

**B.S.ABDUR RAHMAN  
UNIVERSITY**

B.S.ABDUR RAHMAN INSTITUTE OF SCIENCE & TECHNOLOGY  
(Estd.u/s 3 of the UGC Act, 1956)  
SEETHAKATHI ESTATE, G.S.T. ROAD, VANDALUR, CHENNAI – 600 048. +



# **ANNUAL REPORT**

## **2014 - 15**





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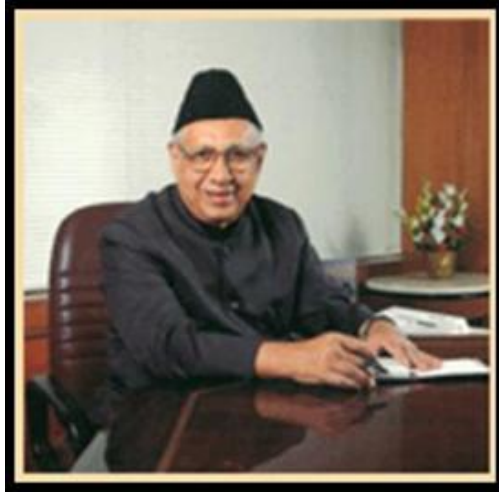
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## **IN MEMORY OF A GREAT VISIONARY**

**Dr. B.S. ABDUR RAHMAN (15 Oct' 1927 – 7 Jan' 2015)**



The Management, members of faculty and support staff of B.S. Abdur Rahman University record their deepest sorrow over the passing away of their iconic role model Dr. B.S. ABDUR RAHMAN on 7 January, 2015.

Dr. B.S. Abdur Rahman was an epitome of virtues like philanthropy, passion for offering education, commitment for women upliftment, helping the destitutes, etc. He has become immortal and legendary through his generosity. He made history through his philanthropic actions. He lives and will continue to live for generations in the minds of all the people entering the portals of all the organizations founded by him.

We the teaching community of the University not only recall his magnanimity and glory but also would strive hard to carry forward his dream and achieve his vision in the years to come.





### ***From the Vice Chancellor's desk***

I am pleased to write this message for the annual report for the year 2014-15. It has been an eventful and vibrant year packed with several activities and achievements which have brought a great visibility to the University across the nation and also overseas. The most commendable milestone has been the accreditation of the university by National Assessment and Accreditation Council (NAAC), which created a record in every respect. The Self Study Report (SSR) was prepared in the shortest period and uploaded on 10<sup>th</sup> January 2014 and could get the NAAC team on 8<sup>th</sup> April, 2014 and with an exemplary presentation, could get "A" grade in the very first cycle. I share this credit with each and every member of faculty and staff for the excellent performance.

The university also submitted Self Assessment Report for National Board of Accreditation (NBA) for the five M. Tech. programmes (Structural Engineering, Manufacturing Engineering, Power System Engineering, Communication System and Computer Science & Engineering) in phase I. The reports are ready to upload to five more M. Tech programmes (Construction Engineering & Project Management, CAD / CAM, Power Electronics & Drives, VLSI & Embedded Systems and Information Technology) in phase II.

During the year 2014-15, four new programmes have been initiated namely B. Tech (Biotechnology), B. Tech (Cancer Biotechnology), M. Tech (Computer Science & Engineering with specialization in Big Data Analytics) and M. Sc. (Physics) with the improved visibility of the university the admission have also improved and 987 candidates were admitted to B. Tech as against 770 in 2013 besides 80 for B. Arch., 108 for MBA. Students admitted in other PG programmes are M. Tech – 142, MCA (9+72) and M.Sc. -30. As its cardinal policy to encourage merit, the university offers free seats to those who score above 95% and thus 35 students got free seats.

A number of academic reforms were introduced such as Student Feedback and Evaluation by faculty and Ph.D as preferred entry qualification for faculty. The policy to make Ph.D mandatory for faculty has shown positive results. As on date 125 faculties hold Ph.D and another 212 have registered for Ph.D. Thrust on research in all the departments has also started showing result, though some of the older Engineering Departments have yet to fall in line. The newly established School of Life Science is emerging as a model school in research and innovation.

Out of the 39 projects submitted for Rs. 1,446.17/- lakhs, 21 came from 8 faculties of the school of Life Sciences, even jointly with faculty from Chemistry and Mathematics departments. The University has received sanction for 11 projects during 2014 -15 at a cost of Rs. 216.6/-5 lakhs. The H-index and Average citation index has also shown a steady increase, which is at 26 and 3.99 respectively. The average impact factor is 1.67 and number of papers in SCOPUS are 1040.

The annual convocation was also split into two events separately for UG and PG programmes and the Chief Guests were Mr. N. Lakshmi Narayanan, Vice Chairman, Cognizant Technology Solutions and Prof. John Vivian Wood CBE, FEng., D.MET., Ph.D., Secretary – General, Association of Commonwealth Universities – UK, respectively.

The University faculty and students had several extra curricular activities and outreach programme, The National Service Scheme (NSS), Youth Red Cross, Rotaract and student Literary Club have all shown their exceptional talents in organizational abilities.

Yet another unique initiative is the launching of the Authors Forum and motivating the faculty to write books on their subjects. I am proud to say that 227 faculties have signed a contract for 167 titles and we have signed an MoU with M/s. Ane Books Pvt. Ltd. to bring out at least 100 titles on a single day and enter the Guinness book of records. It is an ambitious target but I am confident that our faculties are capable of this achievement.

A number of MoUs signed with renowned International Universities have opened up new avenues of collaboration.

Both academic years 2013-14 and 2014-15 were years of realigning the university with typical characteristics of a university with potential to emerge as institution of excellence in teaching – learning with thrust on research resulting in national and international visibility. The next year should be dedicated to consolidation of accomplishments made so far and improve on the teaching technologies and bring greater discipline and better work culture in the University. I am confident that B.S. Abdur Rahman University will march ahead without an element of complacency and with utmost focus.

**Prof. J.A.K. TAREEN**  
**(Padma Shri)**  
**Vice Chancellor**





## **UNIVERSITY VISION AND MISSION**

### **VISION**

B.S. Abdur Rahman Institute of Science & Technology aspires to be a leader in Education, Training and Research in Engineering, Science, Technology and Management and to play a vital role in the Socio-Economic progress of the Country.

### **MISSION**

- ❖ To blossom into an internationally renowned University
- ❖ To empower the youth through quality education and to provide professional leadership
- ❖ To achieve excellence in all its endeavors to face global challenges
- ❖ To provide excellent teaching and research ambience
- ❖ To network with global Institutions of Excellence, Business, Industry and Research Organizations
- ❖ To contribute to the knowledge base through Scientific enquiry, Applied Research and Innovation



## **ADMINISTRATION**

### **FOUNDER**

Alhaj. Dr. B.S. ABDUR RAHMAN

### **CHAIRMAN (BOARD OF MANAGEMENT)**

Mr. ABDUL QADIR A. RAHMAN BUHARI, B.E., M.B.A.

### **VICE - CHANCELLOR**

Dr. Prof. JALEES AHMED KHAN TAREEN (**Padma Shri**), Ph.D., M.Sc., D.Sc.  
(Former Vice Chancellor of Kashmir University, Pondicherry University  
and Former Member of UGC)

### **PRO VICE - CHANCELLOR**

Dr. V.M. PERIASAMY, B.E., M.E., Ph.D.

### **REGISTRAR**

Dr. V. MURUGESAN, M.Sc., M.Phil., Ph.D

### **DIRECTOR (ADMISSIONS & CAMPUS DEVELOPMENT)**

Mr. V.N.A. JALAL, B.A., B.L.

### **CONTROLLER OF EXAMINATIONS**

Dr. I. MOHAMMED BILAL, M.Sc., Ph.D.

## **ACADEMIC**

### **DEAN (ACADEMIC AFFAIRS)**

Dr. T.R. RANGASWAMY, B.E., M.E., Ph.D.

### **DEAN (ACADEMIC RESEARCH)**

Dr. R. RAJA PRABU, B.E., M.E., Ph.D.

### **DEAN (STUDENT AFFAIRS)**

Dr. S. SYED MOHAMED ABDUL MAJEED, M.Sc., M.Phil., Ph.D.

**DEAN (SCHOOL OF COMPUTER, INFORMATION & MATHEMATICAL SCIENCES)**

Dr. K.M. MEHATA., M.Sc., Ph.D.

**DEAN (SCHOOL OF ELECTRICAL & COMMUNICATION SCIENCES)**

Dr. S. KAJA MOHIDEEN, B.E., M.E., Ph.D.

**DEAN (SCHOOL OF INFRASTRUCTURE)**

Dr. M.V. MOLYKUTTY, B.Tech., M.Tech., Ph.D.

**DEAN (SCHOOL OF MECHANICAL SCIENCES)**

Dr. M. MURUGAN, B.E., M.E., Ph.D.

**DEAN (CRESCENT SCHOOL OF ARCHITECTURE)**

Prof. S. RAVI, B.Arch., M.Plan., M.Arch.

**DEAN (CRESCENT BUSINESS SCHOOL)**

Dr. T. RANGARAJAN, Ph.D.

**DEAN (SCHOOL OF LIFE SCIENCES)**

Dr. S. HEMALATHA

**DEAN (SCHOOL OF PHYSICAL AND CHEMICAL SCIENCES)**

Dr. I.B. SHAMEEM BANU, M.Sc., M.Phil., Ph.D.

**DEAN (SCHOOL OF SOCIAL SCIENCES AND HUMANITIES)**

Dr. A. SHAHIN SULTANA, M.A., B.Ed., M.Phil., Ph.D.

**DEAN (SCHOOL OF ISLAMIC STUDIES)**

Dr. P.S. SYED MASOOD JAMALI, M.A., Ph.D.

**DIRECTOR (SPONSORED RESEARCH & CONSULTANCY)**

Dr. V. MURUGESAN, M.Sc., M.Phil., Ph.D.

#### **DIRECTOR (POLYMER NANOTECHNOLOGY CENTRE)**

Dr. R. VASANTHA KUMARI, M.Sc., Ph.D.

#### **DIRECTOR (INTERNATIONAL COLLABORATION)**

Dr. S. PRINCE AROCKIA DOSS, M.Sc., B. Tech., M.E., Ph.D.

#### **DIRECTOR (CRESCENT IAS & CAREER GUIDANCE ACADEMY)**

Dr. HARRISON JOHN THEOPHILUS, M.A. M.Phil. Ph.D.,

#### **DIRECTOR (DATA CENTRE)**

Dr. P. SHEIK ABDUL KHADER, M.Sc., M.Phil., Ph.D., MISTE.

#### **DIRECTOR (FACULTY TRAINING ACADEMY)**

Dr. R. SHRIRAM, B.E., M.E., Ph.D.

#### **DIRECTOR (CENTRE FOR ENERGY RESEARCH AND STUDIES)**

Dr. K. SURESH KUMAR, B.E., M.E., Ph.D.

### **HEAD OF THE DEPARTMENTS**

#### **SCHOOL OF COMPUTER, INFORMATION & MATHEMATICAL SCIENCES**

##### **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

Dr. SHARMILA SANKAR, B.E., M.S., M.E., Ph.D.

##### **DEPARTMENT OF INFORMATION TECHNOLOGY**

Dr. LATHA TAMILSELVAN, B.E., M.E., Ph.D.

##### **DEPARTMENT OF COMPUTER APPLICATIONS**

Dr. P. SHEIK ABDUL KHADER, M.Sc., M.Phil., Ph.D.

##### **DEPARTMENT OF MATHEMATICS**

Dr. P.S. SEHIK UDUMAN, M.Sc., M.Phil. (Maths & CS), B.Ed., Ph.D.

## **SCHOOL OF ELECTRICAL & COMMUNICATION SCIENCES**

### **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Dr. R. RAJA PRABU, B.E., M.E., PGDBA., Ph.D.

### **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

Dr. P.K. JAWAHAR, B.E., M.Tech., Ph.D.

### **DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING**

Dr. D. NAJUMNISSA JAMAL, B.E., M.E., Ph.D.

## **SCHOOL OF INFRASTRUCTURE**

### **DEPARTMENT OF CIVIL ENGINEERING**

Dr. M. S. HAJI SHEIK MOHAMMED, B.E., M.S., Ph.D.

## **SCHOOL OF MECHANICAL SCIENCES**

### **DEPARTMENT OF AEROSPACE ENGINEERING**

Dr. P. VASANTHAKUMAR, B.E., M.S., Ph.D.

### **DEPARTMENT OF AUTOMOBILE ENGINEERING**

Dr. M. SUBRAMANIAN, B.E., M.E., MBA, Ph.D.

### **DEPARTMENT OF MECHANICAL ENGINEERING**

Dr. M. MURUGAN, B.E.,M.E., Ph.D.

### **DEPARTMENT OF POLYMER ENGINEERING**

Dr. S. SYED MOHAMED ABDUL MAJEED, M.Sc., M.Phil., Ph.D.

## **SCHOOL OF PHYSICAL AND CHEMICAL SCIENCES**

### **DEPARTMENT OF PHYSICS**

Dr. M. BASHEER AHAMED, M.Sc., M.Phil., Ph.D.

### **DEPARTMENT OF CHEMISTRY**

Dr. D. EASWARAMOORTHY, M.Sc., Ph.D.

## **SCHOOL OF SOCIAL SCIENCES & HUMANITIES**

### **DEPARTMENT OF ENGLISH**

Dr. P.M. USHA RANI, M.A., B.Ed., M.Phil., Ph.D.

### **OTHERS**

### **DEPARTMENT OF PHYSICAL EDUCATION**

Dr. S. CHANDRAN, B.Sc., B.P.Ed., M.P.Ed., M.Phil., Ph.D.

### **LIBRARIAN**

Dr. P.PANNEER SELVAM, M.A., M. Sc., Ph.D.

### **PLACEMENT & TRAINING CELL**

Mr. S. MOHAMED TAJUDEEN, B.Tech, MBA.,





## SUMMARY

The University is guided by Mr. Abdul Qadir A. Rahman Buhari, Chairman Board of management and administered by a team headed by Prof. J.A.K. Tareen (Padma Shri), Vice Chancellor, Dr.V.M. Periasamy, Pro-Vice Chancellor, and Dr. V. Murugesan, Registrar. University is making sincere efforts to achieve excellence in Teaching - Learning process, Research and Extension activities.

## ACADEMIC

Under the guidance of our Vice Chancellor, the Self Study Report (SSR) for Accreditation of NAAC was uploaded on 10<sup>th</sup> January 2014. A Committee with eight members from NAAC under the leadership of Prof. Anil K. Bhatnagar, former Vice Chancellor of Pondicherry University visited during April 8-10, 2014 & awarded 'A' grade to our University.

In addition to the institutional accreditation by NAAC, B.S. Abdur Rahman University is striving for excellence by applying for individual programme accreditation by NBA (National Board of Accreditation) for all the eligible programmes.

University submitted the Letter of Intent to National Board of Accreditation, New Delhi for the Accreditation of PG Engineering Programme(s) – Phase I & Phase II.

In connection with the same, the Self Assessment Report for the following PG Engineering Programmes Phase I and Phase II were successfully submitted in the e-NBA portal of NBA Accreditation, New Delhi.

### **Phase I:**

- M.Tech. (Structural Engineering)
- M.Tech. (Manufacturing Engineering)
- M.Tech. (Power System Engineering)
- M.Tech. (Communication System)
- M.Tech. (Computer Science & Engineering)

### **Phase II:**

- M.Tech. (Construction Engg. & Project Management)
- M.Tech. (CAD / CAM)
- M.Tech. (Power Electronics & Drives)
- M.Tech. (VLSI & Embedded Systems)
- M.Tech. (Information Technology)

The University implemented new regulation and revised curriculum and syllabi for all UG and PG programmes based on the principle of “Outcome Based Curriculum” in order to enhance the effectiveness of the Teaching Learning process from the academic year 2014-15.

**The Schools and Department attached with is shown below:**

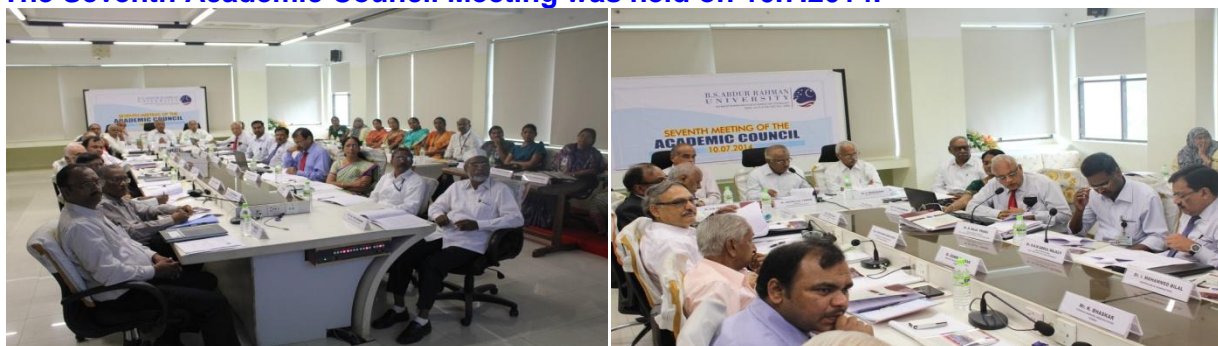
Sl.No	Schools	Departments
1.	Crescent School of Architecture	
2.	School of Infrastructure	Civil Engineering
3.	Crescent Business School	
4.	School of Computer, Information and Mathematical Sciences	Computer Applications Computer Science Engineering Information Technology Mathematics & Actuarial Science
5.	School of Electrical and Communication Sciences	Electrical and Electronics Engineering Electronics and Communication Engineering Electronics and Instrumentation Engineering
6.	School of Islamic Studies	
7.	School of Life Sciences	
8.	School of Mechanical Sciences	Aerospace Engineering Automobile Engineering Mechanical Engineering Polymer Engineering
9.	School of Physical and Chemical Sciences	Chemistry Physics
10.	School of Social Sciences and Humanities	English

**NEW PROGRAMMES INTRODUCED FROM THE ACADEMIC YEAR 2014 -15**

1. B.Tech. (Biotechnology)
2. B.Tech. (Cancer Biotechnology)
3. M.Tech. (Computer Science & Engineering with specialization in Big Data Analytics)
4. M.Sc. Physics
5. M.Sc. & Ph.D Genetics (Integrated)

**ACADEMIC COUNCIL**

**The Seventh Academic Council Meeting was held on 10.7.2014.**



- Three external experts participated in the 7<sup>th</sup> Academic Council Meeting namely, Prof. Syed Mahdi Abbas Rizvi, Prof. of Mech. Engg., Aligarh Muslim University, Prof. P. Venkat Ramaiah, Former Vice Chancellor, Kuvempu University and Former Chancellor, NCTE, Dr. Gowri Sankar, Managing Director India Piston Rings, Chennai.
- Prof. Syed Islam, Professor of Electrical Power Engineering, Curtin University of Technology, Perth, was invited as Special Invitee.
- 41 agenda items were discussed. The highlights are
  - Approval for the modification of Academic Regulations and Curriculum for all UG and PG programmes
  - Approval of Academic policies such as Students' feedback and evaluation, establishment of semester abroad programme, etc.
  - Approval of Value Added programmes
  - Approval of minor modifications of curriculum and syllabus in various schools and departments
  - Approval for the change of name of the department of Mathematics as the department of Mathematics and Actuarial Science.

## BRIDGE COURSE AND REFRESHER COURSE

**Bridge course** was conducted for the lateral entry students admitted during 2014-15 from 23<sup>rd</sup> June 2014 to 11<sup>th</sup> July 2014. Four courses namely, Engineering Mathematics, Engineering Mechanics, Communication Skills and Computer Fundamentals (Theory and Practical) were conducted for the lateral entry students. 57 students attended the bridge course and 5 faculty members guided the students.

**Refresher course** was conducted from 23.6.2014 to 11.7.2014 for the benefit of students who were admitted in the first year B.Tech. programmes in June 2014.

Five courses namely; English, Mathematics, Physics, Chemistry and Fundamentals of Computing were conducted for Freshers. 20 faculty members handled the courses for 192 students.

## ADMISSION 2014-15

The University conducted Engineering Entrance Examination (BSAUEEE) to select candidates for B.Tech. programmes on 20<sup>th</sup> April 2014 all over India.

The Engineering Entrance Examination was conducted in the following 26 centres.



S.No.	In Tamil Nadu - Offline Exam (Paper Pencil mode)	S.No	Other Centres - Online Exam (Computer base mode)		
1.	Chennai	1.	Bhopal	12.	Pune
2.	Coimbatore	2.	Bengaluru	13.	Ranchi
3.	Dharmapuri	3.	Cochin	14.	Srinagar
4.	Erode	4.	Jammu	15.	Visakhapatnam
5.	Madurai	5.	Kolkata		
6.	Nagapattinam	6.	Lucknow		
7.	Nagercoil	7.	Mallapuram		
8.	Ramanathapuram	8.	Nellore		
9.	Tiruchirapalli	9.	New Delhi		
10.	Tirunelveli	10.	Patna		
11.	Vaniyambadi	11.	Puducherry		

More than 2500 candidates appeared for BSAUEEE during the year 2014.

The result of BSAUEEE was published in the university website in the first week of May 2014. Based on the merit of the candidates in the Engineering Entrance Exam and Qualifying examination Rank list was prepared. Councelling for admission to B.Tech. and B.Arch. programmes was conducted for a period of two weeks.



Candidates having the score of 95% and above in their qualifying examination HSC / CBSE / equivalent examination were admitted under free seat category and full fee waiver was offered to them. Candidates who have scored between 90 - 95% were given fee concession as detailed below.

#### Free Seat:

Merit Quota	----	35
Sports Quota	----	02

#### Fee Concession

Merit Quota	----	25
Staff Quota	----	12

This University also allots certain percentage of seats for outstanding candidates in sports & games.

In the academic year 2014-15, 981 candidates have been admitted in various branches of B.Tech. programme and 80 candidates were admitted in B.Arch. programme.

For PG Programmes the concerned departments conducted written test and interview and selected the candidates for admission.

All Engineering and Science & Humanities Departments offer Ph.D. programmes in full time and part-time modes.

**The statistical data for students admitted in UG, PG and Research programmes in the academic year 2014-15 are as follows:**

**UG PROGRAMME:**

**(a) B.Tech.Programme:**

1. Aeronautical Engineering.	----	15
2. Automobile Engineering	----	55
3. Biotechnology	----	59
4. Cancer Biotechnology	----	19
5. Civil Engineering.	----	167
6. Computer Science Engineering.	----	83
7. Electronics & Communication Engineering.	----	92
8. Electrical & Electronics Engineering.	----	60
9. Electronics & Instrumentation Engineering.	----	30
10. Information Technology	----	53
11. Mechanical Engineering.	----	233
12. Polymer Technology	----	35
13. Architecture	----	80

**TOTAL 981**

**(b) B.A. Islamic Studies --- 43**

**(c) B.Tech. (Part-time) Apollo Tyres**

Mechanical Engineering	---	30
Electrical & Electronics Engineering (July)	---	30

**(d) Second Year. B. Tech. (Lateral Entry)**

1. Automobile Engineering.	---	06
2. Civil Engineering.	---	19
3. Computer Science Engineering.	---	06
4. Electronics & Communication Engg.	---	06
5. Electrical & Electronics Engineering.	---	09
6. Electronics & Instrumentation Engg.	---	03

7. Information Technology	---	01
8. Mechanical Engineering.	---	32
9. Polymer Engineering	---	01
<b>TOTAL</b>		<b>83</b>

### PG PROGRAMME:

#### M.Tech Programmes

1. Structural Engineering	---	48
2. Construction Engineering & Project Mgt.	---	36
3. CAD – CAM	---	04
4. Manufacturing Engineering	---	07
5. Power System Engineering	---	10
6. Power Electronics and Drives	---	08
7. Communication Systems	---	15
8. VLSI & Embedded Systems	---	08
9. Electronics and Instrumentation Engg.	---	04
10. Computer Science & Engineering	---	17
11. Information Technology	---	07
12. Software Engineering	---	05
13. Computer and Predictive Analytics	---	01
14. Network Security	---	02
<b>TOTAL</b>		<b>172</b>

#### M. Sc. Programmes

M.Sc. Actuarial Science	---	12
M.Sc. Biotechnology	---	04
M.Sc. Chemistry	---	06
M.Sc. Physics	---	08
M.Sc. Microbiology	---	01
<b>TOTAL</b>		<b>31</b>
M.B.A	---	<b>111</b>
M.C.A/M.C.A.(Lateral Entry)	---	<b>73</b>

### Research Programme:

<b>Ph.D. – 2014:</b>		<b>July'14</b>	<b>January'14</b>
1. Civil Engineering	---	01	08
2. Computer Science Engineering	---	06	13
3. Mechanical Engineering	---	09	08
4. Electrical & Electronics Engineering	---	02	04
5. Electronics & Communication Engineering	---	09	17
6. Electronics & Instrumentation Engineering	---	02	01
7. Information Technology	---	01	07

8. Polymer Technology	---	---	02
9. Management Studies	---	05	03
10. Computer Application	---	02	04
11. Mathematics	---	02	---
12. Physics	---	04	04
13. Chemistry	---	09	01
14. English	---	02	01
15. Islamic Studies	---	---	05
16. Architecture	---	01	---
17. Aeronautical Engineering	---	02	05
18. Automobile Engineering	---	02	---
19. Life Science	---	05	07
		<b>64</b>	<b>90</b>

### CONVOCATION FOR UG PROGRAMMES

The Fourth Convocation for all UG programmes of B.S. Abdur Rahman University was held on wednesday, the 8<sup>th</sup> October 2014 at Convention Centre of this University.

The Chief Guest for the Convocation was Mr. N. Lakshmi Narayanan, Vice Chairman, Cognizant Technology Solutions, Chennai.



534 students were awarded with B.Tech degree of various programmes and 32 students were awarded with degree of B.A. Islamic Studies

Branch	Obtained Degree	I Class with Distn	I Class	II Class
Civil Engg.	69	4	43	22
Mech. Engg.	134	11	84	39
Polymer Engg.	13	3	9	1
EEE	36	1	20	15
ECE	124	21	71	32
E&IE	11	2	5	4
CSE	90	17	53	20
IT	38	3	21	14
Aerospace Engg.	19	2	13	4
B.A. Islamic Studies	32	8	17	7
<b>Total</b>	<b>566</b>	<b>72</b>	<b>336</b>	<b>158</b>

## CONVOCATION FOR PG PROGRAMMES

The Fourth Convocation for all Post Graduate Programmes of B.S. Abdur Rahman University was held on **30th October 2014 in the Convention Centre of the University.**

The Chief Guest Prof. Dr. John Vivian Wood CBE, FEng., D.Met., Ph.D., Secretary-General, Association of Commonwealth Universities – UK, was awarded with Doctor of Engineering Science (Honoris Causa). He delivered the Convocation Address and distributed medals.



519 students were awarded PG degree, out of which 6 with Ph.D., 2 with M.Tech. (by research) 252 with M.Tech., 117 with MBA, 111 with MCA and 31 with M.Sc.

### M.B.A. / M.C.A. DEGREE PROGRAMME

Programmes	Obtained Degree	I Class with Distin.	I Class	II Class
M.B.A	117	17	84	16
M.C.A	111	17	78	16
<b>Total</b>	<b>228</b>	<b>34</b>	<b>162</b>	<b>32</b>



## M.TECH. DEGREE PROGRAMME

Programmes	Obtained Degree	I Class with Distin.	I Class	II Class
Structural Engineering	32	10	16	6
Construction Engg. & Project Management	10	3	6	1
CAD/CAM	8	3	5	0
Manufacturing Engineering	6	2	4	0
Power Systems Engineering	20	6	14	0
Power Electronics & Drives	22	4	15	3
Communication Systems	26	5	21	0
VLSI	29	8	21	0
Electronics & Instrumentation Engg.	10	2	8	0
Computer Science & Engg.	28	6	22	0
Software Engineering	28	7	19	2
Information Technology	30	4	19	7
Opto Electronics	3	2	1	0
<b>Total</b>	<b>252</b>	<b>62</b>	<b>171</b>	<b>19</b>

## M.TECH. (By Research) PROGRAMME

Programmes	Obtained Degree
M.Tech. (By Research) – Polymer	2

## M.Sc. DEGREE PROGRAMME

Programmes	Obtained Degree	I Class with Distin.	I Class	II Class
M.Sc. Chemistry	21	2	13	6
M.Sc. Actuarial Science	10	2	7	1
<b>Total</b>	<b>31</b>	<b>4</b>	<b>20</b>	<b>7</b>

## PH.D. PROGRAMME

Programmes	Obtained Degree
M.Tech. (By Research) – Polymer	2
Ph.D. - ECE	1
Ph.D. - CSE	3
Ph.D. - Chemistry	1
Ph.D. - Mathematics	1
<b>Total</b>	<b>8</b>

## STAFF AS ON DATE

### Teaching staff:

Vice Chancellor / Pro Vice Chancellor / Registrar / Directors (2) / Professional Counsellors (3)	-	8
Professor of Eminence	-	3
Professor	-	61
Associate Professor	-	24
Assistant Professor (Sel.Gr.)	-	19
Assistant Professor (Sr.Gr.)	-	53
Assistant Professor	-	184
Visiting Fac/Scientist/Artist	-	12
School of Islamic Studies Faculty	-	5
Physical Education	-	3
Placement & Training Officer	-	1
<b>Total Faculty</b>	-	<b>373</b>

Faculty Appointed in the year 2014	-	42
Faculty Left in the year 2014	-	29
Faculty with Ph.D.	-	125
Faculty pursuing Ph.D.	-	214
Faculty acquired Ph.D. in 2014	-	10

### Non Teaching staff :

Technical staff	-	81
System Analyst cum Operator / P.A./ Jr. Scientist Asst.	-	36
Administrative Staff	-	64
Drivers	-	4
Attenders	-	58
<b>Total staff</b>	-	<b>243</b>

## NAAC

Under the guidance of our Vice Chancellor, Letter of Intent (LOI) for NAAC was submitted on 30<sup>th</sup> October, 2013 and the Self Study Report (SSR) for Accreditation of NAAC was uploaded in the University website on 10<sup>th</sup> January 2014.



Hard copy of Self Study Report for Accreditation from NAAC was submitted on 14<sup>th</sup> February 2014 at Bangalore.

NAAC Committee with eight members namely Prof. Moin Uddin, from Aligarh Muslim University, Prof. Balasubramaniam, from Mysore University, Prof. Surekha Bhanot, from IIT, Roorkee, Prof. Jacob John from University of Kerala, Prof. Ashok Kumar from Banaras Hindu University, Prof. Jagathy Raj, from Cochin University, Dr. Shyam Sundar, Deputy Advisor of NAAC and co-ordinator of the Team under the leadership of Prof. Anil K. Bhatnagar, former Vice Chancellor of Pondicherry University visited to accreditate B.S.Abdur Rahman University during April 8-10, 2014 and awarded 'A' grade to our University.



## **ACTIVITIES OF INTERNAL QUALITY ASSURANCE CELL**

### **Academic Administrative Audit**

The Academic Administrative Audit was conducted on 27 and 28 March 2014. The former Vice Chancellor of Bharathidasan University, Dr. C. Thangamuthu, along with seven experts from reputed institutions conducted the audit by visiting all schools, departments, administrative office, research, and other common facilities.

The report is presented in five broad sections. The first section deals with the general observations on the university and its performance. The second deals with strengths, weaknesses and suggestions pertaining to various schools / departments / central facilities. The third deals with the governance, administration and finances. The fourth presents the relative performance levels of the faculty based on the study of the data on Academic Performance Indicators (API), and the fifth gives the conclusions.

### **Committee for Lesson plan revision**

A Committee was constituted to revise the lesson plan. The committee recommended a revised lesson plan format incorporating several parameters of outcome based teaching and learning process based on NBA accreditation requirement.

### **Committee for monitoring the conduct of Laboratory courses**

Committee was constituted to monitor the quality of conduct of classes and laboratory work in all departments. The committee inspected and gave detailed report. It also suggested some recommendations to enhance the teaching learning process.

## **IQAC Meetings held**

### **Meeting held on 28.1.2014 and discussed the following items**

- Improvement of the discipline of students.
- Timely conduct of theory and lab classes.

### **Meeting held on 20.6.2014 and discussed the following items**

- Discussion on value added certificate / diploma programmes proposed by all departments / schools
- Starting of new integrated programmes

### **Meeting held on 3.9.2014 and discussed the following items**

- Discussion on NAAC committee suggestions and recommendations for quality improvement of BSAU.
- Registering Ph.D. by the staff members who have not registered so far.

### **Meeting held on 5.2.2015 and discussed the following items**

- Analysis of poor performance of students in certain courses during Nov/Dec exams 2014 and remedial action plan
- Feed back on teachers by the students
- Effective utilization of e-sources
- Root cause analysis for poor performance by the students in the examinations held in Nov/Dec 2014.

## **OPEN HOUSE EXHIBITION HELD IN CHENNAI**

The B.S. Abdur Rahman University has organized an “Open House & Exhibition” in Commemoration of the Celebration of 31 Years of its dedicated service for the cause of Technical Education on 9<sup>th</sup> & 10<sup>th</sup> January 2015 at its University campus, Chennai.

The Open House & Exhibition was inaugurated by Prof. J.A.K. Tareen (Padmashri) Vice Chancellor of B.S.A.U. The exhibition arranged to showcase the Technological developments and Advancements in the fields of Science, Engineering and Technology. The exhibition attracted around 4000 visitors from the City schools including, students, parents and teachers. The students had an opportunity to see the various laboratories associated with different branches of Engineering and Sciences and got a broad idea about the various branches of study.



Innovative working models designed by our University students of different fields of Engineering, Projects addressing societal needs and Exhibits were displayed in the Exhibition.



All terrain vehicles and cars, Nail bed and Nail chair displayed by Mechanical Department, Robots for military and industrial applications, Intelligent House Security systems and Power Generation systems model by EEE Department, House automation system and FM radio transmission by ECE Department, Industrial automation systems and pick and place Robot by EIE department were some of the highly intellectual student projects displayed in the Exhibition. In the Air Shows organized by Aerospace department, remote controlled aeroplanes and helicopter models designed by Aeronautical Engineering students were made to fly and this event highly impressed the visitors.

The cut models of engine and the auto fly displayed by Automobile Department, water purification system model, Bridges and House models constructed using prefabricated technology by Civil Department, CPU model of CSE Department, NFC model and Heartbeat rate monitoring project by CA department, animation picturing by IT Department, highly influenced the visitors .

Live demo of formation of heart in a incubating egg had attracted a huge gathering at Life Science department. The exhibits displayed in the departments of Physics, Chemistry and Maths, Language Lab of English department, the Science Facts by Islamic scholars well before 7<sup>th</sup> century, displayed by the School of Islamic sciences very much attracted the visitors.

Special lectures by eminent personalities on Career Guidance elaborating the Scope, Potential and the opportunities of different branches of Engineering enabled the visiting students to plan their career. This lectures attracted large students and parent participation.

As a part of this Exhibition, In order to promote explorative learning skills amongst school students the university conducted a Science project competition on “Innovations in Physical, Chemical and Biological Sciences” for High school and Higher secondary school students in two streams (Stream A-High School & Stream B-Higher Secondary school). 60 teams participated from 35 schools in this Science Project Competition.

### **OPEN HOUSE EXHIBITION HELD IN MADURAI**

Our University had successfully organised “The Science Exhibition & Technical Expo” at Madurai Crescent School Campus, Madurai on 23<sup>rd</sup> and 24<sup>th</sup> January 2015.

It was inaugurated by Alhaj M.K. Mohamed Hassan, Treasurer. A team of 153 members comprising of 81 boys, 25 girls and 47 faculty members were involved and exhibited 165 working models. 2650 students from 45 Schools visited the two days exhibition.



The Open House & Exhibition was coordinated by Dr.S.Kaja Mohideen, Dean (SECS), supported by Dr.M.Mohammed Ismail, Professor, ECE and Mr. Abubecker, Public Relation Officer.



## CRESTECH

Student level symposium organized by all departments under the banner of CRESTECH during January 2015 - [ECE (IMPULSE), CA (CYBERCREST), EIE (PRECISION), Civil (CIVICLAN ), EEE (CYGNUS), Polymer Engineering (MACRON), Mech (CONFLUENCE), IT (ICON), Aero (JET SCREECH), Auto (AUTO HUNT), CSE (ARCANE)] and around 200 students from 25 various institutions participated. The events conducted during this symposium are Paper presentation, technical quiz, design of webpage, robotics, technical dumb-C, recruitment room (mock interview), project display and so on.

**CRESCIENCE' 15** was conducted by department of Physics in SSSH for the benefit of first year students on 18<sup>th</sup> March 2015. Dr. K. Chandrakumar, inaugurated the state level science level seminar. More than 250 students from different institutions participated in the events such as paper presentations, project display, photo exhibits, etc.

## AUTHORS FORUM

Authors Forum is a unique concept conceived and nurtured by Prof. J.A.K. Tareen (Padmashri) Vice Chancellor at B. S. Abdur Rahman University. The University strongly believes that the teachers can make the best authors and an author would certainly become a better teacher. The Forum has brought together over 227 of the faculty to write books under wide range of subjects in Engineering, Technology, Computer Science, Architecture, Business Management, Physical and Chemical Science and Life Sciences.

The Authors Forum has decided to bring out at least 150 titles in one year and release them on a single day and enter into the Guinness Book of Records and the Limca Book of Records by the end of 2015. B. S. Abdur Rahman University will have the largest number of faculty as authors of books as its faculty among all the Universities in India. At present, 49 books have already been published by leading publishers like the McGraw Hill, Mac Millan and Indian publishers.



## MoU with ANE BOOKS PVT LTD

An MoU has been signed between B. S. Abdur Rahman University and M/s ANE BOOKS PVT LTD on 25<sup>th</sup> September, 2014. Over 154 titles have been jointly undertaken by M/s ANE BOOKS PVT LTS (ABPL) and B. S. Abdur Rahman University (BSAU) for publications and its aims to complete this project by December 2015. Dr. S. Prince Arockia Doss, Director, International Collaborations and Professor of Mechanical Engineering, BSAU is Co-Ordinator of Authors Forum.

Prof. C. Balaji, Professor, Department of Mechanical Engineering, IIT-Madras delivered a special lecture on the title “**JOY OF WRITING**” on 25<sup>th</sup> September, 2014.

Prof. Babu Vishwanathan, Professor, Department of Mechanical Engineering, IIT-Madras delivered a special lecture on the title “**ART OF WRITING**” on 23<sup>rd</sup> December, 2014 and interacted with all the authors at the Authors Forum of the university and gave many clarifications on bringing out unique original volumes.

## **First Endowment Lecture to honour Prof.S Peer Mohamed**, (former Principal & Correspondent, B S Abdur Rahman Crescent Engineering College, now B S Abdur Rahman University)

The first Endowment Lecture to honour Prof. S Peer Mohamed was conducted on 29.04.2014 at the Convention Centre of B S Abdur Rahman University.

Dr.N. Ravichandran, the Executive Director, LUCAS – TVS Private Ltd., Chennai who was closely associated with Prof. Peer Mohamed delivered the lecture on “Manufacturing – The Road Ahead”. During his lecture he brought out the reminiscence of his experience with Late. Prof. S. Peer Mohamed. He proudly mentioned that Prof. S Peer Mohamed ignited him in Production Engineering which is still being sustained in his professional career spanning over 4½ decades.



In his endowment lecture he discussed about the Indian economy and changing the business environment. He also touched upon new paradigm shift in quality management and challenges faced by the manufacturing sector in global market.

He focused on current trends in manufacturing especially on the increased use of Information technology, Modelling simulation, Innovation of global supply chain management and acceptance and support of sustainable manufacturing.

He clearly brought out the history of Lean Manufacturing since 1850 to 2015 and recall the contributions made by the Gurus of quality such as Shewhart, Deming, Juran, Ishikawa, Taguchi and so on. He highlighted the importance of TQM framework and the future scenario of manufacturing sector.

The areas to focus are the structure of factories such a smart, virtual, digital factories, high performance manufacturing and exploiting raw materials, Net shape manufacturing for advanced structural and functional material and product design using sustainable material technologies.

He delivered his endowment lecture with the characteristics of a good engineer for which Prof. S Peer Mohamed stood for, strived for the human principles. Dr. K.M. Mehata, Dean SCIMS coordinated this event.

## MoU with C-DAC

B S Abdur Rahman University has signed an MoU with Centre for Development of Advanced Computing (C-DAC), Chennai on 13<sup>th</sup> January 2015 for setting up a lab for Bharat Operating System Solution (BOSS) - MOOL Operating System at B S Abdur Rahman University. Dr. K.M. Mehata coordinated this program.

BOSS-MOOL has been developed for enhancing the use of free/open source software throughout India which is jointly developed by C-DAC and IIT Chennai. It supports all official Indian languages to enable the non English literature users in the country thus bridging the digital device as well as strengthening the Indian software industry.

Under this MoU, a workshop has been conducted for about 25 faculty members of the School of Computer, Information and Mathematical Sciences during 16-18<sup>th</sup> February 2015.



### BSAU to collaborate with C-DAC to set up computer labs

B S Abdur Rahman University, Chennai, has signed an MoU with Centre for Development of Advanced Computing (C-DAC), Chennai, for setting up a lab for the Bharat Operating System Solutions (BOSS) MOOL Operating System. The BOSS GNU/Linux distribution is developed for enhancing the use of free/open source software throughout India. It supports all official Indian languages to enable the non-English literate users in the country. The MoU was signed in the presence of V Murugesan, Registrar, and VM Periasamy, Pro Vice-Chancellor. JAK Tareen, Vice Chancellor, D Janakiram, Professor, Department of Computer Science and Engineering, IIT Madras and Prof KM Mehata, Dean, School of Computer, Information and Mathematical Sciences of BSAU, were present at the event.





Dr.D. Janakiram, Professor, IIT Madras gave a keynote address emphasizing the special features of BOSS-MOOL and the need for adapting open source software in order to motivate the students to undertake challenging projects in this Operating Systems as the source code is freely given to the staff and the students. About 5 senior engineers from C-DAC have conducted this workshop and gave adequate hands on experience on “BOSS-MOOL OS”. Certificates were distributed for all the staff who have undergone this training programme.



