascular endothelial cells	Invitro Cellular and Developmental Biology-Animal, 46(6), 529-537	0.791

18.	Sangiliyandi Gurunathan	Mechanism of bactericidal activity of Silver nitrate-A concentration dependent bi-functional molecule	Brazilian Journal of Microbiology, 41, 805-809	0.62
19.	A.Manohar	Synthesis, Spectral and Single Crystal X-ray Structural Studies on Bis(2,2'-bipyridine)sulphido M(II) (M = Cu,Zn) and bisaquo 2,2'-bipyridine zinc(II)sulphate Dihydrate	J. Serb. Chem. Soc, 75(2010), 1085.	0.9
20.	P.Kotteswaran	Quaternary Ammonium salts-A New corrosion Inhibitor for Mild Steel in HCL Solution	Journal of the Electrochemical Society of India, 59(4), 123,129	---
21.	G.Kanthimathi	Effective Removal of Lead (II) Ion by using Synthetic Nano Fe ₃ O ₄	Advanced Materials and its Applications, 2011/1, 117-124	----
22.	E.R.Nagarajan	Synthesis, Characterization and Applications of Polymer-CNT Nanocomposite Materials	Advanced Materials and its Applications 2011/1, 256-263	---
23.	P.Thillai Arasu	Humidity Sensor Based on Polyaniline(PANI) – Polyvinyl Alcohol (PVA) Nano Composite	Advanced Materials and its Applications, 2011/1, 268-276	---
24.	E.R.Nagarajan	Preparation and Characterization of Novel Diglycerides Prepolymer /Monomer based on Cardanol	Advanced Materials and its Applications, 2011/1, 412-420	---
25.	E.R.Nagarajan	Synthesis and Characterization of Novel Photocrosslinkable Acrylated and Methacrylated Polybutyl Diepoxymethylene Tartramides	Advanced Materials and its Applications, 2011/1, 449-457	---
26.	A.Manohar	Cyclic Voltammetry, XPS Based Electron Distribution Studies and Bond Valence Sum(BVS) analysis on NiS ₄ and NiS ₂ P ₂ Chromophores	Advanced Materials and its Applications, 2011/1, 586-593	---
27.	A.Murugan	Synthesis and Electrochemical Studies on the Oxidation Products of Vanadyl Porphyrin	Advanced Materials and its Applications, 2011/1, 660-667	---
28.	A. Manohar	Bis(8-Hydroxyquinolino) Cadmium(II): A Novel Type of Green Emitter for Phosphor Converted White LEDs	Advanced Materials and its Applications, 2011/1, 1067-1074	---
29.	P.Thillai Arasu	Study on Chelating Efficiencies of Benzylidene-thio-carbohydrazide and Some α -Amino Acids with Zn(II) in 60 (v/v) Ethanol Water System	Advanced Materials and its Applications, 2011/1, 1256-1262	---
30.	C.C.Christopher	Preparation, Structure and Dielectric Properties of the System CaTi _(1-y) Fe _y O ₃ (y \leq 0.10)	Advanced Materials and its Applications, 2011/1, 1313-1321	---
31.	P.Sivaranjana,	Removal of Chromium (VI) from Aqueous Solutions by Adsorption on to Low Cost Adsorbent	Advanced Materials and its Applications, 2011/1, 1322-1330	---
32.	C.C.Christopher	Synthesis, Characterization, Analgesic, Anti-Inflammatory, Anti-Ulcer, Wound Healing and Antimicrobial Effects of Curcumin Derivatives	Advanced Materials and its Applications , 2011/1, 1331-1337	---

33.	C. Sivapragasam	A simple approach for improving spatial interpolation of rainfall using ANN	Meteorology and Atmospheric Physics, 109(1),1-7	0.87
34.	C. Sivapragasam	Reply to comment on C. Sivapragasam, Maheswaran R, Venkatesh V. 2008. "Genetic programming approach for flood routing in natural channels"	Hydrological Processes , 24(6),800	1.418
35.	C. Sivapragasam	Prediction of algal blooms using genetic programming	Marine Pollution Bulletin, 60(10), 1849-1855	2.630
36.	C. Sivapragasam	Spatial modeling of Electrical Conductivity with Neural Network	International Journal Engineering Science Technology, 2(7), 3128-3134	
37.	S.N. Ramaswamy	Performance of Brick masonry under explosive loading – An experimental study	International journal of Engineering Science and Technology, 5(9), 1491-1505	
38.	S.Radhakrishnan	Study of chaos functions for their suitability in generating Message Authentication Codes	Applied Soft Computing , 7(3), 1064-1071	2.468
39.	S.Radhakrishnan	Automated ischemic beat classification using Genetic Algorithm based Principal Component Analysis	International Journal of Healthcare Technology and Management, 11(3), 151-162	-
40.	S.Radhakrishnan	Sensor grid applications in patient monitoring	Future generation Computer Systems	1.752
41.	S.Radhakrishnan	Remote monitoring of post-operative patients using wireless sensor networks	International Journal of Healthcare Technology and Management, 9(3), 247-257	-
42.	S.Radhakrishnan	Elderly Patient Monitoring System Using a Wireless Sensor Network	Telemedicine and e-Health, 15(1), 73-79	0.967
43.	S.Radhakrishnan	Node Allocation In Grid Computing Using Optimal Resource Constraint (ORC) Scheduling	IJCSNS International Journal of Computer Science and Network Security, 8(6), 309-313	-
44.	P.Deepalakshmi	Ant Colony Based QoS Routing Algorithm For Mobile Ad Hoc Networks	International Journal of Recent Trends in Engineering, 1(1), 459-462	
45.	S.Radhakrishnan	Artificial immune based hybrid GA for QoS based multicast routing in large scale networks (AISMR)	Computer Communications, 31(17), 3984-3994	0.933
46.	S.Radhakrishnan	A novel hybrid immune-based GA for dynamic routing to multiple destinations for overlay networks	Soft Computing , 14(11), 1227-1239	1.328
47.	S. Kannan	Application of Modified NSGA-II Algorithm to Combined Economic and Emission dispatch problem	International Journal of Electrical Power and Energy Systems, 33(4), pp992-1002	1.613
48.	Karpagam. N	Improved Fuzzy Logic Controller for SVC in power system damping using global signals	Journal of Electrical Engineering, Springer Publications, Vol.91(7), 395-404	0.378
49.	S. Kannan	An improved generalized differential evolution algorithm	Taylor & Francis-Engineering Optimization	