### **MoU with University of North Carolina**

An MoU was signed with the University of North Carolina (UNC), one of the oldest State universities of the US. Professor Carl W Ernst, director of the Carolina Center for the Study of the Middle East and Muslim Civilizations, represented the University of North Carolina, while M Murugesan, Registrar, represented B S Abdur Rahman University. The MoU would facilitate close collaboration between the two universities for student exchange, faculty exchange, collaborative research and organising international seminars and conferences jointly. The School of Islamic Studies, BSAU, and the Department of Religious Studies, UNC, will take the first step and initiate implementation of the MoU.



### **MoU with University of Cambridge**

An MoU was renewed by the Department with Cambridge ESOL in November 2014. Business English Certificate courses at the Preliminary and Vantage levels are offered to all Students of B.Tech course.



### **MoU with Sparx Systems, India**

An MoU between BSAU and Sparx Systems was signed to facilitate a partnership for training of students and use of the software Sparx Enterprise Architect as well as making BSAU as its hub for development and application of products using this software.



### **MoU with ABE Semiconductor Designs, Chennai**

Our University has signed MoU with M/s. ABE Semiconductor Designs, Chennai on 06<sup>th</sup> January, 2014. Mr.Athif Shah, Managing Director and our Registrar Dr.V.Murugesan signed the MoU for five years. As per the MoU, the company will support the university in conducting seminars, workshops, short term and long term courses on Embedded Systems. The company will support our faculty for research and development activities, submission of funded projects, guiding projects on Embedded systems.

## **MoU with Shabeel Honda**

MOU was signed with Shabeel Honda (Honda Two wheeler dealer) on 24.09.2014 .The chief executive officer Dr. Shah Dupesh khanof shabeel honda and Dr. V. Murugesan Registrar signed the MOU to promote Industry Academic activities in BSAU. Dr. Shah Dupesh khan presented one guest lecture on 11.08.2014 on project areas in Automobile Enggineering to final year students. Shabeel Honda actively participated in Open House Exhibition and Symposium (AUTO HUNT 2015). Shabeel Honda carried out campus Recruitments for Final year Automobile students on 09.03.15 .Four students were selected.

## ACADEMIC RESEARCH

- As BSAU is aiming to become a Research Intensive University, the Vision and Mission statements are prepared accordingly and the same is given wide publicity among the Research Scholars and Faculty members.
- In order to provide Policy guidelines and direction for the research activities, a Research Advisory Committee and Research Board are in place.
- Periodical Conferences (International & National), Seminars, Workshops, Development Programmes, Training Programmes are conducted by the various departments of this university in the latest and upcoming Research areas
- To emphasize the quality aspects of Research, Periodical training / Workshop is conducted by Office of Dean (AR). For eg., A one day workshop on “Quality Assurance in Academic & Sponsored Research” is conducted by Office of Dean (AR).
- To throw more light on sensitizing the Research ambience, the Vision & Mission statements of Academic Research is furnished below:

### VISION

B.S. Abdur Rahman University strives to be a “Research Intensive University” through various quality enhancement and sustainable initiatives.

### MISSION

- To offer Ph.D programme in all the Departments of the University
- To offer Research Fellowships (JRF & SRF) in all the Departments to lure young talents
- To conduct periodical Review Meetings for research scholars to ensure Quality
- To disseminate the research findings through Publications
- To introduce Innovative Schemes to encourage quality research & to increase number of Research Publications
- To introduce a conducive ambience, so as to bring in a research culture in the University

### TRAINING PROGRAMMES OFFERED

As a part of MoU signed between PPKS and BSAU, three Lady Faculty members of PPKS, Malaysia were given training in our campus during 12<sup>th</sup> November, 2014 to 28<sup>th</sup> December, 2014.

- Ms. Syuhaira Binti Mohd Zin, Electrical Lecturer
- Ms. Faheezah Bt Mohamad Ibrahim, Computer Science Lecturer



- Ms. Catherine Anak Guma, Computer Science Lecturer were the members of PPKS faculty got trained at B.S.A.U.
- The valediction for the PPKS faculties was conducted at 2.30 p.m. on 26.12.2014 and certificates were issued for the successful completion of the Faculty training programme.

### PAPERS PUBLISHED/ PRESENTED IN JOURNALS & CONFERENCES

National Conference	International Conference	National Journal	International Journal	Total
127	152	12	339	630

### DETAILS OF IMPACT FACTOR OF THE PUBLICATION H-Index

- a) RANGE : 0.168 – 2.762
- b) AVERAGE : 1.67
- c) h-INDEX : 26
- d) NO. IN SCOPUS : 1040

### ACHIEVEMENTS OF STUDENTS

#### ➤ Outcome of Research Scholars

#### ❖ Ph.D & M.Tech (By Research) Degree from B.S.A.U.

- Six Ph.D. and Two M.Tech.(By Research) scholars were awarded degree during the Fourth Convocation held on 31.10.2014. The details of the awarded scholars are as follows:

Sl. No.	RRN No.	Title of the Thesis	Name of the Scholar	Name of the Supervisor
1	0989205	Operations Research / Inventory Control	Ms. Dowlath Fathima	Dr. P. S. Sheik Uduman
2	1086213	Knowledge Management /Reliable method & Metrics for Evaluating Knowledge Management Infrastructure	Mr. D. Venkatasubramanian	Dr. Angelina Geetha
3	0984203	Lossless Compression and Error Free Transmission of medical images	Ms. P. Nallathai	Dr. N. Nithyanandam
4	1194207	Light Weight Middleware Architecture for CLIR in Mobile Phones	Mr.Dinesh Mavaluru	Dr. R. Shriram
5	1091212	Inorganic Metal Complex	Ms. L. Lekha	Dr. D. Easwaramoorthi

6	1186221	Computer Architecture Embedded	Mr. Govindarajalu B	Dr. K. M. Mehata
7	1062202	Development of Hybrid Polymeric Composite for Sound Absorption	Ms.R. Gayathri	Dr. R. Vasanthakumari
8	1162205	Elastomer Nano Composites	Ms.Vijayalekshmi V	Dr. S.S.M.Abdul Majeed

❖ **Photos taken during IV convocation held on 31.10.2014**



❖ **Ph.D Degree from other universities**

- The faculty members who were pursuing Ph.D in other Universities were awarded Ph.D degree during this period. The details of the awarded scholars are as follows:
  - Dr. V. Vandhana Devi, Assistant Professor (Sel. Gr) / Civil
  - Dr. M.Mohammed Ismail, Professor/ECE
  - Dr. G. Kannan, Assistant Professor / ECE
  - Dr. S.Revathi, Associate Professor / CSE
  - Dr. Sabiyath Fatima, Assistant Professor(Sel. Gr.)/CSE
  - Dr. M.Kabeer, Assistant Professor (Sel. Gr.)/IT
  - Dr. N.Anuradha, Assistant Professor(Sr.Gr.)/CBS
  - Dr. M.Jamal Mohamed Zubair, Assistant Professor/CBS
  - Dr. T.R.Ramesh Rao, Assistant Professor(Sel.Gr.)/Maths
  - Dr. A.Shajahan,Asst. Prof(Sel.Gr.)/Chemistry

❖ **Viva-Voce Exam completed**

- One Ph.D. scholar Mr. Ashaq Hussain Shah has completed the Viva Voce Examination on 08.12.2014 and is awaiting for the convocation

❖ **Thesis Submitted**

- Four Ph.D. scholars have submitted their Thesis

❖ **Synopsis Submitted**

- Four Ph.D. scholars have submitted their Synopsis

❖ **Ready for Synopsis Submission**

- Three Ph.D. scholars are recommended for Synopsis submission after Pre Synopsis Review Committee meeting

**MoUs SIGNED**

- ❖ MoU was signed between B.S. Abdur Rahman University and University college of Technology Sarawak, Malaysia and Sarawak Foudation, Malaysia on 9<sup>th</sup> December 2014, at B.S. Abdur Rahman University, Chennai in the presence of His Excellency TUN PEHIN SRI HAJI ABDUL TAIB MAHMUD, Governor of the state of of Sarawak, Malaysia.



- ❖ The Meeting of the 20<sup>th</sup>, 21<sup>st</sup> & 22<sup>nd</sup> Research Boards were held on 07.03.2014, 20.06.2014 & 18.11.2014 respectively and the highlights of the same are furnished below:

➤ **Highlights of the 20<sup>th</sup> Meeting of the Research Board**

❖ **Approved Research Supervisor**

- Two eligible faculty members of the University, who have applied for Supervisor recognition, are recognized as Research Supervisors of B.S. Abdur Rahman University based on the recommendation of 20<sup>th</sup> Research Board Meeting.

❖ **Ph.D Admission – Special Session – March 2014**

- 14 candidates were admitted for the Ph.D admission – Special session held during March 2014

❖ **Revision of Research Incentive Scheme Guidelines**

- Revised the Research Incentive Scheme norms based on Committee's recommendations.

- **Highlights of the 21<sup>st</sup> Meeting of the Research Board**
  - ❖ **Approved Research Supervisor**
    - Four eligible faculty members of the University, who have applied for Supervisor recognition, are recognized as Research Supervisors of B.S. Abdur Rahman University based on the recommendation of 20<sup>th</sup> Research Board Meeting.
  - ❖ **Ph.D Admission – July 2014 session**
    - 71 candidates were admitted during the Ph.D admission held during July 2014.
- **Highlights of 22<sup>nd</sup> Research Board**
  - ❖ The Meeting of the 22<sup>nd</sup> Research Board was held on 18.11.2014 and some of the recommendations of the research board which got implemented successfully, after the approval of Vice Chancellor are presented below:
  - ❖ **New Norm for Foreign Examiner to evaluate the Ph.D Thesis**
    - The Board recommended that a “Minimum of 10 research publications in refereed/indexed journals, out of which 3 shall be in the area of research of the scholar” shall be prescribed as a minimum norm for proposing the foreign examiner.
  - ❖ **Central Research Facility**
    - The Board members recommended Dean (AR) to constitute a committee to identify the “Central Research Facilities” and issued orders accordingly.
  - ❖ **Scrutiny Committee**
    - The Research Board decided to endorse and recommend to the Vice-Chancellor, for final approval, to enable the Dean (Academic Research) to Reconstitute a committee with three more senior faculty members for scrutiny of the Thesis of the research scholars
  - ❖ **Approved Research Supervisor**
    - Four eligible faculty members of the University, who have applied for Supervisor recognition, are recognized as Research Supervisors of B.S. Abdur Rahman University based on the recommendation of 22<sup>nd</sup> Research Board Meeting.
  - ❖ **Ph.D Admission – January 2015 session**
    - 14 candidates were admitted during the Ph.D admission held during January 2015 session.
- **Significant Statistics**
  - ❖ More than 126 faculty members of BSAU are recognized as “Approved Supervisors” for guiding the research scholars of this University.
  - ❖ 220 faculty members of BSAU are pursuing Ph.D research in various universities.
  - ❖ Ninety nine candidates were admitted into Ph.D programme of our university during March 2014 special session, July 2014 & January 2015 session(s).
  - ❖ As on date, 416 research scholars are pursuing research in our university in various research topics.
  - ❖ Currently, there are 30 Junior Research Fellows and 02 Senior Research Fellows are pursuing research in our university.

- ❖ In addition, government research fellowships like Maulana Azad research fellowships were awarded to five of our research scholars. Also, one CSIR fellowship, three fellowship through DST project and one fellowship through Rajiv Gandhi Fellowship are awarded to our research scholars.
- ❖ All the departments have conducted the meeting of the progress review for this semester and the minutes were submitted to the office of Dean (AR).
- ❖ Review on usage of Anti-Plagiarism Software – “Turnitin” was conducted on 06.02.2014.
- ❖ One Day workshop on “Quality Assurance in Academic & Sponsored Research” at 9.15 AM on Saturday, the 7th March 2015



➤ **Research Incentive Scheme**

- ❖ Circulars were sent to all the faculty members to submit their claims for their Research performance for the period of 1<sup>st</sup> July 2013 to 30<sup>th</sup> June 2014 under Research Incentive Scheme and received 74 claim forms for the Research Incentive Scheme and the scrutiny process is in progress.

➤ **Open House Exhibition**

- ❖ Open House Exhibition was conducted during 30-31 March 2014 & 9-10 January 2015 in B.S.A.U. campus and on 24-25 January 2015 for the benefit of PG students who are looking for Ph.D admission in B.S. Abdur Rahman University.



- ❖ Significant research outputs were displayed at the stall and necessary informations were provided to the visitors.

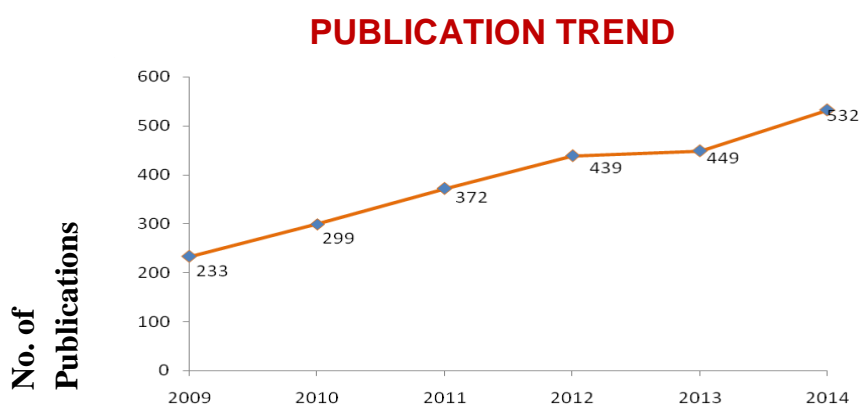
➤ **Quarterly analysis of Research Publications**

- ❖ It has been a practice of the Office of Dean (Academic Research) to collect the details of Research Publications (INJ, NJ, INC, NC) of the faculty members for our university database once in 3 months, i.e., every quarter and make a analysis of the same.
- ❖ The criteria to be considered for the analysis include the following:
  - Consolidation of research publication for 3 months
  - Publication trend
  - Citations trend
  - h-Index analysis



➤ **An overview of the Research publications of University as of Dec 2014 is given below:**

- ❖ Total no. of Research Publication = 3096
- ❖ No. of Publications for the period 1984 – 2008 = 1055
- ❖ No. of Publications for the period 2009 – Dec 2014 = 2324
- ❖ Total number of faculty = 374
- ❖ Total no. of publications of the faculty = 3379
- ❖ No. of publications per faculty = 9 (= 3379 / 374)



**(i) Details of Indexed Publications**

Parameter	Category	
	Journals	Conferences
Total number of publications	1,040	1,284
Indexed	723	189
Non-Indexed	317	1,095
Indexed Percentage	69.5%	17.3%

**(ii) Details of Peer Reviewed publications (As on 31.10.2014)**

Parameter	Category		Total
	Journals	Conferences	
Total number of publications	1,040	1,284	2,324
Scopus	306	105	411
WOS	140	0	140
IEEE	4	91	95
Google Scholar	614	160	774
EBSCO Host	45	0	45
<b>Overall</b>	<b>1,040</b>	<b>1,284</b>	<b>2,324</b>

**(iii) Citation Trend: (As on 31.10.2014)**

- ❖ Total no. of citations as on 31.10.2014 = 3932
  - No. of citations from 1984 – 2008 = 1440
  - No. of citation from 2009 – 31.10.2014 = 2492
- ❖ Average Citation Index as on 31.10.2014 = 3.90
- ❖ Average Impact Factor of Publications = 1.67

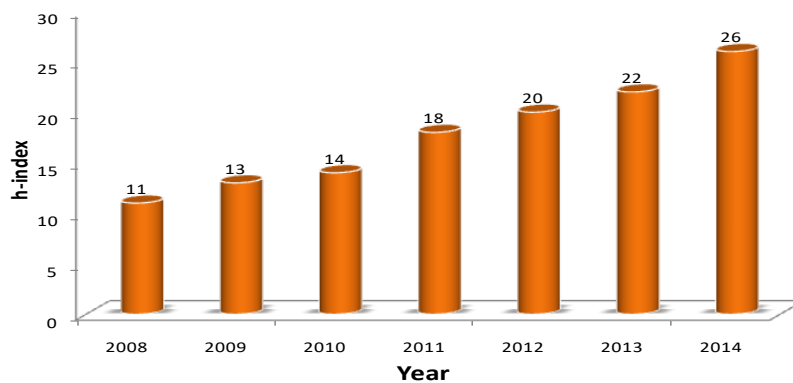
**CITATION TREND**  
**(after becoming University)**



➤ **Scopus h-index of B.S.A.U.**

- ❖ The SCOPUS h-index for the research publications of our university is grown to 26, indicating the University’s strong foot hold in research.

**Scopus h-index of B.S. Abdur Rahman University (As on 31.10.2014)**



## SPONSORED RESEARCH

### PROJECTS APPLIED DURING 2014

S. No.	Title of the Project	Principal Investigator	Name of the Funding Agency	Proposed Project Cost (in Lakhs)
1	Mitochondrial Oxidative Stress is critical for the Pathogenesis of Diabetic Cataract: Impact of Mitochondrial endogenous Anti-Oxidants and DNA Repair Mechanisms	Dr. S. Hemalatha Prof. & Dean of School of Life Sciences Dr. M.K. Sangeetha Research Scientist	DBT	30.93
2	Synthesis of transcriptional modulators (spiro isoxazolidines synthesis through 1,3-dipolar Cycloaddition methodology) and their applications in neurodegeneration and Alzheimers: Identification of pathways and targets.	Dr. S. Hemalatha Prof. & Dean of School of Life Sciences Dr. S. Mahasampath Gowri Asst. Prof. of Chemistry	SERB	81.00
3	Identifying the molecular basis of peroxidase activity of Peroxiredoxin 6 - An approach for designing Antioxidant Peptides and Inhibitors	Dr. Md Khurshid Alam Khan Asst. Prof. of School of Life Sciences	SERB - Startup Research Grant	27.54
4	Mitochondrial Oxidative stress during Pathogenesis of diabetic Cataract - Impact of Mitochondrial DNA Damage, Endogenous Anti-Oxidants and DNA Repair Mechanisms	Dr. M.K. Sangeetha Research Scientist	DST- SERB (Young Scientist)	27.27
5	Modelling and analysis of Tumor Growth as a Hybrid Dynamic System with Unique SCBZ Approach	Dr. Neesar Ahmed Asst. Prof. of SLS Prof. P.S. Sehk Uduman Prof. of Mathematics Prof. I. Raja Mohamed Prof. of Physics	DST – EMR	52.67

6	Coastal Hazards: Harmful Algal Bloom (HAB) Marine algal toxins induced neurodegeneration and analysis of gene expression	Dr. S. Hemalatha Prof. & Dean of Life Sciences	CSIR – Special Theme Programme	90.00
7	Synthesis of Metal Organic Frameworks for Oxidative Catalysis	Dr. J. Herbert Mabel Asst. Prof. of Chemistry	DST - SERB	34.00
8	Synthesis and characterization novel Nicotinamide derivatives: Efficacy in controlling human bacterial pathogens and plant fungal pathogens	Dr. D. Easwaramoorthy Prof. & HOD of Chemistry Dr. S. Hemalatha Prof. & Dean of School of Life Sciences	SERB	90.00
9	Cost Effective High temperature carbon-carbon composites from jute & acrylic cloth for strategic applications	Dr. R. Vasanthakumari Director, PNTC Mr. Murali Manohar Asst. Prof. of Polymer Engg.	CSIR-HRDG, New Delhi	20.10
10	Application of Polyoxometalates as Heterogeneous Catalyst for organic transformations	Dr. S. Kutti Rani Prof. of Chemistry Dr. D. Easwaramoorthy Prof. & HOD of Chemistry Dr. I. Mohammed Bilal Prof. of Chemistry	CSIR-HRDG, New Delhi	20.20
11	Application of Multimedia Wireless Sensor Network to assist Aedes Aegypti Vector control for Eradication of Dengue	Dr. C. Tharini Prof. of ECE	ICMR	17.40
12	Ubiquitin mediated regulation of Inflammatory Tumor Microenvironment in specialized lipid raft	Dr. Neesar Ahmed Asst. Prof. of Life Sciences	CSIR	10.69
13	Understanding the regulatory steps of glycolysis in cancer associated fibroblasts : Implications in tumorigenesis	Dr. S. Hemalatha Prof. & Dean of School of Life Sciences Dr. Amrita Roy	Lady Tata Memorial Trust	5.68

14	To Study the Effect of Diclofenac and Osmolytes on Protein Stability in Renal Dysfunction	Dr. Shazia Jamal Asst. Prof. of Life Sciences	DST - SERB	22.75
15	Investigation of Multiferroic properties of rare earth and transition metal doped bismuth ferrite for functional applications	Dr. I. Shameem Banu Prof. of Physics	DST - SERB	23.61
16	Synthesis and studies on multiferroic properties of rare earth and transition metal doped Bismuth ferrite nanoceramics for sensor applications	Dr. I. Shameem Banu Prof. of Physics	UGC-DAE CSR	8.50
17	Modelling and Analysis of Tumor Growth as a Hybrid Dynamical System with unique SCBZ Approach	Prof.P.S.Sejik Uduman Prof. of Mathematics	SERB	52.67
18	Synthesis of antimicrobial nanoemulsions for the treatment of multi-drug resistant ESKAPE pathogens	Dr. Karthikeyan Ramalingam Asso. Prof. of School of Life Sciences	SERB Start up Grant	27.63
19	Design, Modelling and Sensitivity Analysis of Electromagnetic Analysis of a Flux Reversal Machine including Verification through Proto-Typing	Dr. K.N. Srinivas Prof. of EEE	DRDO	22.60
20	Mitochondrial STAT3 as a novel anticancer and antidiabetic target for resveratrol	Dr. Soumen Bera Asst. Prof. of Life Sciences	ICMR	47.26
21	Targeting E3 Ligases involved in The Retinal Inflammation of Diabetic Retinopathy	Dr. Neesar Ahmed Asst. Prof. of Life Sciences	ICMR	41.58
22	Rapid detection (hand held detector) for multidrug-resistant organisms (eskepe pathogen) by surface enhanced raman scattering"	Dr. Karthikeyan Ramalingam Asst. Prof. of Life Sciences	ICMR	42.50

23	Masked mycoestrogen zearalenone (ZEA) : Exploitation of biochemical and molecular mechanisms associated with exposure to ZEA and identification of targets and inhibitors	Dr. S. Hemalatha Prof. & Dean of School of Life Sciences Dr. Karthikeyan Ramalingam Asso. Prof., of Life Science Dr. Hannah Pondicherry University	DBT	113.80
24	Vitamin B12 deficiency modulates life span, fertility, life cycle and induces neurodegeneration through insulin signaling and ER stress	Dr. S. Hemalatha Prof. & Dean	DBT	89.40
25	Glycolytic regulatory enzymes in modulating tumor microenvironment and cancer progression	Dr. S. Hemalatha Prof. & Dean of School of Life Sciences Dr. Amrita Roy	ICMR	23.00
26	Design and implementation of Two Degree of Freedom Fractional Order PID Controllers for Industrial Control Loops	Dr. U. Sabura Banu Prof. of E&IE	SERB	23.27
27	Synthesis of antimicrobial nanoemulsions for various treatment modalities against multi-drug resistant ESKAPE pathogens	Dr. Karthikeyan Ramalingam Asso. Prof. of School of Life Sciences	DBT Ramalinga- swami Re-Entry Fellowship	88.00
28	"Synthesis and characterization of multiferroic nanocomposites for functional applications"	Ms. P. Komalavalli	Women Scientist Scheme (WOS-A)	18.80
29	"Targeting E3 ligases involved in the Retinal Inflammation of Diabetic Retinopathy"	Dr. Neesar Ahmed Asst. Prof. (Sr. Gr.) School of Life Science	ICMR Grant-In- Aid of Ad-Hoc Research Project.	38.77
30	"Study of specific features of the corrosion process of low-carbon steel with submicrocrystalline structure in the frictional interaction, and principles of formation of	Dr. R. Rajendran Professor / School of Mech. Engg. Dr. Vladimir Semenov Institute of Physics of Advanced Materials	DST - RMES Joint Call (collaborative project between India and Russia)	16.92

	anticorrosion and antifriction coatings on the base of aluminum and zinc”	Ufa State Aviation Technical University, Russia		
31	Food preservation using high voltage Pulsed Electric Field	Mrs. R. Ramya Assistant Professor of Electrical and Electronics Engineering	Department of Scientific and Industrial Research - Technology Development and Utilization Programme for Women	20.00
32	Study of the impact of desalination plant on coastal erosion, Bay of Bengal Coast, Tamil Nadu	Dr. M.V. Molykutty Prof. & Dean of School of Infrastructure	Natural Resources Data Management System (NRDMS) - DST	9.44
33	Fuzzy fixed point theorems in Hybrid Dynamical Systems and their Algorithms	Dr. S. Srinivasan Professor of Department of Mathematics	SERB - DST	16.76
34	Antimicrobial Efficacy and Mechanisms of Herbal Extract Fractions (Traditional Herbal Tooth Powder Formula) on Biofilm Forming Cariogenic Microorganisms	Dr. Karthikeyan Ramalingam Assoc. Prof., of School of Life Sciences	Extramural Research Schemes of Department of AYUSH, Ministry of Health & Family Welfare	29.96
35	Immunosuppressive cells within inflammatory Tumor Microenvironment	Dr. Neesar Ahmed Asst. Prof. (Sr. Gr.) of School of Life Science	SERB Scheme for Startup Research Grant	24.66
36	Conducting Carbon metal nanocomposite from yard waste (waste leaves) for electrode and capacitor application	Dr. R. Vasanthakumari Director, PNTC Mr. Murali Manohar Asst. Prof. of Polymer Engg.	DST - Nano Mission	53.54

37	Circulating micro RNAs: A Diagnostic, Prognostic and Predictive Biomarker for Diabetic Retinopathy	Dr. S. Hemalatha Prof. & Dean of School of Life Sciences	DST	41.77
38	First global assessment of circulating micro RNAs as Diagnostic Biomarkers in Diabetes Mellitus	Dr. S. Hemalatha Prof. & Dean of School of Life Sciences	US-India Science and Technology Engowment Fund	37.00
39	Endotoxins induced Neurodegeneration and Protection by phytocompounds - A recombinogenic approach	Dr. S. Hemalatha Prof. & Dean of School of Life Sciences	Tamilnadu State council for Science & Technology, Chennai	4.50
<b>Total</b>				<b>1,446.17</b>

### ONGOING PROJECTS 2014

NO.	TITLE OF THE PROJECT	NAME OF THE PRINCIPAL INVESTIGATOR	FUNDING AGENCY	YEAR	GRANTS SANCTIONED (RS. IN LAKHS)	GRANTS RECEIVED (RS. IN LAKHS)
1	Wear behavior of duplex coated steels	Dr.R.Rajendran Prof. of Mechanical Engineering	UGC-DAE	2013-14	760200	253400
2	Development of COF/polyimide composites with low dielectric constant for microelectronic applications	Dr. P. Revathi Prof. of Chemistry	DST	2013-16	2350000	1300000
3	Investigation of chaotic and strange non-chaotic phenomena in coupled non linear circuits and systems	Dr. I. Raja Mohamed Dept. of Physics	SERB - DST New Delhi	2013-16	3246000	2500000
4	Preparation of rare-earth doped molybdate nanostructures using soft chemical route for optoelectronic applications	Dr. J. Thirumalai Dept. of Physics	SERB - DST New Delhi	2013-16	2364000	1520000



5	Diastereoselective Intramolecular Cyclopropanation of Enol Ethers derived from Aminoacids : A Novel Access to Aza-C-Glycosides.	Dr. J. Elangovan Dept. of Chemistry	CSIR	2013-16	1300000	243333
<b>Total</b>					<b>10020200</b>	<b>5816733</b>

### SANCTIONED PROJECTS

SL. NO.	TITLE OF THE PROJECT	NAME OF THE PRINCIPAL INVESTIGATOR	FUNDING AGENCY	YEAR	GRANTS SANCTIONED (RS. IN LAKHS)	GRANTS RECEIVED (RS. IN LAKHS)
1	Seismic Performance of FRP Confined Steel tube in-filled Concrete Columns	Dr. P. Gajalakshmi Dept. of Civil Engg.	Ministry of Earth Sciences, New Delhi	2014-17	2910090	2006290
2	Applications of Gold Catalysis For The Synthesis Of Bioactive Heterocyclic And Natural Product Mimic	Dr. K.Karthikeyan Dept. of Chemistry	DST	2014-17	1966000	200000
3	Bismuth titanate quantum dots for photo voltaic application	Ms. R. Saai Harini Res. Scholar, Dept of Chemistry	Women Scientist Scheme - DST	2014-17	1254000	418000
4	Synthesis, characterization and optimization of QDs on TiO <sub>2</sub> surface for quantum dot solar cells	Dr. M. Asha Jhonsi Asst. Prof. of Chemistry	INSA - INSPIRE	2014-17	1976000	920000
5	GPX-1, gene polymorphisms and mitochondrial Ros signaling in cancer risk	Dr. Soumen Bera Asst. Prof. of Life Sciences	SERB - DST	2014-17	2470000	1545000
6	Synthesis of Novel Low Band Gap Polymer Materials for Solar Cell Applications	Dr. Vajjiravel Murugesan Prof. of Chemistry	SERB	2014-17	2378000	1360000

7	Development of Oil Absorbing Polymer Product for Efficient Removal of Oil Spills in Sea Water	Dr. R. Vasanthakumari Director, Polymer Nano Technology Centre	NRB	2014-16	2004000	1402000
8	Development of Graphene - SrTiO <sub>3</sub> based hybrid photocatalytic system for the production of solar fuels	Noor Aman Ahrar Mundari Prof. of Chemistry	SERB	2014-17	2498000	1540000
9	“Synthesis and characterization of multiferroic nanocomposites for functional applications”	Ms. P. Komalavalli	Women Scientist Scheme (WOS-A)	2014-17	1419000	530000
10	Identifying the molecular basis of peroxidase activity of Peroxiredoxin 6 - An approach for designing Antioxidant Peptides and Inhibitors	Dr. Md Khurshid Alam Khan Asst. Prof. of School of Life Sciences	SERB - Startup Research Grant	2014-17	1430000	300000
11	To Study the Effect of Diclofenac and Osmolytes on Protein Stability in Renal Dysfunction	Dr. Shazia Jamal Asst. Prof. of Life Sciences	DST - SERB	2014-17	1360000	300000
<b>Total</b>					<b>21665090</b>	<b>10521290</b>

# INTERNATIONAL COLLABORATION

## MoUs SIGNED

- MoU has been signed between B. S. Abdur Rahman University, India and Florida Atlantic University, USA on 13<sup>th</sup> May, 2014 to promote international academic cooperation between the two Universities to expand scholarly ties, facilitate academic cooperation, and promote mutual understanding in broad areas.
- MoU has been signed between B.S. Abdur Rahman University, India and Universidade Federal Do Rio Grande Do Norte – UFRN, Brasil, on 20<sup>th</sup> June, 2014 to establish a mutual and wide cooperation between BSAU and UFRN, Brasil.



- MoU has been signed between B. S. Abdur Rahman University, India and University of North Carolina at Chapel Hill, USA, on 11<sup>th</sup> August, 2014 to establish a relationship that will be of mutual benefits of their respective institutions.

- MoU has been signed between B. S. Abdur Rahman University, India and University College of Technology Sarawak (UCTS), Malaysia on 09<sup>th</sup> December, 2014 with the participation of “H.E Tun Pehin Sri Haji Abdul Taib Mahmud” his Excellency Governor of the State of Sarawak, Malaysia.



- MoU has been signed between B. S. Abdur Rahman University, India and Sarawak Foundation (Yayasan Sarawak), Malaysia on 09<sup>th</sup> December, 2014 with the participation of “H.E Tun Pehin Sri Haji Abdul Taib Mahmud” his Excellency Governor of the State of Sarawak, Malaysia.



## JOINT INTERNATIONAL RESEARCH PROJECTS SUBMITTED

- A collaborative project in partnership with Mississippi State University, USA and BSAU was submitted to USAID – PAGE (United States Agency for International Development – Powering Agriculture Energy Grand Challenge for Development) along with Prof. Yucheng Liu, Associate Professor, Mechanical Engineering Department, Mississippi State University, USA, on the application of Clean Energy Technology in a developing country during November 2014, Dr .S. Prince Arockia Doss as co-investigator.

- UK-India Joint Research Project from BSAU on Wave and Tidal Energy Research
  - Theme1: “Energy storage” – in partnership with Cardiff University - Prof. Tim O’ Doherty and BSAU team– Prof. Dr. R. Raja Prabu, Prof. Dr. M. M. S. Abdul Majeed, Prof. R. Agatha, Miss. S. Sumaiya, Electrical Engineering Department.
  - Theme 2:“River Basin Technologies” – in partnership with Cardiff University, Prof. Tim O’ Doherty and BSAU team - Dr. S. Suriya, Dr. V. Vanthana Devi, Civil Engineering Department.
  - Theme 3: “Impact on Ecosystem” - SAMS - Scottish Association for Marine System, Dr. Lucy Greenhill and BSAU team - Prof. Dr. Hema Latha, Prof. Karthikeyan Ramalingam, School of Life science.
- Prof. R. Vasanthakumari, Director, Polymer Nano Technology Centre, BSAU – India in partnership with Plymouth University, UK and Texas Tech University, USA has submitted a joint research proposal for GII – Grant on 31<sup>st</sup> October, 2014 to develop “Smart Polymer Nano fibre based sensors for ECG monitoring under ambulatory conditions.” With Dr. David Jenkins as the lead from Plymouth University.

### **STUDENTS SEMINAR**

- Seminar on State Funded Education in Europe was organized on 11<sup>th</sup> September 2014 to the students of Mechanical Engineering, Civil Engineering and Automobile Engineering.

### **VISIT TO PARTNER UNIVERSITIES**

- Mr. Syed M Buhari, Member, Board of Management, B. S. Abdur Rahman University visited University of Toronto, Canada on 11<sup>th</sup> November 2014 and interacted with the head of International Affairs, Mrs. Vinitha Gengatheran and Manager Mrs. Skanda Sundersan and explored possible avenues for establishing Summer term courses and faculty exchange programs between BSAU and University of Toronto, Canada.

### **INTERNATIONAL DELEGATION VISIT**

- Dr. Gunther Andersson, Associate Professor in Physics, Chemical Physics and Nanotechnology Centre and Tanya Clarke, Country Manager, Flinders University, Australia, visited BSAU, on 27<sup>th</sup> March, 2014 and interacted with professors carrying out research in Nanotechnology from Mechanical Engineering, Chemistry, Physics, Polymer Nanotechnology and visited the labs at Polymer Nanotechnology Centre, Physics and Chemistry Departments and explored joint research collaboration opportunities.



- Australian Consul General to South India Mr. H E Sean Kelly, Trade Commissioner and Consul Commercial, Australian Trade Commission, Australian Consulate General, Mr. Michael Carter, Counselor, Australian Education International, Mr. Peter Nolan, Representatives from Department of Australian Immigration with Australian Alumni, University Representatives and Australian State Government representatives visited our University on 25<sup>th</sup> June, 2014 and presented Australian Endeavour Scholarship Awards and other Australian Research Scholarship Programs to our Faculty, Students and Researchers.
- Mr. Carl Ralph Rallings, Deputy Vice Chancellor and Mr. Satya Shah, from University of Southern Queensland, Australia visited BSAU on 25<sup>th</sup> June 2014.
- Mr. Nigel Phillips, CEO, Career Life College in Melbourne, Australia visited BSAU on 26<sup>th</sup> September, 2014.
- Oman delegations visited BSAU represented by Dr. Juma S AL Ghailani, Managing Director, from Mazoon University College, Oman on 13<sup>th</sup> October 2014.
- Mr. Michael Joseph Cuneo, Admission Officer, The Johns Hopkins Carey Business School visited BSAU on 27<sup>th</sup> November, 2014.



### **FACULTY EXCHANGE PROGRAM**

Faculty Exchange Program with Pusat Pembangunan Kemahiran Sarawak – PPKS, Malaysia. Three faculty members from PPKS Malaysia underwent faculty development program at BSAU for three months during 2014.



### **STUDY ABROAD PROGRAM**

#### ***Indiana University Purdue University Indianapolis, IUPUI, USA to B.S. Abdur Rahman University***

A delegation of students and faculty from Indiana University Purdue University Indianapolis, IUPUI, USA, visited B. S. Abdur Rahman University for a study abroad program starting from 15<sup>th</sup> March 2015 to 19<sup>th</sup> March 2015 to learn best practices in teaching and research at the computer science and computer applications department of BSAU, the team attended a lecture session at the University and interacted with the students and faculty at the School of Computer, Information and Mathematical Sciences. The team visited the Apple iOS Application Centre at the University and learnt about ongoing Apple iOS Application Software Programs.

Prof. J.A.K. Tareen, Vice Chancellor, BSAU, interacted with the IUPUI delegation and gave the overview of international engagement opportunities available for IUPUI students and faculty at BSAU in the areas of joint research, in all the discipline of Engineering, Information Technology, Life Science, Business Management and Architecture.

A letter of intent between Indiana University Purdue University Indianapolis, IUPUI, USA and B.S. Abdur Rahman University, Chennai, India has been exchanged on 16<sup>th</sup> March 2015 towards promoting students and faculty exchanges, joint research and study abroad program between the two universities.

Prof. Eugenia Fernandez, Chair, Department of Computer Information and Graphics, Indiana University Purdue University Indianapolis, IUPUI, USA and Dr. V. Murugesan, Registrar, B. S. Abdur Rahman University, exchanged the letter.



### INTERNATIONAL EVENTS

- Dr. S. Prince Arockia Doss, Director, International Collaboration, BSAU participated in the International Workshop on Educating for Exchange, Opportunities for India – US Diplomacy, sponsored by US Consulate General, Chennai and presented by Cultural Vistas, USA on 11<sup>th</sup> March, 2014 at Chennai. The workshop focused on developing Models of International Exchange, Building capacity for Exchange Programs, policies of International exchange, perspective of internationalization, internships, IAESTE, etc.
- Dr. S. Prince Arockia Doss, Director, International Collaboration, BSAU participated in the Netherlands King's Day Celebration, on 26<sup>th</sup> April, 2014 at Chennai and interacted with CEES BANSEMA, Deputy Head of Mission, Embassy of the Netherlands, and had a discussion with the new Australian Consul General to South India Mr. Sean Kelly, and other diplomats.



- Dr. S. Prince Arockia Doss, Director, International Collaboration, participated in Education Networking on Australian Endeavor Scholarships and Fellowships program from Australian Consul General, on 27<sup>th</sup> June 2014.
- Dr. S. Prince Arockia Doss, Director, International Collaboration, Dr. Mrs. A. Shahin Sultana, Professor and Dean, School of English, and Dr. R. Rajendran, Professor, Mechanical Engineering participated in the Deakin University workshop on “Building Capacity in Education Leadership” on 11<sup>th</sup> and 12<sup>th</sup> August 2014. Professor Karen Starr, PhD and Associate Professor Damian Blake, from the school of Education, Deakin University, Australia are the resource persons.
- Dr. S. Prince Arockia Doss, Director, International Collaboration, BSAU participated in the “European Patent System” presentation on 03<sup>rd</sup> September 2014.
- Dr. S. Prince Arockia Doss, Director, International Collaboration, BSAU participated in the two days seminar on “IPEX 2014” Conference and Exposition on “Emerging Trends in IP Management and Commercialization” on 05 and 06<sup>th</sup> September 2014.
- Dr. S. Prince Arockia Doss, Director, International Collaboration, BSAU participated in the networking reception with UK Universities organized by British Deputy High Commission and British Council at British Deputy High Commission on 15<sup>th</sup> September 2014.
- Dr. S. Prince Arockia Doss, Director, International Collaboration, Dr. S. S. M. Abdul Majeed, Professor and HoD, Department of Polymer Engineering and Dr. R. Rajendran, Professor, Mechanical Engineering, BSAU participated in the networking reception with “Australian Material Science and Advanced Manufacturing” on 15<sup>th</sup> October, 2014 and interacted with Australian delegations and other diplomats.
- Dr. S. Prince Arockia Doss, Director, International Collaboration, BSAU participated in the “UK-India Workshop on Wave and Tidal Energy” on 29<sup>th</sup> October 2014.
- Dr. S. Prince Arockia Doss, Director, International Collaboration participated and interacted with Bradford University Vice Chancellor with deans and senior academic on 17<sup>th</sup> November 2014.
- Dr. S. Prince Arockia Doss, Director, International Collaboration participated in the International Conference on Internationalization of Higher Education organized by VIT and US Consulate General on 21<sup>st</sup> November, 2014.



- Dr. S. Prince Arockia Doss, Director, International Collaboration, led a team of faculty and students and participated in the Sweden Education Fair on 4<sup>th</sup> December, 2014 and interacted with the delegation from following 13 Sweden Universities Anna Uggla, First Secretary Political Affairs, Embassy of Sweden, Jovja, Uppsala University and Samiksha Jalan, Associate, Business Sweden
- Dr. S. Prince Arockia Doss, Director, International Collaboration interacted with Mr. Vaidyanathan, Assistant Vice President, Research and Commercialization, University of Central Florida, USA on 16<sup>th</sup> December, 2014 to explore Semester Abroad Program between two universities, BSAU Faculty visit to UCF and UCF Faculty visit to BSAU for Fulbright Program and training in advanced labs for research facilitating faculty visits, etc.,
- Dr. S. Prince Arockia Doss, Director, International Collaboration, and Dr. R. Vasanthakumari, Director, Polymer Nano Technology Centre, BSAU participated and interact with Professor Kevin D. Jones, Executive Dean, Faculty of Science and Environment, Plymouth University, and Mr. David Jenkins, Lecturer, School of Computing and Mathematics, Faculty of Science and Environment, Plymouth University on 06<sup>th</sup> January 2015 to strengthen the MoU between B. S. Abdur Rahman University, India and Plymouth University, UK.
- Dr. S. Prince Arockia Doss, Director, International Collaboration participated and interacted with Australian delegation led by Hon Andrew Robb AO MP, Australian Minister for Trade and Investment and Federal Member for Goldstein at Mumbai on 14<sup>th</sup> and 15<sup>th</sup> January, 2015.