		for multi objective reactive power dispatch		
50.	D. Devaraj	Power quality disturbance classification using Hilbert transform and RBF networks	Neuro computing, Elsevier, 73(7-9), 1451-1456	1.234
51.	D.Devaraj	Mixed Genetic Algorithm approach for fuzzy classifier design	International Journal of Computational Intelligence and Applications, 9(1), 49-67	0.2334
52.	D. Devaraj	Cascaded Genetic Algorithm for System Identification & Controller Tuning in pH process	Information Intelligent & Knowledge, .2(2), 2010, 91 – 108	-
53.	D. Devaraj	Fuzzy logic based approach for adaptive Hysteresis band and DC voltage control in Shunt Active Filter	Computer and Electrical Engineering, .2(2), 2010, 404 – 412	-
54.	D. Devaraj	Intrusion Detection using artificial neural network with reduced input features	Soft Computing, 1(1), 2010, 30-36	-
55.	D. Devaraj	Optimal Reactive power dispatch for voltage stability enhancement using real-coded genetic algorithm	Computer & Electrical Engineering, 2(4), 2010, 734 - 740.	-
56.	D. Devaraj	Fuzzy classifier design using modified genetic algorithm	Computational Intelligent Systems, 3(3), 2010, 334-342.	-
57.	R. Narmatha Banu	Optimal power flow for static security enhancement using enhanced genetic algorithm with FACTS	Asian Power Electronics, 4(3), 2010, 83-89.	-
58.	D.Devaraj	Genetic Algorithm based reactive power dispatch for voltage stability improvement	Electrical power and energy Systems, Elsevier, 32(10), 2010, 1151-1156.	-
59.	D.Devaraj	A Hybrid particle swarm optimization approach for reactive power optimization in Electricity market	Energy Technology and policy, Inderscience, 7(4), 2011, 379-392.	-
60.	D. Devaraj	Fuzzy logic based three phase four wire and four leg shunt active filter for harmonics, reactive and neutral current compensation	Electrical Engineering, 111(1), 2011, 74-79	-
61.	C. GangaLakshmi	The advancement and authority of English in the context of hybrid identity	Writers Editors and Critics, Vol(1), 96-101	
62.	C. GangaLakshmi	Traces of Life in the Works of V.S.Naipaul	Indian Journal of Postcolonial Literatures Vol 10(2010), 30-37	
63.	C. GangaLakshmi	V.S.Naipaul: An Epitome of Diaspora	Contemporary Discourse, Vol 1(2011), 53-56	
64.	C. GangaLakshmi	Intersection of Transnational, Diaspora and Globalization in the context of Diaspora Literature	College Sadana, Vol 1(1), 201-209	
65.	C. GangaLakshmi	Diaspora Literature: A Hybrid of a Hybridized Product	Languages in India, Vol 10 (2010), 143-147	
66.	C. GangaLakshmi	Life as Touchstone: Bond in Bond's Stories	Labyrinth, Vol 2 (2010), 153-159	
67.	C. GangaLakshmi	Construction of Self: Naipaul as	Indian Research Journal of	

		“I” in The Enigma of Arrival	Literatures in English, Vol 2(1), 28-33	
68.	K. Gurusamy	Immigrant Experiences in Meena Alexander’s Life	Indian Research Journal of Literatures in English, Vol 2(1)	
69.	Merly, T.G	The Inevitable Male Presence: A Study of Anota Nair’s <u>Ladies Coupe</u> : A Novel in Parts. <u>Indian Research Journal of Literatures in English</u>	Indian Research Journal of Literatures in English, Vol 2(1)	
70.	A. Prem Anandhi	Roy’s <u>The God of Small Things</u> as a manifesto of patriarchialism and caste discrimination	Indian Research Journal of Literatures in English, Vol 2 (1)	
71.	R. Naganathan	Changing Technology in English Language Teaching	Indian Research Journal of Literatures in English, Vol 2(1)	
72.	Pallikonda Rajasekaran, M	Sensor grid applications in patient monitoring	Future Generation Computer Systems, 26(4), 569-575	1.476
73.	S. Arumugam	Irredundance Saturation Number of a Graph	Australasian Journal of Combinatorics, 46(2010), 37-49	
74.	S. Arumugam	Fractional Global Domination in Graphs	Discussiones Mathematicae Graph Theory, 30(2010), 33-44	
75.	S. Arumugam	Min-Max Dom-Saturation Number of a Tree	International J.Math. Combin. 2(2010), 45-52	
76.	S. Arumugam	Radius and Diameter with Respect to Cliques in Graphs	J. Combin. Matha. Combin. Computer, 72(2010), 231-241	
77.	S. Arumugam	Neighborhood Connected Domination in Graphs	J. Combin. Matha. Combin. Computer, 73(2010), 55-64	
78.	S. Arumugam	The convexity graph of minimal dominating functions of a graph	Proc. Jangjeon Math. Soc., 13(2), 219-230	
79.	S. Arumugam	On k -Equivalence Dominating Sets in Graphs	International J.Math. Combin.,4(2010), 86-93	
80.	S. Arumugam	Chromatic Transversal Domination in Graphs	J. Combin. Matha. Combin. Comput., 75(2010), 33-40	
81.	S. Arumugam	Degree Equitable Chromatic Number of a Graph	J. Combin. Matha. Combin. Computer, 75(2010), 187-199	
82.	S. Arumugam	Neighborhood Connected Domatic Number of a Graph	J. Combin. Matha. Combin. Comput., 75(2010), 239-249	
83.	S. Arumugam	Irredundant and Open Irredundant Colorings of Graphs	Bulletin of the Institute of Combinatorics and Applications, 61(2011), 24-36	
84.	S. Arumugam	Maximal Independent Sets in Minimum Colorings	Discrete Math., 311(2011), 1158-1163	0.54
85.	Balamurali, S.	Economic Design of SkSP-3 Skip- Lot Sampling Plans” (2010)	International Journal of Mathematics and Statistics, 6(A10), 23-39	-
86.	Balamurali, S.	A Variables Repetitive Group Sampling Plan Under Failure-Censored Reliability Tests for Weibull Distribution (2010)	Journal of Applied Statistics (UK), 37(3), 453-460	0.536
87.	Balamurali, S.	A Two-Plan Sampling System	Industrial Engineering and	-

		for Life Testing under Weibull Distribution (2010)	Management Systems, 9(1), 54-59	
88.	Balamurali, S.	Simplified Factors of Analysis of Means for Treatment Effects (2010)	International Journal of Statistics and Systems, 5(2), 135-145	-
89.	Balamurali, S.	A New Variables Sampling Plan for Life Testing in a Continuous Process Under Weibull Distribution (2010)	Pakistan Journal of Statistics, 26(3), 539-546	-
90.	Balamurali, S.	Optimal Designing of a Skip-lot Sampling Plan by Two-Point Method (2010)	Pakistan Journal of Statistics, 26(4), 585-592	-
91.	Balamurali, S.	Designing of variables Repetitive group sampling plan indexed by point of control (2010)	Journal of Manufacturing Engineering, 5(3), 166-169	-
92.	Kartheeban. K & Dr. Venkatesulu. M	Euclidean Algorithm Based key computation protocol for secure group communication in dynamic grid environment (2011)	International Journal of Grid and Distributed Computing, 3(4), 45-55	-
93.	S.Selvasekarapandian	Energy storage studies of bare and doped vanadium pentoxide, (V _{1.95} M _{0.05})O ₅ , M = ¼ Nb, Ta, for lithium ion batteries	Energy & Environmental Science, 4(2011), 1712-1725	8.50
94.	S.Selvasekarapandian	Structural, Dielectric and Conductivity Studies of Yttrium-doped LiNiPO ₄ Cathode Materials	Ionics, 17(2011), 201-207	0.899
95.	S.Selvasekarapandian	Synthesis of Li _{1+x} V ₃ O ₈ by chemical route and its characterization	Journal of Nanoscience and Nanotechnology	1.44
96.	S.Selvasekarapandian	Thermal and dielectric studies of polymer electrolyte based on P(ECH-EO)	Materials Chemistry and Physics, 126(2011)	2.015
97.	S.Selvasekarapandian	Dielectric, modulus and impedance analysis of LaF ₃ nanoparticles	Physica B: Condensed Matter, 405(2010), 3803-3807	0.932
98.	S.Selvasekarapandian	Structural, thermal and electrical properties of PVA-LiCF ₃ SO ₃ polymer electrolyte	Journal of Non-Crystalline Solids, 356(2010), 2277-2281	1.252
99.	S.Selvasekarapandian	Synthesis and electrochemical studies on LiV ₃ O ₈	Journal of Solid State Electrochemistry, 14(2010), 1847-1854	1.821
100.	S.Selvasekarapandian	Conductivity and dielectric studies on LiCeO ₂	Journal of Rare Earths, 28(2010), 435-438	0.453
101.	S.Selvasekarapandian	Electrical properties of cerium fluoride thin films	Ionics, 16(2010), 481-486	0.899
102.	S.Selvasekarapandian	Preparation, Characterization, and Electrochemical Performance of Lithium Trivanadate Rods by Surfactant-Assisted Polymer Precursor Method for Lithium Batteries	J. Phys. Chem. 114(2010), 8099-8107	
103.	S.Selvasekarapandian	Ionic conductivity studies on LiSmO ₂ by impedance spectroscopy	Ionics, 16(2010), 317-321	0.899
104.	S.Selvasekarapandian	Characterization of PVA-NH ₄ NO ₃ Polymer Electrolyte	J.Phys.Soc. Jpn, 79(2010), 163-168	2.572

		and its Application in Rechargeable Proton Battery		
105.	S.Selvasekarapandian	Temperature Dependent ¹ H NMR Study of PVA:NH ₄ X(X=Cl,Br,I) Polymer Electrolyte	J.Phys.Soc. Jpn., 79(2010), 15-18	2.572
106.	S.Selvasekarapandian	Synthesis of compounds, Li(MMn _{1/6})O ₄ (M = Mn _{1/6} , Co _{1/6} , (Co _{1/12} Cr _{1/12}), (Co _{1/12} Al _{1/12}), (Cr _{1/12} Al _{1/12})) by polymer precursor method and its electrochemical performance for lithium-ion batteries	Electrochimica Acta, 55(2010), 4441-4450	3.562
107.	S.Selvasekarapandian	Laser Raman and ac impedance spectroscopic studies of PVA: NH ₄ NO ₃ polymer electrolyte	Spectrochimica Acta Part A: Molecular & Biomolecular Spectroscopy, 75(2010), 474-478	1.745
108.	S. Asath Bahadur	(E)-3-(4-Chlorophenyl)-3-[3-(4-chlorophenyl)-1H-pyrazol-1-yl]prop-2-enal	Acta Cryst., E66(2010), O2594-O2595	0.411
109.	S. Asath Bahadur	2-Amino-6-(2,4-dichlorophenyl)-4-oxo-3,5-diphenylcyclohex-2-enecarbonitrile	Acta Cryst, E66(2010), O2593	0.411
110.	S. Asath Bahadur	(E)-3-(4-Chlorophenyl)-3-[3-(4-chlorophenyl)-1H-pyrazol-1-yl]prop-2-enal	Acta Cryst., E66(2010), O2594-O2595	0.411
111.	S. Asath Bahadur	(E)-3-Phenyl-3-(3-phenyl-1H-1-pyrazolyl)-2-propenal	Acta Cryst. E66(2010), O577	0.411
112.	S. Asath Bahadur	Properties of CdS films deposited by the electron beam evaporation technique	Journal of Alloys and Compounds, 503(2010), 170-176	2.135
113.	S. Asath Bahadur	Structural, optical and photoconductive properties of electronbeam evaporated Cd _{Sx} Se _{1-x} films	Cryst. Res. Technol.	0.896
114.	S. Selvanayagam	Crystal growth and characterization of dibromobis(triphenylphosphine oxide) cadmium (II).	Journal of Crystal Growth, 322(2011), 78-83	1.757
115.	S. Selvanayagam	1',1''-Dimethyl-4'-(naphthalene-1-yl)-1,2,3,4-tetrahydronaphthalene-2-spiro-3'-pyrrolidine-2''-spiro-3''-indoline-1,2''-dione.	Acta Cryst., E67(2011), 0751	0.411
116.	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. E67(2011), 0629	0.411
117.	S. Selvanayagam	Methyl 3-[(1H-benzimidazol-1-yl)-methyl]-1-methyl-4-(4-methylphenyl)-2'-oxo-pyrrolidine-2-spiro-3'-1-benzimidazole-3-carboxylate	Acta Cryst., E66(2011), O2508-O2509	0.411
118.	S. Selvanayagam	Methyl 4-(4-chlorophenyl)-3,3a,4,4a,5,12c-hexahydro-2-	Acta Cryst., E66 (2011), O2098	0.411