### LEADERSHIP IN INNOVATION UK ALUMNI MEET

Dr. S. Prince Arockia Doss, Director, International Collaboration, along with B.Tech and M.Tech students and researchers, BSAU participated in the Leadership in Innovation UK Alumni Meet organized by British Deputy High Commission, Chennai on 29<sup>th</sup> January, 2015



### OTHER EVENTS

Open House and Exhibition was organized at BSAU on 30<sup>th</sup> and 31<sup>st</sup> March 2014, showcasing its achievements, facilities, infrastructure, programs and career opportunities.

Open House and Exhibition was organized at BSAU on 09<sup>th</sup> and 10<sup>th</sup> January 2015, showcasing its achievements, facilities, infrastructure, programs and career opportunities.





Open House and Exhibition was organized at Crescent Campus, Madurai on 23<sup>th</sup> and 24<sup>th</sup> January 2015, showcasing its achievements, facilities, infrastructure, programs and career opportunities.

The pavilion put up by the Centre for International Collaboration attracted everyone and international opportunities available to students, faculty through international partners and international agencies were presented.






# DATA CENTRE

## About Data Centre

Data centre was established at B.S. Abdur Rahman University in the year 2010 for effective utilization of Network infrastructure and reduction of hardware and storage cost, the state of art Data Centre with high end BladeServers(4Nos), Rack Servers(4Nos) and SAN storage(10TB) worth of Rs. 1 Crore is established at the annexure building of Computer Science block of B.S.Abdur Rahman University.

**The highlights:**

The Data Centre would be to provide staffs and students of each dept to have 24 hours availability and accessibility to their computing resources through wired /wireless sitting in the lab or anywhere in the campus. They can continue their lab works, CAMPIT access, Internet/Intranet access and content access such as NPTEL through Streaming Server.



## Workshops Organized

- BSAU along with Computer Applications Department organized two weeks ISTE Virtual Workshop for staff members of BSAU on “Pedagogy for Effective use of ICT in Engineering Education” at our campus from 12<sup>th</sup> June 2014 to 14<sup>th</sup> June 2014 and 24<sup>th</sup> July 2014 to 26<sup>th</sup> July 2014.
- This workshop virtually conducted by IIT Mumbai held under National Mission on Education through ICT for Quality Enhancement of Engineering Education (QEEE)
- The Director Data Centre took the initiative for MoU between BSAU and Sparx Systems. The MoU signed facilitates a partnership for training of students and use of the software Sparx Enterpriser Architect as well as making BSAU as its hub for development and application of products using this software. This is the MoU for incubating the R&D projects of Industry at the Centre for Innovation and Incubation of BSAU.
- Organized 5days corporate level training on Sparx Enterprise Architect for 30 faculties from CSE,IT,CA,CBS and Mechanical Departments on 17<sup>th</sup> November to 21<sup>st</sup> November 2014.



## QEEE Live Classes

- University Data Centre has successfully launched Virtual classes of the MHRD's QEEE pilot programme on Monday 27th Jan 2014 on the courses
  - Heat Transfer
  - Fluid Dynamics
  - Operating System



- Successfully launched Digital Signal Processing Virtual lab of the MHRD's QEEE pilot programme on Monday 14th Feb 2014
- Also MOOC (Massive online Open Courseware) on Design and Analysis of Algorithms and Computer Networks are successfully launched on Thursday 20<sup>th</sup> Feb 2014
- Organized QEEE Live Classes for the Semester (June 2014 to December 2014) on the courses
  - Digital Signal Processing
  - Data Structures & Algorithms
  - Machine Design
  - Chemical Reaction Engineering
  - Software Engineering

## Activities

- MHRD introduced live lectures from IITs India to associated institutions for the benefit of students through QEEE programme. B.S.Abdur Rahman University is one of the first set of university from Tamil Nadu connected with this programme . University data centre has installed the QEEE Institute Server for our university and maintain it in the Data Centre for MHRD's QEEE Live classes.
- University Data Centre has procured the required software's and hardware's for having live Virtual classes conducted from IITs through MHRD Programme .
- As a progress of QEEE programme , university data centre has established a Digital Signal Processing virtual lab in ECE department.
- Established a fibre cable connection between Convention Centre and University Data Centre for QEEE live classes.

- New Fibre cable laid between University Data Centre and entire Men's Hostel blocks for installing 25 additional Access points in the Men's hostel.
- 2Terra byte space from SAN storage is allocated for storing the Streaming contents, teaching contents and e-Book contents in the Streaming Server.
- 358 E-Book Contents(PDF format) are stored in the streaming server for student & faculty access
- Remote-Access of e-Resources, the Server space allocated to install eZProxy application and Public IP address provided to access the e-Journals off Campus.
- University Data Centre enables the monitoring system for the Solar Energy Panels installed in BS Abdur Rahman University by providing a Public IP address for the Solar Energy Panels.
- Data Centre Model was exhibited with presentation for school children in the open house and science exhibition program at BSAU Chennai and Madurai campus.

#### **Workshop/Conference Attended**

- Dr.P. Sheik Abdul Khader and Dr. Shri Ram attended the two days National Conference on 'Use of Technology in Higher Education' at IIT Mumbai on 25<sup>th</sup> and 26<sup>th</sup> of February 2014 organized by MHRD Gol.
- R. Sivakumar and R. Venkateswaran attended one day QEEE Second Workshop at IIT, Chennai on 27<sup>th</sup> June 2014.

#### **Visitors**

1. Chairman - Dr. Juma Saleh Al-Ghailani – Mazoon college- Oman.
2. Malaysian faculties



# POLYMER NANOTECHNOLOGY CENTRE

## PAPERS PUBLISHED/ PRESENTED IN JOURNALS & CONFERENCES

National Conference	International Conference	National Journal	International Journal	Total
-	-	1	7	8

## DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES:

- S.Vikram, M.Dhakshnamoorthy, R.Vasanthakumari, A.R. Rajamani, Murali Rangarajan, Takuya Tsuzuki, "Tuning the Magnetic Properties of Iron Oxide Nanoparticles by a Room- Temperature Air-Atmosphere (RTAA) CO- Precipitation Method", Journal of Nanoscience and Nanotechnology /14 / 1-9 & 2014.
- Mukundan Dorairajan,Vasanthakumari Raju, "Basic Analytic parameters of Atovastatin Calcium IP (Atroveen-10) granular, compressed and film - coated tablets", Journal of Biomedical Sciences /1 / 39-49 / 2014.
- M.Dhakshnamoorthy, S.Vikram R.Vasanthakumari, "In-Situ Preparation and Characterization of Acid Functionalized Single Walled Carbon Nanotubes with Polyimide Nanofibers", Journal of Nanoscience and Nanotechnology / 14 / 5011-5018 & July 2014.
- N. Jaya Chitra R.Vasanthakumari Syed Amanulla, "Preliminary Studies of the Effect of Coupling Agent on the properties of Spent Coffee Grounds Polypropylene Bio-Composites", International Journal of Engineering Research and Technology / 7 / 9-16 & Nov 2014.
- S Vikram and R.Vasanthakumari" Studies on Dual Phase Conducting Polyaniline Magnetic Micro and Nano composites"Advanced Materials Research , 158-163, 2014
- R.Gayathri and R.Vasanthakumari, "Nanomaterials in PU foam for enhanced sound absorption at low frequency region", Advanced Materials Research,170-175, 2014
- D.Mukundan and R.Vasanthakumari,"Temperature Dependent Electrical Properties of Green synthesized Silver Nanoparticles-Polyaniline composite" Advanced Materials Research 230-235, 2014
- R.Shruthi, R Gayathri and R.Vasanthakumari, "Studies on nylon6/CNT nanofiber membrane applications for heavy metal separation from industry waste water" Indian Journal of Advances in Chemical Sciences , (in press)

### SPONSORED RESEARCH (ONGOING / APPLIED)

S.No.	Principal and Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1)	Dr.R.Vasanthakumari & R.Daulath Banu	DRDO	Development of Oil Absorbing Polymer Product for Efficient Removal of Oil Spills in Sea Water.	Rs 20.04 lakhs	Ongoing
2)	Dr.David Jenkins, PlyMouth University, Dr R.Vasanthakumari, BSAU & Dr S Ramkumar ,Texastech University	British Council under Global Innovative Initiative	Smart polymer nanofiber based flexible embedded sensors for wearable ECG monitoring	1.456 lakh pounds	Applied

### BOOK PUBLISHED

Book Title	Name of the Principal author / Co-author	Name of the Publisher	Publisher's address	ISBN / ISSN Number of the book	Year of Publication of first edition
<b>Nanomaterials: science, technology and applications</b>	R.Vasanthakumari and I B Shameem Banu ( B S A University)	Transtech Publications, Ltd.	Transtech Publications, Ltd, Switzerland	ISSN 1022-6680 ISBN-13:978-3-03835-098-9	2014
	Takuya Tsuzuki ( Australian National University)				
	Abdul Hadi ( UiTM, Malaysia)				

### PATENTS (OBTAINED / APPLIED)

Title of the patented work	Inventor (or) Assignee	If it is a joint patent, give the names of the co-assignees	Filing date
A new process for preparation of self reinforced thermoplastic micro and nanofiber polyamide composite system	R.Vasanthakumari	Ms R Gayathri , Mr Muthusubramaniam & Mr Kaviarasan	29.9.14 & application number 4834/CHE/2014



## ACHIEVEMENTS OF STAFF:

1. Ms R Gayathri , Scientific Assistant received her M Tech Polymer Technology degree
2. Testing and consultancy charges earned – Rs 2.0 lakhs
3. Dr R.Vasanthakumari guided Ms Shruthi, from Jayachamarajendra College of Engg and Technology, Mysore for her M Tech research project
4. Dr R.Vasanthakumari evaluated 2 PhD Theses , one from Calcutta University and another from Mysore University

## ACHIEVEMENTS OF STUDENTS

1. Ms Jayachitra and Mr Dakshnamoorthy , two research scholars of Dr R.Vasanthakumari have submitted their PhD Synopsis
2. For Mr S Vikram and Mr D Mukundan , research scholars of Dr R Vasanthakumari , PhD registration is confirmed

## DEVELOPMENTAL ACTIVITIES

The following equipments are purchased in Polymer Nanotechnology centre

Equipment Name	Description	Amount Rs.	Suppliers Name & Address
“INDFURR” High Temperature Inert Atmosphere Furnace	Hot zone area: 75mmx 300mm Maximum Temperature:1400°C	1,47,156	M/s.Indfurr Super Heat Furnaces, Chennai
“INDFURR” Hot press compressing of hydraulic press	Maximum Temperature : 800°C	2,72,510	M/s.Indfurr Super Heat Furnaces, Chennai

## IMPORTANT VISITORS

- Dr.S.Ramkumar, Assistant Professor, Texar Tech University, USA visited polymer nano center on 24<sup>th</sup> Oct 2014.

## Special Lectures Delivered by Faculty

- Dr.R.Vasanthakumari, invited as Chief Guest and delivered a lecture on “Polymer Membranes for water purification” at Easwari Engineering College on Sep 24<sup>th</sup>, 2014.
- Dr.R.Vasanthakumari delivered a lecture on “Nanomaterials in Rubber Applications” in the Nano seminar organized by Apollo Tyres on 12<sup>th</sup> July 2014.

Dr.R.Vasanthakumari at Apollo Tyres





# FACULTY TRAINING ACADEMY

## TRAINING PROGRAMMES OFFERED

- Organized Workshop on “Soft Skills Training for Faculty” 7<sup>th</sup> July 2014 Around 14 staff members were participated.
- Organized Workshop on “Soft skills Training for Faculty Members” on 24<sup>th</sup> December. Around 19 Faculties were participated.
- Organized Workshop on “Camp@it Training for all Class Advisor” on 24<sup>th</sup> December.



## INTERDISCIPLINARY PROG./ CONFERENCES / FDP / SEMINARS / WORKSHOPS CONDUCTED

- Organized seminar on “Courses that Skyfi Labs offers for Engineering graduates” on 3<sup>rd</sup> March 2014, Mr. Pavan Ponnangati, Chairman and CEO, Skyfi Labs, Bangalore delivered the session.
- Organized Workshop on “Tamil Computing” on 12<sup>th</sup> September. Dr.Kalyanasundaram, Switzerland delivered the session. Around 57 people were participated.
- Organized Workshop on “Workshop on Game Development for faculty of CSE” from 21<sup>st</sup> August to 22<sup>nd</sup> August 2014. Mr. Sujit Sagar from Skyfi Labs, Bangalore delivered the session.
- Organized Workshop on “Wireless gesture Robotics for faculty of ECE” from 21<sup>st</sup> August to 22<sup>nd</sup> August 2014. Mr. Sujit Sagar from Skyfi Labs, Bangalore delivered the session.
- Organized guest lecture on “Tamil Natural Language Processing- Past, Present Future” on 23<sup>rd</sup> June 2014. Around 27 people were participated(8 members from other institutions).Dr. Vasu Renganathan, President (INFITT) and Professor / Penn Language center (University of Pennsylvania)USA delivered the session.
- Organized workshop on “Induction Training Programme” for newly joined faculties from 30<sup>th</sup> June to 7<sup>th</sup> July 2014 (6 days). 28 faculties were participated.
- Organized Workshop on “IBM DB2 Training” from 3<sup>rd</sup> July to 5<sup>th</sup> July 2014 in partnership with ICT Academy of Tamil Nadu. 30 people participated (27 members from various Institutions).
- Organized Guest Lecture on “Solar energy cells” on 11<sup>th</sup> September 2014. Dr.Kalyanasundaram, Switzerland delivered the session. Around 62 people were participated.





## VISIT OF CVRDE TEAM TO BSAU

The Combat Vehicles Research & Development Establishment (CVRDE), a constituent laboratory of DRDO, Ministry of Defence, Government of India organized a "Cycle Rally" from Avadi to IGCAR, Kalpakkam on 10.2.2015. Dr.A.M.J. Basha, Additional Director (Manufacturing) and Shri M.Dhanapal, Scientist in Main Battle Tank Arjun Design Group of CVRDE headed the team. The Rally halted at B.S.A University Campus to demonstrate the DRDO products. They also made presentation and interacted with 3<sup>rd</sup> and final year B.Tech. students of our University. They also briefed about the job opportunities in DRDO establishments for various Engineering disciplines. Dr.J.A.K.Tareen, Vice Chancellor and Dr. V.M. Periasamy, Pro Vice Chancellor of our University flagged off the Cycle Rally event on 10.2.2015.



## **WALK WITH SCHOLAR SCHEME**

The Tunchan Memorial Government College, Tirur, Vakkad, Malappuram, Kerala has initiated several measures for the all round development of students. "Walk with a Scholar" scheme is an innovative educational program introduced by the Government of Kerala in the Arts and Science Colleges in the state to provide necessary career guidance to the students and to transform into better individuals able to face the competitive world of today. As part of WWS programme, thirty students and three staff members of Tunchan Memorial Government College visited B.S.Abdur Rahman University on 3<sup>rd</sup> March 2015 to create academic motivation and interest.



Prof. J.A.K. Tareen, (Padmashri) Vice Chancellor of BSAU gave motivational address. Dean (Academic Affairs), Dean (Student Affairs) and PRO coordinated and gave detailed information about Academic and Admission details of our University.

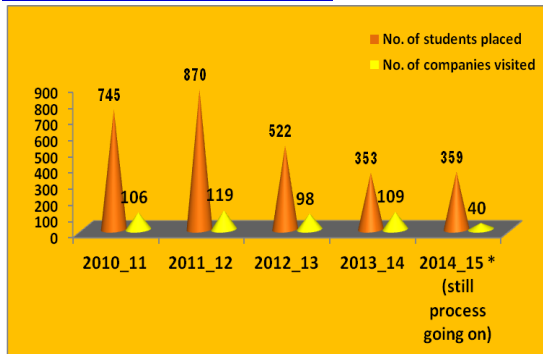
# PLACEMENT AND TRAINING

Placement Cell is headed by a full time Placement & Training Officer Mr. S. Mohamed Tajudeen with wide industrial experience.

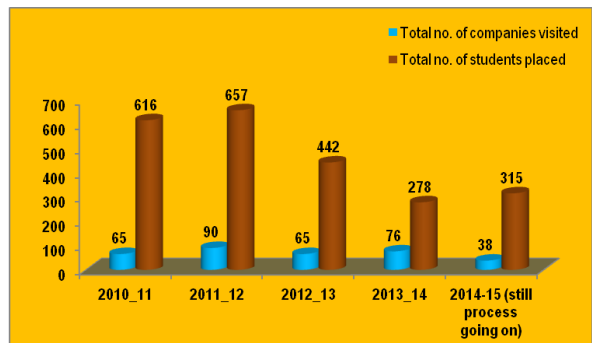
B.S. ABDUR RAHMAN UNIVERSITY has a whopping Convention Center with an Air conditioned Auditorium of 1200 seating capacity for conducting Pre-Placement talks with modern facilities. The Centre has provisions for conducting written tests, Group Discussions and Interviews. The facilities are also available for conducting the Online Test Process.

In the academic year 2013\_14, 353 students have got placed. 2014\_15, and in the current academic year 2014\_15, 395 students (i.e. 345 - UG students and 51 - PG students) have got placed through 40 companies' such as CTS, INFOSYS, Polaris Financial Technology, Godrej Boyce, Wipro Technologies, L&T Infotech, iGATE, iNautix Technologies, Qspiders Software Testing Training Institute, etc. in recruitment process (the recruitment is still in progress).

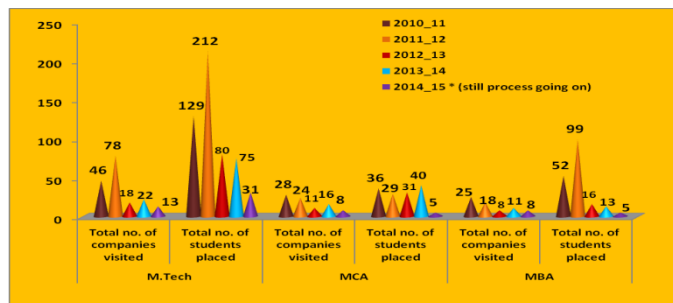
## OVERALL PLACEMENT



## OVERALL UG PLACEMENT



## OVERALL PG PLACEMENT



\* Recruitment Process still in progress.





## CENTRAL LIBRARY

- Total Books available
  - Volumes : 63186
  - Titles : 29049
  - e-Books : 1000
- Print Journals subscribed : 255
- e-Journals subscribed : 3300
- Library working hours : 8am – 8pm
- Library budget for the year 2014-15 : Rs.73,00,000/-
- Books purchased during this academic year: 2672

The Central Library organized user orientation programme to understand more about e-Journals, e-Books, etc. during various periods for the benefit of staff, students and research scholars. Some of them are given below:

- ProQuest Orientation programme has been conducted on 22 August 2014
- IEEE orientation programme organized on 18 September 2014.
- JGate Orientation programme conducted on 11 October 2014
- Annual Book Exhibition was conducted during 26 – 28 August 2014, Hon'ble Vice Chancellor Prof. J.A.K. Tareen of BSAU inaugurated the exhibition.



### NATIONAL JOURNAL

Sl. No.	Author	Title	Journal name	Vol.	Issue	Year	ISSN
1	P Panneerselvam	Status of Libraries in Higher Education Institutions: Special Reference to Deemed Universities in Chennai	Journal of Research in Librarianship	1	2	2014	2393-8986
2	P Panneerselvam	Evolution and Collection Development of B.S.Abdur Rahman University Library: A Case Study	Journal of Advances in Library and Information Science	3	2	2014	2277-2219
3	A.Selvantony	A study on Skills of Library Professionals in Engineering college of Tamil Nadu	Journal of Advance in Library and Information	3	1	2014	2277-2219

			Science				
4	T.Pattabhi Raman & Dr.S.Gopalakrishnan	Human Relation Skills among the Library and Information Professionals in Higher Educational Institutions In and Around Chennai	Journal of Advances in Library and Information Science	3	3	2014	2277-2219

### International Journal

Sl. No.	Author	Title	Journal name	Vol.	Issue	Year	ISSN
1	P. Panneerselvam	A Study about Annual Conferences of Society for the Advancement of Library and Information Science: A Scientometric Analysis	International Journal of Library and Information Science	6	6	2014	2141-2626
2	P Panneerselvam and A. Chitra Dhavaputhalvi	Scientometric Analysis of the Growth of Journal of Signal Processing and Systems	International Journal of Information Dissemination & Technology	4	2	2014	2229-5984
3.	T.Pattabhi Raman & Dr.S.Gopalakrishnan	Work Environment and Dynamic Capability: Empirical Views of Library and Information Professionals	European Academic Research International Journal	2	7	2014	2286-4822

### National Conference

Sl. No.	Author	Title	Conference Title	Period and Place	ISBN
1	P.Panneerselvam	Preparing Library & Information Centre for Accreditation	Reaching the Unreached.	8 – 9 August 2014 at Coimbatore Institute of Technology	978-81-903838-9-9
2	S. Vanaja and P.Panneerselvam	Web based OPAC with Federated Search Tools: An Overview	Reaching the Unreached.	8 – 9 August 2014 at Coimbatore Institute of Technology	978-81-903838-9-9
3	A.Selvantony	A study on various skills of Library Professionals in Engineering Colleges of Tamilnadu	Reaching the Unreached.	8 – 9 August 2014 at Coimbatore Institute of Technology	978-81-903838-9-9
4	T.Pattabhi Raman & Dr.S.Gopalakrishnan	Dynamic Capabilities: An Implementation Approach in Library and Information Science	Trends in Library and Information Science	12 <sup>th</sup> April 2014 at Bishop Heber College, Trichy.	978-81-92309-1-3

## International Conference

Sl. No.	Author	Title	Conference Title	Period and Place	ISBN
1	T.Pattabhi Raman & Dr.S.Gopalakrishnan	Decision Making Skill Among Lis Professionals In The Digital Environment: An Empirical Study” in International Conference	Smart Electric GRID -2014	19-20 September 2014 KL University, Guntur, Andhra Pradesh.	978-81-8424-956-9
2	T.Pattabhi Raman	Knowledge Management and Dynamic Capability Among LIS Professionals in University Libraries	Library Space and Content Management for Networked Society	DVK Central Library, Bangalore during 18-20 October 2014.	978-81-89958-92-3
3	T.Pattabhi Raman & Dr.S.Gopalakrishnan	Dynamic Capability Among Information Professionals In University Libraries Of Tamil Nadu: An Empirical Study	Convergence of Libraries, Archives & Museums (ICLAM)	27-29 November 2014, New Delhi	978-93-80397-52-8

## Forthcoming Programme

The Central Library proposed to organize a Two day National Conference on ‘Advancement in Library and Information Science and Technology: Challenges and Opportunities (ALIST 2015) during 10 – 11 July 2015.



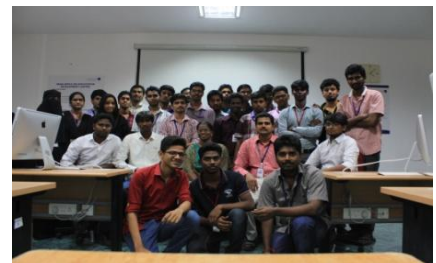
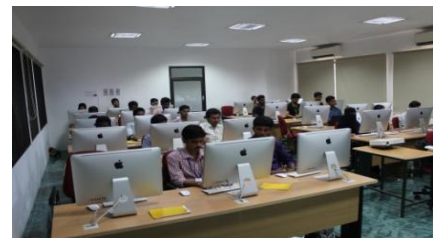
## ISO 9001:2008

Internal audit for ISO9001:2008 certification for our university was conducted by the trained internal auditors on July 9, 2014 and the corresponding findings were discussed in the 'Management Review Meeting' convened on August 12, 2014. The periodic external audit was conducted by M/s DNV on August 18 and 19, 2014. A 'Management Review Meeting' was held on September 10, 2014 during which the findings given by the DNV auditors were analysed. The finalized corrective actions were forwarded to M/s DNV. M/s DNV announced the extension of ISO9001:2008 certification for our university.



## BSAU APPLE iOS APPLICATION DEVELOPMENT CENTRE

- HiSPARK 2013-14, a Fresher's Training Programme in iOS platform for the 23 students of our university, those who have placed in M/s Hibrise Technologies Private Limited, Chennai organized during Dec 2013-Aug 2014.
- Two day Workshop on "Objective C and iOS Application Development" held during 12 – 13, Sep 2014. The resource persons are Mr. R.Aravinth, Mr. K.Tamil Mani and Mr. M.Muthukumaresh, iOS Application Developers, Hibrise Technologies Private Ltd, Chennai. 26 students and 2 faculty members of our university participated in the workshop.



- Two day Workshop on “Mobile Application Development for iOS Devices” conducted during 19 – 20, Sep 2014. The resource persons are Mr.R.Aravinth, Mr. K.Tamil Mani and Mr. M.Muthukumaresh, iOS Application Developers, Hibrise Technologies Private Ltd, Chennai. 33 students of our university participated in the workshop.



- Two day Workshop on “Android Application Development” conducted during 10 – 11, Oct 2014. The resource person is Mr. Joseph Infant Raj, JPA Solutions, Chennai. 36 students of our university participated in the workshop.



## **WOMEN EMPOWERMENT CELL**

Motivational workshop was organized by Women Empowerment Cell in March 2014 for the girl students. This workshop was organized to enable them to achieve their dreams of excelling in academics as well as in personal life and to prepare them to encounter tough and stressful events in life with utmost ease. The feedback from the students was very good and they felt motivated and developed positive self image and self confidence to face challenges in life through this workshop.



## ENTREPRENEURSHIP DEVELOPMENT CELL

- Organized 3 days “Entrepreneurship Awareness Camps” (EAC) during 3, 4 & 5 March 2014 (Grants by DST-NIMAT PROJECT)
- 10 Students have participated in the event - TiECon 2014 on Nov 01, 2014 at ITC Grand Chola, Chennai



## ALUMNI

The alumni of 1985 - 89 batch, Crescent Engineering College, had a Silver Jubilee REUNION on 20.12.14 at Hotel Ramada, Chennai. Around 53 alumni participated.



## YOUTH RED CROSS

The YRC and NSS of the university organized a blood donation camp for Voluntary Health Society of Taramani and Chengalpattu medical college on 11.09.2014



## NATIONAL SERVICE SCHEME

- NSS organized Tree Plantation Programme in BSAU campus on 26.01.2014. The Chief guest was Prof J.A.K. Tareen (Padmashri) Vice Chancellor, B.S.Abdur Rahman University



- Indian association for blind gave the Blind Empowerment Champions-2014 Award on 14.02.2014
- Women's day was celebrated on 8.03.2014
- NSS organized one week camp programme at Kumizhi village from 14.03.2014 to 19.03.2014.





- Special Camp For Eye & Dental was organized by NSS on 16.03.2014
- Tree plantation carried over by NSS on 6.09.2014 at Kumizhi village
- NSS organized Blood Donation Camp on 11.09.2014
- Blood Donation Camp was organized in BSAU on 5.12.2014 in association with HDFC Bank and Government Hospital, Royapettah
- Voting Awareness program organized on 16.03.2014
- Sports for School Students conducted on 18.03.2014
- Society for the Advancement of Library and Information Science (SALIS) and Puthiyathalaimurai TV Channel organized walking rally 'VASIPPOM NESIPPOM' on 15.11.2014 - Chief Guest : Pro-Chancellor Mr. A. Abdul Qadir
- 10 days special camp on awareness programme of NSS was held in Karanai Puducherry, an adopted village. The programme was inaugurated by Dr. T.R. Rangaswamy, Dean (Academic Affairs) and felicitated by Dr. SSM Abdul Majeed and Mrs. Anitha Elavarasan, President of Panchayat, Karanai Puducherry.



## ROTARACT CLUB OF BSAU

The Rotary District 3230 organized an event "**MY FLAG MY INDIA (Let's stand for our flag and create a world Guinness record)**" on 7th December 2014 (Sunday) at 7 am in YMCA ground, Nandanam, Chennai. Around 58, 000 volunteers participated in the mega event. Another 1 lakh students witnessed the event from the holding area.



B.S. Abdur Rahman University is one among the 15 colleges / universities who contributed huge number of participants .

The Rotaract club of B.S.Abdur Rahman University organized a community service programme for the conception“Blood Donation” on 28th March 2015 (Saturday) The staff and students of BSA university extended their support to this programme by the way of contribution.

# **SCHOOL OF COMPUTER, INFORMATION & MATHEMATICAL SCIENCES**

- **Dept. of Computer Science & Engineering**
- **Dept. of Information Technology**
- **Dept. of Computer Applications**
- **Dept. of Mathematics**



**DEPARTMENT OF  
COMPUTER SCIENCE & ENGINEERING**



# COMPUTER SCIENCE AND ENGINEERING

## NEW PROGRAMMES STARTED

- The program M.Tech (Computer and Predictive Analytics) was renamed as M.Tech (Computer Science and Engineering - with specialization in Big Data Analytics).

## VALUE ADDED PROGRAMMES STARTED

- Diploma programme in Game Modeling and Design, a certification programme in iOS Application Development and an Android Application Development was introduced by the School of Computer, Information and Mathematical Sciences.
- Introduction of certification course on Cyber Security by the department of Computer Science & Engineering.

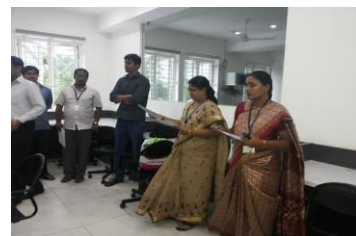
## TRAINING PROGRAMMES CONDUCTED

- Department of CSE handled the “Bridge Course” classes to Second Year Lateral Entry Students joined in the academic year (2014-2015) on “Fundamentals of Computing (FOC)” during 23.06.2014 – 11.07. 2014.
- Department of CSE offered On-Job Training for delegate Mrs. Faheezah binti Mohamad Ibrahim from PPKS, Sarawak, Malaysia in Staff Attachment Programme during 12<sup>th</sup> November 2014 to 31<sup>st</sup> December 2014.
- Soft skills programme for faculties of BSAU on 7<sup>th</sup> July, 2014 was organized by FTA through CSE.



## CONFERENCES/FDP's/SEMINARS/WORKSHOPS CONDUCTED

- A seminar on “Mining Big Data in Social Media and Web” was organized by the department of CSE on August 27<sup>th</sup> and 28<sup>th</sup> 2014.
- A two day workshop on “Ethical Hacking” was conducted by the department of CSE on 2<sup>nd</sup> September and 3<sup>rd</sup> September 2014 for students of UG, PG and faculty members.
- “Hands on Training – Big Data Hadoop” workshop was conducted by the department of CSE on 18<sup>th</sup> September 2014 for faculty and students.
- A one day workshop on “Cloud Simulator” was organized by the School of Computer Sciences, Information and Mathematical Sciences on 9<sup>th</sup> October 2014.
- As a part of Career Club 360, a seminar on “Let’s Jugaad” was conducted for the members of Career Club on 30.10.2014.



## CONFERENCES/FDP's/SEMINARS/WORKSHOPS ATTENDED

- Ms.S.Bagirathi and Ms.C.Hema attended a 3 days Faculty Development Programme (FDP) on “Wireless Sensor Networks in Research Perspective” during 12<sup>th</sup>, 13<sup>th</sup> June & 16<sup>th</sup> June, 2014 at Aarupadai Veedu Institute of Technology.
- Dr.Sharmila Sankar, Dr.M.Sandhya, Ms.Valli, Ms.Arputha Rathina and Ms.Muthupriya attended a two day FDP on “Game Development” organized by Skyfi Labs during 22.8.14 and 23.8.14 at BSAU.
- Ms.Sharon Priya and Ms.Pamela Anusha attended the two days workshop on “Ethical Hacking” during 2<sup>nd</sup> September and 3<sup>rd</sup> September 2014.
- Ms.S.Bagirathi and Ms.C.Hema attended the workshop on “Hands on Training – Big Data Hadoop” on 18<sup>th</sup> September 2014.
- Ms.Sabiyath Fatima, Ms.R.Narayani, Ms.S.Sharon Priya and Ms.Pamela Anusha attended the workshop on “Cloud Simulator” organized by the School of Computer Sciences, Information and Mathematical Sciences on 9<sup>th</sup> October 2014.
- Ms.S.Bagirathi, Ms.C.Hema and Ms.Radhika attended the three days workshop on “Simulink – A Hawk Eyed Application for Research” conducted by the department of ECE at BSAU during October 9<sup>th</sup> – 11<sup>th</sup> 2014.
- Ms.S.P.Valli, Ms.Sabiyath Fatima, Ms.R.Narayani, Ms.S.Sharon Priya, Ms.Madhina Banu, and Mrs.Muthupriya attended the 5 days workshop on Enterprise Architect organized by sparx systems ,BSAU on November 2014.
- Ms.S.P.Valli attended the FDP on “Data Science and Big Data Analytics” organized by the ICTAT, Rajalakshmi Engineering College on December 2014.
- Ms.C.Hema and Ms.S.Bagirathi attended the FDP program on “PALS” conducted Computer Science department of IIT, Madras on 24.11.2014.

## PAPERS PUBLISHED/PRESENTED IN JOURNALS & CONFERENCES

National Conference	International Conference	National Journal	International Journal	Total
-	8	-	6	14

## DETAILS OF PUBLICATION IN NATIONAL JOURNALS, INTERNATIONAL JOURNALS & CONFERENCES

- Ms.S.Bagirathi, Ms.Sharmila Sankar and Ms.M.Sandhya presented a paper on the title “Missing Tags Identification using Beacon Intervals in Tags” for the International Conference on Adaptive Technologies for Sustainable Growth (ICATS’14) during May 9 – 10<sup>th</sup> at Paavai Engineering College, Namakkal.
- Ms.Gayathri, Ms.Sharmila Sankar and Ms.M.Sandhya presented a paper on the title “Credit Card Fraud detection using Big Data ” for the International Conference on Adaptive Technologies for Sustainable Growth (ICATS’14) during May 9 – 10<sup>th</sup> at Paavai Engineering College, Namakkal.



- Mr.Dinesh Mavaluru, Dr.R.Shriram, Mr.Vijayan Sugumaran published a paper on the title “Big Data Analytics in Information Retrieval, Promise and Potential” at the 8th IRF International Conference during 5th July 2014, Bangalore.
- Mr.C.Imthyaz Sheriff, Raghul Vignesh Kumar A presented a paper on “Topical Categorization of Credible Microblog Content” at the International Journal for Scientific Research & Development, August 2014, Volume 2, Issue 6 pp.655-658.
- Mr.C.Imthyaz Sheriff and Dr.Angelina Geetha, presented a paper on “A Survey of Research Dimensions in Complex Event Processing” at the International Journal of Applied Engineering Research, August 2014, Volume 9, Issue 20 pp. 7769-7780.
- Mr.C.Imthyaz Sheriff presented a paper on “Massive Open Online Courses as Teaching and Assessment Aides in Mainstream Education” at the International Conference on Teacher Education Practices and Innovative Trends (ICTEPIT - 2014), August 2014.
- Dr.R. Shriram and Nadana Ravishankar presented a paper on “Metadata Based Clustering Model for Data Mining” at the Journal of Theoretical and Applied Information Technology (JATIT) Sep 2014.
- Dr.R.Shriram and C.Vijayalakshmi presented a paper on "Natural Language Processing based Visualization - A survey" at the Tamil Internet Conference 2014, Pondicherry University during 19-21 Sep 2014.
- Dr.R.Shriram and S.Sathya presented a paper on “Survey on Emotion Recognition from Speech" at the Tamil Internet Conference 2014, Pondicherry University during 19-21 Sep 2014.
- Ms.Malathy Jawahar, Mr Chandra Babu Narasimhan Kannan and Dr.K.M.Mehata published a paper on the title “Artificial neural networks for colour prediction in leather dyeing on the basis of a tristimulus system” at the International Journal for Colouration Technology, Vol 131, Issue 1, October 2014.
- Ms.S.V.Shri Bharathi and Dr.Angelina Geetha presented a paper on “A sentence level linguistic approach for online news sentiment classification using RSS” at the International Conference on Intelligent Information Systems held on 11th -13th ,December, 2014, Anna University , Chennai.
- Ms.S.Fouzal Hidayat and Dr.Angelina Geetha presented a paper on "Pro-active detection of malicious attacks on smart phones using permission enforcer algorithm", International Journal of Applied Engineering Research, Vol 9, Number 23(2014) pp.20325-20358.
- Mr.C.Imthyaz Sheriff and Dr.Angelina Geetha, presented a paper on “Healthcare Informatics and Analytics Framework” at the International Conference on Computer Communication and Informatics (ICCCI -2015), January, 2015.
- Mr.C.Imthyaz Sheriff presented a paper on “Big Data, CEP and IoT: Redefining Holistic Healthcare Information Systems and Analytics” at the International Journal of Engineering Research and Technology (IJERT), ISSN:2278-0181, Vol 4, Issue 01, January 2015.

## ACHIEVEMENTS OF STUDENTS

- Under the guidance of Dr.R.Shriram the final year B.Tech students S.Shifana,Ms.Tejaswini and Ms.Shajathi has won the Best Project Award in the State Level Engineering students Innovation Challenge 2014 organized by ISSRD for the project "Vision Training For Squint".

### Seminars attended, Publications and Awards in inter institute events by students

Varshini, Sumithra and Rohit of III yr CSE 'B' students participated a workshop on the title "FireFox OS APP Development workshop and Hackathon" at SRM University during August 2014.

### Extra Curricular Activities of the Students

- S.Sheik Mohammed of III yr CSE 'B' student won the First prize in the event SHELL '14 conducted by Sri Ramanujar Engineering College on August 2014.
- S.Noornisha,Z.Sarah,ziana,P.Roja,Sharanya.S,K.Noornisha,Wafaa,Nawaz,Shreeshruthi.N,Padma Priya,S.Sheik Mohammed of III yr CSE 'B' students participated in the PROTOCOL 17E conducted by Sri Venketeshwara College of Engineering on August 2014.
- Ashika Jain, J.Ashika of II yr CSE 'A' student participated in the E-LUMINATE'14 conducted by Hindustan University on September 2014.

## DEVELOPMENTAL ACTIVITY

The labs in the first floor, second floor and Data center lab of the department have been connected with the servers in the Data center. So three servers have been created for this purpose and all the system were connected to it.

Server I	Graphics Lab	First Floor Labs
	UG project Lab	
Server II	Networking Lab	
	Operating System Lab	
Server III	Programming Lab	Second Floor Labs
	PG Project Lab	
	Web Technology Lab	
	Data Center Lab	Data Center

## SOCIETY ACTIVITIES

- The CSEA (Computer Science Association Activities) for the year was conducted on 11th August 2014 by the department. Mr.V.Mohan, Project Manager, Infosys Technologies, Chennai delivered the keynote address.



- The national level technical symposium Arcane'15 was conducted by the department on January 20<sup>th</sup> 2015. Eight events were conducted and 210 students from other Institutions participated in the symposium.

### EXTENSION ACTIVITY

- A half day visit to the Government Higher Secondary School in Mambakam, Chennai was organized on 30<sup>th</sup> October 2014. An inspirational session on the title "Motivation and Inspiration to young buddies" was conducted for the students of class VI which comprised of many discussions games, awareness and motivational videos.

### IMPORTANT VISITORS

- Faheezah binti Mohamad Ibrahim from Sarawak Skills Development Centre (SSDC) of Pusat Pembangunan Kemahiran Sarawak (PPKS), Malaysia, working as a Computer System Lecturer took training from 11th November 2014 – 26th December 2014 in B.S.Abdur Rahman University.
- Dr. Vasu Renganathan, Professor - University of Pennsylvania delivered a guest lecture in the topic "Tamil Natural Language processing - Past Present and Future" on 23 June 2014.
- Mr.V.Mohan, Project Manager, Infosys Technologies, Chennai delivered the keynote address during CSEA (Computer Science Association Activities) on 11<sup>th</sup> August 2014.



### ANY OTHER IMPORTANT ACTIVITIES

- **Placement cell Activity:** Dr.Sharmila Sankar suggested to form Thematic Groups for third year CSE students in various domains. This paves a way to take up their final year projects on the respective domains. The students will also attend seminars, workshops etc under those specialized areas. Henceforth, 20 thematic groups have been formed in III yr CSE 'A' and 11 in III yr CSE 'B'.
- **Crescent Club of Coding:** Second Year computer science and engineering students are practising a new style of self learning daily after regular classes from 4:15 pm to 5:15 pm which includes activities like seminars, debates, powerpoint presentation, quiz and lot more innovative style of self learning over the topics in and out of syllabus.



# DEPARTMENT OF INFORMATION TECHNOLOGY



# INFORMATION TECHNOLOGY

## TRAINING PROGRAMMES OFFERED

- Department of IT handled the “Bridge Course” classes to Second Year Lateral Entry Students joined in the academic year (2014-2015) on “Fundamentals of Computing (FOC)” during 23.06.2014 – 11.07. 2014.
- IT department offered On-Job Training for delegates from PPKS, Sarawak, Malaysia in Staff Attachment Programme during 12<sup>th</sup> November 2014 to 31<sup>st</sup> December 2014.



## CONFERENCES/ FDP/ SEMINARS/ WORKSHOP CONDUCTED

- Organized seminar on “Cyber Security and the Career Opportunities in Information Security” by EC council on 18<sup>th</sup> March 2014.
- Organized Third National Conference on “Recent Trends in Information Technology” (NCRTIT’14) on 10<sup>th</sup> April 2014.
- Organized three days workshop on “IBM DB2” during 3<sup>rd</sup> to 5<sup>th</sup> of July, 2014.
- Organized one day workshop on “Cloud Simulator” by School of Computer, Information and Mathematical Sciences, BSAU on 9<sup>th</sup> September, 2014.



## CONFERENCES/ FDP/ SEMINARS/ WORKSHOP ATTENDED

- Ms.C.Vijayalakshmi, AP(SG) and Mrs. Nabeena Ameen, AP attended one day Seminar on “Tamil Natural Language Processing - Past, present and future” organized by Faculty Training Academy , B.S.Abdur Rahman University on 23<sup>rd</sup> June 2014.
- Ms.L.Shakeera AP(SG)/IT and Ms.R.Mythily AP/IT attended two days seminar on “Big Data Analytics in Social Media & Web” Organized by department of CSE, BSAU during 28-29 August, 2014.
- Ms.L.Shakeera, AP(SG)/IT, and Ms.C.Vijayalakshmi, AP(SG)/IT and Ms.Nabeena Ameen, AP/IT attended Inauguration of PALS 4 (PAN IIT Alumni Leadership series) organized by IIT Alumni club, Chennai and attended the seminar on “Changing Expectation in New India” on 6<sup>th</sup> September, 2014.
- Ms.C.Vijayalakshmi, AP(SG)/IT, attended a Seminar on “Tamil Computing” organized by Faculty Training Academy, BSAU on 12<sup>th</sup> September, 2014.
- Ms.L.Shakeera,AP(SG)/IT, Mr.E.K.Subramanian, AP(SG)/IT and Ms.A.Sonya, AP/IT attended one day Seminar on “Cloud Simulator” organized by School of Computer, Information and Mathematical Sciences, BSAU on 9<sup>th</sup> September, 2014.
- Ms.T.Anusuya,AP/IT attended Workshop on “Apple iOS Apple” organized by BSAU Apple iOS ADC during 12 and 13 September, 2014.

- Ms.C.Vijayalakshmi, AP(SG)/IT attended the workshop on “Visualization for Big Data” organized by C-DAC, Knowledge Park, Bangalore on 18<sup>th</sup> September, 2014.
- Ms.R.Priyadarshini, AP(SG)/IT, attended workshop on ‘R’ Programming in SSN college of Engineering, Chennai on 26<sup>th</sup> September, 2014.
- Ms.R.Mythily, AP/IT attended one day Seminar on “Educational Enhancement Programme on 25<sup>th</sup> October, 2014 organized by IIT Alumni club, Chennai.
- All the faculty members in the department participated in the Seminar on “Opportunity and challenges in Cyber Forensics” organized by Dept of IT, BSAU on 28<sup>th</sup> October, 2014.
- A.Raihana, AP/IT attended three days workshop on “SIMULINK” organized by department of ECE, BSAU during 9<sup>th</sup> to 11<sup>th</sup> October, 2014.
- Dr.M.Kabeer,AP(Sel.Gr)/IT, Ms.P.Latchoumy,AP(Sel.Gr)/IT, Dr.G.Kavitha, AP(Sel.Grade)/IT, Ms.L.Shakeera, AP(SG)/IT, Mr.E.K.Subramanian, AP(SG)/IT and Ms.R.Priyadarshini, AP(SG)/IT attended Five days Training Programme on “Enterprise Architect Modeller” by Sprax Systems organized by department of Computer Applications during 24<sup>th</sup> to 28<sup>th</sup> November 2014 at BSAU.
- Ms.C.Vijayalakshmi, AP(SG)/IT attended Five day Faculty Development Programme on “Data Science and Big Data Analytics” from 2<sup>nd</sup> December to 6<sup>th</sup> December, 2014 organized by ICT Academy of Tamil Nadu, at Rajalakshmi Engineering College, Thandalam, Chennai.
- Ms.P.Usha, Assoc.Prof/IT and Ms.R.Priyadarshini, AP(SG)/IT, attended the Faculty Development Programme on “Industry Applications of Data Structures, Error handling & OOPS” on 17<sup>th</sup> December 2014 at Cognizant Technology Solutions, Chennai.
- Dr.Latha Tamilselvan, Prof & HOD/IT, Ms.P.Latchoumy, AP(Sel.G)/IT, Ms.L.Shakkeera,AP(SG)/IT, Ms.R.Priyadarshini,AP(SG)/IT, Ms. C. Vijayalakshmi,AP(SG)/IT & Ms.A.Raihana,AP/IT attended guest lecture on "How to do PhD Research" conducted by Department of Computer Applications at BSAU on 19<sup>th</sup> January, 2015.
- Ms.L.Shakkeera,AP(SG)/IT & Ms. C. Vijayalakshmi,AP(SG)/IT attended seminar on "Exposition and Presentation of DRDO Products" at BSAU on 10<sup>th</sup> February, 2015.
- Mr.M.Kabeer,AP(Sel.G)/IT,Mr.N.Prakash,AP(Sel.G)/IT,Ms.P.Anushya,AP/IT,Ms.P.Mythily,A P/IT,Mr.P.Gananasekaran,AP/IT attended three days hands-on training workshop in “BOSS-MOOL OS” organized by CDAC at BSAU during 16<sup>th</sup> February to 18<sup>th</sup> February, 2015.
- Dr. Latha Tamilselvan, Prof&HOD/IT, Ms.L.Shakkeera,AP(SG)/IT, Ms.R.Priyadarshini, AP(SG)/IT attended guest lecture on "BOSS-MOOL: Minimalistic Object Oriented Linux" conducted by School of Computer Information and Mathematical Sciences at BSAU on 16<sup>th</sup> February, 2015..
- Dr.Latha Tamilselvan, Prof & HOD/IT, Dr.G.Kavitha,AP(Sel.G)/IT, Ms.P. Latchoumy, AP(Sel.G)/IT, Ms.L.Shakkeera,AP(SG)/IT, Ms.R.Priyadarshini,AP(SG)/IT, Mr.N.Rajendran, AP(SG)/IT, Ms.P.Anushya,AP/IT, Ms.A.Raihana,AP/IT and Ms.P.Mythily,AP/IT attended guest lecture on “Cyber Security Awareness Programme” organized by Department of Information Technology at BSAU on 3<sup>rd</sup> March 2015.
- Ms.P. Latchoumy, AP(Sel.G)/IT, Ms.L.Shakkeera,AP(SG)/IT, Mr. E.K. Subramanian, AP(SG)/IT, Ms.R.Priyadarshini,AP(SG)/IT, Mr.N.Rajendran, AP(SG)/IT, Ms. Nabeena



Ameen,AP/IT, Ms.P.Anushya,AP/IT, Ms.A.Raihana,AP/IT, Mr.P.Gananasekaran,AP/IT, Ms.A.Sonya, AP/IT attended one day workshop on “Quality Assurance in Academic and Sponsored Research” organized by the Office of Dean(Academic Research), BSAU, Chennai on 7<sup>th</sup> March, 2015.

- Ms.P.Anushya,AP/IT attended one day National Level Workshop on “Cyber Security” in association with International Symposium on Big Data and Cloud Computing Challenges ISBCC '15 organized by School of Computing Science and Engineering, VIT University, Chennai campus on 13<sup>th</sup> March 2015.
- Ms.L.Shakkeera,AP(SG)/IT attended five days Oracle academy training programme on “Oracle Database Design and Programming with SQL” conducted by Oracle Academy Global with ICT Academy of Tamilnadu at BSAU during 16<sup>th</sup> March 2015 to 20<sup>th</sup> March 2015.
- Ms.A.Raihana,AP/IT attended three days workshop on “Students to Industry Professionals-The Activities a Glimpse” and “Exploring possible Collaboration with Infosys” at Infosys, Mysore campus during 20<sup>th</sup> -22<sup>nd</sup> March 2015.
- All the faculty members of Department of Information Technology attended Faculty-Students interaction meeting with Computer and Information Technology Students of Indiana University Purdue University Indianapolis (IUPUI), USA for their Study Abroad Program on 16<sup>th</sup> March, 2015.

#### PAPERS PUBLISHED/ PRESENTED IN JOURNALS & CONFERENCES

National Conference	International Conference	National Journal	International Journal	Total
02	22	-	06	30

#### DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES:

##### International Journals

- Kabeer, M, Rajamani, V & Bose.S “Self-consistent 2-D Numerical Modeling and Simulation of a Uniformly Doped Nanoscale Double-Gate SOI n-MOSFET Under illuminated condition for Photodetection Application” Journal of optoelectronics and advanced materials, Vol 16 Issue No3, pp:378-386, March 2014.
- P. Latchoumy and P. Sheik Abdul Khader “Grouping Based Scheduling With Resource Failure Handling In Computational Grid” Journal of Theoretical and Applied Information Technology, Vol.63 Issue no.3, pp: 605-614, May 2014.
- Regin Bose K and Dr. V. Sankaranarayanan “An Approach to Reduce Authentication Delay after Abrupt Termination of Mobile Node” Australian Journal of Basic and Applied Sciences, Vol.8 Issue no.9, pp: 7-12, June 2014.

- Regin Bose K and Dr. V. Sankaranarayanan, “GPS Based location Prediction and authentication during Inter-MSD handover” Applied Mechanics and Materials, Vol. 602-605, pp: 2326-2329, July 2014.
- Uma Nandhini , Dr. Latha Tamilselvan “Mobile Recommendation Engine for Offloading Computations to Cloud using Hadoop Cluster” World Applied Sciences Journal, Vol.29, pp: 41-47, 2014.
- Regin Bose K and Dr. V. Sankaranarayanan “New Base Station selection based on Hybrid Location prediction algorithm for Inter- MSD handover” Australian Journal of Basic and Applied Sciences, Vol. 8, Issue no.18, pp:43-52, December 2014.

### **International Conference**

- Syedali Fathima.A and Latchoumy.P presented a paper titled on “Resource Prediction based Job Scheduling in Cloud Environment” in International Conference on Electrical Communication and Computing (ICECC), at Tagore Engineering College, Chennai on March 2014.
- Gomathi.K and Prakash.N presented a paper titled on “Improving Test Efficiency Through Multiple Criteria Coverage Based Test Case Prioritization” in International Conference on Electrical Communication and Computing (ICECC), at Tagore Engineering College, Chennai on March 2014.
- Mohaideen Fathima and E.K.Subramanian presented a paper titled on “Ensuring privacy by ranking based approach for big data” in International Conference on Electrical, Communication and Computing (ICECC) at Tagore Engineering College, Chennai on March 2014.
- Jeeva.G and E.K.Subramanian presented a paper titled on “Improving Search Performance For Big Data Processing Using Machine Learning Algorithm” in International Conference on Electrical, Communication and Computing (ICECC) at Tagore Engineering College, Chennai on March 2014.
- Nivetha.S, Gnanasekaran.P, Sathyabama.S presented a paper titled on “Recovering From A Node Failure In Mobile Ad-Hoc Networks With Minimal Topology Changes” in International Conference on Electrical, Communication and Computing (ICECC) at Tagore Engineering College, Chennai on March 2014.
- M.Mohamed Rafic, A.Raihana S presented a paper titled on “Accurate Weather Forecasting Data Analysis using Neural Network with Fuzzy Logic” in Second International Conference on Science, Engineering and management (ICSEM14) held at Sreenivasan Engineering College, Perambalur on April 2014.
- Dhayanithi.K and Mythily R presented a paper titled on “Visualization of Relationship inEnterprise Using Social Network Analytics” in Second International Conference on Science, Engineering and management (ICSEM14) held at Sreenivasan Engineering College, Perambalur on April 2014.
- Leo Princilin.X and Mythily.R presented a paper titled on “Twitter Consumer Sentiment Analysis-A Machine Learning Based Approach for Consumer Sentiments on Tweets” in International Conference on Electrical, Communication and Computing (ICECC) at Tagore Engineering College, Chennai on March 2014.

- Anbazhagi, Dr.Latha Tamilselvan, L.Shakeera presented a paper titled on “QoS Based Dynamic Task Scheduling in IaaS Cloud” in Fourth IEEE International Conference on Recent Trends in Information Technology (ICRTIT-2014) organized by Department of Information Technology, Madras Institute of Technology (MIT), Anna University, Chennai during April 10-12, 2014.
- Kalaiarashi.V and Latchoumy.P presented a paper titled on “Fault Tolerant Strategies for Application Deployment in Cloud Environment” in Second International Conference on Science, Engineering and management (ICSEM14) held at Sreenivasan Engineering College, Perambalur on April 2014.
- Ambrina Farheen.R and Dr. G. Kavitha presented a paper titled on “Uniform File Allocation for Distributed File System in Cloud” in Second International Conference on Science, Engineering and management (ICSEM14) held at Sreenivasan Engineering College, Perambalur on April 2014.
- Damodharan.S ,Anusuya.T presented a paper titled on “An Auction Management for Avoiding the Fake bidders n bidding portal using Fuzzy logic” IEEE International Conference on Computation of Power ,Energy, Information and Communication(ICCPEIC) at Adhiparasakthi Engineering College on April 2014.
- DhineshBabu.R and Anusuya.T presented a paper titled on “Automated Digital Evidence by using RAM Image Acquisition” in Second International Conference on Science, Engineering and management (ICSEM14) held at Sreenivasan Engineering College, Perambalur on April 2014.
- Mohamed Imran M and Dr.G.Kavitha presented a paper titled on “An Efficient Utilization of Advertisement Data for Targeted Mobile Advertisement System” in IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT) at Syed Ammal Engineering College, Ramanathapuram on May 2014.
- Amshavalli.R.S and Dr.G.Kavitha presented a paper titled on “Increasing the Availability of Cloud Resources using Broker with Semantic Technology” in IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT) at Syed Ammal Engineering College, Ramanathapuram on May 2014.
- Vijayalakshmi.C, Dr.R.Shriram presented a paper titled on “Natural language Processing based Visualization – A Survey” in 13th World Tamil Internet Conference, Pondicherry during 19<sup>th</sup>- 21<sup>st</sup> September, 2014.
- Veeralakshmi.P and Dr.Latha Tamilselvan presented a paper titled on “Encryption for Massive Data Storage in Cloud” in International Conference Computational Intelligence in Data Mining (ICCIDM’ 2014) at Veera Surendra University, Odisha, Published by Springer, Vol.2, pp: 27-38 on December 2014.
- Mythily.R, Dr.W.Aisha Banu, Dr.R.Shriram presented a paper titled on “Clustering Models for Data Stream Mining” International Conference on Information and Communication Technologies(ICICT 2014), organized by Cochin University of Science and Technology during 3<sup>rd</sup>-5<sup>th</sup> December, 2014. (To be published in Elsevier Procedia Computer Science)
- Nabeena Ameen presented a paper titled on “Cloud Based Elderly Patient Monitoring during Emergency using Wireless Body Area Networks- Survey Paper” in Fourth International Conference of Contemporary Engineering and Technology organized by Sri Ramanujar Engineering College, Chennai on 15<sup>th</sup> March 2015.

- Vibeeth.B, Gananasekaran.P presented a paper titled on “Link Breakage Time Based QoS Improvement in Mobile Ad Hoc Network” in IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT-2015) organized by Noorul Islam Center for Higher Education, Noorul Islam University, Kanyakumari held on 19<sup>th</sup> and 20<sup>th</sup> March, 2015.
- Karthik.M, Rajendran.N, Dr.P.K.Jawahar presented a paper titled “Preventing Gray Hole Attack using Trust based Modified Ad-hoc On-demand Distance Vector Routing Protocol” in the International Conference on Advanced Research in Engineering and Applied Sciences (IC-AREAS-2015) held at S.R.I College of Engineering and Technology, Vandavasi, Tamilnadu during 21-23 March 2015.

### **National Conference**

- Nabeena Ameen presented a paper titled on “An Extensive Review of Significant Researches on Cloud Based Elderly Patient Monitoring During Emergency Using Wireless Sensor Networks” in National Conference on Communication and Network organized by Jeppiaar Engineering College, Chennai on 10<sup>th</sup> September, 2014.
- Nabeena Ameen published a paper titled on “Cloud Based Elderly Patient Monitoring during Emergency using Wireless Sensor Networks- Survey Paper” in National Conference on Recent Trends in Instrumentation and Control (RTIC-2015) held in MIT campus, Anna University during 13<sup>th</sup> -14<sup>th</sup> March, 2015

### **DETAILS OF IMPACT FACTOR OF THE PUBLICATION H-Index**

#### **Publication H-Index- 5**

- |                 |               |
|-----------------|---------------|
| a) RANGE        | - 0.13 - 0.28 |
| b) AVERAGE      | - 0.18        |
| c) h-INDEX      | - 1           |
| d) NO.IN SCOPUS | - 6           |

### **ACHIEVEMENTS OF STUDENTS**

- Zainab A. Miyajiwala and Deepika participated in paper presentation on the topic “Artificial Intelligence” in Intra Departmental Technical contest- CRESPIRE’14 was organized by IT department, BSAU on 12<sup>th</sup> March, 2014.
- The UG and PG students of IT department have demonstrated the working of various models namely Pi-Bot, Ardvino Bluetooth Controller, Object detecting Robot and Chroma Key and also a variety of projects and displays were exhibited on the latest trends in Information Technology for the Open House event held during 29<sup>th</sup> and 30<sup>th</sup> March, 2014.
- Tariq Abdul Aziz Dawood participated variety show, Group Dance and won the 2<sup>nd</sup> place in Orion (cultural event) held at BSAU on March 2014.
- Syed Ghouse, Mohamed Haris, Mohamed Aqib participated Treasure Hunt in Orion (cultural event) and won first place held at BSAU on March 2014.
- Tariq Abdul Aziz Dawood participated Uphill Run in Infinity programme and won the 2<sup>nd</sup> place held at BSAU on March 2014.

- Mohamed Tabrish Gawai participated in 4 x 100 Relay and won the 1<sup>st</sup> place in Athletic Meet held at Chengalpet on March 2014.
- Zainab A. Miyajiwala, Abdul Wadood, Anto Richard participated and won the 1<sup>st</sup> place in JukeBox event in National Level Technical Symposium ORBITCE-2014 held at SSN College of Engineering, Chennai on 4<sup>th</sup> September, 2014.
- Naveen Raj, Harinath and Stephen Samuel.P participated in JukeBox event in National Level Technical Symposium ORBITCE-2014 held at SSN College of Engineering, Chennai on 4<sup>th</sup> September, 2014.
- Nameesha Nazz participated in Islamic event and won the 2<sup>nd</sup> place for Qirrat held at BSAU September 2014.
- Naveen Raj, Stephen Samuel.P, Bhuvaneshwaran.A, Anto Richard and Harinath participated in Crazy Cricket held at SSN College of Engineering, Chennai on 4<sup>th</sup> September, 2014.
- Mogdoom Siddiq and Farhan Ahmed participated Football event held at SRM University, Chennai on October 2014.
- Mogdoom Siddiq and Farhan Ahmed participated Football event held at Tamilnadu Physical Education and Sports University, Chennai on October 2014.
- Mogdoom Siddiq participated in Football event held at Calicut University on 14<sup>th</sup> December, 2014.
- Hussain, Fayaz, Shylesh, Sathakathulla participated and won first prize in elevator pitching event in ECE department symposium (CRESONANCE) at BSAU on February 2014.
- Hussain, Zeeshan, Shylesh participated and won second place in Scavenger's Hunt in ORION 2014 at BSAU on February 2014.
- Tharika, Sowmiya participated in TECHOFEST cultural held at Anna University, Chennai on February 2014.

## DEVELOPMENTAL ACTIVITIES

### ➤ Digital Forensics and Information Security Lab

The department has setup Digital Forensics and Information Security Lab with open source software's includes NetStumbler, Mini Stumbler, NetBus for working with Trojans, Port Scanning using Netcat, NMap, Fscan, Sniffer, ZxSniffer, RafaleX,SMAC, Nimbuzz, Web Data Extractor and Web site watcher, Metasploit. This lab composes Forensics tools lab, Web Security lab and Hacking techniques lab tools for system level hacking, ethical hacking, SQL Injection attacks, session hijacking and mobile hacking. The main objective of this lab to enhance fundamental techniques in developing secure web based applications, including vulnerability of web based applications and how to protect those applications from various attacks and the ability to quantitatively assess and measure threats to information assets where information networks are most vulnerable.

## INDUSTRY / INSTITUTE COLLABORATION

- Industry-Institute interaction meeting has been arranged in Department of Information Technology with Cloudenablers Pvt Ltd, Chennai on 4<sup>th</sup> March 2015 to setup a cloud computing lab and to conduct training programme based on cloud middlewares, cloud services and Hadoop instances in cloud for UG, PG students and research scholars of Information Technology Department, BSAU.

## SOCIETY ACTIVITIES

- Intra Departmental Technical contest- CRESPIRE'14 was organized on 12<sup>th</sup> March, 2014 at BSAU with various events including paper fest and debate.
- Inaugural function of SIT & IEEE Students Branch on 26<sup>th</sup> August, 2014. The chief guest Mr.G.Olivannan, CEO, Emerald Publishers Pvt, Ltd, Chennai delivered a guest lecture on the topic "Enhancing Leadership Skills".



- National Level Technical Symposium "ICON '15" was organized on 30<sup>th</sup> January, 2015 at BSAU.



- Seminar on "How to prepare competitive exam" on 12<sup>th</sup> August, 2014 for III year B.Tech – IT students by Mr. Mark North, DGB T.I.M.E, Pvt Ltd., Chennai.

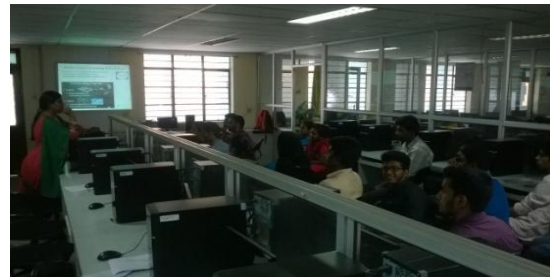
- Seminar on “Opportunities and challenges in Cyber Forensics” on 28<sup>th</sup> October, 2014. The Chief Guest Dr.N.Kala, Director (in charge) Centre for Cyber Forensics Information Security, University of Madras, delivered a lecture on the topic “Recent trends on Cyber Crime”.



- Organized guest lecture on “Emerging Technologies- Cloud Computing, Big Data and Internet of things” by Dr. Anirban Basu, Consultant-PQR Software & Quality and Research Professor, Department of CSE, East Point College of Engineering & Technology, Bangalore on 10<sup>th</sup> April, 2014.
- Organized guest lecture on “3D printing” by Mr.H.R.Mohan, Vice President (Systems)- The Hindu, Chairman-IEEE-CS, Madras on 10<sup>th</sup> April, 2014.
- Organized guest lecture on “Internet of Things- Trends and Opportunities” by Dr.Ranjani Parthasarathy, Professor, Department of Information Science and Technology, Anna University on 10<sup>th</sup> April, 2014.
- Organized guest lecture on “Big Data” by Mr.S.Kannan, Application Architect, Wisen Soft Technologies Pvt.Ltd on 10<sup>th</sup> April, 2014.
- Seminar organized on “Cloud Security” on for M.Tech(IT) final year students by Dr Latha Tamilselvan, Prof. & Head/IT on 20<sup>th</sup> September, 2014.
- Organized guest lecture on “Cyber Security Awareness Programme” for B.Tech(IT) second and third year students and M.Tech(IT) first year students by Mr.P.V Sreejith, Technical Trainer & Mr.Rajesh, Associate Manager, Quick Heal Technologies Pvt Ltd, Chennai on 3<sup>rd</sup> March 2015.



- The Department of Information Technology introduced a theme base event named “Cloud Connect”. Cloud team members of department handled the classes for the students registered in this event on 06-03-15, 13-03-15 and 20-03-15.



- Seven weeks Online course on “MongoDB Application Development using Java” is started from 17<sup>th</sup> March to 5<sup>th</sup> May 2015 at BSAU Apple iOS Application Development Center for registered B.Tech(IT) UG and M.Tech(IT) PG students of Department of Information Technology, BSAU.

## EXTENSION ACTIVITY CONDUCTED

- The Rotaract Inauguration and Installation for the academic year 2014 -2015 conducted by Rtn. I.S.A.K Nazar at BSAU on 4<sup>th</sup> August, 2014.



- Dr.Latha Tamilselvan, Prof. & Head / IT, Ms.P.Latchoumy, AP (Sel.Grade) / IT, Dr G. Kavitha, AP (Sel.Grade) /IT, Mr. N. Rajendran, AP(SG) /IT and Ms.C.Vijayalakshmi, AP(SG)/IT of IT department visited “Saranalayam – a Home for Elders “ on 23<sup>rd</sup> August 2014 as a part of Rotaract club of BSAU.
- World largest human flag formation participated by staff and students of BSAU on 7<sup>th</sup> December, 2014.



## IMPORTANT VISITORS

- Dr. Anirban Basu, Consultant-PQR Software & Quality and Research Professor, Department of CSE, East Point College of Engineering & Technology, Bangalore on 10<sup>th</sup> April, 2014.
- Mr.H.R.Mohan, Vice President (Systems)- The Hindu, Chairman-IEEE-CS, Madras on 10<sup>th</sup> April, 2014.
- Dr.Ranjani Parthasarathy, Professor, Department of Information Science and Technology, Anna University on 10<sup>th</sup> April, 2014.
- Mr.S.Kannan, Application Architect, Wisen Soft Technologies Pvt.Ltd on 10<sup>th</sup> April, 2014.
- Mr.Alageshan Rangaswamy, PMI PMP, CEH & CES, EC Council on 18<sup>th</sup> March, 2014.
- Mr.G.Olivannan, CEO, Emerald Publishers Pvt, Ltd, Chennai on 26<sup>th</sup> August, 2014.



- Dr.N.Kala, Director (in-charge) Centre for Cyber Forensics Information Security, University of Madras on 28<sup>th</sup> October, 2014.
- Mr.Thiruvalluvar, CEO, Cloudenablers Ltd., Chennai on 4<sup>th</sup> March 2015.

## OTHER INFORMATION

- Dr Latha Tamilselvan, Prof&Head/IT and Dr.G.Kavitha, AP(Sel.Gr) delivered a lecture on "Mobile and Pervasive Computing" in ISTE-SRM Sponsored Short Term Training Programme organized by Department of Information Technology, Jerusalem Engineering College on 24<sup>th</sup> June, 2014.
- Ms.L.Shakkeera, Assistant Professor (SG)/IT and Mr.P.Gnanasekaran,AP/IT organized one day Industrial visit programme for B.Tech- IT second & third year students and M.Tech –IT second year Students to Tata Consultancy Services (TCS) at Siruseri on 27<sup>th</sup> October, 2014.
- Dr Latha Tamilselvan, Prof&Head/IT delivered expert lecture on "Recent Trends in Cloud Computing" at Department of Computer Applications at Velliammai Engineering College on 14<sup>th</sup> February, 2015.





# DEPARTMENT OF COMPUTER APPLICATIONS



# COMPUTER APPLICATIONS

## TRAINING PROGRAMMES OFFERED

- Cisco Certified Network Associate (CCNA)
- Oracle Certified Associate (OCA)

## CONFERENCES / FDP / SEMINARS / WORKSHOPS CONDUCTED

S. No	Title of the workshop	Chief guest	Date
1	Mobile applications and Google Applications	Mr. Shah Nawaz Khan, Director – Services, Hibrise Technologies pvt Ltd	6 <sup>th</sup> March 2014
		Mr. Sathya, Gani made Solutions	
2.	Google Applications and Soft skills	Mr. Damodaran, CEO and Managing Director, Amex Technologies	7 <sup>th</sup> March 2014
		Mr. Thameem M. Saied, Technical Director, Fortran Cirket Electronics, Chennai.	
		Mr. Sathya, Ganimade solutions	
3	Android programming and soft skills	Mr. Gajendran Ganesapandian, Member of Technical Staff Engineer (Pay Pal) India	14 <sup>th</sup> March 2014
		Mr. Thameem M. Saied, Technical Director, Fortran Cirket Electronics, Chennai	
4.	QEEE Virtual Workshop - Pedagogy for Teaching Faculty of QEEE Institutes	Professors from IIT Bombay	June 12-14, 2014
5	QEEE Virtual Workshop - Pedagogy for Teaching Faculty of QEEE Institutes	Professors from IIT Bombay	July 24 <sup>th</sup> -26 <sup>th</sup> , 2014
6	Enterprise Architect Tool	Mr. Mohammed Bakkrudeen, Vice President, Operations & Delivery, Sparx Systems India	November 24 <sup>th</sup> -28 <sup>th</sup> , 2014

## CONFERENCES / FDP / SEMINARS / WORKSHOPS ATTENDED

- Dr.P. Sheik Abdul Khader and Dr. Shri Ram attended the two days National Conference on 'Use of Technology in Higher Education' at IIT Mumbai on 25<sup>th</sup> and 26<sup>th</sup> of February 2014 organized by MHRD Gol.
- R. Sivakumar and R. Venkateswaran attended one day QEEE Second Workshop at IIT, Chennai on 27<sup>th</sup> June 2014.



- Dr.P.Sheik Abdul Khader ,HOD/CA. attended Two days National Conference on Use of Technology in Higher Education during Feb 25<sup>th</sup> &26<sup>th</sup> ,2014.
- Mr .I.Sathik Ali, Mr.S.Pakkir Mohideen, Mr.R.Venkateswaran, attended QEEE Virtual Workshop on Pedagogy for Teaching and Learning Faculty conducted by IIT Bombay during July 24<sup>th</sup>-26<sup>th</sup> 2014
- Dr.A.Jaya, Ms.Shahar Banu, Dr.Anny Leema, Ms.Padmavathy, Mr.Javubar Sadik, Mr.Salman Ayaz, attended two days workshop on “Mining Big Data in Social Media and Web” organized by Computer Science and Engineering Department , B.S.A University, Aug 27-28 ,2014
- Ms.Prathiba attended one day Hands on training in Bigdata-Hadoop conducted on 18<sup>th</sup> September 2014,held at B.S.Abdur Rahman University.
- Dr. Anny Leema and Ms.Prathiba attended one day workshop on Cloud Simulator held on 9<sup>th</sup> October 2014 held at B. S. Abdur Rahman University.
- Dr.A.Jaya, Mr.I.Sathik Ali, Ms.Shahar Banu, Dr.Anny Leema, Ms.Padmavathy, Mr.Javubar Sadik, Mr.Salman Ayaz, Ms. Nizar Banu, Mr.Azeezkhan, Mr R.Venkateswaran, Ms. Usnara Musavir, attended five days Training Programme on “Enterprise Architect Tool “conducted by SPARX System, Nov 24 –Nov 28, 2014.
- Mr.Salman Ayaz and Mr.Javubar Sadik attended one day faculty development program on “Industry Applications of Data Structures, Error Handling & OOPs” at Cognizant Technology solutions on 17<sup>th</sup>Dec’14



### PAPERS PUBLISHED/ PRESENTED IN JOURNALS & CONFERENCES

National Conference	International Conference	National Journal	International Journal	Total
3	3	-	20	26

### DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES:

#### International Journal

- Hannah Inbarani P K Nizar Banu,Ahmad Taher, “Feature Selection using Swarm-based relative reduct technique for fetal heart rate”, Neural computing and Applications ,Vol 24,Page no1-14, , IF 1.162, ,Scopus indexed,h index 28,Feb 2014 2014

- Kamila Kauser, A.Anny Leema, “Real time event detection and earth quake reporting system for twitter users “,International Journal of Business Analytics and Intelligence, Vol 2,issue 1 ,Page no 41-45, April 2014.
- P.Surya Praba A,Anny Leema,” Prediction of phishing Website using Virtual Cryptography”, Journal of Network Security,,Scopus,,h index 20,Vol 2, issue no 1 ,Page no 1-6, April 2014
- Karthiga A.Anny Leema,” Supporting search as you type using Incremental computation and Neighbourhood Technique”, Journal of Computer Technology and Applications Vol 5, issue no 1, hindex 28,,Scopus,Page no 1-4 ,April 2014.
- P.Ishwarya, A.Anny Leema ,” Web forum crawling using Index Thread based Algorithm “,International Journal of Business Analytics and Intelligence, Vol 2,issue 1, page no 1-6, April 2014
- P.Vijaya akshmi, A.Anny Leema ,” Real Time Speech Emotion Recognition using Support Vector Machine”, International journal of system and Software Engineering, Vol 2,Issue no 1, April 2014
- Saranya Devi, A. Anny Leema ,” Behavioral Prediction of Network Attacks using Honypot Rules “,Journal of Network Security,Scopus index, h index 20.Vol 2,issue no 1 ,page no 1-8, April 2014.
- P.Latchoumy,P.Sheik Abdul Khader,” Grouping Based Scheduling with Resource Failure Handling in Computational Grid”, Journal of Theoretical and Applied Information Technology,Hindex 7,Scopus, Vol. 63 No.3, pp.605-614, May 2014.
- Mr.Syed Masood, P.SheikAbdul khader,A.Mohamed Abbas,” Performance of TCP and SACK over loop free Multipath reactive routing protocol in MANET , Journal of Theoretical and Applied Information Technology,H index 7, Scopus , Vol 64 ,issue no 2,page no 504-510,20.06.2014
- Vidhya Sathish ,P,Sheik Abdul Khader , “Deployment of proposed Botnet Monitoring Platform Using Online malware Analysis for Distributed Environment “,Indian journal of Science and Technology ,Aug 2014
- Murugesh A.Jaya ,” Generic framework forrequirements elicitation from informal descriptions”,International Journal of Advanced Research in Computer Engineering & Technology,,IF 2.79, Vol 3 Iss 7, pp 2545-2549, July 2014
- G. Shreedevi M.Munir Ahamed Rabbani ,” Optimizing modular Image PCA using genetic algorithm for expression Invariant face recognition, IEEE Explorer Digital Library, ISBN : 978-1-4799-3485-0, pp. 319-323, August 2014.
- B. Rashida ,M.Munir Ahmed Rabbani ,” 3D Image Based face Recognition System”, International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 4(8),pp. 405-408, August 2014.

- Javubar Sathick, A.Jaya,” Generic Framework for Semantic Query conversion in Social Web sources”, International Journal of Latest Technology in Engineering, Management & Applied Science IF 1.356, Vol 3, No10, pg 75- 79, October 2014.
- P. K. Nizar Banu, Hannah Inbarani, H. Ahmed Taher Azar,” Rough Set based Feature Selection for Egyptian Neonatal Jaundice, International Journal of Communications in Computer and Information Science. Vol. 488, pp. 367 – 378, October 2014
- M.Chithik Raja M.Munir Ahamed Rabbani,” Big Data Analytics Security Issues in Data Driven Information System, International Journal of Innovative Research in Computer and Communication Engineering Vol.2(10), October 2014.
- Ziaul Haque Choudhury, M.Munir Ahamed Rabbani, “Biometrics Passport Authentication using Facial Marks”, Australian Journal of Basic and Applied Sciences h index 12, Scopus indexed, Vol. 8(16), pp.40-47, October 2014.
- R.Mervin, A.Jaya ,” Knowledge Based Question Answering Using Ontology”, International Journal of Engineering Sciences & Research Technology, IF 2.114, Vol 1, pg no 523 – 528. October 2014
- K. Nizar Banu, S.Andrews,” Evaluation of Fitness Functions for Swarm Clustering applied to Gene Expression Data, International Journal of Smart Innovations Systems and Technologies, h index 4 , Scopus, Vo. 33, pp. 571-581. Dec 12, 2014.
- Omprakash, A.Jaya,” Analyzing the user navigation pattern from web logs”, International Journal of Engineering Sciences & Research Technology, ,IF 2.114, Dec 2014.
- Azeez Khan , P.Sheik Abdul Khader ,” An Approach for externalization of expert tacit knowledge using a query management system in a E-learning environment”, International Review of Research in open and distance learning (IRRODL),(Scopus indexed), IF 0.69,, Hindex 26, December 2014

### International Conference

- Shree Devi, Dr.Munir Ahmed Rabbani, ‘Optimizing Modular Image PCA using Genetic Algorithm for expression Invariant face Recognition’, International Conference on Networks and Soft Computing , Guntur , Aug 19<sup>th</sup> -21<sup>st</sup> 2014
- B.Rashida, Dr.Munir Ahmed Rabbani, ‘Pose Invariant face Recognition using PCA & HAAR’, International Conference on Electrical, Communication and Computing, ICECC-2014m Tagore Engineering College ,Chennai m March 13<sup>th</sup>&14<sup>th</sup>, 2014
- A.Jaya , ‘A Generic Framework for Intelligent tutor using ontology’, International Conference on ‘Artificial intelligence and Manufacturing Engg’, Dubai, UAE, Dec 25<sup>th</sup> – 26<sup>th</sup> 2014



### **National Conference**

- K.Shobana, A.Anny Leema," A Survey on Opinion Mining Using Clustering Igorithms", National Conference on Advanced Research Technology in Information , Technology,Kovilpatti,Nov 7<sup>th</sup> 2014
- K.Vijaya lakshmi," An Overview of XSS Attacks and its Counter Measures ",National Conference on Advanced Research Technology in Information Technology, Kovilpatti,Nov 7<sup>th</sup> 2014
- Zameer, A.Anny Leema," E-Learning : An Exploratory Analysis of LMS in India ", National Conference on Advanced Research Technology in Information Technology,Kovilpatti,Nov 7<sup>th</sup> 2014

### **BOOK PUBLISHED**

- Anny Leema, A. and M. Hema Latha, July 2014. Chapter titled - Data Management Issues in RFID Applications in the book RFID Technology Integration for Business Performance Improvement. <http://www.igi-global.com/book/rfid-technology-integration-business-performance/104742>.

### **ACHIEVEMENTS OF STAFF**

- Dr.Mohamed Abbas obtained his Ph.D degree from Bharathiyar University, Coimbatore ,January 2014.
- Dr.P.Sheik Abdul Khader as Research Supervisor has produced his fifth,sixth and seventh research scholars to obtain their Ph.D degrees from Bharathiyar University,Anna University and Sathyabama University .
- Dr.P.Sheik Abdul Khader acted as a chair person in Sixth International Conference on Advanced Computing 2014 at MIT Campus ,Anna University ,Chennai on 18<sup>th</sup> Dec 2014
- Dr.A.Jaya delivered key note address on" Sentic Computing" at Dr. M.G.R Janaki College of Arts and Science College for women on 12<sup>th</sup> September 2014.
- Dr.A.Jaya acted as a Session chair in the International conference on Artificial intelligence and Manufacturing Engineering" during 25<sup>th</sup> – 26<sup>th</sup> December 2014 in Dubai.

### **ACHIEVEMENTS OF STUDENTS**

- P. Salu, of I year MCA won Third place in All India Inter University Ball Badminton( Women) Tournament conducted by B.SAbdur Rahman University during Dec 26-30, 2014
- A.Arsath Ali, of I year MCA won Fourth place in All India Inter University Ball Badminton( Men) Tournament conducted by B.S.Abdur Rahman Univesity during Dec 26-30, 2014.

- V.K.Mohamed Shakeeb and P.Mohamed Ali Jawad of III year MCA won winner in Inter College Ball Badminton Tournament ,conducted by Chengalpet Medical College – September 2014
- V.K.Mohamed Shakeeb and P.Mohamed Ali Jawad of III year MCA participated All India South Zone Ball Badminton Tournament ,Coimbatore Dec 2014.
- Mohamed and B.Sridhar of III year MCA won 1<sup>st</sup> place in Debugging event in National level Technical symposium conducted by St Joseph's College Of Engineering Chennai. On 30 th Sep 2014.
- Mohammed, R.V.Ramkumar, Mohammed idris, B.Sridhar and Mohammed Ibrahim of III year MCA won 3<sup>rd</sup> place in Adzap event in National level Technical symposium conducted by St Joseph's College Of Engineering Chennai on 30 th Sep 2014.
- Mohamed, . Mohammed Idris of III year MCA won 2<sup>nd</sup> place in Crisis Management event in National level Technical symposium conducted by St Joseph's College Of Engineering Chennai on 30 th Sep 2014.
- Mohamed Ibrahim and R.V.Ram Kumar of III year MCA won 3<sup>rd</sup> place in Quiz event in National level Technical symposium conducted by St Joseph's College Of Engineering Chennai on 30 th Sep 2014.
- Mohammed and . B.Sridhar of III year MCA won 2<sup>nd</sup> place in Gamming event in National level Technical symposium conducted by St Joseph's College Of Engineering Chennai on 30 th Sep 2014.
- J.Poojitha and S.Vivek won 3<sup>rd</sup> place in the pictorial representation of recent trends on the topic motion capture conducted by Dr. MGR Janaki College of Arts and Science for Women during Aug 2014 .
- MCA students Participated In World Record Attempt “My Flag My India” held at Nandhnam YMCA during Dec 2104

## INDUSTRY / INSTITUTE COLLABORATION

### SOCIETY ACTIVITIES

- The Inauguration for the activities of the Computer Applications Association for the academic year 2013-14 was held on 17<sup>th</sup> September 2014. Mr. Udaya Sankar, Sector Skill Council, South India, NASSCOM was the chief guest for the function. He delivered a Motivational Talk on Placement Opportunities.



Mr. Mohammed Bakkrudeen Vice President, Operations & Delivery, Sparx Systems India, delivered a lecture on Enterprise Architect Tool on Sep 17<sup>th</sup> 2014. On



the same day Mr. Thameem Saied, Technical Director, Fortran Circuit Electronics, Chennai, addressed students on Soft Skills for developing the Employability.

National Technical Symposium - CyberCrest'15 was held on 28th January 2015. Dr Albert Fässler, Bern University of Applied Sciences, Switzerland and Mr. P. Sukumar, Regional Manager (Kerala and Tamil Nadu) Oracle were the chief guests. Prof. Dr. Albert Fassler addressed the gathering on the importance of computers and mathematics.



Dr. P. Sukumar, Regional Manager, Oracle addressed the gathering on 'Big Data Analytics'. He focused on how Hadoop and Map-Reduce are useful to analyze Big Data. He spoke on the accumulation of data from social media and other repositories that help to predict customer requirement analysis, health care analysis and so on.

Cyber Crest'15 comprised five different technical events to bring out the talents of students namely Paper Presentation (Cres Debut), Software Development (Cres WareDev), Technical Quiz (Cres Witsstorm), Multimedia Presentation (Cres PentaPlay) and Tech Talkies (Cres Tech Cavern). 113 students from more than 15 institutions in and around Chennai participated in the Symposium.

### **MoUs SIGNED**

MOU has been signed between BSAU and SPARX Systems on 22-09-2014 to facilitate a partnership for training of students on the use of the Enterprise Architect software as well as making BSAU as its hub for development and application of the products using this SPARX software.



In continuation of the MOU, five days training programme is arranged to our university faculty members from 24-11-2014 to 28-11-2014. Corporate level hands on training is provided to the faculty members of the Department of Computer Applications, Department of Computer Science Engineering, Department of Information Technology, Department of Mechanical Engineering and Crescent Business School by M/s. Sparx Systems India,



### **EXTENSION ACTIVITY CONDUCTED**

Research Interaction meeting was conducted with Dr. Ibrahimsha, Professor USA, for staff and research scholars of B.S. Abdur Rahman University on 19.01.2015.