		thia-naphtho[1',2':3,2] furo[5,4-b]pyrrolizine-4a-carboxylate		
119.	S. Selvanayagam	Methyl 4-Phenyl-1,2,3,3a,4,4a,5,12c-octahydronaphtho [1',2':3,2] furo [5,4-b] pyrrolizine-4a-carboxylate.	Acta Cryst. E66(2011), O134	0.411
120.	M. Venkatesulu	Genetal:A new technique for feature extraction from large set of biological sequences and its use in classification.	Journal of computer intelligence and bioinformatics, 2010(1), 49-61	-
121.	M.Venkatesulu	FuzzyART Neural Network for proteins classification.	Journal of Bioinformatics and computational Biology, 2010(5), 825-841	-
122.	.M.Venkatesulu	Euclidean Algorithm based key computation protocol for secure group communication in Grid environment	International journal of Grid and Distributed Computing, 2010(4), 45-56	-
123.	S. Saravanasankar	Multi-Objective Optimization in VLSI Floorplanning	International Journal of Advanced Manufacturing Technology	1.128
124.	S. Saravanasankar	Maximising manufacturing system efficiency for multi-characteristic linear assembly by using particle swarm optimisation in batch selective assembly	International Journal of Production Research	0.803
125.	S. Saravanasankar	Genetic algorithm to optimize manufacturing system efficiency in batch selective assembly	International Journal of Advanced Manufacturing Technology	1.128
126.	S. Saravanasankar	Optimization of assembly tolerance variation and manufacturing system efficiency by using genetic algorithm in batch selective assembly	International Journal of Advanced Manufacturing Technology	1.128
127.	P. Rajesh Kanna	Jet impingement cooling of a constant heat flux horizontal surface in a confined porous medium: Mixed convection regime	International Journal of Heat and mass Transfer	1.894
128.	P. Rajesh Kanna	Mixed convection on jet impingement cooling of a constant heat flux horizontal porous layer	International Journal of Thermal Sciences	2.014
129.	P. Rajesh Kanna	A CFD study of the interaction of oscillatory flows with a pair of side-by-side cylinders	Journals of Fluids and Structures	1.909
130.	M. Thirugnanasambandam	Analysis of electrical motors load factors and energy saving in an Indian cement industry	International Journal of energy	2.952
131.	V.Janakiraman	Concurrent Optimization of Machining Process Parameters and Tolerance Allocation	International Journal of Advanced Manufacturing Technology	1.128
132.	I.Siva	Studies on the influence of silane treatment on mechanical properties of coconut sheath reinforced polyester composites	Polymer – plastics technology and engineering	0.517

15. Honours/Awards to Faculty:

S.No.	Name of Faculty	Details of Honours/Awards received	Awarding Organization
1.	Dr.G.Sangiliyandi	one among top 100 scientists in 2010 Young Investigator award Commonwealth fellowship for academic staffs, 2011, UK.	University of Cambridge Asia ARVO, 2011, Singapore.
2.	Mr. S.N. Ramaswamy	Summer Research Fellowship	Indian Academy of Science, Bangalore
3.	Mr. PL. Meyyappan	Basic Course on comprehensive Natural Disaster Risk Management” (online), July 26 – September 2010 conducted by & awarded “Very Good” grade.	National Institute of Disaster Management, New Delhi & World Bank Institute
4.	Ms. R. Ramalakshmi	Young Scientist Fellowship	Tamil Nadu State Council for Science & Technology
5.	Dr.G.Sangiliyandi	Best Poster Awards at ICBE-2010. Chennai Best Poster Award at SN-ARVO. 2010, Chennai	SRM University, Chennai Sankaranatherlaya Eye Hospital, Chennai
6.	Ms.K.Punitha	Young Scientist Fellowship	Tamilnadu State Council for Science and Technology
7.	Mr. G.Saravanakumar	Young Scientist Fellowship	Tamilnadu State Council for Science and Technology
8.	Mrs. S. Yavana Rani	Young Scientist Fellowship	Tamilnadu State Council for Science and Technology
9.	Dr. M.Uthayakumar	Young Scientist Fellowship	Tamilnadu State Council for Science and Technology

16. Internal Resources generated:

S. No.	Activity	Amount Generated in `
1.	Traning Programs	3,62,700
2.	Consultancy Services	6,43,000
3.	Testing Services	27,000

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
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.	Water Quality Analysis	NGO	February , 2011
2.	Planning and Designing of New Bus Terminal in Sattur	Municipality Sattur	January, 2011
3.	Soil Stabilization (Block cotton soil) by using Admixtures	Highways Department, Virudhunagar	February , 2011
4.	Swine flu Awareness Program	Ramachandrapuram Village	October, 2011
5.	Road Safety Program	Public	April, 2011
6.	Healthcare Program	Pillayarnatham Village	December, 2010
7.	Physical recreation Program	Sundarapandiyapuram Village	December, 2010
8.	Donation of clothes	Sivakasi Orphanage	October, 2010
9.	Health & Sanitation	Ramachandrapuram & Moovaravenran Villages	December, 2010
10.	Health & Sanitation	Nathampatti Village	December, 2010 May, 2011

19. Teachers and officers newly recruited:

25 faculty members and 8 Non-Teaching staffs were recruited during the Academic year 2010-11

a) Faculty recruited:

S.No.	Name of Faculty	Designation	Years of Experience
1.	Dr.B.Sivasubramaniam	AP	15 years
2.	Mr.B.Balamurugan	AP I	9 years 6 months
3.	MS.V.Aruna Janani	AP I	1 years
4.	Ms.M.Subbulakshmi	AP I	10 months
5.	Ms.M.Thangasivakami selvi	AP I	10 months
6.	Ms.K.Kiruthika	AP I	10 months
7.	Ms.M.Jansi rani	AP I	10 months
8.	Mr.Jenyfal Sampson	AP I	Nil
9.	Ms.V.Chinnammal	AP I	8 Years
10.	Ms.G.Ramya devi	AP I	Nil
11.	Ms.T.Vijaya Bharathi	AP I	Nil
12.	Mr.P.Manojoel Prabhu	AP I	1 Year
13.	Ms.Brenda Mohan	AP I	Nil
14.	Dr.Vinodkumar Madan	Professor	40 Years
15.	Ms.E.D.Dhanarani	AP I	10 months
16.	K.Asan Mohideen	AP II	Fourteen Years
17.	M.Thilagaraj	AP I	5 years 6 months
18.	Ms.J.Varalakshmi	AP I	Nil
19.	Ms. T.Rajashree	AP I	Nil
20.	Mr.S.Ramesh	AP I	Nil
21.	Mr.A.Aathi narayanan	AP I	16 Years
22.	Mr. K. Sripriyan	Lecturer	2 Yrs
23.	Mr. Sankar Ganesh	Lecturer	10 Yrs
24.	Mr. V.P.Sriram	Lecturer	3 Yrs
25.	Mr. W.E.E.Kinsley	Lecturer	10 Yrs

b) Non-teaching staff recruited:

S.No.	Name of the Staff	Designation	Years of Experience
1.	Mr.M.Chandra sekar	Lab Technician	8 months
2.	Mr.M.Jothi Mahalingam	Lab Technician	1 year 2 months
3.	Ms.A.Dhanalakshmi	Lab Technician	nil
4.	Mr. Soundarapandian	Lab Technician	6 months
5.	Ms.R.Mariammmal	Lab Technician	Nil
6.	Ms.R.R.Rajalakshmi	Lab Technician	Nil
7.	Ms.M.Gurupackyalakshmi	Lab Technician	Nil
8.	Mr. Marimuthu	Lab Technician	5 years

20. Teaching – Non-teaching ratio:

477: 217 = 2.2:1

21. Improvement in the Library Services:

- i. Increase the lending books to all UG students from 2 books at a time to 3 books
- ii. 50 steel racks were added to arrange the newly purchased books/magazines.

22. New books/journals subscribed and their value:

Books added in the academic year 2010-11 are mentioned below:

Particulars	Cost in `
Books	14,03,825
E-Journals	8,49,610
Print Journals	9,54,570
Technical Magazines	41,625
General Magazines	5,139

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.	641 (Even semester)	11
2.	673 (Odd semester)	13

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 expense / total number of students = ` 44,85,13,465/6876 = ` 65,228

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

Software developed inhouse for the admission process, attendance, marks entry & result declaration. All results are published in the intranet & internet servers.

27. Increase in the infrastructural facilities:

Cost details of the infrastructure facilities added in the academic year 2010-11 are mentioned below:

S. No.	Particulars	Cost in `
1.	Lab Equipments & Softwares in existing Labs	57,97,890
2.	New Laboratories and Centres	95,16,971
3.	Buildings (Academic & Hostels)	14,34,00,000
4.	Transport vehicles	1,00,05,000
5.	Power Generators	24,00,000
6.	Internet Connectivity	22,00,000
7.	Campus WIFI to new Blocks	6,00,000

(a) Equipment added:

S. No.	Department	Lab.	Name of the equipment	Cost of equipment in `	
1.	BT	Animal Cell culture laboratory	Fluorescence microscope + Accessories	12,57,360	
2.			Chemi-Doc imager + Accessories	8,80,000	
3.		Computational Biology Laboratory	HCL Systems	80,500	
4.		Bioinformatics centre	Computers with internet connection	1,50,000	
5.	EEE	Power Electronics Lab	Power Quality Analyser	1,20,000	
6.		Power Electronics Lab	FPGA kit	32,000	
7.	EIE	Process Control	Computer	80,000	
8.	IT	Computer Lab-III	UPS	2,57,340	
9.	SHIP	Audiology Lab	ARPHY Audiometer Induction Loop System AC installation	55,224	
10.	MECH ENGG.	CAD	30 systems	6,81,482	
11.		CAM	2 CNC Machine	11,00,000	
12.		Metrology		TESA MICRO HITE-3D Co-ordinate measuring machine	10,35,814
13.				Air Compressor	13,520
14.				Slip Gauge	5,500
15.		I C Engine		2stroke petrol single cylinder engine - tabletop	3,200
16.				2stroke petrol cylinder engine cut section(real size)	11,000
17.				4stroke petrol single cylinder engine - tabletop	3,600
18.				4stroke petrol single cylinder engine cut section (real size)	11,900
19.				2stroke diesel single cylinder engine - tabletop	3,600
20.				4stroke diesel single cylinder engine - tabletop	3,600
21.	4stroke diesel cylinder engine cut section (real size)			12,250	
Total				57,97,890	

(b) New Labs and Centres established:

S.No.	Department	Name of the Lab./Centre	Total cost of equipment in `
1.	BT	Computational Biology Laboratory	80,500
2.	EEE	Power Electronics Lab	12,00,000
3.	EIE	Advanced Process Control Lab	33,31,471
4.	EIE	Advanced Biomedical Instrumentation Lab	30,00,000
5.	IT	Computer Lab-III	17,85,000
6.	SHIP	Audiology lab	1,20,000
Total			95,16,971

28. Technology upgradation:

- KARE has established 1 Gbps connectivity to National Knowledge Network under the NMEICT project. Additionally, 24 Mbps Internet bandwidth is provided through microwave link by Reliance.
- Implementation of Wireless Connectivity in the new academic blocks and hostels.
- Hosted all the NPTEL content in the intranet server that is accessible through both wired and wireless hosts.

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 1900 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. 130 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

- Training programs organized for Faculty, Non-teaching staff and students.

S. No.	Name of the Training Program	No. of days	Date		Type of participants (Faculty, Non-teaching staff and students)
			(dd/mm/yyyy)		
1.	Value Added Training Programme on GIS	5	27/05/2010	31/05/2010	Faculty-1, Non-teaching staff-1 students 30
2.	Value Added Training Programme on Total Station	5	27/05/2010	31/05/2010	Faculty-1, Non-teaching staff-1 students 30
3.	Faculty Development Program on Moodle software	1	25/05/2010		Faculty
4.	Faculty Development Program on NPTEL programme	1	05/06/2010		Faculty
5.	Faculty Induction Program 2010	4	06/07/2010	09/07/2010	Faculty
6.	PC Maintenance	2	10/09/2010	11/09/2010	Non teaching staff
7.	Routine Maintenance and servicing of test and measuring instruments.	2	12/09/2010	13/09/2010	Non teaching staff