- Open house programme was conducted at B.S.A.University during March 30<sup>th</sup> and 31<sup>st</sup> 2014 and January 9<sup>th</sup> and 10<sup>th</sup> 2015.Students of Computer Applications Department exposed their creativity in an innovative way by modeling the miniature of the following projects
  - OSI layers
  - Accessing Internet usinglifi Technology,
  - Wireless Sensor Network Home security system
  - Bermuda triangle
  - Password Protection and Gaming
  - Water Overflow Detector
  - VGA Splitter
  - Illusion of Inventors
  - Solar Energy
  - Network Modeling
  - Cyber Security

### **IMPORTANT VISITORS**

1. Chairman - Dr. Juma Saleh Al-Ghailani – Mazoon College, Oman.
2. Malaysian faculties



**DEPARTMENT OF MATHEMATICS &  
ACTUARIAL SCIENCE**



## MATHEMATICS AND ACTUARIAL SCIENCE.

### CONFERENCES / FDPs / SEMINARS / WORKSHOPS CONDUCTED BY THE DEPARTMENTS

- Lecture delivered by Dr. Rahul A Parsa. Distinguished Professor of Actuarial Science and Statistics, Director, Actuarial Science Program, College of Business and Public Administration, Drake University, USA on the topic “Credibility and its relationship to One – Way ANOVA” on 10<sup>th</sup> January 2014.
- One Day National Workshop on “Opportunities and Challenges of Actuarial Science” was conducted on 21.2.2015. Three invited speakers Ms. D. Rama, Vice President of Production Department, Star Health Insurance, Chennai, Mr. R Satyanarayan, Assistant divisional manager, Life Insurance Corporation of India, Chennai and Dr. G Gopal, Visiting Professor at Madras School of Economics delivered their lectures in the Workshop.
- Guest Lecture was delivered by Dr. S. Arumugam, Senior Professor (Research) & Director (n-CARDMATH), Kalasalingam University, Krishnankoil on the topic “ Graph theoretic Models for Social Network” 21/2/2015.
- National Level Technical Symposium “INFINITY 2015” was organized on 24.3.2015



### FDP / SEMINARS / WORKSHOPS ATTENDED

CONFERENCE	FDP	Seminar	Workshop	Total
1	0	1	5	7

### DETAILS OF FDP / SEMINARS / WORKSHOPS ATTENDED

S. No	Author	Name of the Programme	Place	Date
1	K. Rajachandrasekar	DST Sponsored Instructional Workshop on Domination in Graphs	Kalasalingam University, Krishnankoil	27 <sup>th</sup> Jan. – 1 <sup>st</sup> Feb. 2014
2	M.G. Fajlul Kareem	Workshop for College Lecturers on Enriching Collegiate Mathematics	Institute of Mathematical Sciences, Ch.	13-14 <sup>th</sup> March 2014

3	C.D. Nanda Kumar	Workshop for College Lecturers on Enriching Collegiate Mathematics	Institute of Mathematical Sciences, Chennai	13-14 <sup>th</sup> March 2014
4	A. Bernick Raj	Workshop for College Lecturers on Enriching Collegiate Mathematics	Institute of Mathematical Sciences, Ch.	13-14 <sup>th</sup> March 2014
5	A. S. Prasanna Venkatesan	Workshop for College Lecturers on Enriching Collegiate Mathematics	Institute of Mathematical Sciences, Chennai	13-14 <sup>th</sup> March 2014
6	K. Rajachandra sekar	10 <sup>th</sup> Annual Conference of ADMA & Graph Theory Day	REVA Institute & Management, Bangalore.	10-13 <sup>th</sup> June 2014
7	K. Rajachandra sekar	National Seminar on Graph Theory and Its Applications	St. Xavier's College for Women, Aluva.	07-09 <sup>th</sup> August 2014
8	G. Kalaiarasan	International Workshop on Statistical Methods For Business And Industry Applications	Indian Statistical Institute, Chennai.	8-9 <sup>th</sup> January 2015
9	C. D. Nanda Kumar	National Workshop on scientific Computing – Today's Challenges	Justice Basheer Ahmed Sayeed College For Women, Ch.	7 <sup>th</sup> February 2015
10	A. Bernick Raj	National Workshop on scientific Computing – Today's Challenges	Justice Basheer Ahmed Sayeed College For Women,Ch..	7 <sup>th</sup> February 2015
11	A. Sagaya Suganya	One Day National Workshop on Fuzzy Set Theory and Its Applications	Loyola College,Ch.	9 <sup>th</sup> February 2015
12	Mahadev Ota	National Level Conference entitled " FDI in Indian Insurance Industry Challenges & opportunities"	Bishop Heber College, Tiruchirapalli.	26-27 <sup>th</sup> February 2015
13	G. Kalaiarasan	National Level Conference entitled " FDI in Indian Insurance Industry Challenges & opportunities"	Bishop Heber College, Tiruchirapalli.	26-27 <sup>th</sup> February 2015
14	A. K. Abidha	International Conference on New Horizons in Statistical Modeling & Applications	Presidency College, Ch.	27-28 <sup>th</sup> February 2015



## PAPERS PUBLISHED / PRESENTED IN JOURNALS & CONFERENCES

National Conference	International Conference	National Journal	International Journal	Total
3	4	0	14	21

## DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL CONFERENCES

S. No	Author	Paper Title	Name of the Conference	Place	Date
1	A.Divya and P. S. Sheik Uduman	Controlling of Heart Disease by Detecting the Threshold Value of Fast Food Eaters in Tamil Nadu	National Conference on Recent Trends in Applied Mathematics	St. Josephs College of Arts & Science, Cuddalore	28 <sup>th</sup> February 2014
2	A.Divya and P. S. Sheik Uduman	Analyzing the major reasons for the initial stage of smokers using Generalized Trapezoidal Fuzzy Cognitive Maps	National Conference on Recent Development in Mathematics and its Applications	The Madhura College, Madurai	9 <sup>th</sup> January 2015
3	A. Sagaya Suganya	Pebbling number on Butterfly Network	National Conference in Mathematics and Computer Applications	WCC College, Chennai	12-13 <sup>th</sup> January 2015
4	M.V. Jayanthi and P.S. Sheik Uduman	An EOQ Model with Deteriorating items under inflation and time varying holding cost.	International Conference on Modeling and Simulations	IIT-Madras	8-10 <sup>th</sup> December 2014
5	A.Divya and P. S. Sheik Uduman	Detecting the major risk factors for Hypertensive Heart Disease using Induced Fuzzy Cognitive Maps	International Conference on Mathematical Methods and Computation	Jamal Mohamed College, Tiruchirapalli	22-23 <sup>rd</sup> January 2015

6	Pervaiz Iqbal and P. S. Sheik Uduman	Applications of Johnson's Algorithm for finding the shortest path of a Network using sequencing technique to compute the optimal route.	International Conference on Mathematical Methods and Computation	Jamal Mohamed College, Tiruchirapalli	22-23 <sup>rd</sup> January 2015
7	M.G. Fajlul Kareem and P.S. Sheik Uduman	Mathematical Modelling of Biological Problems and its Numerical Analysis	International Conference on Mathematical Methods and Computation	Jamal Mohamed College, Tiruchirapalli	22-23 <sup>rd</sup> January 2015
8	M.G. Fajlul Kareem	Islam Opposes Terrorism	National Conference on Prophetic Guidance for Modern Social Issues	School of Islamic Studies, B.S.Abdur Rahman University	23 <sup>rd</sup> February 2015
9	P.S. Sheik Uduman	Extended Pathway Integral Transformer	International Conference on Nonlinear Systems and Dynamics.	Indian Institute of Science Education & Research, Mohali.	13-15 <sup>th</sup> March 2015
10	M.G. Fajlul Kareem and P.S. Sheik Uduman	A Study on some Bio – Mathematical Models using the Setting the Clock Back to zero property	National Conference on Recent Trends in Science, Engineering & Management.	Tagore Engineering College, Chennai.	20 <sup>th</sup> March 2015
11	A. Divya and P. S. Sheik Uduman	A Review of Fuzzy Risk Analysis Model And Predator – Prey Model in Fuzzy	National Conference on Recent Trends in Science, Engineering & Management.	Tagore Engineering College, Chennai.	20 <sup>th</sup> March 2015

## DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS

S. No	Author	Title of the Paper	Name of the Journal / Vol /Page No
1	E. Syed Mohammed and S. Rajasekaran	A study of Tsunami model for propagation of oceanic waves	Journal of theoretical and applied Information technology, Vol. 59 (2) Jan 2014, 510-519.
2	S.Indumathy, S.Rajasekaran and S.Balamuralitharan	ODE Model of Thromboporesis	International Journal of emerging technology and advanced Engineering, Vol . 4 (1), Jan 2014, 605-610.
3	Pervaiz Iqbal and P.S.Sejik Uduman	Mathematical modeling and behavior of the digestive system of a paper making plant based on Queuing Theory	International Journal of Pure and Applied Mathematics, Vol. 90(1), Jan 2014, 43-56.
4	S.Rajeswaran and S.Rajasekaran	Analysis of traffic flow in congested cities using cellular automata	Journal of theoretical and applied Information technology. Vol. 60 (3) Feb 2014, 608-615.
5	C. D. Nanda Kumar and S. Srinivasan	PDF of the random variable when its distribution function changes after the change points	Applied Mathematical Sciences, Vol. 8(7) 2014, 337-343.
6	S. Maragathasundari, S. Srinivasan and A. Ranjitham	Batch Arrival Queueing System with Two Stages of Service	International Journal of Mathematical Analysis, Vol. 8(6) , 2014, 247-258.
7	Asick Ali and P.S.Sejik Uduman	Mathematical Model Related to Human Life Expectancy	International Journal of Mathematics and Statistics Invention, Vol. 2(3), March 2014, 8-13.
8	Sindhu J Kumaar, P.J.Abisha, D.Gnanaraj Thomas, Nor Haniza Sarmin, K.G. Subramanian	Languages defined by Pure Patterns	App. Math. And Comp. Intel., Vol. 2(2), March 2014, 195-203.
9	A. Divya P.S.Sejik Uduman and Dowlath Fathima	Controlling of Heart Disease by Detecting the Threshold Value of Fast Food Eaters	International Journal of Computing Algorithm, Vol. 3, May 2014, 734-740.
10	G.Kalaiarasan, and S.Srinivasan	Assessing fixed income portfolio risk using duration and convexity	International Journal of Engineering Technology, Management and Applied Sciences, Vol. 2(3), August 2014, 125-133.
11	Pervaiz Iqbal and P.S.Sejik Uduman	Mathematical modeling and Performance Analysis of Stock Preparation Unit in Paper Plant Industry using Genetic Algorithm	International Journal of Mathematical Sciences, Vol. 34(22), October 2014, 1629-1638.

12	Sindhu J Kumar and F. Amjad Basha	On Non-Synchronized Pure Pattern Grammars	Applied Mathematical Sciences, Vol. 8(137), October 2014, 6835-3841.
13	S. Maragathasundari and S. Srinivasan	A Non-Markovian Multistage Batch Arrival Queue with Breakdown and Reneging	Mathematical Problems in Engineering, Vol.16, November 2014, 2-16.
14	Pervaiz Iqbal and P.S.Sejik Uduman	Genetic Algorithm for permutation flowshop scheduling problem to minimize the makespan	International Journal of computing algorithm, Vol.3(2), December 2014, 1086-1091.
15	P. S. Sejik Uduman and A. Divya	Analyzing The Major Reasons For The Initial Stage Of Smokers Using Generalized Trapezoidal Fuzzy Cognitive Maps	Roots International Journal of Multidisciplinary Researches, Vol 1 (1), January 2015, 1 – 14.

#### DETAILS OF IMPACT FACTOR OF THE PUBLICATION H-Index

a) RANGE	b) AVERAGE	c) h-INDEX	d) NO. IN SCOPUS
--	--	0.35714	---

**Average impact factor: 1.3269**

#### SPONSORED RESEARCH (ONGOING / APPLIED)

S.No.	Principal and Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1	Dr.P. S.Sejik Uduman and Dr. Neesar Ahmed	Department of Science and Technology, New Delhi	Modelling and Analysis of Tumor Growth as a Hybrid Dynamical System with Unique SCBZ Approach	52.67 Lakhs	Applied
2	Dr. S. Srinivasan and Mr. J. Ravinder	Department of Science and Technology, New Delhi	Fuzzy Fixed Point Theorems in Hybrid Dynamical Systems and their Algorithms	16.76 Lakhs	Applied

## ACHIEVEMENTS OF STAFF

S. No	Name of the Staff	Achievement of the Staff	Month /Year	Details
1	Mr. Mahadev Ota	Professional Exam	January / 2014	CT8/Financial Economics Examination conducted by Institute of Actuaries of India
2	Mr. Mahadev Ota	Professional Exam	April / 2014	Business Awareness Module Examination conducted by Institute of Actuaries of India
3	Dr. T.R. Ramesh Rao	Ph.D Awarded under Madras University	October / 2014	Thesis Topic on "Examination of Critical Factors in the Application of Lot Quality Assurance Sampling for Assessing Disease Control Programmes"

## ACHIEVEMENTS OF STUDENTS

S. No	Name of the Student	Achievement of the Student	Month /Year	Details
1	Ms. Dowlath Fathima	Ph.D Awarded under the guidance of Dr.P.S.Sheik Uduman	April / 2014	Thesis Topic on "A Stochastic Modelling with Varying Demand Distributions in Inventory Control".
2	Mr. Amir Ahmad Dar	Professional Exam	December / 2014	Actuarial Common Entrance Test conducted by Institute of Actuaries of India, Mumbai.
3	Ms. S. Saivershini	Professional Exam	December / 2014	Actuarial Common Entrance Test conducted by Institute of Actuaries of India, Mumbai.

## ANY OTHER INFORMATION

- Dr. P. S. Sheik Uduman, Professor, Head of the Department, delivered a Guest Lecture in the Workshop entitled "Application of Mathematics" conducted by Justice Basheer Ahmed Sayeed College For Women, Teynampet, Chennai on 20.9.2014.
- Dr.Sindhu J Kumaar, Associate Professor, served as a resource person to Judge the Paper and Poster Presentation sessions in a Stat level Technical Symposium "Convergence 2015"conducted by Sri Sai Ram Engineering College, West Tambaram,Chennai on 19.3.2015.
- 100% result achieved by the students of M.Sc. Actuarial Science in April 2014



## **SCHOOL OF ELECTRICAL & COMMUNICATION SCIENCES**

- **Dept. of Electrical & Electronics Engg.**
- **Dept. of Electronics & Communication Engg.**
- **Dept. of Electronics & Instrumentation Engg.**





**DEPARTMENT OF  
ELECTRICAL & ELECTRONICS  
ENGINEERING**



# ELECTRICAL AND ELECTRONICS ENGINEERING

## ACADEMIC PROGRAMS OFFERED:

- (i) B.Tech. (Electrical & Electronics Engineering)
- (ii) B.Tech. (Electrical & Electronics Engineering) VII Semester – Part Time
- (iii) M.Tech. (Power System Engineering)
- (iv) M.Tech. (Power Electronics & Drives)
- (v) Ph.D. (Part time / Full Time)

Even before attaining University status, the Department of EEE was a recognized Research Centre under Anna University and offered Research Programs in Ph.D. and M.Tech. (By Research). The minimum qualification of the department faculty is M.Tech / M.E and 60% of the faculty members are either Ph.D qualified or pursuing Ph.D. The faculty members are with diverse specializations in Power System, High Voltage Engineering, Electric Machines, Power Electronics, Control System, Applied Electronics and Embedded Systems etc. The courses by the department from 1<sup>st</sup> semester through final semester are handled by the Department faculty members. The faculty : student ratio of the department is 1 : 12.3. The average experience of the faculty members is 12.75 years.

## TRAINING PROGRAMMES OFFERED

- The Department of EEE conducted a special bridge courses during the summer vacation of second semester, so as to teach the mathematical aspects to the students entering into the third semester. It is expected that this exercise should improve the result percentage in the analytical subjects in future. Mrs. Zandra Mary, a freelancer addressed the session(s) and gave lecture to improve the skills both in communication and personality development for the students.
- As a part of MoU signed between PPKS, Sarawak, Malaysia, a short term training programme was organized for the three faculty members of PPKS from 12<sup>th</sup> November 2014 to 28<sup>th</sup> December 2014. The following three female faculty members were attended the programme and completed the same successfully.
  - Ms. Catherine Anak Guma, Computer System Lecturer
  - Ms. Faheezah bt Mohd Ibrahim, Computer System Lecturer
  - Ms. Syuhaira Binti Mohd Zin, Electrical Lecturer
- Mr. C. Athbel Joe, AP/EEE organized a training programme on Kaizen Robotics through Lema Labs, IIT Madras Research Park. Students from various departments participated. The training programmes conducted during the weekend of April-May 2014.



### CONFERENCES / FDP / SEMINARS / WORKSHOPS CONDUCTED:

- A workshop, on “Design, Modelling and Simulation using CST Studio Software” was organized on 11<sup>th</sup> August 2015. Mr. Sharath Babu, Manager – Business Development, STEP Electronics Pvt. Ltd., Bangalore delivered the lecture.
- A seminar on “Recent Trends in Electrical Drives & Control”, was organized on 12<sup>th</sup> August 2014. Mr. J. Srinivasan, CEO, Power House, Chennai delivered the lecture.

### CONFERENCES / FDP / SEMINARS / WORKSHOPS ATTENDED:

- Mr. Y. Mohamed Shuaib, AP(SGL)/EEE presented a paper on “Loss Minimization in Radial Distribution System using Group Search Optimization Algorithm” in the International Conference on Electrical Communication and Computing (ICECC) at Tagore Engineering College during 13 -14 March 2014.
- Mrs. S. Jennathu Beevi, AP/EEE presented a paper on “Load Frequency control using IMC based PID controller in the International Conference on Electrical Communication and Computing (ICECC) at Tagore Engineering College during 13 -14 March 2014.
- Mrs Belwin J.Brearley, AP/EEE attended a two days workshop on “Smart Grid for Renewable Energy sources” on 7<sup>th</sup> and 8<sup>th</sup> January 2015 at CPRI Bangalore.
- Ms. A. Kalirathinam,, AP/EEE and Mrs. V. Selvi, AP/EEE attended state level workshop on “Art of writing research papers to publish in Educational Journals”, conducted by SRM school of teacher education and research on 20<sup>th</sup> December 2014.
- Ms. A. Kalirathinam, AP/EEE Participated in the “dSPACE user conference 2014 - India” conducted by Dynafusion technologies private limited, Bangalore on 12<sup>th</sup> September 2014.
- Ms. A. Kalirathinam, AP/EEE & Mr. C. Athbel Joe, AP/EEE attended a Seminar on “Academic conclave” conducted by National instruments (NI), Chennai on 20<sup>th</sup> August 2014.
- Ms. S. Kavitha, AP/EEE and Mrs. K. Nisha, AP/EEE attended a National Workshop on “Energy Management System in Microgrids” at S.S.N. Engineering College during 18-19 December 2014.
- Mrs. R. Ramya, AP/EEE & Mr. P. Sadasivam, Research Scholar attended One day Symposium on “Health Care Instrumentation : Present & Future Clinical and Technology”, organized by NHHID, Anna University, Chennai on 1<sup>st</sup> November 2014.
- Mrs. S. Jennathu Beevi, AP/EEE and Mrs. K. Nisha, AP/EEE attended the Short Term Course on “Power System State Estimation”, from 28-31 January, 2015 at SRM University.

## PAPERS PUBLISHED / PRESENTED IN JOURNALS & CONFERENCES:

National Conference	International Conference	National Journal	International Journal	Total
29	16	--	13	58

## DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES:

### International Journal:

- S. Subanitha, M. Ramkumar, "Trans –Z-source inverter for Photovoltaic Generation system", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol3, Special Issue 2, pp-484-491, 28-29 March 2014
- M. Bavitra, Belwin J. Brearley, "Current Control Strategy for parallel Operation of inverters based on Microgrids", International Journal of Advanced Research in Electrical, electronics and Instrumentation Engineering Vol.3, Special issue 2, April 2014
- Karthik P, Belwin J. Brearley, "Microgrid Protection using Digital Relays", International Journal of Advanced Research in Electrical, Electronics and Instrumentation engineering, Vol.3, Issue 2, April 2014, PP 166-175
- R. Soundarapandian, R. Jayashree, "Improved Wind Energy Penetration in a Grid connected Power System by Wind pumped storage Hydro Power Plant", International Journal of Applied Engineering Research, Vol. 9, Issue No.18, 2014, PP 4091-4098
- R. Soundarapandian, R. Jayashree, "Wind Hydro Hybrid System using PMSG and pumped storage ina grid connected power system", International Journal of Scientific and Engineering Research, Volume No: 5, Issue No.4, April 2014, PP 141-160
- S. Jennathu Beevi, R. Jayashree, "Load Frequency Control using IMC based PID Controller", International Journal of Scientific and Engineering Research, Vol.5, Issue 4, April 2014 PP 24-28
- Y. Md. Shuaib, M. Surya Kalavathi, "Optimal Capacitor Placement in radial Distribution System using Group Search Optimization Algorithm", International Journal of Scientific and Engineering Research, Vol. 5, Issue 4, April 2014 PP 77-80.
- Balahemalatha, K. Sarmila Har Beagam, K.N. Srinivas, "A Permanent Magnet Brushless DC motor Drive based voltage control power factor correction SEPIC converter", International Journal of Scientific & Engineering Research, Vol. 5, Issue 4, April 2014 PP 16-21
- M. Kiruthiga, M. Abdullah Khan, "Allocation of Transmission Loss and transmission usage charge to participants in Restructured Power System", International Journal of Science and Research, Vol 3, Issue 5, May 2014, PP 420-423
- Y. Mohamed Shuaib, M. Surya Kalavathi, C. Christober Asir Rajan, "Optimal Reconfiguration in Radial Distribution System using Gravitational Search Algorithm", International Journal on Electric Power Components and Systems (Taylor & Francis), Vol 42, Issue 7, June 2014 PP 703-715

- Y. Mohamed Shuaib, M. Surya Kalavathi, C. Christober Asir Rajan, "Optimal Capacitor placement in radial distribution system using Gravitational Search algorithm", International Journal on Electrical Power and Energy Systems (ELSEVIER), Vol 64, July 2014 PP 384-397
- R. Soundarapandian, R. Jayashree, "Thermal Unit commitment considering Co-ordination Wind and Pumped Hydro Storage units using PSO", International Journal of Applied Engineering Research, Vol 9, Issue 17, 2014
- Athbel Joe, S. Krishna, "An under-frequency load shedding scheme with limited knowledge of system parameter", International Journal of Emerging Electric Power Systems, Vol.16, No.1, pp.33-46, Feb 2015.

#### **International Conference:**

- S. Jennathu Beevi, R. Jayashree, P/EEE, "Load Frequency Control using IMC based PID controller", International Conference on Electrical, Communication and Computing, PP 355-358, 13-14 March 2014
- S. Jeyakumar, A. Kalirathinam, "Five level ZVS, ZCS active clamping PWM for the DC-DC buck converter", International conference on Advances in Engineering, Technology and Management, NPR college of Engineering and Technology, March 2014 PP 10
- G. Vadivel, V. Bharanigha, "Transformer coupled multi-port converter for variable input voltages", International Conference on Advances in Engineering, Technology and Management, NPR College of Engineering & Technology, Natham, 17-20, March 2014
- H. Abdhus Sabour, V. Bharanigha, "Soft switching based dc/dc converter for fuel cell based applications", International Conference on Advances in Engineering, Technology and Management, NPR College of Engineering & Technology, Natham, PP 104, 28-29 March 2014
- R Revathi, K N Srinivas, "Analysis of mutually coupled switched reluctance motor", International Conference on Advance Research in Engineering and Technology, ARM College of Engineering Technology, Chennai, PP 24-29, 18-19 April 2014
- R Radhika, K N Srinivas, "Magnetic analysis of switched reluctance motor with new rotor geometry", International Conference on Advance Research in Engineering and Technology, ARM College of Engineering & Technology, PP 16-23, 18-19 April 2014
- A. Arivudainambi Mr. A, Sultan Saleem, "Real time price based scheduling for residential demand response using optimal stopping rule", 8<sup>th</sup> International Conference on "Science, Engineering and Technology ", organized by School of Advanced Sciences, VIT University, Vellore, India PP 1-4 May 6-7, 2014
- M. Dharani, Dr. R.Raja Prabu, "Study of biophysical changes on the cell membrane of cancer cells upon Electroporation", International Conference on trends in Mechanical, Aeronautical, Computer, Civil, Communication and Electrical Sciences, PP 1-4, 19<sup>th</sup> and 20<sup>th</sup> February 2014
- N.Sankari, Dr.R.Raja Prabu, "Modeling, control and protection of hybrid microgrid", International Conference on Trends in Mechanical, Aeronautical, Computer, Civil, Communication and Electrical Sciences, Tamizhan College of Engineering & Technology, PP 1-4, February 19<sup>th</sup> and 20<sup>th</sup>, 2014

- S.Mohamed Abulhasan, V.Selvi , S.Suresh, “Modelling and control of wind farms under asymmetrical grid faults”, International Conference on Advances in Engineering, Technology & Science-2014, Hotel Clouds Valley Leisure, Munnar, Kerala, India, PP 217-221, 26-27 April 2014
- B.Malik Basha, R.Raja Prabu, “Studies on epoxy-silicone hybrid nano dielectrics for high voltage insulators”, International Conference on Trends in Mechanical, Aeronautical, Computer, Civil, Communication and Electrical Sciences, Tamizhan College of Engineering & Technology, February 19<sup>th</sup> and 20<sup>th</sup>,2014
- R.Balahemalatha, “Permanent Magnet Brushless DC Motor Drive Based Voltage Control of Correction using Sepic Converter”, International Conference On Electrical Communication And Computing ,Tagore Engineering College, 13 -14 March 2014
- A.Gowrisankari, S. Kavitha, “Optimal Sizing and Sitting of Distributed Generation for Relieving Congestion”, International Conference on Advances in Engineering, Technology & Sciences – 2014, ICAETS’14, held at Hotel Cloud Valley leisure, Munnar, India, 2014
- Ajay Kumar, Jennatthu Beevi, Dr.R.Jayashree, “Load Frequency Control using Fuzzy Logic Controller in Two Area Power System”, International Conference on advances in Engineering Technology and Management, NPR College of Engineering & Technology, Natham, PP 21-24, 28-29 March 2014
- D.Buvana , R.Jayashree, “Fuzzy logic based Current controlled non-isolated Bidirectional DC-DC converter” ,, Proceedings of International Conference on Electrical, Communication and Computing-ICECC-2014, Tagore Engineering College, Chennai, PP 1-6, 13<sup>th</sup> and 14<sup>th</sup> March 2014.
- R.Soundarapandian, R.Jayashree, “Wind-Hydro Hybrid System using PMSG and Pumped Storage in a Grid Connected Power System”, Proceedings of International Conference on Electrical, Communication and Computing-ICECC-2014, Tagore Engineering College, PP 1-6, 13<sup>th</sup> and 14<sup>th</sup> March 2014.

### **National Conference:**

- H. Abdhus Sabour, V.Bharanigha, “Snubberless Converter Design Using ZCS to Reduce Voltage Spike Problems”, Proceeding of First National Conference on Recent Advances in Science, Engineering and Technologies-RASET-2014, PP 62-67, 20-21 March 2014
- Bavithra M, M Belwin J. Brearley, “Current Control Strategy for Voltage Source Inverters Based on Micro Grids”, National Conference on Recent Trends in Electrical Technology, PP 13-17, March 2014
- S .Nivedhitha, Dr. K. Boopathy, “Performance Improvement in Photovoltaic Cell for Grid Connecting System using Power Converters with Negative Grounding Techniques”, Proceedings of 4<sup>th</sup> National Conference on Emerging Technologies in Electrical Engineering, PP 225-229, 19<sup>th</sup> April 2014

- Yazhini M, Sharmila harbeagam K, "Isolated Bidirectional DC/DC Converter For Plug – In-Hybrid Electric Vehicle Application", National Conference on Recent Trends in Power and Energy Engineering, PP 31-35, 10-11 April 2014
- S Dinesh, R Ramya, "Bi-Directional Converter For DG System", 4<sup>th</sup> National Conference on Advance Trends in Electrical Engineering, PP 34-41, 15<sup>th</sup> March 2014
- S Dinesh, R Ramya, "Bi-Directional Converter For DG System", 2nd National Conference on Recent Trends in Electrical, Electronics and Embedded Systems, PP20-25, 8<sup>th</sup> March 2014
- G Vadivel, V.Bharanigha, "Design Of Multi-Port Converter from Full Bridge DC-DC Converter for Renewable Energy Resources" First National Conference on Recent Advances in Science, Engineering and Technologies, PP63-67, 20-21 March 2014
- Kalirathinam, Thasneem Fasal, "Integrated Single Phase Inverter with an Auxiliary Step Up Circuit for Photovoltaic Sources", Proceeding in National Conference on Intelligent Power Electronics Technology, PP 52-57, 24<sup>th</sup> March 2014
- Kalirathinam, S.Prabhakar, "Ultra Capacitor Energy Storage System for Electrical Drives", Proceeding in 2<sup>nd</sup> National conference on Recent Trends in Electrical Electronics and Embedded systems, PP 26-31, 8<sup>th</sup> March 2014
- Kalirathinam, S.Prabhakar, "Ultra Capacitor Energy Storage System for Electrical Drives", 4<sup>th</sup> National Conference on Advance Trends in Electrical Engineering ,Gojan School Of Business And Technology, pp 50-58, 15<sup>th</sup> March 2014
- V.Bharanigha, H.Abdhus Sabour, "Snubberless Converter Design Using ZCS to Reduce Voltage Spike Problems", Proceeding of first National Conference on Recent Advances in Science, pp 1-4, March 2014
- I.Asraf Junaith, "Single Input Multiple Output DC-DC Converter for Fuel Cell Generation System", Proceeding in 4<sup>th</sup> National conference on Advance Trends in Electrical Engineering, pp 1-4, 15<sup>th</sup> March 2014
- I. Asraf Junaith, "Single Input Multiple Output DC-DC Converter For Fuel Cell Generation System", Proceeding in 2<sup>nd</sup> National Conference on Recent Trends in Electrical Electronics and Embedded Systems, pp 1-4, 8<sup>th</sup> March 2014
- K.Boopathy, M.Sankari, "Harmonic Reduction In Photo Voltaic Cell With Micro Inverters Using Decoupling Capacitor Techniques", Proceeding In 4<sup>th</sup> National Conference On Emerging Technologies In Electrical Engineering, PP 56-61, 19<sup>th</sup> April 2014
- R. Ramya, M.Balaji, "A Single Stage Micro Inverter Using MOSFET for the Conduction Loss Reduction", Proceeding In 2<sup>nd</sup> National Conference On Recent Trends In Electrical Electronics and Embedded Systems, 50-54, 8<sup>th</sup> March 2014.
- R. Ramya, M.Balaji, "A Single Stage Micro Inverter Using MOSFET for the Conduction Loss Reduction", Proceeding In 4<sup>th</sup> national conference on advance trends in electrical engineering, Gojan School of Business And Technology, PP 60-66, 15<sup>th</sup> March 2014



- M.Ramkumar ,L.Abinaya, “A Quasi Z-Source Dynamic Voltage Restorer”, Proceeding In National Conference on Intelligent Power Electronics Technology, PP 58-63, 24<sup>th</sup> March 2014
- Sharmila Har Beagam. K, Divya.G, “Bidirectional Soft Switching DC/DC Converter to Reduce Switching Losses”, Proceeding In National Conference on Recent Trends In Power And Energy Engineering, PP 1-4, 10 & 11 April 2014
- V.Aathithya, S.Suresh, “Using Distribution Power Flow Controller to Compensate unbalanced Current In Transmission Line”, Second National Conference on Methods Enriching Power and Energy Development, pp 55-63, March 26<sup>th</sup>,2014
- R.Abinaya, M.Abdullah Khan, “Improved Market Clearing and Congestion Management in Real Power Electricity Market”, TEQIP II sponsored National Conference on Issues in Power Quality & Renewable energy System – CIPRES’14, PP1-4, April 2014
- T. Elakkiya, R.Jayashree, Jennatthu Beevi, “Load Frequency Control In Power System Via Internal Model Control Scheme”, National conference on Emerging Trends and Innovation in Engineering & Technology, pp 1-4, 10<sup>th</sup> April 2014
- N.V. Inbarasu, A. Sultan Saleem, “Multi Objective Evolutionary Algorithm for Optimal Energy Consumption In Smart Grid”, National Conference on Power, Control & Instrumentation, PP1-4, 4<sup>th</sup> April 2014
- A.Jasima Begum, Y.Mohamed Shuaib, “Power Loss Minimization In Radial Distribution System by Optimal Capacitor Placement Using Firefly Algorithm”, Fourth National Conference on Technological Advancements in Power systems & Power Electronics Engineering, pp 1-4, 21<sup>st</sup> April,2014
- S.Kumaresh, S.Jennathu Beevi, “Modelling And Simulation Of Hybrid Generation And Its Effect On Transient Stability”, Methods Enriching Power and Energy Developments, PP1-4, March 26, 2014
- S.Mohamed Thariq, I.Mohamed Rafeequdin, “Wind Energy Conversion System Simulation using Variable Speed Induction Motor”, Technological Advancements in Power systems & Power Electronics Engineering, PP 1-4, 21<sup>st</sup> April,2014
- J.Poornima, S.Kavitha , “Contingency Constrained Economic Load Dispatch Using Artificial BEE Colony Algorithm for Security Enhancement”, Technological Advancements in Power systems & Power Electronics Engineering, PP 1-4, 21<sup>st</sup> April,2014
- P.Ramya, S.Suresh, “Improving Grid Power Quality using STATCOM in Wind Energy Conversion System with Harmonic Reduction”, Technological Advancements in Power systems & Power Electronics Engineering, PP 186-190, 21<sup>st</sup> April,2014
- S.Faazila Fathima, A. Sultan Saleem, “Modeling of DC Micro Grid”, Second National Conference on methods Enriching Power and Energy Developments, PP1-4, March 26 2014

## SPONSORED RESEARCH (ONGOING / APPLIED)

### Applied:

S. No.	Principal & Co-Principal Investigators	Funding Agencies	Project title	Amount (Rs.)	Status
01.	Dr. K. N. Srinivas, Prof./EEE  Mr. M. Ramkumar AP/EEE	DRDO	Electro Magnetic Simulation & Prototyping of Flux reversal machine	Rs. 27 Lakhs	Result Awaited

## SPECIAL RESEARCH LABORATORIES

- New Laboratory named “Industrial Automation & Drives” is created to conduct the Research Projects, PLC Lab for B.Tech. students and Drives lab for PG students.

## ACHIEVEMENT OF STAFF

- Research scholar Mrs. R. Anushya completed her Ph.D. work and her Public Viva Voce examination was held on 25<sup>th</sup> January 2014 at Sathyabama University.
- Research scholar Mr. A. Kalaimurugan completed his Ph.D. work and his Public Viva Voce examination was held on 25<sup>th</sup> April 2014 at Sathyabama University.
- Research Scholar Mr. Sundar Singh Jebaseelan completed his Ph.D. work and his Public Viva Voce Examination was held on 2<sup>nd</sup> August 2014 at Sathyabama University
- Dr. R. Raja Prabu, Chairman – NBA Working Committee submitted the Letter of Intent to National Board of Accreditation, New Delhi for the Accreditation of PG Engineering Programme(s) – Phase I & Phase II.
- In connection with the same, the Self Assessment Report for the following PG Engineering Programmes Phase I and Phase II were successfully submitted in the e-NBA portal of NBA Accreditation, New Delhi.

### **Phase I:**

- M.Tech. (Structural Engineering)
- M.Tech. (Manufacturing Engineering)
- M.Tech. (Power System Engineering)
- M.Tech. (Communication System)
- M.Tech. (Computer Science & Engineering)

### **Phase II:**

- M.Tech. (Construction Engg. & Project Management)
- M.Tech. (CAD / CAM)
- M.Tech. (Power Electronics & Drives)
- M.Tech. (VLSI & Embedded Systems)
- M.Tech. (Information Technology)

- Dr. K.N. Srinivas, completed the Sponsored Research Project title “3D Magnetic Field Sensor using Flux Gate Technology and Hall Effect Sensors”, worth Rs. 8.9 Lakhs under DRDO during 2014.
- Dr. K.N. Srinivas, delivered an Invited Lecture on “Special Electrical Machines” during June 2014 at Karpaga Vinayaga Institute of Technology.
- Dr. K.N. Srinivas, delivered an Invited Lecture on “Recent Trends in Switched Reluctance Motor” at Karunya University, Coimbatore on 12<sup>th</sup> September 2014
  
- Mr. Y. Mohamed Shuaib, submitted his Ph.D. thesis titled, “Analysis of Radial Distribution System for Loss minimization using Artificial Intelligence Techniques” for evaluation at JNTU, Hyderabad on 28<sup>th</sup> November 2014
- Mr. Y. Mohamed Shuaib, published two papers in refereed International Journals viz., Taylor & Francis and ELSEVIER in June & July 2014 respectively.
- Mr. Y. Mohamed Shuaib, delivered a Guest Lecture on “Power System Analysis”, at Tagore Engineering College on 21<sup>st</sup> March 2014
  
- Mr. M. Ramkumar, AP/EEE regenerated the Power Electronics Lab worth Rs. 15 Lakhs for the benefit of students admitted in M.Tech. (Power Electronics & Drives).
- A website “Joe’s Classroom – [www.athbeljoe.webs.com](http://www.athbeljoe.webs.com)”, was created by the Mr. C. Athbel Joe, to facilitate better academic interaction with the students. The website is used to update the technological developments in the field of electrical engineering, upload video lectures and other videos related to their subjects and provide web links to online resources relevant to the courses taught.

### ACHIEVEMENT OF STUDENT

- 2 M.Tech (PED) students, 6 M.Tech. (PSE) students and 15 B.Tech. students are placed in reputed companies such as CTS, WIPRO, INFOSYS, GODREJ, L&T Infotech etc., through On-Campus Placement.

### DEVELOPMENTAL ACTIVITIES

- A meeting of the School Level Advisory Committee was conducted on 22<sup>nd</sup> March 2014 (Saturday). The School Level Advisory Committee comprises of all the stake holders of our system including, Faculty, Students, Parents, Alumni and Employer.

#### **The scope of the committee is envisaged as follows:**

- To suggest measures to enhance the Teaching - Learning Process.
  - To recommend suitable modifications through which the Programme Educational Objectives and Programme Outcomes are met.
  - To support the school in identifying future directions
  - To suggest ways and means to enhance the quality aspects.
- Organized a industrial visit to NLC, Neyveli for sixth semester EEE students on 27<sup>th</sup> February 2014

- Organized two industrial visits for seventh semester EEE students to Thondamanatham Substation and system control centre Pondicherry on 28.2.2014 and to NLC Neyveli on 11.4.2014
- Organized “RFID for libraries - A LIVE demonstration of RFID solutions for automating institutional libraries” through M/s. Bridge People, Chennai .
- Initiated to enroll BSAU as “Partnering Institute” with “PAN IIT Alumni Leadership Series PALS 2014” at IIT Madras, Chennai and Rs. 2,50,000/- was paid as subscription Fee. In connection with the same, the Industrial visit, Guest Lecture(s) and visit to the Departments at IIT Madras are arranged for the benefit of students of BSAU.
- Dr. R. Raja Prabu, HOD/EEE along with Dr. V. Murugesan, Registrar attended *The Defence Research Forum 2014 at DRDO Bhavan, New Delhi* during 24<sup>th</sup> July 2014 and enrolled “BSAU” as one of the Forum Members.
- Organized a workshop on “Design, Modelling and Simulation using CST Studio Software”. Mr. Sharath Babu, Manager – Business Development, STEP Electronics Pvt. Ltd., Bangalore presented the lecture.
- Organized a Demo on “MiPower Software” on 17<sup>th</sup> September 2014.
- Dept. of EEE and EIE jointly organized a Guest Lecture on “Dynamic Matrix Inversion for Non Linear Control” on 6<sup>th</sup> November 2014. Dr. Radhakant Padhi, Professor, IISC Bangalore delivered the lecture.
- Organized a special lecture on 24.07.2014 in the topic “Distributed Generator Systems” by Dr. Chitti Babu, Post Doctoral Research fellow, Wroclaw University of Technology
- Organized a Seminar on “Recent trends in Electrical Drives and control” on 12<sup>th</sup> August 2014.
- A Guest Lecture on “GATE awareness” was given by Mr. Mark North, Deputy General Manager T.I.M.E on 19<sup>th</sup> October 2014
- Organized a guest lecture on the topic titled” Introduction to robotics world” by on 21<sup>st</sup> February 2014.

### INDUSTRIAL VISITS for the students of B.Tech. (EEE)



### ACHIEVEMENT OF STUDENT

- The Department of Electrical and Electronics Engineering thoroughly revised its curriculum and syllabi, with the support of industrial experts and academic experts to match with the industrial expectations. Accordingly, a course namely EE409 – Industrial

Internship for pre-final year students was introduced. The course on Industrial training is a mandatory requirement for our students for which each student will have to undertake an industrial training for a minimum period of 30 days in a premier industry in a single slot.

- 63 students of third year B.Tech. (EEE) attended internship training for 30 days in various companies such as ETA- Power project division, L & T, Tamil Nadu Petro Product, Neyveli Lignite Corporation, CLRI, Hyundai, FORD, ETA Engineering, Ashok Leyland-Ennore, Brakes India Limited, Bharat Heavy Electrical Limited, Wheel India Pvt. Ltd., Rane TRW Steering System, IP Rings etc. during the semester holidays in May 2014.

## **SOCIETY ACTIVITIES**

### **(i) SEEE Activities**

- The Academic Activities of the Society of Electrical and Electronic Engineers (SEEE) for the academic year 2014-15 was inaugurated on 18<sup>th</sup> August 2014.
- Mr. Hidayadullah A Sulaiman, Director (operations), Alcatel-Lucent, Chennai delivered a Guest Lecture on the topic “Current Educational System Approaches the outlook for the student in Industry” during the inaugural function.
- A Technical Seminar on “From Concept to Design” was given by Mr.S.Raghavan Iyer, Technical Head Trainer, CADD centre
- Technical events like Tech word Play, Young Parliament, Konstruct etc., were conducted by the students during that day. Many students participated in the events and won prizes.



### **(ii) CYGNUS 2015**

- One day National level Technical Symposium for students “CYGNUS 2015” is conducted on 29<sup>th</sup> January 2015.
- Mr. Girish Madhav, Specification Manager, Southern Region, M/s. Legrand India Pvt. Ltd., Chennai, headed the inaugural function and delivered a key note lecture on “Power Distribution & Energy Management”.
- More than 300 participants from all over the engineering colleges attend the symposium.
- Technical Events like Paper presentation, Project Presentation, Circuit Cracking, Techno X (Quiz), Robo Rally were conducted.
- A workshop on MATLAB conducted by the Students.
- A Workshop on ARUDINO software conducted by the students

## EXTENSION ACTIVITY CONDUCTED

- Dr. R. Raja Prabu, HOD/EEE is one of the members for the purchase, erection and commissioning of 150 kW<sub>p</sub> Solar Power Plant for the B.S. Abdur Rahman University Campus. In connection with the same 100 kW<sub>p</sub> solar power plant got erected in the campus.
- A NAAC Accreditation Committee, New Delhi, visited the department during the first week of April 2014 for Accreditation.
- Open House Exhibition for the benefit of School Students was conducted during 30-31 March 2014, 9-10 January 2015 in BSAU Campus and on 24-25 January 2015 at Madurai. The students both UG and PG projected their working models in the exhibition. The best project is also awarded.



## IMPORTANT VISITORS

- Dr. R. Sarathy, Professor, IIT Madras, Chennai and Dr. B. Raja Mohan, Professor, MIT, Anna University, visited the Department of EEE for Academic and Administrative Audit (AAA) from NAAC on 27<sup>th</sup> March 2014 and he suggested to improvise the recommendation of Sponsored Research from various funding agencies.
- Prof. Anil K. Bhatnagar, Prof. Moinuddin, Prof. Surekha Bhanot and Dr. M. Shyamsundar from National Assessment and Accreditation Council (NAAC) visited the Department of EEE for Accreditation Process during 8<sup>th</sup> April 2014. The team visited all the laboratories and library in the Department.
- Dr. Syed Islam, Prof/ Curtin University, Australia visited the Department of EEE during April 2014.
- Dr. Raji Sundararajan, Prof / Purdue University, USA and Dr. Kavitha, Senior Scientist, AUKBC visited the Department and had an discussion with Dr. R. Raja Prabu, HOD/EEE, regarding the Research on Cancer Treatment during May 2014



**DEPARTMENT OF  
ELECTRONICS & COMMUNICATION  
ENGINEERING**





## ELECTRONICS & COMMUNICATION ENGINEERING

### VALUE ADDED PROGRAMMES STARTED:

Name of the program: Certificate Program on VLSI Design.

Duration: One year

### TRAINING PROGRAMMES OFFERED:

S.No	Title of the Program	Type of Program	Date	No. of Participants		Major Resource Persons	Sponsoring Agency
				Int.	Ext.		
1	Short-Term Training in Embedded Systems and Designs	Training	30.06.2014 to 12.07.2014	16		ABE Semiconductor Designs, Chennai	BSAU

### CONF./FDP/WORKSHOPS CONDUCTED:

S.No	Title of the Program	Type of Program	Date	No. of Participants		Major Resource Persons	Sponsoring Agency
				Int.	Ext.		
1	Two days Workshop on NI LABVIEW	Workshop	6th and 7th August 2014	20		Resource Persons from NI	
2	Workshop on Antenna Design Using HFSS	Workshop	9.8.2014	19		Mr.R.Manikandan Research Scholar, BSAU	SECE
3	Image processing techniques with Matlab and application development	Seminar	2.9.2014	26		Mr.Sudharsan J Project Engineer Pantech ProEd Pvt Ltd Chennai	SECE
4	"Simulink-A Hawk eyed application for research"	Workshop	9.10.14 to 11.10.14	18	17	Mr.Atif Shah, Chairman ABE semiconductor designs	SECE, IETE, IE
5	Two days Workshop on NS2/NS3 Solutions for Various Research Problems in Wireless networks	Workshop	15 <sup>th</sup> to 16 <sup>th</sup> October 2014	4	26	Mr.Atif Shah, Chairman ABE semiconductor designs	SECE, IETE, IE

6	Three days training on NI-WSN Module	Training	22- 24 Dec 2014	15	-	Mr. Sriram, Ms. MohanaValli, M/s OptiThought(NI)	SECE, IETE, IE
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#### CONF./FDP/WORKSHOPS ATTENDED:

1. Ms.B.Siva Shanmughavalli has attended a FDP on soft skills organized by the faculty training academy of BSAU on 24/12/14.
2. Ms.A.Priya has attended a 3 days' workshop on "Advanced Antenna Technology" organized by SSN College of Engineering from 5/11/14 to 7/11/14.
3. Ms.G.Anuradha participated and presented a paper in 2 days National Conference on "Future Trends in Biomedical Engineering and Healthcare Technologies" organized by School of Biomedical Engineering IIT(BHU),Varanasi during 17/11/14 and 18/11/14.
4. Ms.B.Aruna Jeeva Bharathi has attended two days workshop on "LTE A" organized by department of Electronics Engineering,MIT campus fom 10/10/14 to 11/10/14.
5. Ms.Ayshathul Fouzia has participated in the 5 days hands on training course on Practical Electromagnetics for Modern Antennas,RF and Microwave Designs at Entuple Technologies Pvt ltd,Bangalore from 22/09/14 to 26/09/14.
6. Ms.M.Padmausha has attended 3 days training program on MATLAB, organized by Dhanalakshmi College of Engineering,Chennai from 18/09/14 to 20/09/14.
7. Ms.B.Sivashunmughavalli has attended 2 days symposium on Radio Frequency Antenna Applications and Measurements,Organized by SRM universityin association with IEEE EMC Madras Chapter from 25/08/14 to 26/08/14.
8. Ms.A.Ambika has participated in the two days Symposium on Radio Frequency Antenna applications and measurements",organized by,the Dept of Telecommunication Engineering, SRM university during 25<sup>th</sup> -26<sup>th</sup> August TESLA and RADMIC 2014.
9. Ms.Maya,Ms B.SivaShunmughavalli, and Ms.Sumathi attended two days workshop on "NI-Labview" organized by dept of ECE,BSAU on 6/08/14 and 7/08/14.
10. Ms.Parnasree Chakaraborty attended the short term training programme on "Recent Research Issues in WSN" organized by SRM University,Chennai during 04/08/14 and 08/08/14.
11. Ms.S.Anusooya attended 5 days hands on training course on "Analog Integrated Circuit Design using Cadence Analog Design Flow" at Entuple Technologies pvt ltd,Bangalore from 28/07/14 to 01/08/14.
12. Ms.K.Indra Gandhi and Ms.V.JeanShilpa attended three days National workshop on "GPU programming and applications(GPA2)" organized by IIT, Madras from 17/07/14 to 19/07/14.
13. Ms.S.Syed Rafi Ammal,Ms.Anitha and Mr.M.Selvakumar has attended "Induction training programme-2013" at BSAU,Chennai from 8/07/14 to 12/08/14.
14. Ms.K.Divya participated in a two week ISTE workshop on Pedagogy for Effective use of ICT in Engineering Education conducted by IIT Bombay from 12/06/14 to 02/08/14.
15. Dr.C.Tharini and Dr.B.Vijayalakshmi has participated in the "Academic Conclave" conducted by National Instruments in Chennai.

16. Ms.R.Anitha has participated a two days workshop on “Photonics and Photovoltaic Devices”organized by SRM university in association with Supreme Scientific Corporation and Edmund Optics, held during 13<sup>th</sup> -14<sup>th</sup> August 2014.
17. Mr.Hasan Babu.H and Mr.A.Ramesh Kumar has attended short term training programme on “Challenges in Space Technology” organized by SRM University,Chennai from 23/06/14 to 27/06/14.
18. Mr.Hasan Babu.H and Mr.A.Ramesh Kumar has attended short term training programme on “Labview Core 1& 2” organized by National Instruments Systems(India),Bangalore from 23/05/14 to 25/05/14 and 30/5/14 to 31/5/14.
19. Ms.K.Indra Gandhi and Ms.V.Jean Shilpa attended two days workshop on “Embedded Systems and Industrial Applications” organized by the department of ECE ,SSN college of Engineering from 4/04/14 to 5/04/14.
20. Ms.S.Kalaivani & Ms.R.Mahalakshmi attended a one day workshop on “Introduction to lab view programming and Data acquisition systems” organized by School of Electrical Engineering at VIT,Chennai on 21/3/2014.
21. Ms.K.Indra Gandhi and Ms.V.Jean Shilpa attended a one day workshop on “Multi threaded and Parallel Programming” by School of Computer science & Engineering,VIT, Chennai on 14.02.14.
22. Ms.S.Anusooya attended a one day workshop on “Low power Design Methodologies – Devices to Systems” by School of Electronics Engineering, VIT, Chennai on 7.02.14.
23. Ms.R.Anitha attended a two days workshop on “Recent Trends in Network Simulation Tool(NS2)”organized by the Department of Information Technology at Saveetha Engineering College on 30/1/14 & 31/1/14.
24. Ms.A.Ayshathul Fouzia & Ms.Latha Maheswari attended “TEQIP sponsored National Workshop on Emerging Antenna Technologies”-(NWEAT-2014) organized by Department of ECE, Thyagarajar college of Engineering, held on 10/1/14 & 11/01/14.
25. Ms.K.Divya attended a two day workshop on “Optical Communication & Network design using Optsim and Metrowand(OCND)” organized by Department of ECE,BSAU in association with Supreme Scientific Corporation & Student chapters of SECE,IE(I),IETE held on 22/1/14 & 23/1/14.
26. Mr.SadishPrabhu attended a two days workshop on “Microstrip Patch Antenna Design using IE3D” organized by ECE dept,BSAU on 8<sup>th</sup>&9<sup>th</sup>January 2014.

#### **PAPERS PUBLISHED:**

	<b>National Conference</b>	<b>International Conference</b>	<b>Journals</b>	<b>Scopus Indexed Journals</b>
No. of Publications	14	18	21	3

#### **DETAILS OF PUBLICATION:**

##### **National Conference:**

1. Chenna Kesavan.P, Kaja mohideen.S “Design of High Speed and Area Efficient Modified Carry Select Adder” National Conference on Innovation in Computing and

Communication Technology Kongunadu College of Engineering and Technology, Trichy, 21/3/14.

2. Gauthama Raman M.R., KajaMohideen.S “Modified Modular Exponentiation for a Faster Implementation of RSA Algorithm on FPGA” National Conference on Innovation in Computing and Communication Technology Kongunadu College of Engineering and Technology, Trichy 21/3/14.
3. George Levi. D, Selva Kumar M. “Salt and Pepper Noise Removal in Digital Images Using Modified Decision Based Filter” 2nd National Conference on Innovation in Computing and Communication Technology (NCICCT’14) Kongunadu college of Engineering & Technology Namakal, 21st March 2014.
4. Krishnaveni.S, Bibin Sam Paul. S “2 GHz – 2.5 GHz VCO Design Using Current Mode Logic” National Conference on Recent Trends in VLSI Information and Communication (NCRVIC 2014) B.S.Abdur Rahman University, Vandalur 26.03.2014.
5. S. Mani, S. Kalaivani “FPGA Implementation of Sequential Circuits Using Multi-Bit Flip-Flops” National Conference on Innovation in Computing and Communication Technology Kongunadu College of Engineering and Technology, Trichy 21/3/14.
6. Mohan Raj. S, Anand. J “Image Acquisition System based on ARM and Android OS” National Conference on Innovation in Computing and Communication Technology-2014 NCICCT-2014 Kongunadu Engineering College, Trichy. 21-03-2014.
7. Parthiban.V, Syed Raffiammal “Implementation of Elliptic Curve Scalar Multiplier on FPGA”, 2nd National Conference on Innovation in Computing and Communication Technology Kongunadu College of Engineering and Technology, Trichy March 21st, 2014.
8. Poornima. R, Kannan. G, “Model Based Real Time Control System for Transfer Arm Examination Facility in PFBR”, in the National Conference on Emerging Trends in Electronics, Instrumentation and Control (ETEIC-2014),Valliammai Engineering College, Chennai on 3rd May 2014.
9. D. Prasanna, Mohammed Ismail.M, “Enhanced Security System Using an Embedded Real Time Finger Vein Detection” 2<sup>nd</sup> National Conference on Recent Trends in Electrical Electronics and Embedded System (RTEEE-2014),GKM College of Engineering 8th March 2014.
10. Priyadharshini.K, Indira Gandhi.K, “An Efficient 4-Parallel Radix- 2<sup>2</sup> Feedforward FFT Architecture” 2<sup>nd</sup> National Conference on Recent Trends in Electrical Electronics and Embedded System (RTEEE-2014),GKM College of Engineering 8th March 2014.
11. Riyas T M and Mrs. Anusooya, “Design Of Low Power Multiband CMOS Gm-C Filter For Wireless Receivers”. National Conference on Recent Trends in VLSI Information and Communication (NCRVIC 2014) B.S.Abdur Rahman University, Vandalur 26.03.2014.
12. Shahir. P and Ms.V.Jean Shilpa, “A 40.0 GS/s Time Interleaved 6 Bit Flash ADC for 40GbE Applications”. National Conference on Recent Trends in VLSI Information and Communication (NCRVIC 2014) B.S.Abdur Rahman University, Vandalur 26.03.2014.
13. Shyamala.M, Bibin Sam Paul.S “Design & Development of Remote Terminal Unit (RTU) for Sodium Leak Detection in Fast Breeder Reactor (FBR)” Recent Trends in VLSI, Information and Communication – NCRVIC 2014 B. S. Abdur Rahman University, Vandalur, Chennai 26/03/2014.

14. Shyamala.S, Anand .J, 'Design of Low Power Radar Level Sensor with Improved Accuracy Rate for Sodium Level Detection in FBR' in the National Conference on Emerging Trends In Electronics, Instrumentation and Control (ETEIC) at Valliammai Engineering College, Chennai, on 3rd May 2014.

#### **International Conference:**

1. George Levi. D, Selva Kumar M. "Advanced VLSI Architecture for Fixed and Random Valued Impulse Noise Removal in Images using MDBDM." International Conference on Advances in Computer Science and Information Technology (ACSIT 2k14) Vels University, Chennai 28,29th March 2014.
2. Mani. S, Kalaivani.S "FPGA Implementation of Sequential Circuits Using Multi-Bit Flip-Flops" International Conference on Electrical, Communication and Computing, Tagore Engineering College, Chennai 14/3/14.
3. Manoj Praveen. M, Kannan.G "Low Power Node Design for Wireless Sensor Networks", International Conference on Recent Trends in Engineering and Technology -ISBN No. 978-93-5137-551-7,Mount Zion College of Engineering and Technology, Pudukkottai 14th March 2014.
4. Mohammed Asik Ali.U, Anitha.R "WSN Implementation for Location Monitoring Application", International Conference on Recent Trends in Engineering and Technology- ISBN No. 978-93-5137-551-7, Mount Zion College of Engineering and Technology, Pudukkottai 14th March 2014.
5. Mohan Raj. S, Anand. J "Design and Development of Image Acquisition System based on ARM and Android OS", International Conference on Recent Trend in Engineering and Technology-2014 ICRET2014, Mount Zion Engineering College, Pudukkottai 14-03-2014.
6. Parthiban. M. S, Jean Shilpa. V "Design and Development of Embedded Web Server using Android OS on AM3517" International Conference on Emerging Technology- 2014 ICET-2014 Paavai Engineering College 02-03-2014.
7. Salomi Priyadharshini. T Anuradha. G "A Reconfigurable Demapper for a Downlink Baseband Receiver" International Conference on Science and Innovative Engineering JAWAHAR ENGINEERING COLLEGE 5 &6th April 2014.
8. Sujatha. k Nagaraj. R Mohammed Ismail. M "Real Time Supervisory Control for Hybrid Power System" IEEE- International Conference on Green Computing, Communication and Conservation of Energy (ICGCE 2013) R.M.D Engineering College Thiruvallur DEC 12-14, 2013 .
9. M.Mohamed Ismail and Mrs.R.Mahalakshmi "Medical/satellite image compression using multi wavelet extended with Huffman coding", International conference on advances in computer science and information technology (ACSIT14), Vels University, March 2014.
10. M.Swarna Lakshmi and Dr.C.Tharini "Oos Aware clustering Algorithm for Wireless sensor Networks", International conference on Advance Research in engineering and Technology, ARM College of engineering and technology, 18<sup>th</sup> – 19<sup>th</sup> April 2014.
11. Saranya K and Ms.C.Ancy Gloria, "Real time license plate recognition for toll payment system", International conference on Futuristic Trends in Electronics Engineering, Thiruvalluvar college of engineering and technology, 1<sup>st</sup> and 2<sup>nd</sup> March 2014.

12. S.Abirama Sundari and Mr. R.Iniyavan "Recognition of changes in SAR images using modified MRF energy function in FCM", International Conference on Advance Research in Engineering and Technology, ARM college of engineering and Technology, Chennai, 18<sup>th</sup> -19<sup>th</sup> April 2014.
13. Noorullah Khan F and Mr. A. Ramesh Kumar, "MIMO strategies for block based decode and forward relayinf scheme for 4G mobile communication systems", International conference on Futuristic Trends in Electronics Engineering, Thiruvalluvar college of engineering and technology, 1<sup>st</sup> and 2<sup>nd</sup> March 2014.
14. Mallika T and Mr.S.Sadhish Prabhu, "Design and simulation of E – Shape Microstrip patch antenna using RT duroid as substrate"International Conference on Advance Research in Engineering and Technology, ARM college of engineering and Technology, Chennai, 18<sup>th</sup> -19<sup>th</sup> April 2014.
15. N.Lakshmpriya and Mr.S.Sadhish Prabhu, "Design and fabrication of planar coupled FED monopole antenna with 2G, 3G and 4G, for mobile handset application" International Conference on Advance Research in Engineering and Technology, ARM college of engineering and Technology, Chennai, 18<sup>th</sup> -19<sup>th</sup> April 2014.
16. M.Muruganantham and Mr.H.Hasan Babu, "Packet hidind method for preventing selective jamming attacks" International conference on Futuristic Trends in Electronics Engineering, Thiruvalluvar college of engineering and technology, 1<sup>st</sup> and 2<sup>nd</sup> March 2014.
17. M.Ramalekshmi Ammal and Ms.A.Ambika, "Miniaturized fractal rat-race bandpass filter",3<sup>rd</sup> IEEE International conference on "Communication Signal Processing", Adhi Parasakthi Engineering College, 3<sup>rd</sup>,4<sup>th</sup>, and 5<sup>th</sup> April 2014.
18. M.Lakshmi and Ms.A.Ambika, "Circularly Polarised Titled beam Monopole Antenna",3<sup>rd</sup> IEEE International conference on "Communication Signal Processing", Adhi Parasakthi Engineering College, 3<sup>rd</sup>,4<sup>th</sup>, and 5<sup>th</sup> April 2014.

### Journals:

1. S.M. Abdul Rafeeq, K.Indra Gandhi "Design and Implementation of Elegant Vehicle Control System Based on ARM Platform", Journal of Science and Innovative Engineering and Technology (JSIET), 05-04-2014.
2. Bini.D, Janani.J, Nandhini.J, Anusooya.S "Embedded Programmable System on Chip (PSoC) High Resolution Digital Voltmeter" International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE) Vol. 3, Issue 2, Pg no. 7421-7425, February 2014.
3. Chenna Kesavan.P, Kaja mohideen.S, "Design and Implementation of High Performance Multiplier Using Modified Adder" International Journal of Electronic Communications Engineering Advanced Research (IJECEAR Vol.2, ISSUE 2, Feb.2014, ISSN: 2347- 9329) Eluru, Andhra Pradesh Feb/2014
4. S.Ezhilarasan, Jawahar.P.K, "Energy efficient Turbo Decoder for Wireless Sensor Networks" International Journal of Electronic Communications Engineering Advanced Research (IJECEAR Vol.2, ISSUE 2, Feb.2014, ISSN: 2347- 9329) Elluru , Andhra Pradesh Feb ,2014.

5. Gauthama Raman M.R., KajaMohideen.S "A Cryptographic Design for a Secured Communication using FPGA" International Journal of Electronic Communications Engineering Advanced Research (IJECEAR Vol.2, ISSUE 2, Feb.2014, ISSN: 2347-9329) Feb/2014.
6. Indhumathi. G, Senthil Rajan.V "Frequency Range Extension of LC-VCO in 0.18 $\mu$ m CMOS Technology" IJETCSE/ICET2014 Paavai Engineering college, Namakkal 02/03/2014.
7. Krishnaveni.S Bibin Sam Paul. S "Design of VCO Using Current Mode Logic with Low Supply Sensitivity", International Journal of Research in Engineering and Technology (IJRET), February 2014-Vol 03.
8. Mani. S, Kalaivani.S "FPGA Implementation of Sequential Circuits Using Multi-Bit Flip-Flops" International Journal of Electronic Communications Engineering Advanced Research (IJECEAR Vol.2, ISSUE 2, Feb.2014, ISSN: 2347- 9329) Eluru, Andhra Pradesh Feb/2014.
9. Mohammed Shinas P, Jawahar .P .K, "Low Power UWB Mixer for Transceiver" International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering Chennai Volume 3, Issue 3, March 2014.
10. Riyas T M and Anusooya S, "Design of Low Power Linear Multiband CMOS Gm-C Filter" International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Volume 3, Issue 2, February 2014.
11. Selvaraj.S, Senthil Rajan.V "Design of CMOS Power Amplifier for UWB Transceivers" International Journal of Electronic Communications Engineering Advanced Research (IJECEAR Vol.2, ISSUE 2, Feb.2014, ISSN: 2347- 9329) Eluru, Andhra Pradesh Feb/2014.
12. Shahir. P , Jean Shilpa . V "A 40.0 GS/s Tome Interleaved 6 Bit Flash ADC for 40GbE Applications". International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Volume 3, Issue 2, February 2014.
13. Thavasipitchiahraja .S, Kavitha .V, "Video Compression Using Lifting Based DWT Algorithm and Implementation on FPGA ". International Journal of Electronic Communications Engineering Advanced Research (IJECEAR) Vol. 2, ISSUE 2, Feb. 2014 ISSN: 2347-9329(Online).
14. Thavasi pitchiah Raja,S, "FPGA implementation of video compression using Lifting Based DWT Algorithm".3rd International Conference on Futuristic Trends in Electronics Engineering (ICFTEE).2<sup>nd</sup> March 2014.
15. Vinoth Ram. A, Bibin Sam Paul. S "A 1.8v 3.6-6.2 GHz Low Noise Amplifier in 0.18 $\mu$ m CMOS for UWB Application" International Journal on Electronics and Communication Engineering Advanced Research (IJECEAR) Hotel Grand Arya 21-02-2014.
16. Subitha Priyadarshini.D and Ms.P.Maya, "Development and calibrating features for digitally forged image authentication", International Journal of Science and Research(IJSR), Vol 3,Issue 2, February 2014.
17. Shamneed.M and Ms.P.Maya, "Enhanced audio steganography using cryptography and randomized LSB algorithm", International Journal of Engineering Research and Technology(IJERT) Vol 3, Issue 3, March 2014.

18. S.Reena Mercy and Ms, Parnasree Chakraborty, "Development of Robotic vision algorithm for medical application", International organization of scientific research community of researcher(IOSR), Vol 9, Issue 1, January 2014.
19. S.Abirama Sundari and Mr. R.Iniyavan "Recognition of changes in SAR images using modified MRF energy function in FCM", International Journal of Engineering Research and Technology, Vol 3, Issue 3, March 2014.
20. G.S.Annie Grace Vimala & S.Kajamohideen," Detection Of Diabetic Maculopathy In Human Retinal Images Using MorphologicalOperations", Journal of Biological Sciences,pg: 172-178, July 2014.
21. G Kannan, T Sree Renga Raja, "Power Saving Algorithm for Long Life Wireless Sensor Networks", International Journal of Innovative Research in Technology, vol:1, Issue:4, pg: 50-53, Sep 2014.
22. V.Jean Shilpa & Dr.P.K.Jawahar, "Implementation of Multi-threading on Hybrid ARM Cortex Dual Core A9-FPGA architecture for Energy Efficiency", Indian Journal of Science and Technology, vol: 7, Issue:12, Dec 2014.

#### **Scopus Indexed Journal publication:**

1. S.Muthu Kumar,P.K.Jawahar, "Cache Replacement for Multi-Threaded Applications Using Context Based Data Pattern Exploitation Technique", Malaysian Journal of Computer Science, 06/2013; 26(26(4)):277-293.(IF:0.5)
2. G.S.Annie Grace Vimala & S.Kaja mohideen, "Diagnosis of Diabetic Retinopathy by Extracting Blood Vessels and Exudates using Retinal Color Fundus Images", Wseas Transactions On Biology And Biomedicine,Vol:11, 20-28,2014. (IF: 0.419)
3. V. Thyagarajan & S.Kaja Mohideen," GPS Jamming: Strengthening Anti Jam GPS System with Adaptive Phase Only Nulling Using Cuckoo Search", Research Journal of Applied Sciences, Engineering and Technology, Pg: 679-686, August 2014 (IF: 0.454)
4. R.Manikandan & Jawahar.P.K, "Quad Band Planar Inverted F Antenna for smart phone ", Applied Mechanics and Materials, pg: 394-399, August 2014 (IF: 0.196)

#### **ACHIEVEMENTS OF STAFF: -**

- Dr.M.Mohd.Ismail, Associate Professor/ECE was awarded "Ph.D" by JNTU,Hyderabad during April,2014. He was promoted as Professor in Dept.of ECE.
- Dr.G.Kannan, Assistant Professor/ECE was awarded "Ph.D" by Anna University, Trichy during October, 2014.

#### **ACHIEVEMENTS OF STUDENTS:**

S.NO.	Name of the student	Details of participation in events
1	Sriranjani.G	Presented a paper in "CHARGE'14" of Hindustan university on march'14
	Vigeernia Theresa.P.K. Srinivasan.P Vishvam.V	Presented a paper in "SPARCADEUS'14" at Dhanalakshmi srinivasan college of engg. on February '14
2.	Sriranjani.G	Presented a paper in "SPARCADEUS'14" and win first place at Dhanalakshmi srinivasan college of engg. on February '14



### Details of Student Participated in Sports

- Mr. M. Palaniappan, II ECE won I prize in 4X100m Relay, II prize in Triple Jump and III prize in Long Jump in Annual Sports.
- Mr. M. Palaniappan, II ECE won III prize in Triple Jump in the Tamilnadu State Inter Deemed University Athletic meet at Alagappa University on 15.02.2014.
- Ms. G. Asha Jyothi and Ms. Deepika R, PG Students won 4 th place in All india Inter Collegiate Ball Badminton Tournament organized by Newgen Ball Badminton Club, Mylapore, Chennai.
- Ms. G. Asha Jyothi won 3<sup>rd</sup> place in Founder's Birthday Ball Badminton Tournament conducted by SRM University during August 2014.
- Ms. G. Asha Jyothi has participated in 29<sup>th</sup> Andra State senior Inter District Ball Badminton Championship at Kurnool Dt, during Nov 2014.
- Ms. G. Asha Jyothi and Ms. Deepika R has Secured Third place in the All India Interuniversity Ball Badminton Tournament (Women) held at B.S.Abdur Rahman University.
- Ms. G. Asha Jyothi has Secured Third place in the 3<sup>RD</sup> Federation Cup Ball Badminton Championship for Men and Women held at Nellore, Andhra Pradesh.
- Ms. G. Asha Jyothi has Secured Third place in the 60<sup>TH</sup> Senior National Ball Badminton Championship for Men and Women held at Vijayawada, Andhra Pradesh.
- Ms. G. Asha Jyothi has achieved Star of India award in the 60<sup>TH</sup> Senior National Ball Badminton Championship for Men and Women held at Vijayawada, Andhra Pradesh.
- Ms. G. Asha Jyothi has achieved Best Player award in the All India Interuniversity Ball Badminton Tournament (Women) held at B.S.Abdur Rahman University.

### Details of Student participated in Events

S.No.	Name of the Students	Details of Achievement Made
1	Akeel Sulthan	Participated in "BAJA SAEINDIA 2014", organized by SAEINDIA
		Participated in "DYNAMICS OF INTERNATIONAL GO-KART CHAMPIONSHIP" held at Lovely professional university.
		Participated in "VIRTUAL INTERNATIONAL GO-KART CHAMPIONSHIP" held at Lovely professional university.
2.	S.Shiran Kumar	Participated in "RANAV14" and win third prize in code debugging held at BSAU.
3.	K. Velmurugan	Participated in "RANAV14" and win third prize in code debugging held at BSAU.
4.	S. Subramaniam	Participated in "SPARCADEUS-2K14" at Dhanalakshmi srinivasan college of engg. on February '14

5.	Vigeernia Theresa Vishvam.V Srinivasan.P Sriranjani	Participated in "ECE GOT TALENT" at BSAU on february'14
6.	Ameer Khan Anish Kumar	Participated in "INFINITY" and won the first prize in Fun fiesta event and Math rider event at BSAU on february'14
		Participated in "INFINITY" and won the second prize in Bang on target event at BSAU on February'14
		Participated in photography of "CHARGE'14" at Hindustan university on march'14
9	Vishvam.V	Participated in surveillance quadcopter event of "PRAGYAN'14" at NIT
10	Ahilan.T	Participated in blue bot event of "KURUSHETRA'14" at College of Engineering.
		Participated in "IIT MADRAS PARLIAMENTARY DEBATE 2012" held at IIT madras.
11	Sidhaanth K.D	Participated and won first prize in "DEBATING CHAMPIONSHIP" event held at Ethiraj college
		Participated and won second prize in "SHIPWRECK" event held at SSN college of engineering.
		Participated and won second prize in "SSN DEBATES" event held at SSN college of engineering.
		Participated and won first prize in "POT PURI" event held at SSN college of engineering.
		Participated and won first prize in "JAM" event held at SSN college of engineering.
		Participated and won first prize in "SHIPWRECK" event held at IIT Madras
		Participated and won second prize in "ELOCUTION" event held at IIT Madras
		Participated and won second prize in "YOUNG REPORTERS" event held at IIT Madras
		Participated and won second prize in "LITRAPTURE" event held at BSAU.
		Participated and won first prize in "SHIPWRECK" event held at MCC
		Participated and won first prize in "JAM" event held at MCC
Participated and won first prize in "DEBATE ENGLISH" event held at MCC		
Participated and won second prize in "POT POURRI" event held at MCC.		

#### DEVELOPMENTAL ACTIVITIES:

A design and fabrication lab is established to enable the faculty members and students to carryout advanced research, consultancy and funded projects.

## INDUSTRY/INSTITUTE COLLABORATION:

S. no	Place visited	Date of visit	No. Of students visited	Year/sec	Staff accompanied
1.	Satish Dhawan Space Centre SHAR, Sriharikota	24.07.14	62	III year B.Tech. A section	3
2.	BSNL, Meenambakkam.	16.10.14	15	I year M.Tech – (COS)	1
3.	HF Transmitter and RADAR Section, AAI	01.12.14	15	I year M.Tech – (COS)	3

1. M.Tech Communication Systems students are actively engaged in Industry aligned project work in association with SAMEER-CEM, BSNL,IGCAR etc.
2. ENIXS technologies Ltd, Chennai distributors of Altera products conducts workshop on VLSI design using Altera tools every year for students and research scholars.
3. The following resource persons from Industry
  - i. Mr.Prasanna, Regional Manager, Trident Techlabs,Bangalore
  - ii. Mr.Arul Prakash, Product Engineer,Supreme Scientific Corporation
  - iii. Mr. Mohammed Ashraf Khan, Chief General Manager,Tamilnadu, Telecom circle, BSNL
  - iv. Cadence Design Solutions, Bangalore
  - v. Embedded System Solutions, Bangalore
  - vi. Entuple Technologies, Bangalore
  - vii. Mr. V. Venkatesan, DGM, BSNL
  - viii. Enixs Technologies, Trichy
  - ix. Mr.Raghu Ram, Technical Manager, CAD Center, Chennai
  - x. Dr.K.M.Sivakholundu, Project Director, NIOT,Chennai
  - xi. Mr.Gurjeet Singh, Director, Gill Instruments, Bangalore
  - xii. CoreEL Technologies, Bangalore.

## SOCIETY ACTIVITIES:

Society of Electronics & Communication Engineering along with IETE and IE organized workshops and training programs for the benefit of students and faculty members. The details are mentioned in 5 (Workshops/FDP/Training Conducted).

## MOUs SIGNED:

Our University has signed MoU with M/s. ABE Semiconductor Designs, Chennai on 06<sup>th</sup> January, 2014. Mr.Athif Shah, Managing Director and our Registrar Dr.V.Murugesan signed the MoU for five years. As per the MoU, the company will support the university in conducting seminars, workshops, short term and long term courses on Embedded Systems. The company

will support our faculty for research and development activities, submission of funded projects, guiding projects on Embedded systems.

The following workshops were conducted by ABE Semiconductor Designs, Chennai

S.No	Name of the programme	Dates	No.of Participants
1.	Short term training on " Embedded Systems and Design"	30 <sup>th</sup> June 2014 to 12 <sup>th</sup> July 2014	16
2.	"Simulink – A Hawk eyed Application for research"	09 <sup>th</sup> October 2014 to 11 <sup>th</sup> October 2014	35
3.	2 Days workshop on NS2/NS3 solutions for Various research problems in Wireless networks	15 <sup>th</sup> & 16 <sup>th</sup> October 2014	30

In addition to the above, the company is guiding 6 of our II M.Tech(VLSI & Embedded Systems) students on Embedded Systems.

#### **EXTENSION ACTIVITY CONDUCTED:**

- Texas Instruments University Level contest titled, "TI Analog Makers Contest 2014" was conducted on 17<sup>th</sup> October 2014 in our university. Around 220 students were registered for the contest and 125 participated in it. The top 5 students have been selected and got prizes as TI ez430 Chronos development tool embedded Watch.
- Students of ECE participating in NSS activities regularly.

#### **ANY OTHER INFORMATION:**

##### **Special Lectures:**

1. "A guide to current education and industry trends in VLSI" by Mr.Devarajan Ragunathan Product Test Engineer Microchip Technology Inc Chandler AZ-USA on 21.07.14
2. "Mathematical modeling of wireless communication systems" by Dr.M.D Selvaraj , IIITDM Kancheepuram on 8.8.14
3. "Application of Microprocessor" by Prof.Govindarajalu Retd.Prof.SVCE on 13.8.14
4. "FinFET Circuit Scope" by Dr.R.Srinivasan, Prof, SSN College of Engineering Chennai on 28.8.14
5. "Image Processing Techniques with Matlab" by Mr.Sudharsan.J Project Engineer, Pantech Pro Ed Pvt Ltd Chennai on 2.9.14
6. "Industrial HMI an alternative" by Mr.Mohideen Director, Denvick Technology Chennai on 11.9.14
7. "Future trends in telecommunication" Mr.S.Venkata Subramanian, Sub Divisional Engineer, Regional Training Telecom Center, BSNL, Maraimalai Nagar. On 17.9.14
8. "Digital Image processing and its industrial applications" by Mr.Subash Kumar Project Leader IN DSP Software Algorithm Development, Jasmin Infotech , Pvt Ltd, Chennai on 13.10.14

9. "Neural N/W application to colour prediction" by Dr.Malathy Jawahar, Scientist, CLRI Adyar on 31.10.14

### Information on Department

- ARM Corporation, UK has donated 10 Freescale Freedom KL25Z kits with software and 10 Nos. of STMB2F4 discovery kits with Audio board worth Rs.2 Lakhs for the development of Embedded systems lab.
- 15 students (5 teams) are selected to participate in the National level Freescale Intelligent Car Racing Competition to be conducted at IISc, Bangalore during April 2015. Freescale Semiconductors, UK has donated 3 car kits worth Rs. 60,000/- to practice and participate in the competition.





**DEPARTMENT OF  
ELECTRONICS & INSTRUMENTATION  
ENGINEERING**





# ELECTRONICS AND INSTRUMENTATION ENGINEERING

## NEW PROGRAMMES STARTED:

## VALUE ADDED PROGRAMMES STARTED

- The Certificate / Diploma Programme on “Industrial automation” was started on 28.10.14.

## TRAINING PROGRAMMES OFFERED

- Organized a Siemen PLC training on 22.07.14 for final year EIE students. Mr.Mohammed Easa Senior Engineer and Mr.P.Ganesh Engineer from Micromech training Instruments trained the students in Siemens PLC.
- Organized training programme on “Allen Bradley PLC” during 3<sup>rd</sup> week of August 2014. Mr. M.D.Rasool Alumni of EIE department B.S Abdur Rahman University and Junior Engineer, Invensys Pvt. Ltd. Chennai were the resource person.
- Three days hands on training programme on “Pick and Place Robotic Arm” conducted by Mr. Balaji from M/s. AEROBOTIX, Chennai for II year and III year students during 18.9.14 to 20.9.14.



## CONFERENCES / FDPs / SEMINARS / WORKSHOPS CONDUCTED BY THE DEPARTMENTS

- A workshop on “Control Valves” was conducted for non-teaching staff members of EEE, ECE and EIE department on 29.12.2014. Mr. S. Shahul Hamid, Visiting Professor was the resource person.
- A one day workshop on Basic concepts of Control Systems using Matlab Labview was conducted on 6.9.14 for the benefit of III year students
- Organized a demo on “Quanser Instrumentation & Control products particularly on QUBE to PG student was conducted on 15.07.14. Mr.Joshoa, Engineer, Mr.Selva kumar Engineer from Jai murugan Edu Tech Pvt.Ltd were the resource persons.
- Mr. Vishnuvaradhan, Director, Trend Automation gave a demonstration on ‘Level control using PLC’ on 28.7.14.
- A seminar was arranged on 7.1.15 on PRODOK Software for the benefit of I year & II year PG students. Mr. S. Harihara Suthan, Manager, Tech Support, CADTech was the resource person.



- A workshop on “Patient Monitoring Instruments” was organized for the benefit of the IV year and II year students on 25.2.15. Mr. Sivakumar, Hospitec Medical System was the resource person.
- A workshop was organised for the II year UG students of EIE department on 25th and 26th February 2015 on 3D google sketch-up for construction of Industrial Instruments.



- Organised a Technical demonstration on the 3D models of various Industrial Instruments such as Differential Pressure Transmitter, Piezo electric Accelerometer, Strain Gauge Load Cell, Viscometer, Hydraulic load cell constructed by the II year students on 5th March 2015 in process control Lab, Department of Electronics and Instrumentation Engineering.



- A training program on “Honing Interview Skills” for benefit of III yr EIE students was organized on 19.3.15. Mrs. D. Mehernissa, HOD / Career development centre, SRM University, Ramapuram Campus, Chennai - 89 was the resource person.



- Trend Automation Workshop gave a demonstration on ‘Level control using PLC’ on 28.7.14. Mr. Vishnuvaradhan, Director, Trend Automation was the resource person.



### CONFERENCES / FDP / SEMINARS / WORKSHOPS ATTENDED

Sl. No.	Name & Designation	Title of the program	Organized by	Date
1.	Ms.M.P.Nageswari, AP/EIE Mr. N.Sivaramakrishnan, AP/EIE	A course on “Design of Control System”	Department of Avionics, Indian Institute of Space Research, Tiruvandrum	16.12.14 to 20.12.14.
2.	Dr.U.Sabura banu, Prof./EIE Ms. Murshitaha Shajahan, AP(S.G) Ms.P.R.Hemavathy, AP(S.G)/EIE Ms.P.Anbumalar AP/EIE	A course in ‘Process Control’	Indian Institute of Technology, Madras	15.12.14 to 19.12.14
3.	Dr.U.Sabura banu, Prof/EIE,	Workshop on “Industrial Applications of Advanced	Automatic control and Dynamics Optimization	17.10.14 &

	Mr. N.Sivaramakrishnan, AP/EIE, Mr. S.K. Lakshmana Prabu, JRF/EIE	Control and Estimation”	Society(ACDOS) at IISc banaglore	18.10.14
4.	Ms. Murshitaha Shajahan, AP(S.G)	Seminar on Next Generation Digital Energy Conclave	National Instruments, in association with ICTACT, Chennai	20.08.14
5.	Ms. G. Anidha, AP (S.G)	Workshop on MATLAB and Simulink Academic Tour 2014	MathWorks Events Team, Chennai	20.08.14
6.	Ms. B. Pushpa, AP/EIE Dr. D. Najumnissa Jamal, Prof. &HOD/EIE	International Conference on Informatics, Electronics & Vision (ICIEV '14)	University of Dhaka, Bangladesh	23.5.14 & 24.5.14
7.	Dr. U. Sabura Banu, Prof./EIE Ms. G. ANIDHA, AP(S.G)/EIE	International Conference on Applied Research on Engineering (iCARE'14) , in association with ELESVIER	Sri Laxmi Ammal Engineering college , Chennai	23.5.14 & 24.5.14
8.	Dr. U. Sabura Banu, Prof./EIE	International Conference on Emerging Trends in Electronics, Instrumentation and Control (EtEIC '14)	Valliammai Engineering College	3.5.14
9.	Ms. B. Pushpa, AP/EIE	National conference on 'Recent trends in Instrumentation Control and Automation (NCRTICA 2014)	Sri Sairam Engg.College, Chennai	24.3.14
10.	Dr. D. Najumnissa Jamal, Prof. & HOD/EIE	Symposium on Gender, ICT and Education	ICT Academy of Tamil Nadu	28.11.14
11.	Dr. D. Najumnissa Jamal, Prof. & HOD/EIE	UK-India workshop on "Affordable Medical Technologies"	British High Commission, Chennai	11.2.15
12.	Dr. U. Sabura Banu, Prof./EIE	Indian Control Conference	Indian Institute of Technology Madras	5.1.15 to 7.1.15

### PAPERS PUBLISHED / PRESENTED IN JOURNALS & CONFERENCES

National Conference	International Conference	National Journal	International Journal	Total
24	18	-	12	36

## DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES

### Journals Published:

- S.K. Lakshmanaprabu, N. Sivaramakrishnan, U. Sabura Banu, "Closed Loop Control of Quadruple Tank Process using Fuzzy Logic PI Controller", *International Journal of Computer Applications (0975 – 8887)*, pp 20-24
- U. Sabura Banu, P.R. Hemavathy, J.Susai Mary, "Fractional Order PID Controller Optimized using Bacterial Foraging Technique for Three Interacting Tank Process considered as a Third Order Process", *International Journal of Computer Applications (0975 – 8887)*, pp 29-34
- Abdul Wahid Nasir, U. Sabura Banu, "Design and Implementation of Fractional Order Proportional Integral Controller for the Control of Aircraft Pitch Dynamics", *Chapter 71, Power Electronics and Renewable Energy Systems, Lecture Notes in Electrical Engineering, Book ISBN: 978-81-322-2118-0*, pp.727/738
- S.K. Lakshmanaprabu, U. Sabura Banu and N. Sivaramakrishnan, "Identification of the Fractional Order First Order Plus Dead Time Parameters of Two Interacting Conical Tank Process Using Bee Colony Optimization Technique minimizing Root Mean Square Error", *Chapter 75, Power Electronics and Renewable Energy Systems, Lecture Notes in Electrical Engineering, Book ISBN: 978-81-322-2118-0*, pp.767-778
- S.K.Lakshmanaprabu U. Sabura Banu C.Bharanitharan, "Linear Quadratic Gaussian Control for Two Interacting Conical Tank Process", *International Journal of Computer Applications (0975 – 8887)*,pp 35-39
- S.K. Lakshmanaprabu, U. Sabura Banu, "Multiobjective optimization of Multiloop Fractional Order PID Controller tuned using Bat Algorithm for Two Interacting Conical Tank Process", *Applied Mechanics and Materials, Vol. 704 (2015)* pp 373-379
- G. Anidha, U. Sabura Banu, J. Mohamed Thowfiq Raja, "Automatic Characterization of Choroidal Neovascularization Lesions in Fluorescein Angiograms using Parametric Modeling, *International Journal of Computer Applications (0975 – 8887)*, October 2014.
- P. Anbumalar, "Modeling and Simulation Study on Fractional and Integer Order PI Controller for a SISO Process" *International Journal of Science, Engineering and Technology Research (IJSETR)*, Volume 3, Issue 3, March 2014. ISSN: 2278 – 7798 p.no:369-373
- P. Anbumalar, "Investigation on Performance of Fractional Order PI Controller for a Class of Fractional Order Systems" *International Journal for Research and Development in Engineering (IJRDE) ISSN: 2279-0500* Special Issue: pp- 514-520, March 2014
- S. Shahul Hamid, S. Boopalan, C. Barathkanna, K. Suganthan, "Flame diagnosis in furnace safeguard supervisory system using image processing" , *International Journal for Research and Development in Engineering (IJRDE) ISSN: 2279-0500* Special Issue: pp- 528-531

- S.K. Lakshmanaprabu, U. Sabura Banu, "Multiobjective optimization of Multiloop Fractional Order PID Controller tuned using Bat Algorithm for Two Interacting Conical Tank Process", *Applied Mechanics and Materials*, Vol. 704 (2015) pp 373-379
- M. Ramamoorthy, U. Sabura Banu, " Intelligent Video Surveillance System Using Background Subtraction Technique and its Analysis", *International Journal of Applied Engineering Research*, ISSN 0973-4562 Volume 10, Number 2 (2015) pp. 4849-4863.