8.	Networking Basics.	2	15/09/2010	16/09/2010	Non teaching staff
9.	System administration (windows and Linux).	2	18/09/2010	19/09/2010	Non teaching staff
10.	MS office (Word and Excel).	2	22/09/2010	23/09/2010	Non teaching staff
11.	Workshop on Research, Consultancy and Intellectual property rights.	1	30/12/2010		Faculty, Students
12.	Workshop on “Journey to private cloud”.	2	04/02/2011	05/02/2011	Faculty
13.	Workshop on PHP	1	18/02/2011		Faculty, Students
14.	Workshop on Wireless networks and security.	2	08/03/2011	09/03/2011	Faculty
15.	Workshop on Multi-core Programming for Academia.	4	09/03/2011	12/03/2011	Faculty
16.	Wipro Mission 10 X program	5	22/03/2011	26/03/2011	Faculty
17.	Workshop on web Designing	2	25/04/2011	26/04/2011	Teaching staff, Students
18.	Transmission & Distribution organized by Training and Development Institute, Madurai	3	03/03/2011	05/03/2011	40 students
19.	Hands on training on Basic Electronics organized by Electronics For you - Bangalore	5	13/12/2010	17/12/2010	30 Students 5 staff
20.	Wipro Mission 10x	5	22/03/2011	26/03/2011	Faculty
21.	Measurement And Sericing Of Equipments	2	12/11/2010	13/11/2010	Non Teaching
22.	Hands on training on Basic Electronics organized by Electronics For you	5	13/12/2010	17/12/2010	Students
23.	Digital Design Using Vhdl And Verilog	1	01/04/2011		Students
24.	Control System Design Using Matlab	1	30/01/2011		Students
25.	IBM Rational Application Developer Workshop	4	10/05/2010	13/05/2010	Faculty
26.	Stress Management	10	05/05/2010	09/06/2010	Faculty
27.	Moodle e-Learning Portal	3	06/07/2010	09/07/2010	Faculty
28.	Mission 10X	2	22/03/2011	26/03/2011	Faculty
29.	PC Maintenance	2	10/11/2010	11/11/2010	Non-teaching staff
30.	Networking basics	2	15/11/2010	16/11/2010	Non-teaching staff
31.	System Administration	2	15/11/2010	16/11/2010	Non-teaching staff
32.	MS Office, Excel	2	22/11/2010	23/11/2010	Non-teaching staff

30. Financial aid to students:

Anandam Ammal Scholarship for the academic performance during 2009 – 2010 has been instituted and awarded to top three students of each branch of Engineering. The first rank holder in each branch was given 50% concession in tuition fees while the 2nd and 3rd rank holders were given 25% concession each. A total of 72 students of Batches 2007 to 2009 have received this scholarship for their academic performance in 2009 – 2010 to the tune of Rs. 14,49,000/-.

31. Activities and support from the Alumni Association:

S. No.	Purpose	Cost in `
1.	Sponsorship for Conferences / Seminars	75,000
2.	Sponsorship for Technical Symposium	1,21,970
3.	Organising Expert Lectures by our alumini	29,500

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 ` 25 Lakhs was spent on Health Care Centre during the academic year 2010-11.

34. Performance in sports activities:

KARE students have secured awards / Medals in 29 different sports events during the academic year 2010-11

S. No.	Name of event	No. of Awards/ Medals won	Details
1.	Volleyball(Men)	Gold Medal	State level Open Volleyball Tournament conducted by Dr.Ambatcar Volleyball Club, Mudukumindanpatti, at Kovilpatti on 15 th August 2010.
2.	Athletics(Hammer Throw & Javelin Throw)	Gold, Silver & Bronze Medals	Rotary Club Sivakasi Central conducted Virudhunagar District Inter Collegiate ROTO ATHLETE-2010 at Sivakasi 28 th August 2010.
3.	Volleyball(Men)	Gold Medals	Open State Games District Volleyball Championship held in Virudhunagar on 4 th January 2011
4.	Volleyball(Women)	Silver Medals	Open State Games District Volleyball Championship held in Virudhunagar on 4 th January 2011 at
5.	Volleyball	Gold Medals	Open State Games District Volleyball Championship held in Kalluppatti on 13 th January 2011
6.	Volleyball	Silver Medals	Open District Volleyball Championship organized by Dynamic Volleyball Club, Vilampatti 23 rd January 2011.
7.	Volleyball	Bronze Medal	National Level Inter Collegiate PSN Trophy organized by PSN group of Education Institutions on 4 th February 2011.
8.	Basketball & Football	Champion Trophy.	Tamilnadu State AIDS Control Society Sports Development Authority of Tamilnadu, Virudhunagar District level Youth Cultural and Sports Festival at Virudhunagar District Stadium on 23 rd July 2010.

9.	Volleyball, Kabaddi & Athletics	Overall Championship Shield	National Youth Affairs and Physical Education, Rural Youth Development Plan, PYKKA – Watrap Block level Sports & Games conducted by Sports Development Authority of Tamilnadu, Virudhunagar at KLU on 20 th August 2010.
10.	Chess	Championship Trophy	Virudhunagar District Sivakasi Rathinam Chess Academy organized Open Chess Tournament held at Sivakasi on 31 st October 2010.
11.	Cricket	Championship Trophy	Our KLU M.B.A Students (Men) participated in the Inter Collegiate LAGAAN-2010 Cricket Tournament organized by Sowrashttra College, Madurai.
12.	Chess	Won the II Place & III Place Respectively	Sivakasi Social Welfare Federation Chess Competition for Hearing Impaired held at Sivakasi on 11 th July 2010.
13.	Chess	III Place	16 th National Chess Championship held at Nadiad, Gujarat on 5 th December.
14.	Athletics (Shot Put & Javelin Throw)	Silver & Bronze Medal	Sports Development Authority of Tamilnadu, Virthunagar. State Games District level Athletic Meet in 2011 District Stadium, Virudhunagar. 5 th January
15.	Basket Ball Badminton (Men) Foot Ball	Silver Medal III Place Silver Medal	State level Inter Engineering Invitation Tournament conducted by Sastra University, at Tanjur 13 th March 2011.
16.	Volleyball (Men)	Championship Trophy	State level Open VolleyBall Championship Tournament conducted by J.J Volley Ball Club, at Mariyur, Near Sayalkudi, Ramanathapuram District on 19 th February 2011.
17.	Athletics(Javelin Throw, 400 mts Hurdles & High Jump)	Silver & Bronze Medal	All India Sports Council of the Deaf, New Delhi Organized the 16 th National Deaf Athletic Meet at Race Course Stadium, Madurai 22 nd January 2011.
18.	Cricket	Runners up Position	16 th South Zone Deaf Cricket Championship organized by Coimbatore District Cricket Association for Deaf, Coimbatore 12 th January 2011.
19.	Yoga	Gold & Silver Medal	State level Yoga Competition - 2011 conducted by Aathma Academy of Arts at Aathoor, Tuticorin on 26 th Feb 2011.
20.	Tae-Kwon-do	Bronze Medal	State level Tack Won Do Light Weight Men Category