### International Conference:

- M.S. Murshitha Shajahan, T.R. Rangaswamy, "Intelligent coordinated control for boiler turbine unit", *International Conference on Industrial Engg. Science and Applications – 2014 (IESA-2014)*, N.I.T., Durgapur, West Bengal, April 2014
- B. Pushpa, D. Najumnissa Jamal, "Classification of Epileptic Seizure EEG signals using EMD & ANFIS" *International Conference on Informatics, Electronics & Vision (ICIEV '14)*, University of Dhaka Bangladesh, 23<sup>rd</sup> & 24<sup>th</sup> May 2014
- S.K.Lakshmanaprabu, U.Sabura Banu, Qais Bin Tanweer, "Linear Quadratic Gaussian Control for Two Interacting Tank Process" , *International Conference on Applied Research on Engineering (iCARE'14)* , in association with ELESVIER, pp.35,(ISBN:978-93-5107-243-0), Sri Laxmi Ammal Engineering college ,Chennai , 22<sup>nd</sup> May 2014.
- G. Anidha, B. Surya, U. Sabura Banu, "Characterization of changes in Retinal pigment epithelium layer in choroidal neo-vascularization" *International Conference on Applied Research on Engineering (iCARE'14)* , in association with ELESVIER, pp.35,(ISBN:978-93-5107-243-0), Sri Laxmi Ammal Engineering college , Chennai 22<sup>nd</sup> May 2014.
- V. Saravanan, U. Sabura Banu, "Leather Quality analysis using Neural Network pattern recognition" , *International Conference on Applied Research on Engineering (iCARE'14)* , in association with ELESVIER, pp.35,(ISBN:978-93-5107-243-0), Sri Laxmi Ammal Engineering college ,Chennai, 22<sup>nd</sup> May 2014.
- Abdul Wahid Nasir, U. Sabura Banu, "Design and Implementation of Fractional Order Proportional Integral Controller for the control of aircraft pitch dynamics", *International Conference on Power Electronics and Renewable Energy Systems (ICPERES2014)*, Rajalakshmi Engineering College, Chennai, India, in associations with Springer and IEEE, April, 2014
- S.K.Lakshmanaprabu, U. Sabura Banu, N. Sivaramakrishnan, "Identification Of The Fractional Order First Order Plus Dead Time Parameters Of Two Interacting Conical Tank Process Using Bee Colony Optimization Technique Minimizing Root Mean Square Error", *International Conference on Power Electronics and Renewable Energy Systems (ICPERES2014)*, Rajalakshmi Engineering College, Chennai, India, in associations with Springer and IEEE, April, 2014

- S.K.Lakshmanaprabu, U. Sabura Banu, J. Mohamed Thowfiq Raja, “Multiloop PI Controller for two interacting conical tank process”, *IEEE’s International Conference for Convergence of Technology*, Pune April 2014
- U. Sabura Banu, C.Bharanitharan, D. Karthik, “Approximation of third order three interacting tank process to fractional order first order plus dead time using Bee colony optimization technique minimizing root mean square error”, *IEEE’s International Conference for Convergence of Technology*, Pune, April 2014
- U. Sabura Banu, G. Anidha, J. Jagannath, R. Natchammai, “Ant colony optimized edge detection for the segmentation of choroidal neo-vascularization” *IEEE’s International Conference for Convergence of Technology*, Pune, April, 2014
- P. Anbumalar, “Load Frequency Control using IMC based PID Controller”, pp-355-358, Tagore Engineering College, Chennai, 13th & 14th March, 2014

### **National Conference:**

- G. Anuradha, D. Najumnissa Jamal, “EEG in detection and classification of DEMENTIA”, *National Conference on Present Scenario and Future trends in Biomedical Engineering and Healthcare Technologies*, IIT, Varanasi, Uttar Pradesh 17-18<sup>th</sup> October 2014.
- B. Pushpa, D. Najumnissa Jamal, “Characteristics of Epileptic Seizure using Empirical mode Decomposition and support vector machine” *National Conference on “Present Scenario and Future trends in Biomedical Engineering and Healthcare Technologies*, School of Biomedical Engineering, IIT, Varanasi, Uttar Pradesh 17-18<sup>th</sup> October 2014.
- P.R. Hemavathy, J. Susai Mary, U. Sabura Banu, Uwaiz Ahmed “Model Reference Adaptive Control For pH Control of a Desalination Plant”, *National Conference on Water Treatment, Reuse, Modeling and Control of Desalination Process*, Easwari Engineering College, Chennai, 24-25 September 2014.
- S.K.Lakshmanaprabu, U. Sabura Banu, Sriram, “Multiloop Internal Model Control based PID control for Reverse Osmosis Desalination process”, *National Conference on Water Treatment, Reuse, Modeling and Control of Desalination Process*, Easwari Engineering College, 24-25 September 2014.
- S.K.Lakshmanaprabu, U. Sabura Banu, M. Mohamed Ghouse Alam, “Independent Design of Multiloop IMC Based PI Controller for Two Conical Interacting Tank Process”, *National Conference on Water Treatment, Reuse, Modeling and Control of Desalination Process*, Easwari Engineering College, 24-25 September 2014.
- S.K.Lakshmanaprabu, U. Sabura Banu, A. Sheik Dawooth “Optimal Control Design Using Linear Quadratic Regulator for Quadruple Tank Process”, *National Conference on Water Treatment, Reuse, Modeling and Control of Desalination Process*, Easwari Engineering College, 24-25 September 2014.
- G. Anidha, U. Sabura banu, Mohamed Thowfiq Raja “Automatic Characterization of Choroidal Neovascularization Lesions in Fluorescein Angiograms using Parametric

Modeling”, *National Conference on Computational Intelligence for Engineering Quality Software CiQS 2014*, Coimbatore Institute of Technology, 21<sup>st</sup> August 2014.

- S.K.Lakshmanaprabu, U. Sabura Banu, C. Bharanitharan “Linear Quadratic Gaussian Control for Two Interacting Conical Tank Process” *National Conference on Computational Intelligence for Engineering Quality Software CiQS 2014*, Coimbatore Institute of Technology, Coimbatore, 21<sup>st</sup> August 2014.
- S.K.Lakshmanaprabu, N. Sivaramakrishnan, U. Sabura Banu, “Closed Loop Control of Quadruple Tank Process Using Fuzzy Logic PI Controller” *National Conference on Computational Intelligence for Engineering Quality Software CiQS 2014*, Coimbatore Institute of Technology, Coimbatore, 21<sup>st</sup> August 2014.
- U. Sabura Banu, P.R.Hemavathy, J.Susai Mary “Fractional Order PID Controller optimized using Bacterial Foraging Technique for Three Interacting Tank Process considered as a third order process” *National Conference on Computational Intelligence for Engineering Quality Software CiQS 2014*, Coimbatore Institute of Technology, Coimbatore, 21<sup>st</sup> August 2014.
- Suganthan K D. Najumnissa Jamal, “Automation stuttering recognition system” , *National conference on Recent Trends in Instrumentation and Control for Industrial applications*, pp. 23-25, RMK Engineering College, Chennai, 21st April 2014,
- Benazir Fathima R, D. Najumnissa Jamal, “Detection of QRS complex by wavelet transformation” *National conference on Recent Trends in Instrumentation and Control for Industrial applications*, pp. 29-33, RMK Engineering College, Chennai, 21st April 2014,
- Y. Mohamed Riaz, S.K.Lakshmanaprabu, U. Sabura Banu, “Robust PI controller design using coefficient diagram method for two Interacting conical tank process”, *National conference on Recent Trends in Instrumentation and Control for Industrial applications*, pp. 39-44, RMK Engineering College, Chennai, 21st April 2014,
- S.K. Lakshmanaprabu, U. Sabura Banu, A. Aparna, “Multiloop Internal Model control for Quadruple tank process”, *National conference on Recent Trends in Instrumentation and Control for Industrial applications*, pp. 34-38, RMK Engineering College, Chennai 21st April 2014.
- U. Sabura Banu, P.R. Hemavathy, D. Karthick, “Real Time Implementation of Ant colony optimization based PID control for three interacting tanks”, *National conference on Recent Trends in Instrumentation and Control for Industrial applications*, RMK Engineering College, Chennai, 21st April 2014.
- J. Susai Mary, U. Sabura Banu, Benazir Fathima, “Fuzzy Gain scheduled state feedback control of a three interacting tank system using LQR”, *National conference on Recent Trends in Instrumentation and Control for Industrial applications*, RMK Engineering College, Chennai, 21st April 2014.
- P. Anbumalar, M. Suganya , Sheik Sultan Basha, “Design of non-linear PID controller for pH process using locally linear models” *National conference on Recent Trends in*

*Instrumentation and Control for Industrial applications*, RMK Engineering College, Chennai, 21st April 2014.

- P. Anbumalar, C. Barathkanna, G. Janani, Salman Mohamed Farook, “Investigation of Fractional Order PID Controller for a Class of Fractional Order Systems”, *National conference on Recent Trends in Instrumentation and Control for Industrial applications*, RMK Engineering College, Chennai, 21st April 2014.
- V. Saravanan, U. Sabura Banu, “Analysis of leather texture and detection of severity of defects using image processing and Adaptive Neuro Fuzzy Inference system”, *National Conference on Advanced Computing systems*, NCACS 2014, pp.347-350, Asan Engineering College, 2nd April 2014,
- P. Anbumalar, “Investigation on Performance of Fractional Order PI Controller for a Class of Fractional Order Systems”, *National Conference Proceedings on Methods Enriching Power and Energy Development*, Jeppiyar Engg. College, Chennai, 26th March 2014
- D.Najumnissa, B.Pushpa, “Application of Empirical mode decomposition to epileptic seizure EEG signals”, *Recent trends in Instrumentation Control and Automation (NCRTICA 2014)*, Sairam Engg. College, Chennai , 24th March 2014
- P. Anbumalar, C. Barathkanna, G. Janani, S.M. Jeyashre, “Design of decentralized PID controller for interacting tank level process”, *Recent trends in Instrumentation Control and Automation (NCRTICA 2014)*, Sairam Engg. College, Chennai, 24th March 2014

## BOOK PUBLISHED

### Book Chapter Contribution

1. Abdul Wahid Nasir, U. Sabura Banu, “Design and Implementation of Fractional Order Proportional Integral Controller for the Control of Aircraft Pitch Dynamics”, *Chapter 71, Power Electronics and Renewable Energy Systems, Lecture Notes in Electrical Engineering, Book ISBN: 978-81-322-2118-0*, pp.727/738
2. S.K. Lakshmanprabu, U. Sabura Banu and N. Sivaramakrishnan, “Identification of the Fractional Order First Order Plus Dead Time Parameters of Two Interacting Conical Tank Process Using Bee Colony Optimization Technique minimizing Root Mean Square Error”, *Chapter 75, Power Electronics and Renewable Energy Systems, Lecture Notes in Electrical Engineering, Book ISBN: 978-81-322-2118-0*, pp.767-778

## SPONSORED RESEARCH (ONGOING / APPLIED)

S. No.	Principal and Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1	Dr. M.S. Haji Sheik Mohammad Prof/Civil, Dr.U.Sabura Banu Prof/EIE and Dr. V. Murugesan, Prof/Eminence	Department of Science & Technology under Extramurals Scheme	Development and performance evolution of eco-friendly anticorrosive coating for steel rebars used in concrete	24,00,000/-	Applied



2	Dr. U. Sabura Banu	Fast Track Scheme, Department of Science and Technology	Design and implementation of two degree of freedom fractional order PID controllers for industrial control loops	18,00,000/-	Applied
3	Mr.S.Shahul Hamid, Visiting Professor Dr.T.R.Rangaswamy, Professor and Dean (Ac) and Dr. D. Najumnissa Jamal, Professor & HOD	Central Power Research Institute, Bangalore	Development of Boiler tube leakage detection system using Intelligent Techniques	13,00,000/-	Under Review (Received comments)

## DEVELOPMENTAL ACTIVITIES

- Basic Programmable Logic Controller Trainer (5 nos) cost Rs.52,500/- was purchased for Process Control lab on 7.9.14 from M/s. Micro Mech Instruments, Chennai
- Multifunction Calibrator for the Process Control lab was purchased for Rs.40,845/ from M/s. Instruments & Equipment Company on 7.4.2014.

## SOCIETY ACTIVITIES

- Under the auspicious of the Society of Electronics and Instrumentation engineers (SEIE) a one day symposium PRECISION + 2015 was organized on 28.1.15.
- Society of Electronics & Instrumentation Engineers (SEIE) inaugurated for the year 2014-15, Chief Guest Mr. A.N. Sree Kumar, Head - Customer Service Division, Southern India, Yokogawa India. Ltd. on 26.8.14.
- Under the Society of Electronics & Instrumentation Engineers (SEIE) – Project demonstration was held on 26.8.14
- A one day program on TALENT OVERSHOOT to showcase the students talents was organized on 17.3.14 under the Banner of SEIE. Events like “Paper presentation, I.Q Explorer, Minute attack, Circuit Race” tested the students on their core knowledge. Whereas events like “Picasso, Clip-Shots, Teams Got Talent and Golden Year” tried them on their team work, coordination, creativity and spirit.



## INDUSTRY / INSTITUTE COLLABORATION

### Industrial Visits

S.No.	Industry Visited	Date	Year
1.	Chemin & Control, Pondyicherry	5.9.14	II Year UG and I year PG
2.	Tamil Nadu Paper Limited (TNPL), Karur	12.9.14	II Year UG
3.	Chemin & Control, Pondyicherry	18.10.14	IV Year UG
4.	EID Parry, Kadalur	7.3.15	III Year UG



II year UG and I year PG at Chemin & Control, Pondyicherry on 5.9.14



II year EIE at TNPL, Karur.on 12.9.14

## INDUSTRIAL TRAINING

11 PG students underwent Industrial Training in the Venkateshwara Scans, Chengalarayan Co-Operative Sugar Mill Ltd, Bharatiya Nambhikiya Vidyut Nigam Ltd, Madras Medical Mission, PFBR Instrumentation System at Bhavini, Hatsun Agra Products Limited, Wheels India Limited and Vi-Microsystems Pvt.Ltd

## ACHIEVEMENTS OF FACULTY

- Dr. U. Sabura Banu serves as an Editorial Board member for "Journal of Instrumentation Technology & Innovation" and "Journal of Control and Instrumentation", STM publications
- Dr. U. Sabura Banu has served as a reviewer for International Journals like Advances in Modeling and Simulation Enterprises (AMSE) France, Chemical Engineering Communication from Taylor and Francis, Swarm and Evolutionary Computation from Elsevier Journal and 10th Asian Control Conference 2015
- Dr. U.Sabura Banu has delivered a guest lecture on "Implementation of INTELLIGENT CONTROLLERS for Power Electronics applications" was delivered for the post graduate students on 5th March 2015 in EEE Dept, Rajalakshmi Engineering College.

- Dr. T.R. Rangaswamy, Prof. & Dean (Academic) was invited as Guest of Honour for the Fresher's Day at Central Institute of Plastics Engineering & Technology (CIPET), Chennai on 1<sup>st</sup> September 2014.
- Dr. D. Najumnissa Jamal, Prof and Head / EIE acted as chairperson for the International conference on Informatics, Electronics and Vision (ICIEV) on 24th May, 2014, organized by University of Bangladesh, Dhaka.

## ACHIEVEMENTS OF STUDENTS

A patent has been applied (application No:404/CHE/2015) on the title Footwear Implantable Tracking Device and system for Ensuring Personal Safety, at the Patent Office, dated 29.1.15 and it has been published in the International Patent Official Journal during 6.2.15.

## IMPORTANT VISITORS

- Mr. M. Rajendran, M/s. Premier Technical System, Chennai visited on 22.3.14
- Dr. R. Vijayareshwaran, Managing Director, Vi Microsystems Pvt. Ltd., visited on 25.3.14
- Mr. R. Babusekar, Rockwell Automation, Chennai visited on 8.7.14.
- Mr. Mohamed Easa Y, P. Ganesa, Micromech Instruments Pvt. Ltd., visited on 22.7.14.
- Mr. Sree Kumar, Country Head, Yokogawa India Ltd., visited on 26.8.14
- Mr. S. Harihara Suthan, Manager, Tech Support, CADTech on 7.1.15
- Mr. Anil Mishra, Director, CAD Tech Delhi on 20.3.15
- Mr. Ralph Rosberg, Process Automation & IT solutions, Germany on 20.3.15



## ANY OTHER INFORMATION

- As part of the Societal and extension activity organized by the department 35 students (IV,III,II and I year), 5 faculty members and two supporting faculty members went on a voters awareness ethical voting by cleaning the beach on 15.3.14.



- Mr. Mohamed Rasool, (2014 batch Alumni), Graduate Trainee, Invensys Pvt. Ltd., trained the IV year students on “Allen Bradley PLC” on 6.8.14
- Mr. Shaik Mohamed Rawoof (2001 batch Alumni) interacting with the II year EIE students on how to prepare themselves for job opportunities in middle east on 25.8.14
- Mr. M. Sankar Ganesh, (2011 batch Alumni), took special coaching class on “Control System” for the PG students and IV year students for appearing for GATE from 1/10/14 to 20/1/15.



# **SCHOOL OF INFRASTRUCTURE**

➤ **Dept. of Civil Engineering**



# DEPARTMENT OF CIVIL ENGINEERING





# CIVIL ENGINEERING

## TRAINING PROGRAMMES OFFERED

- Training Programme in Building Information Modeling for 56 students of B.Tech. III<sup>rd</sup> yr. on Revit Architecture was organized in association with M/s. KKM Soft (P) Ltd from January – April 2014.
- Certificate programme in BIM Technology was organized by the department in association with M/s. HSS BIM Solutions Pvt. Ltd. for the benefit of M.Tech. (Construction Engineering and Project Management) students during September to December 2014. Around 12 M.Tech. students got benefitted from the course.
- Conducted training programme to 14 marine cadets of M/S. Chennai School of Ship Management in S. M. Laboratory during 17 – 18 July, 2014 and 16<sup>th</sup> and 17<sup>th</sup> April 2014.

## CONFERENCES / FDPs / SEMINARS / WORKSHOPS CONDUCTED BY THE DEPARTMENTS

- Orientation Programme for I<sup>st</sup> Year B.Tech. (II<sup>nd</sup> Semester) students was organized on 10<sup>th</sup> January 2015.
- Intradepartmental Technical symposium "CONSTRUZONE - TECHFEST'2014" was organized on 27<sup>th</sup> March 2014. Dr. Manu Santhanam, Professor, Building Technology & Construction Management Division, IIT, Madras inaugurated the event and delivered a special lecture on "Concrete Technology".
- Two day National Conference on "Futuristic Innovations and Emerging Trends in Civil Engineering (FIETCE'14)" was organized by the department during May 5-6, 2014. Dr. Anil K. Kar, CEO, M/S. Engineering Consultant Services, Kolkata inaugurated FIETCE'14 and delivered a special lecture. Around 50 technical papers were presented. 150 persons from various academic and research institutions participated in the conference.
- Activities of "Society of Civil Engineers" & "Student Chapter of ASCE" for the year 2014 – 15 was inaugurated on 26<sup>th</sup> August 2014. Dr. Sivakumar Munuswamy, Adjunct Faculty, Florida Atlantic University, USA was the chief guest and delivered a keynote address on "Post – Tensioning Applications and Associated Case Study".
- Two days Workshop on "Principles of Bridge Design and Model Fabrication" was organized by the Department of Civil Engineering during 13<sup>th</sup> & 14<sup>th</sup> November 2014. Thirty one B.Tech. Civil Engineering students participated in the workshop. Mr. Akash Shah, Trainer, M/s. ARK Techno Solution (Associate of Zephyr, IIT Bombay) provided training to the students.



- Indian Concrete Institute (ICI) – Student chapter was inaugurated on 25<sup>th</sup> November 2014. Dr. Ravindra Gettu, Professor, Building Technology & Construction Management Division, IIT Madras was the chief guest and delivered a special technical lecture on “Improving the Sustainability of Concrete Technology through the Effective use of Admixtures”. Around 100 P.G. students of M.Tech. Structural Engineering and Construction Engineering & Project Management; and faculty members participated.



- Two Days National Workshop on “Innovative Concepts for Seismic Response Control of Structures- ICSRCS15” was organized by the Department of Civil Engineering during 11-12, February 2015. This workshop was sponsored by Board of Research in Nuclear Sciences (BRNS), Mumbai and supported by Indian Concrete Institute. Around 150 participants comprising teaching faculty, industry personnel, research scholars and students were participated. Prof. A.R. Santhakumar, Emeritus Professor, IIT, Madras inaugurated the workshop and gave a special lecture. The other prominent speakers include Dr. K. Muthumani, Chief Scientist & Head, and Dr. K. Sathishkumar, Principal Scientist, Ms. C.Bharathi Priya, Scientist and Ms. Prabha, Scientist from CSIR-SERC. Dr. M.S. Haji Sheik Mohammed, Dr. J. Revathy and Dr. P. Gajalakshmi also gave technical lecture in the workshop.



### CONFERENCES / FDPs / SEMINARS / WORKSHOPS ATTENDED BY THE DEPARTMENTS

Sl. No.	Year	Nature of Programme attended by Faculty						Total
		FDP	Workshop	STP	International conference	National Conference	CEP	
1.	2014	3	8	-	3		1	15

- Ms. S. Booma, Asst. Prof. and Ms. S. Mahalakshmi, Asst. Prof. attended a National Workshop on “Earthquake Hazards and Mitigation – Geotechnical and Structural Engineering Aspects” at VIT, Chennai on 30<sup>th</sup> January 2015.
- Dr. S. Suriya, Asst. Prof. attended a workshop on “Ground Water Modeling using Visual Modflow” on 25<sup>th</sup> January 2014, VIT, Chennai.
- Dr. J. Revathy, Professor and Dr. P. Gajalakshmi, Asso. Professor attended an Advance Course on “Seismic Response Control and Damage Mitigation Methodologies for Buildings and Structures, CSIR SERC, Chennai, during 19<sup>th</sup> – 21<sup>st</sup> February 2014.

- Ms. T. N. Brinda, Asst. Prof., attended International Conference on “Recent Advancements in Chemical Environment and Energy” at SSN College of Engineering during 27<sup>th</sup> – 28<sup>th</sup> February 2014.
- Dr. S. Suriya and Mr. A. K. Kaliluthin, Asst. Prof. participated in International Conference on “Advances in Civil Engineering and Chemistry of Innovative Materials – ACECIM” at SRM University, Ramapuram during 13<sup>th</sup> – 14<sup>th</sup> March 2014.
- Ms. S. Booma attended a workshop on “Environmental Vigilance on Water and Energy Resources (NEVWER – 2014)” on 22<sup>nd</sup> March 2014, SRM University, Kattangalathur.
- Mr. N. Maharajan, Asst. Prof. attended a 2 day Faculty Development Programme on “Environmental Management in Industries” at Hindustan University, during June 2014.
- Mr. S. Akbar Basha, Asst. Prof. (Sr. Gr.), Ms. S. Booma, Asst. Prof., Ms. T. N. Brinda, Asst. Prof., Mr. N. Maharajan, Asst. Prof., Mr. K. Jagadeesh, Asst. Prof. and Ms. K. Kanmani, Asst. Prof attended a Faculty Development Programme on “Green Building Technology Changing Paradigms (FDP GBT 2014)” at National Institute of Technology , Calicut, Kerala during 9<sup>th</sup> – 14<sup>th</sup> June 2014.
- Ms. S. Booma and Ms. S. Mahalakshmi attended a workshop on “Precast Concrete Technology an Emerging Trends in India” at VIT Chennai held on 25<sup>th</sup> July 2014.
- Ms. S. Booma, Asst. Prof. attended a Workshop on “CST Studio 2014”, organized by Department of Electrical and Electronics Engineering, B. S. Abdur Rahman University, Chennai on 11<sup>th</sup> August 2014.
- Mr. D. Mohamed Shanavaz, Asst. Prof. attended a workshop on “Satellite Image Processing” during 15<sup>th</sup> – 16<sup>th</sup> September 2014 at SRM University, Kattangalathur.
- Dr. S. Suriya, Asst. Prof. attended 3<sup>rd</sup> International Conference on “Hydrograph Stimulation for a Rural Watershed using SCS Curve Number and Geographic Information System” at Department of Hydrology and Meteorology, International Convention Centre, Hyderabad on 15<sup>th</sup> September 2014.
- Dr. P. Vasanthi, Professor and Ms. S. Booma, Asst. Prof. attended a workshop on “Introduction to BIM Softwares” at B.S. Abdur Rahman University, Chennai on 20<sup>th</sup> November 2014.
- Mr. D. Mohammed Shanavaz, Asst. Prof. attended a workshop on “Satellite Image Processing” at SRM University, Kattangalathur during 15<sup>th</sup> – 16<sup>th</sup> September 2014.
- Mr. Y. Ibrahim and Mr. A. T. Manikandan attended a Faculty Development Programme on Soil and Foundation at SKR Engineering College on 19<sup>th</sup> September 2014.

#### **PAPERS PUBLISHED / PRESENTED IN JOURNALS & CONFERENCES**

<b>International Journal</b>	<b>National Journal</b>	<b>International Conferences</b>	<b>National Conferences</b>	<b>Total</b>
8	-	11	17	36

## DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES

### International Journal

- Gajalakshmi P and Ganesh Shankar R, “Recycled Aggregate Concrete for Structural Applications: A Review”, *International Journal of Earth Sciences and Engineering*, Vol.7, No.5, October 2014. (ISSN 0974 - 5904)
- Suriya. S and Mudgal. B.V., “Assessment of Flood Potential ranking of Sub Watersheds; Adyar Watershed - a Case Study”, *International Journal of Innovative Research in Science, Engineering and Technology*, Vol.3, No.7, pp. 14537 – 14548, July 2014.
- Brinda T. N and Prasanna. E., “Energy Impact in Solar Passive Building A Strategic Energy Conservation”, *International Journal of Management, IT and Engineering (IJMIE)* ISSN: 2249-0558, Vol. 4, No. 6, June 2014.
- Yogeswari. K and Rasul Mohideen. E., “Study of Traffic for Sustainable Transportation using Image processing”, *International Journal of Advances in Image Processing Techniques*, Vol. 1, No.2, pp. 12 – 16, June 2014.
- Haji Sheik Mohammed. M.S., Srinivasa Raghavan. R., Samuel Knight. G. M and Murugesan. V., “Macrocell Corrosion Studies of Coated Rebars”, *Arabian Journal for Science and Engineering*, Vol.39, No.5, pp.3535-3543, May 2014.
- Brinda. T. N and Prasanna. E., “Developments of Facility Management using Building Information Modelling”, *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 3, No. 4, pp. 11379 – 11386, April 2014.
- Yogeswari. K and Rasul Mohideen. E., “Road Layout Design for Sustainable Transportation Planning using Fuzzy Logic System”, *International Journal of Theoretical and Application of Information Technology*, Vol. 62, April 2014.
- Kaliluthin. A. K., Kothandaraman. S and Suhail Ahamed. T. S., “A Review on Behavior of Reinforced Concrete Beam-Column Joint”, *International Journal of Innovative Research in Science, Engineering and Technology*, Vol.3, No.3, pp.11219 – 11312, April 2014.
- Gajalakshmi. P and Jane Helena. H, “Experimental and Computational Study of SFRC infilled Steel Circular Columns under Axial Compression”, *Asian Journal of Civil Engineering*, Vol. 15, No.2, pp. 231 – 243, April 2014.
- Kaliluthin. A. K and Kothandaraman. S, “Experimental Investigation on Behavior of Reinforced Concrete Beam-Column Joint”, *International Journal of Civil and Structural Engineering*, Vol. 4, No.3, pp. 248 – 261, March 2014.
- Revathy J, Saranya S and Illakkiya B, “Behaviour of Prestressed Concrete Beams Strengthened with Externally Bonded Fibre Reinforced Polymer Laminates”, *International Journal of Structural analysis & Design*, Vol.1, No.2, pp. 60 – 64, March 2014.

### International Conference

- Gajalakshmi P and Ganesh Shankar R, “Recycled Aggregate Concrete for Structural Applications: A Review”, *Proceedings of International Conference on Ingenious Technologies and Sustainable Developments in Civil Engineering (ICICE 2014)*, Noorul Islam University, Kanyakumari, Vol.1, No.1, pp. 100 – 115, October 2014.

- Suriya S and Mudgal B.V., "Hydrograph Stimulation for a Rural Watershed using SCS Curve Number and Geographic Information System (ISSN: 2157 - 7587)", *Proceedings of International Conference on 3rd International Conference on Hydrology and Meteorology, International Convention Centre, Hyderabad, Vol. 5, No.4, pp. 40, September 2014.*
- Brinda. T. N. and Prasanna. E., "Sustainable Building Analysis and Building Information Modelling", *Proceedings of International Conference on Science and Innovative Engineering, Jawahar Engineering College, April 2014.*
- Brinda. T. N. and Prasanna. E., "Emerging Trends and effective Scheduling in Mivan formwork", *Proceedings of International Conference on Science and Innovative Engineering, Jawahar Engineering College, April 2014.*
- Brinda. T. N. and Johannes Preetham., " A study on the effects of materials on energy consumption (using BIM)", *Proceedings of International Conference on Science and Innovative Engineering, Jawahar Engineering College, April 2014.*
- Revathy J, Saranya S and Illakkiya B, "Behaviour of Prestressed Concrete Beams Strengthened with Externally Bonded Fibre Reinforced Polymer Laminates", *Proceedings of International Conference on Advances in Civil, Structural, Environmental and Bio - Technology - CSEB2014, Malaysia, 8<sup>th</sup> – 9<sup>th</sup> March 2014.*
- Yogeswari. K and Rasul Mohideen. E., "Study of Traffic for Sustainable Transportation using Image Processing", *Proceedings of International Conference on Advance of Civil, Structural, Environmental and Bio Technology - CSEB2014, Malaysia, 8<sup>th</sup> – 9<sup>th</sup> March 2014*
- Kaliluthin. A. K and Kothandaraman. S., "Performance Evaluation of Exterior Beam Column Joint with Core Reinforcement", *Proceedings of International Conference on Advances in Civil Engineering and Chemistry of Innovative Materials (ACECIM'14), SRM University, Ramapuram, 13<sup>th</sup> – 14<sup>th</sup> March 2014.*
- Suriya. S and Mudgal B.V., "A GIS based integrated model for Flood Assessment - Orathur Watershed: a case study", *Proceedings of International Conference on Advances in Civil Engineering and Chemistry of Innovative Materials (ACECIM'14), SRM University, Ramapuram, 13<sup>th</sup> – 14<sup>th</sup> March 2014.*
- Vishwanathan. N and Revathy. J., "Potential Applications of Bacterial Species in Strength and Durability Studies for the development of Sustainable concrete", *Proceedings of International Conference on Advances in Civil Engineering and Chemistry of Innovative Materials (ACECIM'14), SRM University, Ramapuram, 13<sup>th</sup> – 14<sup>th</sup> March 2014.*
- Naseemul Irfan. A and Molykutty. M.V., "Grey Water Treatment using Reed Bed System – An Experimental Comparative Study", *Proceedings of International Conference on Environmental Management and Green Technologies ICEMGT 2014, St. Peter's College of Engineering and Technology, Anna University, Chennai, March 2014.*
- Vasanthi. P, Pamila Ramesh, Padmaja Megham and Parkavi Dinesh Babu, "Color Removal From Waste Water Using Eco-Friendly, Low Cost Adsorbent- Chitosan Beads", *Proceedings of International Conference on Environmental Management and Green Technologies, ICEMGT 2014, St. Peter's College of Engineering and Technology, Anna University, March 2014.*
- Anandam. S. T. M and Vasanthi. P, "Recent Developments in Membranes of Membrane Bioreactor for Wastewater and Leachate Treatments", *Proceedings of International*

Conference on *Environmental Management and Green Technologies, ICEMGT 2014*, St. Peter's College of Engineering and Technology, Anna University, March 2014

- Sowmya Meenakshi. S and Brinda. T. N., "Cost Effective Eco friendly Alternative to conventional houses", Proceedings of International Conference on "*Environmental Management and Green Technologies*", St. Peter's College of Engineering and Technology, Chennai, March 2014.
- V. Vandhana Devi, R.Nishanth Thulasi and M.Shriram Sundar, " Waste to Energy for sustainable management of natural resources" Proceedings of the International Conference on Waste management for Sustainable Development, N.S.S.College of Engineering, Palakkad, Kerala, India, 21-23 rd March 2014.

### **National Conference**

- Kaliluthin. A. K., and Kothandaraman. S., "Behavior of Reinforced-Concrete Beam-Column Joints with Alternative Detailing", *Proceedings of the First Annual Conference on Innovations and Developments in Civil Engineering*, ACIDIC-2014 NITK, Surathkal, India.19<sup>th</sup> – 20<sup>th</sup> May, 2014,
- Suhail Ahamed. T. S., Syed Mohamed. A and Kaliluthin. A. K., "Performance Evaluation of Exterior Beam-Column Joint with Core Reinforcement subjected to reversed cyclic loading", *Proceedings of the National Conference on Structural Materials and Modern Construction Practices*, Adhiparasakthi Engineering College, Melmaruvathur, 14<sup>th</sup> May 2014.
- Mohammed Sadaquath Ali Khan. Z and MolyKutty. M. V, "Ultra Energy Efficient Building", Proceedings of National Conference on "*Futuristic Innovation & Emerging Trends in Civil Engineering - FIETCE 2014*", B. S. Abdur Rahman University, Chennai, pp. 270 – 285, May 2014.
- Kamalakannan. V and MolyKutty. M. V, "Audit & Conservation of Energy in A Multistorey Structure", Proceedings of National Conference on "*Futuristic Innovation & Emerging Trends in Civil Engineering - FIETCE 2014*", B. S. Abdur Rahman University, Chennai, pp. 193 – 197, May 2014.
- Aarathi Rathna Velona. A., Krishnappa. K.C., and M. S. Haji Sheik Mohammed, "Analysis of C Bar Reinforced Concrete Beams for Flexure and Bond Strength", Proceedings of *National Conference on "Futuristic Innovations & Emerging Trends In Civil Engineering - FIETCE'14"*, B. S. Abdur Rahman University, Chennai, pp. 228 – 235, May 2014.
- Muhammad Salih K. P. and Vasanthi. P., "Mechanical Properties of Recycled Steel Fiber Reinforced Silica Fume Concrete", Proceedings of National Conference on "*Futuristic Innovations & Emerging Trends In Civil Engineering - FIETCE'14*", B. S. Abdur Rahman University, Chennai, pp.262 – 269, May 2014.
- Vasanthi. P and Booma. S., "Analysis of Traffic Congestion at Medavakkam", Proceedings of National Conference on "*Futuristic Innovations & Emerging Trends In Civil Engineering - FIETCE'14*", B. S. Abdur Rahman University, Chennai, pp. 243 – 248, May 2014.
- Pamila Ramesh and Vasanthi. P., "Evaluation of Adsorption Efficiency of Dye from Aqueous Solution on to Waste Shell Powders (Prawn and Egg Shells)", Proceedings of National Conference on "*Futuristic Innovations & Emerging Trends In Civil Engineering - FIETCE'14*", B. S. Abdur Rahman University, Chennai, pp. 193 – 208, May 2014.

- Abdul Salam. A., Ajona. M and Vasanthi. P., “An Environmental Friendly Self-Healing Microbial Concrete”, Proceedings of National Conference on “*Futuristic Innovations & Emerging Trends In Civil Engineering - FIETCE’14*”, B. S. Abdur Rahman University, Chennai, pp. 114 – 118, May 2014.
- Vignesh. V and Vasanthi. P., “Study on Ductility and Crack Behaviour of Cost Effective Engineered Cementitious Composites Based Ferrocement for Sustainable Construction”, Proceedings of National Conference on “*Futuristic Innovations & Emerging Trends In Civil Engineering - FIETCE’14*”, B. S. Abdur Rahman University, Chennai, pp. 169 – 173, May 2014.
- Balu. M., Vishnuvardhan. S., Raghava. G and Revathy. J., “Fatigue Life Evaluation of Typical Bolted Steel Structural Connections”, Proceedings of National conference on “*Futuristic Innovations & Emerging Trends In Civil Engineering - FIETCE’14*”, B. S. Abdur Rahman University, Chennai, pp.65 – 70, May 2014.
- Gunasekar and Booma. S., “Study of Pedestrian Safety & Accident Analysis on OMR Road”, Proceedings of National conference on “*Futuristic Innovation & Emerging Trends in Civil Engineering - FIETCE 2014*”, B. S. Abdur Rahman University, Chennai, pp. 93 – 96, May 2014.
- Mahalakshmi. S., Revathy. J., Ashok Raja. P and Dhilip Kumar. S., “Experimental Study on the Effect of Hybrid Fibre Reinforced High Volume Fly Ash Concrete”, Proceedings of National Conference on “*Futuristic Innovations & Emerging Trends In Civil Engineering - FIETCE’14*”, pp. 153 – 157, B. S. Abdur Rahman University, Chennai, May 2014.
- Johannes Preetham and Brinda. T. N., “Placement of Solar Panels Made Easy (Using BIM)”, Proceedings of National conference on “*Futuristic Innovation & Emerging Trends in Civil Engineering - FIETCE 2014*”, B. S. Abdur Rahman University, Chennai, pp. 88– 92, May 2014.
- Sowmya Meenakshi. S and Brinda. T. N., “Feasibility Study For the Construction of Luxury Apartments”, Proceedings of National conference on “*Futuristic Innovation & Emerging Trends in Civil Engineering - FIETCE 2014*”, B. S. Abdur Rahman University, Chennai, pp. 97 – 101. May 2014.
- Gobi. M., Suresh. B., and Roopa. V., “An Investigation of the Heat Generated and Spontaneous Ignition of Disaster Waste Generated In Chennai”, Proceedings of National Conference on “*Futuristic Innovation & Emerging Trends in Civil Engineering - FIETCE 2014*”, B. S. Abdur Rahman University, Chennai, pp. 174 – 181, May 2014.
- Naveen Kumar. M and Manoj Kumar. C., “A Study and Analysis of Bot Project Performance Using Time Impact Analysis”, Proceedings of National Conference on “*Futuristic Innovation & Emerging Trends in Civil Engineering*”, FIETCE 2014, B. S. Abdur Rahman University, pp. 75 – 84, Chennai, May 2014.
- Dhileepan. K and Jagadeesh. K., “A Study on Earthquake Resistant Sustainable Structures”, Proceedings of National Conference on “*Futuristic Innovation & Emerging Trends in Civil Engineering - FIETCE 2014*”, B. S. Abdur Rahman University, Chennai, pp. 71 – 74, May 2014.
- Nazeer Ahamed. A. S., Jagadeesh. K., “Developing a Safety Culture Model for Construction Industries in Chennai”, Proceedings of National conference on “*Futuristic Innovation &*

*Emerging Trends in Civil Engineering - FIETCE 2014*, B. S. Abdur Rahman University, Chennai, pp. 102 – 105, May 2014.

- V. Vandhana Devi, E. Shankar and Hisbu Rahman, “A Study on the sustainable management of e-waste using 4 R’s”, National Conference on Green Technology, Environment Engineering & Ethics organized by Arupadai Institute of Technology, March, 2014.