			Championship held at Ariyalor on 9 th January 2011.
21.	Javelin throw	II place	Roto athlete 2010 held at arasan ganesan polytechnic cllege, sivakasi.
22.	T20 cricket	Winner	Rotary texcity t20 cup, held at coimbatore.
23.	Basket Ball	Silver Medal	Sastra University, at Tanjur 13 th March 2011
24.	Football	Silver Medal	Sastra University, at Tanjur 13 th March 2011
25.	Cricket	Runner Up	Coimbatore District Cricket Association for Deaf, Coimbatore 12 th January 2011
26.	Cricket	Won the Match	A.J. College Sivakasi on 9 th January 2011
27.	Shot Put	Silver Medal	Sports Authority of Tamilnadu, Virudhunagar State Games District Level Competition on 5 th January 2011
28.	Basket Ball	Winners	Virudhunagar District level Youth Cultural and Sports Festival conducted at Virudhunagar district Sports Stadium on 23 rd July 2010
29.	Football	Winners	Virudhunagar District level Youth Cultural and Sports Festival conducted at Virudhunagar district Sports Stadium on 23 rd July 2010

35. Incentives to outstanding sports persons:

S. No.	Name of Student	Department	Achievement	Incentives received
1.	R.Raj Ganesh	M.B.A	Winners & Runners up in State Level open & Collegiate Level Volley Ball Tournaments.	75% Fees Concession
2.	M.Karthick	M.B.A		
3.	A.Jesu Antony Reswin	M.B.A		
4.	J.Visvak	M.B.A		
5.	P.Raj Kumar	M.B.A		
6.	E.M.Karthikeyan	M.B.A		
7.	N.Raja Murugan	M.B.A		
8.	K.Madhan Kumar	E.I.E	Silver Medal in State Level Basket Ball Tournament	50% Fees Concession
9.	Periasamy Sunder Sakthi Sathya perumal Annamalai Ramesh	SHIP	Winner. Rotary texcity t20 cup, held at coimbatore.	Rs.5000

36. Students Achievements/awards:

18 students of KARE have been awarded prizes for their achievements in curricular activities and 23 students in extra-curricular activities

a) Curricular:

S. No.	Dept.	Name of the Students	Event	Achievement / Award	Organized by
1.	CSE	T. Subramaniayan	All India Competition on Earthquake Resistant Structures	IV Prize	IIT Roorkee
2.		Kodivignesh	Technical Paper presentation, Anna University, Chennai	First (Gold Medal)	Anna University, Chennai
3.	CSE	S.Arun Pandian	Paper Presentation in Tech Symp	FIRST	St.. Joseph College of Engineering, Chennai
4.	CSE	A. Karthic	Paper Presentation	FIRST	Mepco Schlenk Engineering College at sep 8 th 2010.
5.	CSE	A. Karthic D.Mohit Lakhotia	Paper Presentation	FIRST	Kamaraj College of Engineering at 2 nd sep 2010.
6.	CSE	C. Simon Joshua R. S. Kumar	Paper Presentation	FIRST	SIT, Madurai at 6 th oct 2010.
7.	CSE	S.S. Vignesh R. Vignesh Saravana Kumar	Paper Presentation	FIRST	Thiyagaraja College of Engineering
8.	CSE	S.Abinaya P.Abinaya	Paper Presentation	FIRST	SRM University.
9.	CSE	R.Gogul Nath	Paper Presentation	FIRST	PSNA Colege of Engineering
10.	CSE	S.M. Krishnan	Paper Presentation	FIRST	PSNA Colege of Engineering
11.		Muthu Rajathi Nandhini Durga	Paper Presentation	SECOND	Mepco Schlenk Engineering College.
12.		Muthu Rajathi Nandhini Durga	Paper Presentation	THIRD	PSNA Colege of Engineering
13.	ICE	V.Dinesh babu	Mini project	First price	S.A.Engg College Chennai
14.	IT	P.Deepavathi T.M. Kumar	NCCAME'10 Paper presentation	Best Paper Award	Loyala Institute of Technology, Chennai
15.	MCA	M.Rajkumar R.S. Kumar	As you like it	I Prize	Gandhigram Rural University, Gandhigram
16.	MCA	M.Omprakash	Animation	II Prize	Gandhigram Rural University, Gandhigram
17.	MCA	M.Omprakash R.S. Kumar M.Raj kumar	Web Designing	II Prize	Kalasalingam Institute of Technology, Krishnankoil
18.	SHIP	Chandra Deepa Nair Mathumathi	Top Three CGPA rank holders	Laptop	Monarch Industries, Theni.

b) Extra-curricular activities (NCC, Cultural):

S. No.	Dept.	Name of the Students	Event	Achievement/ Award	Organized by
1.	BT	M.Sivakumar	Completed 'C' certificate examination	Sergeant	NCC Office
2.		J.Indhumathi		Corporal	
3.		M.Devibala		Cadet	
4.		M.D.Christy Diana		Sergeant	
5.	CE	Ms. Dhivyadevi K	Fine Arts - Anthaksari	I Prize	Keelpagam Medical College, Chennai
6.		Mr. Vamsi Krishnan R	Fine Arts Dance	II Prize	Keelpagam Medical College, Chennai
7.		Mr. B. Ajay	Stamp Collection	III Prize	Nature Club, KLU
8.	CSE	A.J.C.Sahaya Mary Meikuzhali	Dance	II Prize	Mangayar malar
9.		A.Santhosh	Wax Crayon Drawing	I Prize	JCI, Sivakasi

10.		A.Sathish	Clone a Character	I Prize	JCI, Sivakasi
11.		S.Sridhar Venkatesh	MIME	I Prize	JCI, Sivakasi
12.		G.Vinodha	Fusion dance	II Prize	JCI, Sivakasi
13.		R. S. Sriramachandran	Dance	III Prize	JCI, Sivakasi
14.	EEE	K.M.Ishwarys	Quiz	II -Prize	Department of EEE, KIT, Srivilliputhur.
15.	EEE	S.Thulasi Maniegalai	Clay modelling	II Prize	Nature club of KARE, Srivilliputhur.
16.	EIE	S.Annam	9 th JAYCEE CARNIVAL 2010,dance	I Prize	Junior Chamber International India-Sivakasi
17.	EIE	S.Annam	art	I Prize	Kalasalingam University
18.	EIE	T.SujiBharathi	9 th JAYCEE CARNIVAL 2010,thirukural mime	I Prize	Junior Chamber International India-Sivakasi
19.	EIE	R.Vasanthakumar	gra VITas 2010,quiz	II Prize	VIT university Vellore -14
20.	EIE	V.Vivekanand	gra VITas 2010,quiz	II Prize	VIT university Vellore -14
21.	EIE	R.Vasanthakumar	gra VITas 2010,adzap	II Prize	VIT university Vellore -14
22.	EIE	V.Vivekanand	gra VITas 2010,adzap	II Prize	VIT university Vellore -14
23.	SHIP	D.Vinod kumar Ganesh. K Easwar	ANANDHA '11 / Mime	I Prize	KARE

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. 41 companies have conducted the campus recruitment drive and selected 632 students as mentioned below.

S. No.	Name of the Company	No. of students placed	Annual Salary in ` (CTC)
1.	Tata Consultancy Services	234	3,16,387
2.	HCL Technologies	90	3,00,000
3.	Susee Groups	19	1,25,482
4.	Sudarsan Group of Companies	13	1,60,200
5.	SBI-Life Insurance	1	2,50,000
6.	Popular Vehicles & Services	35	1,38,732
7.	CRP India	1	1,35,000
8.	Aditya Trading	3	1,50,000
9.	Indus Teqsite	1	1,44,000

10.	Syntel	17	2,83,284
11.	IVRCL	34	2,29,200
12.	Robert Bosch	3	3,00,000
13.	Birla Soft	15	3,10,000
14.	Anand Rathi Securities	5	1,20,000
15.	Benzcomm Commodities	7	1,20,000
16.	Elysium Technologies	3	1,20,000
17.	Get it Info Services	3	1,44,000
18.	Hi-Commands Tech India	6	1,44,000
19.	India Infoline	9	1,44,000
20.	Ma Foi Mgmt. Consultants	2	1,20,000
21.	Monarch Industrial Products	2	1,20,000
22.	Reliance Capital Company Ltd.,	3	1,16,000
23.	GRT Regency	1	1,20,000
24.	Investmentor, Trichy	2	1,50,000
25.	Madurai Fine Services	1	1,20,000
26.	TVS, Hosur	1	1,20,000
27.	CCCL, Chennai	1	2,00,000
28.	Dharani Sugars & Chemicals	9	96,000
29.	Sutherland Global Services	48	2,00,000
30.	CSS Corp, Chennai	20	1,89,324
31.	Savvy Soft Technologies	22	1,90,000
32.	HCL B-Serv	2	2,16,000
33.	HBL Global Pvt. Ltd.,	1	1,20,000
34.	Dhacshin Audio Visuals	5	1,80,000
35.	Indus Infra Projects and Services	1	1,20,000
36.	Royal Classic Mills Pvt. Ltd.,	1	1,20,000
37.	Adecco Flexione Workforce Solutions (P) Ltd	1	1,20,000
38.	Vijay Clinical Laboratory,	1	1,20,000
39.	Silvin Knitwear Limited	1	1,20,000
40.	BGR Energy Systems	9	2,76,000
41.	Perpetua, Madurai	2	1,20,000
42.	Mahle IPL, Chennai	4	1,50,000
Total		637	

39. Development programmes for non-teaching staff:

Centre for Learning Technologies organized 5 the 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.	PC Maintenance	14	10/11/2010	11/11/2010
2.	Networking Basics	18	15/11/2010	16/11/2010
3.	System Administration (Windows and Linux)	11	18/11/2010	19/11/2010
4.	Routine maintenance and servicing of test and measuring instruments (CRO, Function Generator and power supply)	15	13/11/2010	13/11/2010
5.	MS Office (Word and Excel)	22	22/11/2010	23/11/2010

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) Summer term for weak students

The slow learners who have dropped courses in the regular semester can clear such backlogs during the summer without any additional fee.

c) 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.

d) Inter-disciplinary course credit

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

e) Beyond syllabus Practice

f) 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, Infosys Campus Connect, NASSCOM
- Extensive use of ICT by faculty members for teaching learning process
- Involvement of stake holders in decision making process

g) 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.

h) Freshmen Induction program

Freshmen 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.

i) 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) as mentioned below:

Designation	PDA Rs./Month
Sr. Professor	25,000
Professor	20,000
Associate Professor	15,000
Assistant Professor	10,000
Lecturer / Senior Lecturer	5,000
Faculty Registered for Ph.D.	2,500

- 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.

j) International Advisory Committee

k) Centre for Learning Technologies

l) Blend of Academic, Industrial and Research Expertise

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

m) 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 of his/her neighbor also. 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 eight Universities/ Research Centres as mentioned below:

S. No.	Department	Name of University/Research Centre	Nature of Linkages
1.	University level Memorandum of Understanding	Hannam University, South Korea	Semester Abroad Program, Faculty exchanges, Korean language program
2.	University level Memorandum of Understanding	Soongsil University, South Korea	Semester Abroad Program, Faculty exchanges, Korean language program
3.	Research collaboration with n-CARDMATH, Kalasalingam University	Liverpool Hope University, UK	Faculty exchange to the newly established center for advanced mathematics
4.	Research collaboration with Dept. Physics, Kalasalingam University	Tohoku University, Japan	JST-DBT project: Micro thin batteries
5.	Civil Engg. Department	National Institute of Technology, Surathkal.	B.Tech. Project.
6.	Electronics and Communication Engg. Department	ALTERA, Bangalore	MOU signed related to Technical Support and Placement.
7.	University level Memorandum of Understanding	Central Leather and Research Institute	Project work
8.	Understanding	Central Electrochemical Research Institute	Project work

42. Action Taken Report on the AQAR of the previous year: Not applicable

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

IQAC meetings were conducted periodically during the academic year 2010-11.

S. No.	Meeting	Date
1.	1 st IQAC meeting	25 th Sept. 2010
2.	2 nd IQAC meeting	29 th Dec. 2010
3.	3 rd IQAC meeting	09 th April 2011

PART-C

Plans of the institution for the next year

1. Formulate few more inter-disciplinary courses of national relevance at the post-graduate level.
2. Adding more than ` 50 Lakhs worth of research projects.
3. Collaborative research with National research laboratories.
4. Targetting 100 International Journal publications
5. Setting up of Technology Business Incubator at KARE.
6. Organizing one Faculty Development Program per department.
7. Organizing six National Level Conferences / Seminar at KARE.
8. Organizing four International Conferences / Seminar at KARE.
9. Associating with Professional Societies for conduct the conferences
10. Beautification of the campus, use of renewable energy resources and increase the plantation.
11. Increase the interaction with the alumini for their support.
12. Conduct of one national-level sports event at KARE.
13. Conduct of one national-level cultural event at KARE.
14. Supplementing teaching-learning processes through effective use of e-learning portal.

DIRECTOR – IQAC

CHAIRMAN - IQAC