### SPONSORED RESEARCH (ONGOING / APPLIED)

Sl. No.	Principal and Co-Principal Investigator	Funding Agency & Amount	Project Title	Amount (Rs.)	Status
1.	Dr. J. Revathy	DST - SERB	Seismic Retrofitting of Prestressed Concrete Beams Externally Bonded with Fibre Reinforced Polymer Composites	17.04	Ongoing
2.	Dr. P. Gajalakshmi (P.I), Dr. J. Revathy (Co.I)	Ministry of Earth Sciences, Delhi	“Seismic Performance of FRP Confined Concrete Filled Steel Tubular Columns”	29.10	Ongoing
3.	Dr. M. S. Haji Sheik Mohammed (P.I), Dr. V. Murugesan (Co. I), Dr. U. Sabura Banu (Co. I)	Department of Science and Technology – SERB	“Development and Performance Evaluation of Eco-friendly Anticorrosive Coating for Steel rebars used in Concrete”	-	Presented before PAC on 06.02.14 at NIT, Suratkal. Revised Proposal sent during June 2014 – Awaiting for Results
4.	Dr. M. V. Molykutty (P.I), Mr. N. Maharajan (Co.I), Ms. K. Kanmani (Co.I)	NRDMS – DST	“Study of the Impact of Desalination Plant on Coastal Erosion, Bay of Bengal Coast, Tamil Nadu	-	Presented before PAC on 22.12.14 at Birla Institute of Scientific Research, Jaipur.
5.	Mr. N. Maharajan (P.I), Ms. S. Krithika Priyadarshini (Co.I)	NCSTC – DST	“Scientific Innovations to Protect the Environment”	-	Proposal Sent
6.	Dr. M. V. Molykutty (P.I) Mr. N. Maharajan (Co. I) Ms. K. Kanmani (Co.I)	NRDMS – DST	Winter/summer school on “Application of Remote sensing and Geographical Information System in Environment and Infrastructure Management”	-	Proposal Sent



## **INTERNATIONAL VISIT**

- Dr. Vasanthi Padmanabhan, Professor visited Santa Clara University and Stanford University, California during her personal visit to USA during October 2014. During her visit she interacted with the professors in the above Universities and also has visited the various Civil Engineering Laboratories like Geotechnical Laboratory, Fluid Mechanics Laboratory, Soil Laboratory and Strength of Materials Laboratory. She also had discussed various research activities going on in the department.

## **INDUSTRY INSTITUTE COLLABORATION**

- ✘ Department of Civil Engineering is involved in the joint research work on "Development of PSWC bars for durable construction" along with IIT, Kanpur, Nirma University and M/S. Engineering Services International, Kolkatta. (Co-ordinator : Dr. M.S. Haji Sheik Mohammed, Professor)
- ✘ Dr. Anil K. Kar, CEO, M/S. Engineering Services International, Kolkatta acted as External Supervisor for Ms. Aarthy, M.Tech. Student. (2014-15)

## **ACHIEVEMENTS OF STAFF**

- Dr. V. Vandhana Devi, Asst. Prof. (Sr. Gr.) obtained her Ph.D. degree from College of Engineering, Guindy on 05<sup>th</sup> November 2014.

## **ACHIEVEMENTS OF STUDENTS**

- ★ The project on "Low Cost Air Cooler" by Mr. M. Mohamed Sultan and Mr. M. Mohamed Arshed (III year B.Tech.) was selected for finals in the PALS4 Innovation Challenge Competition organized by IIT, Madras. (February 2015). Mentor: Dr. V.Vandhana Devi, Asst. Prof. (SG)
- ★ Around 60 students successfully completed one month internship in various industries such as M/S. Mahindra Consulting Engineers, M/S. ECCI (P) Ltd., M/S. Govis Infrastructure, M/S. Allied Investments etc. (During May - June 2015)

## **DEVELOPMENTAL ACTIVITIES**

- Servo Controlled Hydraulic Actuator of capacity 5 ton was purchased at a cost of Rs. 16.04 lakhs for Structural Engineering Laboratory financially supported by Ministry of Earth Sciences, New Delhi.
- Data Acquisition Systems was purchased at a cost of Rs. 4 lakhs for Construction Materials and Technology Laboratory
- It is proposed to purchase GIS Software Licenses at a cost of Rs. 7.5 Lakhs for GIS and Geology Laboratory.
- Shake Table and Models worth Rs.5 Lakhs was purchased for Structural Engineering Laboratory.

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- Data Acquisition Systems was purchased at a cost of Rs. 4 lakhs for Construction Materials and Technology Laboratory
- GIS Software Licenses was purchased at a cost of Rs. 7.5 Lakhs for GIS Laboratory.

## SOCIETY ACTIVITIES

- A National Level Technical Symposium “CIVICLAN 2015” was organized on 29th January 2015, Dr. P. Paramasivam, Professorial Fellow, National University of Singapore, inaugurated the event and delivered a special lecture on “Innovative Applications of Ferrocement”. More than 600 students participated in the Symposium.
- Activities of Indian Concrete Institute (ICI) – Student chapter was inaugurated on 25<sup>th</sup> November 2014. Around 100 P.G. students of M.Tech. Structural Engineering and Construction Engineering & Project Management; and faculty members participated.
- Society of Civil Engineering organized two days workshop on "Principles of Bridge Design and Model Fabrication. during 13-14, November 2014.

## TESTING & CONSULTANCY

- An amount of Rs. 1,14,050/- is generated through material testing, consultancy and conduct of training programme..

Sl. No.	Date of Report	Name of Organization	Test Details	Faculty Involved	Amount
1.	22.04.14	M/s. Chennai School of Ship Management	Training for 16 Marine Cadets in S.M. Laboratory on 16.04.14 & 17.04.14	Dr. M. S. Haji Sheik Mohammed Dr. J. Revathy Dr. P. Gajalakshmi Mr. A. K. Kaliluthin	24,000.00
2.	20.06.14	M/s. RDS Projects	Testing of Aggregates	Dr. M. S. Haji Sheik Mohammed Mr. S. Shafeer Ahamed	7,500.00
3.	09.07.14	M/s. RDS Projects	Testing of Aggregates	Dr. M. S. Haji Sheik Mohammed Mr. S. Shafeer Ahamed	8,000.00
4.	21.07.14	Dr. R. Ramesh	Compressive strength test on concrete cubes	Dr. M. S. Haji Sheik Mohammed Mr. S. Shafeer Ahamed	750.00
5.	21.07.14	M/s. Chennai School of Ship Management	Training for 14 Marine Cadets in S.M. Laboratory on	Dr. M. S. Haji Sheik Mohammed Dr. P. Gajalakshmi	16,800.00

			17.07.2014 & 18.07.2014	Mr. S. Shafeer Ahamed	
6.	12.10.14	T.P. Ramaswamy Pillai Trust, Chennai	Renovation of Nalwar Mandapam, Tanjore	Dr. M. S. Haji Sheik Mohammed Dr. P. Vasanthi	15,000.00
7.	28.11.14	Mr. J. Santhanam (Building Material Supplier)	Testing of Bricks	Mr. A. K. Kaliluthin	1,500.00
8.	Ongoing	Jamia Masjid Trust	Upgradation of Jamia Masjid build during 1880	Dr. M. S. Haji Sheik Mohammed Dr. P. Vasanthi A.T. Manikandan	15,000.00
9.	Ongoing	Lakshmi Ammal Engg. College	Flexural Testing of RCC Beams	Dr. J. Revathy Dr. P. Gajalakshmi	10,500.00
8.	Ongoing	M/S. Buhari Facilities Management	Rehabilitation & Facelift of Buhari Buildings, Chennai	Dr. M. S. Haji Sheik Mohammed Dr. P. Vasanthi Dr. J. Revathy S. Shafeer Ahamed	15,000.00 (Phase I)
<b>Total</b>					<b>1,14,050.00</b>

- Dr. M. S. Haji Sheik Mohammed, Professor & Head and Dr. P. Vasanthi, Professor executed a consultancy work for Renovation of Nalwar Manadapam, A temple at Karanthattankudi, Thanjavur and the amount generated is Rs. 15,000/- (November 2014).



- Dr. M. S. Haji Sheik Mohammed, Professor & Head, Dr. P. Vasanthi, Professor and Mr. A. T. Manikandan, Asst. Prof. involved in a consultancy work pertaining to upgradation of Jamia Masjid – Old Mosque building constructed during 1880. (In Progress).



## IMPORTANT VISITORS

- Dr. Manu Santhanam, Professor, Building Technology & Construction Management Division, IIT, Madras
- Dr. Sivakumar Munuswamy, Adjunct Faculty, Florida Atlantic University, USA.
- Dr. Ravindra Gettu, Professor, Building Technology & Construction Management Division, IIT Madras.
- Dr. Anil K. Kar, CEO, M/S. Engineering Consultant Services, Kolkata
- Dr. P. Paramasivam, Professorial Fellow, National University of Singapore
- Dr. R. Velraj, Director, Institute for Energy Studies, Anna University.
- Prof. A.R. Santhakumar, Emeritus Professor, IIT, Madras.
- Dr. K. Muthumani, Chief Scientist & Head, A Star Laboratory, SERC, Chennai.

## ANY OTHER INFORMATION

Models Prepared by U. G. and P. G. students such as Dr. Abdur Rahman Bridge, Rahath Manzil – Prefabricated House, Zero Energy Building – B. S. Abdur Rahman IT Park, Water Treatment Plant, Innovative Air Cooling System, Innovative Solid Waste Management System, Model on Soil liquefaction Phenomenon and Types of Foundation were displayed in the event Open House Cum Exhibition on 9<sup>th</sup> & 10<sup>th</sup> January 2015 in Chennai and 23<sup>rd</sup> – 24<sup>th</sup> in Madurai.



## SPECIAL LECTURES BY GUEST SPEAKER

- Dr. Anil K Kar, CEO, Engineering & Consultancy Services, Kolkata delivered special lecture on “Durability of Concrete Structures” on 5<sup>th</sup> May 2014.(FIETCE 2014)
- Dr. R. Velraj, Institute for Energy Studies, College of Engineering, Anna University, Chennai delivered a special lecture on “Passive Cooling With and Without Thermal Storage – An Option for Buildings of the Future” on 6<sup>th</sup> May 2014. (FIETCE 2014).
- Mr. D. Sudhakar, National Water Consultant, Vedanta delivered a technical lecture on "Large Scale Sea Water Reverse Osmosis, Desalination and Water Treatment Process" on 28<sup>th</sup> October 2014.
- Prof. A. R. Santhakumar, Emeritus Professor, IIT Madras, delivered technical lecture on “Modern seismic response control concepts for protection of structures”. (ICSRCS'15)

## **GUEST LECTURE DELIVERED BY FACULTY**

- Dr. M.S. Haji Sheik Mohammed, Professor delivered a invited talk on “Recent Trends in Corrosion Protection of Steel Rebars in Concrete” in the National Symposium on COMBATING CORROSION, VIT, Chennai Campus, 3-4, March, 2015.
- Dr. M.S. Haji Sheik Mohammed, Professor delivered a technical lecture on “PSWC-bars for Improved Seismic Performance of RCC Structures” in the National workshop on Innovative Concepts for Seismic Response Control of Structures (ICSRCS-15), B.S. Abdur Rahman University, 11-12, February, 2015.
- Dr. J. Revathy, Professor delivered a technical lecture on “Seismic Retrofitting Techniques using FRP Composites” in the National workshop on Innovative Concepts for Seismic Response Control of Structures (ICSRCS-15), B.S. Abdur Rahman University, 11-12, February, 2015.
- Dr. P. Gajalakshmi, Associate Professor delivered a technical lecture on “Structural Performance during Earthquake and Performance based Seismic Design” in the National workshop on Innovative Concepts for Seismic Response Control of Structures (ICSRCS-15), B.S. Abdur Rahman University, 11-12, February, 2015.
- Dr. M. S. Haji Sheik Mohammed, Professor delivered a lecture on “Durability Enhancement of RCC Structures – Corrosion protection of Steel in Concrete” at PET Engineering College, Valliyoor, 27th October 2014.
- Dr. P. Gajalakshmi, Associate Professor delivered a lecture on “Basics of Dynamics and Aseismic Design” at TJS Engineering College, Chennai, 12th August 2014.
- Dr. J. Revathy, Professor delivered a lecture on “Basics of Dynamics and Aseismic Design” at TJS Engineering College, Chennai, 12th August 2014.
- Dr. S. Suriya, Asst. Prof. delivered a Guest lecture on “Flood mapping – Application of GIS emphasis on flood mapping” for MLOs and JLOs of Public Works Department, Chennai.
- Dr. P. Vasanthi, Professor delivered a lecture about “Shallow Foundations” at DMI College of Engineering, Chennai, 5th August 2014.
- Dr. M. V. Molykutty, Professor delivered a keynote lecture on “Waste Water Treatment using reed beds”, National Conference on Eco-friendly Methods in Water Treatment NSEMWT – 2014, at Jeppiar Engineering College, Chennai, 31st July 2014.



## **SCHOOL OF MECHANICAL SCIENCES**

- **Dept. of Mechanical Engineering**
- **Dept. of Aerospace Engineering**
- **Dept. of Automobile Engineering**
- **Dept. of Polymer Engineering**





**DEPARTMENT OF  
MECHANICAL ENGINEERING**



# MECHANICAL ENGINEERING

## TRAINING PROGRAMMES OFFERED

Career Development Training program for the employees of Ford India (24 numbers of team leaders) till June 2014.

## CONFERENCES / FDP / SEMINARS / WORKSHOPS CONDUCTED

### Symposium

- Organized a one day intra- department symposium “MECHFEST 2014” on 11<sup>th</sup> April 2014
- Organized a one day inter college symposium “REFRAC 2014” on 26<sup>th</sup> April 2014

### Faculty Development program

- A Faculty development programme on Engineering Graphics was conducted for one week during July 2014 for our faculty. Dr. Siddhi Jilani was the coordinator and senior faculty of the department were the resource persons.
- A Faculty Development Programme on Engineering Mechanics was organised by the department for the internal faculty during Dec. 22 to 27, 2014. Mr. Mohammed Raffiq coordinated the programme in which Dr.M.Murugan, Dr.R.Rajendran, Mr.T.Venkatesan, Mr. Sathish Kumar, Mr. S. Jeavudeen and Mr. Mohammed Raffiq were the resource persons.
- A workshop on Fluid Mechanics Lab was organised by the department for the internal faculty during Dec. 22 to 23, 2014. Ms. Mahaboob E Afshan coordinated the programme in which Dr.M.Murugan, Dr.R.Rajaraman and Ms. Mahaboob E Afshan were the resource persons.

## CONFERENCES / FDP / SEMINARS / WORKSHOPS ATTENDED

### Conferences

S. No	Author	Paper Title	Name of the Conference	Place	Date
1	A. Arockia Julias, Vela Murali	Effect of Carbon Fiber Position on the Impact Behaviour of Glass/Carbon Fiber Hybrid Composite Laminates	International Conference on Modelling, Optimization and Computing	Noorul Islam University	10 <sup>th</sup> to 11 <sup>th</sup> of April 2014
2	P.D.Jeyakumar	Roll over analysis of bus body structure	International Conference on Modelling, Optimization and Computing	Noorul Islam University	10 <sup>th</sup> to 11 <sup>th</sup> of April 2014
3	Haider Nasreen, S. Beer Mohamed, S. Rasool	Microstructural Analysis and Wear Behavior of	International Mechanical Engineering Congress - 2014	National Institute of Technology, Tiruchirapalli	13th to 15th June 2014

	Mohideen.	Cryogenically Treated Ti-6Al-4V Alloy			
4	S. Jeavudeen, M. Murugan, Felix Prabhu	Influence of process parameters on Electrical Discharge Machining	International Conference on Recent Trends In Engineering, Technology & Management	Mount Zion College of Engineering, Pathanamthitta, Kerala	5 <sup>th</sup> July 2014
5	S.B.Mohamed	Microstructural Analysis and Wear Behavior of Cryogenically Treated Ti-6Al-4V Alloy	International Mechanical Engineering Congress	National Institute of Technology, Tiruchirapalli	13-15th June 2014
6	V.I. Semenov, L.Sh. Shuster, S.-J. Huang, P.-Ch. Lin, R. Rajendran	Commercially pure copper and low-alloyed chrome bronze in tribological contact with graphite ferrous material	Machines, Technologies, Materials	Bulgaria	17.9.14 to 20.9.14
7	J Purushothaman Shaju K Albert, R Ramaseshan and R Rajendran, <b>received the BEST PAPER AWARD</b>	Investigation of Al-Si alloy coating on RAFM steel substrate by hot dip aluminizing methods	International Symposium for research Scholars on Metallurgy, Materials Science and Engineering	IIT Madras	11.12.14 to 13.12. 14.
8	M. Pervaz Ahmed, H. Siddhi Jailani and S. Rasool Mohideen	Effect of Cryogenic Treatment on copper Beryllium Alloy	Advances in Design & Manufacturing	NIT Tiruchirapalli	5.12.2014 to 7.12.2014

### Seminars / Workshops / FDPs

- Dr. R. Rajendran and Mr. S. Loganathan, Participated in the program “Reverse Engineering Technology for Domain knowledge” in SAEINDIA during 19<sup>th</sup> to 21<sup>st</sup> June 2014.
- Mrs. Mahaboob E Afshan and Mrs. Anna Gowsalya attended a guest lecture on Green Buildings
- Mr. Syed Shaul Hameed attended a one day workshop on Labview DAQ at Coimbatore
- Dr. R. Rajendran, attended a National Conference on “Condition Monitoring” at CVRDE on 18th & 19th Dec 2014.
- Mr. T.R. Tamilarasan participated in a training course on “Corrosion Prevention and Control” organized by IIT Madras on 12<sup>th</sup> and 13<sup>th</sup> September 2014.
- Dr. S. Prince Arockia Doss and Dr. R. Rajendran participated in the workshop on “Building capacity in education leadership” organized by Deakin University and Education matters on 11<sup>th</sup> and 12<sup>th</sup> August 2014.
- Dr. S. Prince Arockia Doss participated in the USIEF sponsored workshop on “Knowledge management and innovation for higher educational institutions” organized by NIT Tiruchirappalli on 25<sup>th</sup> and 26<sup>th</sup> July 2014.

## PAPERS PUBLISHED/ PRESENTED IN JOURNALS & CONFERENCES

National Conference	International Conference	National Journal	International Journal	Total
-	3	-	8	11

## DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES

### International Journal

1. Muralidharan. V. V. Sugumaran and V. Indira, Fault diagnosis of monoblock centrifugal pump using SVM, Engineering Science and Technology, Vol 17, pp 152-157, 2014
2. Beer Mohamed. S., Microstructural Analysis and Wear Behavior of Cryogenically Treated Ti-6Al-4V Alloy, Applied Mechanics and Materials, Vol 592-594, pp 1331-1335, 2014
3. Kaviyarasu. K , E. Manikandan, P.Paulraj S.B. Mohamed and J.Kennedy, One dimensional well-aligned CdO nanocrystal by solvothermal method, Journal of Alloys and Compounds, vol 593, pp 67-70, 2014
4. Sideky. A. and S.B.Mohamed, Effect of temperature on the electrical properties of Zn<sub>0.95</sub>M<sub>0.05</sub>O (M=Zn,Fe,Ni), Materials Science-Poland, vol 32(1), pp 16-22, 2014
5. Muralidharan. V, S.Ravikumar, and H.Kanakasababathy, Condition monitoring of Self aligning carrying idler (SAI) in belt-conveyor system using statistical features and decision tree algorithm, Measurement, vol 58, pp 274-279, 2014
6. Varun kumar. A, M. Balasrinivasan and K. Balachander, Numerical analysis of flow stress and temperature distribution of friction stir welded aluminium alloy 6063 –O, IOSRD International Journal of Engineering, vol 1.1, 1-8, 2014.
7. Haider Nasreen, S. Beer Mohamed and S. Rasool Mohideen, Microstructural Analysis and Wear Behavior of Cryogenically Treated Ti-6Al-4V Alloy, Applied Mechanics and Materials, Trans Tech Publications, Vols. 592-594 (2014), pp 1331-1335, 2014
8. Sathish Kumar. R, K. Suresh Kumar, R. Velraj Optimization of biodiesel production from Manilkara zapota (L.) seed oil using Taguchi method, Fuel, Vol. 140, 15 pp 90 – 96, 2015

### International Conference

1. Jeavudeen. S, M. Murugan and Felix, Prabhu, Influence of process parameters on Electrical Discharge Machining, International Conference on Recent Trends In Engineering Technology & Management, Mount Zion College of Engineering, July 2014.
2. Semenov. V.I, L.Sh. Shuster, S.-J. Huang, P.-Ch. Lin and R. Rajendran Commercially pure copper and low-alloyed chrome bronze in tribological contact with graphite ferrous material Machines, Technologies, Materials Bulgaria, Sep 2014.
3. Purushothaman. J, Shaju K Albert, R Ramaseshan and R Rajendran, Investigation of Al-Si alloy coating on RAFM steel substrate by hot dip aluminizing methods,

International Symposium for research Scholars on Metallurgy, Materials Science and Engineering IIT Madras, December 2014.

### SPONSORED RESEARCH (ONGOING / APPLIED)

S. No	Principal and Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1.	Dr. S. Beer Mohammed	UGC-DAE CSR –Kalpakkam Node	Effect of Al on Ti-Al-N, Cr-Al-N, Zr-Al-N coatings	Rs 2.5 lakhs	Ongoing
2	Dr. R. Rajendran	UGC DAE CRS	Wear behaviour of duplex coated steels	Rs 2.53 lakhs	Ongoing

### BOOK PUBLISHED

S.No.	Title	Authors	Publisher/ISBN	Edition
1	Manufacturing Technology-II	Dr. S. Sundaravalli	A.R.S. publications, ISBN: 978-81-920301-9-7	Sixth edition
2	Applied Thermodynamics and Fluid Dynamics	Dr. S. Sundaravalli	Lakshmi publications	First Edition

### ACHIEVEMENTS OF STAFF

- Dr. S. Beer Mohamed presented a lecture titled Nano Technologies for solar application in the MNRE Sponsored Technical Seminar “Next Generation Technologies for sun-wind energy conversion” on 28<sup>th</sup> February 2014 at National Engineering College, Kovilpatti.
- Dr. M. Murugan delivered a lecture in the workshop “Evaluating programme educational objectives & programme outcomes” on 21<sup>st</sup> Jan 2014 at BSAU.
- Dr. R. Rajendran, delivered a lecture on “Teaching Methods in Material Science and Engineering” in the FDP on Materials & Metallurgy at Anand Institute of Technology, Chennai on Dec. 03, 2014.
- Dr. V. Muralidharan, delivered a guest lecture on ‘Balancing of Reciprocating Masses’ at Velammal Engineering College, Chennai on 19.09.2014.

### ACHIEVEMENTS OF STUDENTS

- A team of 25 students from SAE club has attended a virtual BAJA 15 event and got selected for final event (car race) to be held at pithampur.
- A group of 20 students from all the year combined and developed the Baja vehicle for the all India SAE competition .
- A Group of 10 students from the third and final year developed the Gokart vehicle .
- Mr. Obaid ashraf shah of final year presented a poster and participated in the metallography contest at the 68<sup>th</sup> annual technical meeting of the Indian Institute of Metals conducted at the College of Engineering, Pune during 12<sup>th</sup> to 15<sup>th</sup> November 2014.

- Mr. MD Shoukath Ali S, Naveed Ahmad and Mohammed Zubair Afzal secured second place in the water rocketry event organised by Velammal Institute of Technology, Chennai on 20<sup>th</sup> September 2014.

### **Student Publications**

<b>S. No</b>	<b>Author</b>	<b>Title</b>	<b>Name of the Journal/Vol/Page No.</b>
1	K. Kaviyarasu, E. Manikanda, P. Paulraj, S. B. Mohamed and J. Kennedy	One dimensional well-aligned CdO nanocrystal solvothermal method	Accepted for Publication in Journal of Alloys and compounds (2014)
2	Sideky, and S. B. Mohamed	Effect of temperature on the electrical properties of $Zn_{0.95}Mn_{0.05}O$ (M=Zn, Fe,Ni)	Accepted for Publication in Materials Science Poland. Issue 1 (2014)

### **DEVELOPMENTAL ACTIVITIES**

- Automotive Electronics Lab was established
- A new CAD Lab was established by the department .
- The department had initiated purchase of ANsys University wide licence with research modules in multi physics, high frequency analysis and electromagnetics
- Major equipments were purchased for the development of Metallurgy lab, Material testing lab, Dynamics lab and Heat Transfer lab
- Dr. Vasudevan, Scientist at IGCAR delivered a guest lecture in the topic “Tig Welding “ for the Mechanical students of BSAU on 05.11.2014.
- Dr. Srinivasan, Scientist at IGCAR delivered a guest lecture in the topic “Fatigue of metals” for the Mechanical students of BSAU on 06.11.2014.

### **INDUSTRY / INSTITUTE COLLABORATION**

- Ford Training program is continued
- The part time B.Tech. program for the staff members of Apollo Tyres is in progress.

### **SOCIETY ACTIVITIES**

- Organized MECHFEST 2014 on 11<sup>th</sup> April 2014: Intra-department symposium
- Organized REFRACTION 2014 on 26<sup>th</sup> April 2014: Inter college symposium
- Students attended a guest Lecture on “Opportunities for HVAC Engineers” on 26<sup>th</sup> April 2014
- ISHRAE students attended a one day workshop on 13<sup>th</sup> February 2014
- Confluence 2015, a symposium was held on 30<sup>th</sup> January 2015. Over 250 students from various engineering colleges all over India participated.

- The activities of SAEINDIA Collegiate Club conducted during the period June-Dec 2014 are given below

SI.No	Name of the event	Targeted Group	Date
1	SAEINDIA Student Convention Tier 1 events <ul style="list-style-type: none"> <li>• Modelling and Animation</li> <li>• Analysis</li> <li>• Aeromodelling</li> </ul>	Mechanical Engineering students	Sep 06, 2014
2	Aero Modelling Workshop	I and II Year Mechanical Engineering students	Sep 06, 2014
3	Pro e modeling of BAJA Roll Cage	II Year Mechanical Engineering students	Sep 13, 2014
4	SAEINDIA Student Convention Tier 1 events <ul style="list-style-type: none"> <li>• Paper Presentation</li> </ul>	Mechanical Engineering students	Sep 13, 2014

### EXTENSION ACTIVITY CONDUCTED

- Dr. R. Rajaraman, acted as Chairman for the Paper Presentation in the Energy Session of the 2<sup>nd</sup> International Conference on “Emerging Trends in Energy and Environment (ICETEE)” held during 9-10 January 2014, organized by Sri Sairam Engineering College, Chennai.
- Mrs.Haider Nasreen and Mr. R. Sathish Kumar, is an Expert member for the Induction Training Programme organised by BSAU during June 2014.

### IMPORTANT VISITORS

- Professor Libor Matejka from Czech republic visited our Department on 30.04.2014 and delivered a guest lecture on Polymer nano composites.
- Mr.D. Balaji, Shree SRB & Associates, HVAC Project Service Consultant, Founder member ISHRAE – Chennai Chapter visited our department on 13<sup>th</sup> February, 2014 for an workshop
- Dr. V. Sankaranarayanan, President, ISHRAE visited our department on April 26<sup>th</sup> 2014 for presenting a guest lecture
- Dr. R. Velraj, Professor and Director, IES, Anna University, visited our department on 6<sup>th</sup> May 2014 to discuss about the progress of research work done by our faculty.
- Dr.N.Gowrishankar, Director, Group Materials Research, IP Rings Ltd Maraimalainagar visited the department on Dec. 23, 2014 for discussion of the ongoing research projects carried out by our research scholars.



**DEPARTMENT OF  
AEROSPACE ENGINEERING**



# AEROSPACE ENGINEERING

## CONFERENCES/FDP/SEMINARS/WORKSHOPS CONDUCTED

**March 2014:** A one day national seminar on “Recent Advances in Flow Measurements and Test Techniques “ was conducted by the Department of Aerospace Engineering in association with the Aeronautical Society of India, Chennai branch on March 14, 2014. The Chief Guest was Prof. V. Kanagarajan, Chairman, Aeronautical Society of India, Chennai branch. The expert speakers were Prof. G. Jagadeesh, IISc, Bangalore, Prof. S.R. Chakravarthi, IITM, Chennai, Dr. G.K. Suryanarayana, NAL, Bangalore and Mr. G. Rajeev, NAL, Bangalore.



Chief Guest, Prof. V. Kanagarajan delivering the key note address



Vice Chancellor Prof. Tareen presenting a memento to Prof. Kanagarajan



Prof. Jagadeesh delivering his lecture



Prof. Chakravarthy explaining PLIF/PIV techniques

## CONFERENCES/FDP/SEMINARS/WORKSHOPS ATTENDED

- Mr. Mohammad Fazlur Rahman, Asst. Prof. attended the two day seminar on ‘Computational Aerodynamics’ conducted by M. S. Ramaiah University of Applied Sciences, Bangalore on 12<sup>th</sup> and 13<sup>th</sup> of September 2014.
- Mr. Mohammad Fazlur Rahman, Asst. Professor, workshop on ‘Pedagogy for Effective Use of ICT in Engineering Education’ conducted by IIT Bombay and National Mission on Education through ICT (MHRD) in two phases from 12<sup>th</sup> to 14<sup>th</sup> June and from 24<sup>th</sup> to 26<sup>th</sup> July 2014.

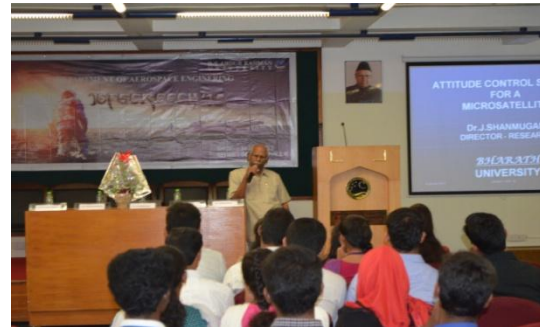
## DEVELOPMENTAL ACTIVITIES

- Computational fluid dynamics & structural simulation lab was established and made operational in the odd semester (July – Dec) 2014.

- MIL Standard Data Bus – 1553 B was added to the Avionics Lab in the odd semester 2014.

## INDUSTRY/INSTITUTE COLLABORATION

- Third year students of the Department of Aerospace Engineering visited 'INS Rajali' – Naval Air Station, Arakkonam, as part of the industrial visit program on January 20, 2015.
- Second year students of the Department of Aerospace Engineering visited Air Force Station, Tambaram, as part of the industrial visit program on January 29, 2015.
- Mr. Arunagiri, former General Manager of HAL helicopter division, delivered a guest lecture on “Advances in Helicopter Technology” on October 10, 2014.
- Mr. Arunachalam, Scientist (Retd.), ISRO Satellite Center, Bangalore, delivered a guest lecture on “Mangalyan – India’s First Mission to Mars” on October 14, 2014.
- Mr. T.K. Sundaramurthy, former Mission Director (Geo Satellite), ISRO Satellite Center, Bangalore, delivered a guest lecture on “Basics of Orbits & Spacecraft Mission Operations” on January 21, 2015.
- Dr. Nisha Mohan, post-doctoral fellow at the University of Texas, Arlington, USA, gave a guest lecture on “Tensegrity Structures” on November 6, 2014
- The Department of Aerospace Engineering organized a one day national level technical symposium – JetScreech'15 as part of the Crestech celebrations on January 30, 2015.



**DEPARTMENT OF  
AUTOMOBILE ENGINEERING**



# AUTOMOBILE ENGINEERING

## CONFERENCES / FDP / SEMINARS / WORKSHOPS CONDUCTED

- An invited lecture on Engine Design was delivered by Mr. Ranganthan ( Deputy Manager, Ashok Leyland on 11<sup>th</sup> March 2014.
- Special lecture was conducted on July 14<sup>th</sup> 2014 , Adapting to higher education to motivate to Automobile students , Speaker – Dr. M. Subramanian , Professor &Head.
- Guest lecture on Vehicle Maintenance and projects area in automobile engineering organized on 11<sup>th</sup> August 2014 . Dr. Shah Dupesh Khan, Chief Executive officer from shaheel Honda was the guest speaker.
- Seminar on Off road vehicle was organized on 20<sup>th</sup> September 2014. Mr. Venugopal scientist and advisor to DRDO from CVRDE was the guest speaker.
- One day seminar workshop on Vehical Dynamics was organized on 11<sup>th</sup> October 2014. Mr. M. Sathish, Divisional Manager from Ashok Leland, Mr. L. Subramanian , Manager from Mahindra and Mr. K. Sethu Baskran General Manager from M/S FORD were the guests of speakers .
- The intercollegiate student symposium Auto hunt 2015 was organized on 31 st January 2015. Mr.K.Madhivanan, DGM from Delphi TVS India Pvt. Ltd was the chief guest for inauguration, Dr. C. Senthil Kumar Assistant Professor from Madras institute of Technology was the guest for valedictory function. .



## CONFERENCES / FDP / SEMINARS / WORKSHOPS ATTENDED

- New faculty members (Dr. K. Prabu, Mr. C. Dineshkumar, Mr. C.K. Arvinda Pandian, Mr. D. Saravanakumar, Mr. N. Rajmohan) attended the Faculty induction training program for a period of 5 days from 30<sup>th</sup> June to 4<sup>th</sup> July .2014=
- Dr. K. Prabu has attended the Engineering Graphics 5 days workshop at conducted in Mechanical Department at B.S.A.U. on July 2014.
- J. Allen Jeffrey ,Dr.M. Subramanian, “A Comparative Study on performance and emission parameters of Neem oil Biodiesel blends and HHO supplementing Neem oil Biodiesel blend in a single cylinder compression ignition engine”, International Journal of Science, Engineering and Technology Research (IJSETR) Vol.3, Issue.4, pp. 699 -704, April 2014

- Mr. S. Karthikeyan Assistant Professor has attend the conference program on 11<sup>th</sup> & 12<sup>th</sup> July 2014 in Phuket, Thailand Topic: “Unsteady flow around a triangle wedge”
- Mr. S. Karthikeyan has attended the Basic Engineering Mechanics 5 days workshop at conducted in Mechanical Department at B.S.A.U on 22.12.2014 to 27.12.2014.

### PAPERS PUBLISHED/ PRESENTED IN JOURNALS & CONFERENCES

National Conference	International Conference	National Journal	International Journal	Total
4	3	-	2	9

### DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS CONFERENCES:

#### International Journal

- J. Allen Jeffrey ,Dr.M. Subramanian, “A Comparative Study on performance and emission parameters of Neem oil Biodiesel blends and HHO supplementing Neem oil Biodiesel blend in a single cylinder compression ignition engine”, International Journal of science, Engineering and Technology Research (IJSETR), Vol.3, Issue.4, pp.699 -704, April 2014
- B. Cijil John., Dr.M. Subramanian, “Study of performance, emission and combustion parameters of a direct injection diesel engine using Eucalyptus and nerium biodiesels as fuel, International journal of science, engineering and technology research”, International Journal of science, Engineering and Technology Research (IJSETR), Vol.3, Issue.4, pp.692-698, April 2014

#### International Conferences

- Cijil B John., N.S. Senthur, Dr.M. Subramanian, “Experimental Investigation of performance emission and combustion characteristics of eucalyptis amd nerium biodiesel on a direct injection diesel engine”, International conference on recent trends in Engineering & Technology – 2014 at Oxford Engineering College, 1<sup>st</sup>March 2014
- Allen Jeffrey, Dr. M. Subramanian, “Analysis of oerformance and emission parameters of HHO supplementing Neem oil Biodiesel in a single cylinder compression Ignition engine”, International conference on Recent Trends in Engineering & Technology 2014, at Oxford College of Engineering, 1<sup>st</sup> March 2014
- Manirao Ramachandrarao, Karhikeyan selvaraj, George Arokiasamy, “Unsteady flow around a triangle wedge”, International conference on Mechanical, Civil, and Material Engineering, 11th & 12th July 2014



## **SPECIAL RESEARCH LABORATORIES CREATED:**

Research laboratory setup is initiated in December 2014. Purchase order raised towards the Computer based water cooled diesel engine test rig with eddy current dynamometer.

## **DEVELOPMENTAL ACTIVITIES:**

- ❖ New lab facilities being created for the following laboratory, Engine Testing lab, Vehicle maintenance lab, Engine components lab, Fuels & lubricants lab.
- Engine Testing laboratory was started in August 2014. Gas Analyzer was purchased.
- Vehicle maintenance laboratory was started in August 2014. Engine Analyzer, Wheel Alignment & Tyre Remover was purchased.
- Engine components laboratory was established in August 2014. Components like engines and subsystem are purchased
- Planning to establish the Fuels & Lubricants laboratory and purchase process is ongoing.
- Planning to develop Automotive electronics laboratory and purchase process is ongoing.

## **INDUSTRY / INSTITUTE COLLABORATION:**

- ❖ Summer Training / Internship programme Programme In Trans Car India Private Limited Mercedes – Benz Volkswagen and Mahindra for final year Automobile Engineering students during summer vacation (May – June 2014) for a Period 50 – 60 days.
- ❖ Industrial visit to Ashok Leyland, Ennore plant on 14<sup>th</sup> August 2014 for Automobile Engineering Third and Final year students was organized .
- ❖ Internship programme in Abra motors, Volkswagen and Zulaikha motos for final year students towards summer internship training was arranged from 19<sup>th</sup> June 2014 to 23<sup>rd</sup> June 2014.
- ❖ Industrial visit to TAFE product Training centre, for a group of 60 students from final year & second year and 2 faculty members was organised on 8<sup>th</sup> October 2014.



## **SOCIETY ACTIVITIES:**

1. An invited lecture on Engine Design was delivered by Mr. Ranganthan (Deputy Manager, Ashok Leyland) on 11<sup>th</sup> March 2014.
2. The Society inauguration was organized by Crescent Society of Automotive Engineers was held on 23<sup>rd</sup> August 2014. The Chief guest for the program was Mr.



Robin Roy, Manager Simulation and testing Modaine thermal india pvt. Ltd.

3. Seminar – Off road vehicle was organized on 20<sup>th</sup> September 2014. Mr. Venugopal scientist from CVRDE were the chief guests of honour.
4. One day seminar workshop Vehical Dynamics was organized on 11<sup>th</sup> October 2014. Mr. M. Sathish, Divisional Manager from Ashok Leland, Mr. L. Subramanian , Manager from Mahindra and Mr. K. Sethu Baskran General Manager from ford were the chief guests of honour.

5. The intercollegiate student symposium Auto hunt 2015 was organized on 31 st January 2015. Mr. K. Madhivanan , DGM from Delphi TVS India Pvt. Ltd, Dr. C. Senthil Kumar Assistant Professor from Madras institute of Technology were the chief guests of honour.



6. A team of 25 students and 1 faculty participated in Electric Solar Vehicle Championship (ESVC) Virtual event on 30<sup>th</sup> October organized by Imperial society of innovative engineers(ISIE) They cleared the virtual round with standing of 16<sup>th</sup> position out 49 teams.



of

7. Second, Third and final year students and 2 faculty members participated in GO kart championship competition on 26<sup>th</sup> January to 29<sup>th</sup> January in Coimbatore organised by Imperial society of Innovative engineers (ISIE) got the best faculty advisor award.



8. Third and final year students along with mechanical engineering students designed and fabricated an All TERRAIN VEHICLE (ATV) to take part in competition at Pitampur, Madhyapradesh organised by society of automotive engineers(SAE) .

## MoUs SIGNED

MOU was signed with Shabeel Honda (Honda Two wheeler dealer) on 24.09.2014 .The chief executive officer Dr. Shah Dupesh khanof shabeel honda and Dr. V. Murugesan Registrar signed the MOU to promote Industry Academic activities in BSAU. Dr. Shah Dupesh khan presented one guest lecture on 11.08.2014 on project areas in Automobile Enggineering to final year students . Shabeel Honda actively participated in Open House Exhibition and Symposium (AUTO HUNT 2015). Shabeel Honda carried out campus Recruitments for Final year Automobile students on 09.03.15 .Four students are selected.

## EXTERNAL ACTIVITY

Showcasing 31 years of excellence in education an OPEN HOUSE programme was conducted during 9<sup>th</sup> & 10<sup>th</sup> January 2015 in Chennai and 24<sup>th</sup> & 25<sup>th</sup> at Madurai. Students projects and Models were displayed.



## IMPORTANT VISITORS

- ❖ Mr. Robin Roy from Manager Simulation and testing Modaine thermal india Pvt. Ltd
- ❖ Mr. M. Sathish from Divisional Manager from Ashok Leyland
- ❖ Mr. L. Subramanian Manager from Mahindra
- ❖ Mr. K. Sethu baskaran General Manaer from FORD
- ❖ Mr. Venugopal CVRDE scientist from CVRDE
- ❖ Mr. K. Madhivanan , DGM from Delphi TVS india Pvt. Ltd
- ❖ Dr. C. Senthil kumar Assistant Professor from Madras institute of Technology



**DEPARTMENT OF  
POLYMER ENGINEERING**



## POLYMER ENGINEERING

### VALUE ADDED PROGRAMMES STARTED

Diploma Programme on Composite Technology has been started.

### CONFERENCES / FDP / SEMINARS / WORKSHOPS ATTENDED

- Following faculty members attended 2 days National conference entitled "Recent Advances in Materials-NCRAM'14" in our university during Sep 3rd & 4th 2014.
  - Mrs. J.Shahitha Parveen
  - Mrs. S.Vijayarani
  - Mrs .R.Daulath Banu
  - Ms.K.P.Sindhu
  
- Mrs. S.Vijayarani and Ms.S.Shamshath Begum has attended one day workshop on Recent Practices in Chemical and Pharmaceutical Industries organized by the department of Chemical Engineering held at SSN college of Engineering, Chennai on 19<sup>th</sup> September 2014.
  
- Following faculty members attended 2 days Fluid Mechanics workshop in our university during 23<sup>rd</sup> & 24<sup>th</sup> Dec 2014.
  - Mrs. S.Vijayarani
  - Mrs .R.Daulath Banu
  - Ms.K.P.Sindhu
  
- Ms.S.Shamshath Begum has attended the state level workshop conducted by SRM school of Teacher Education and Research, SRM University on 20<sup>th</sup> Dec 2014.

### PAPERS PUBLISHED/ PRESENTED IN JOURNALS & CONFERENCES

National Conference	International Conference	National Journal	International Journal	Total
2	3	-	4	9

### DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES:

1. S.Vikram, M.Dhakshnamoorthy, R.Vasanthakumari, A.R. Rajamani, Murali Rangarajan, Takuya Tsuzuki, "Tuning the Magnetic Properties of Iron Oxide Nanoparticles by a Room-Temperature Air-Atmosphere (RTAA) C0- Precipitation Method", Journal of Nanoscience and Nanotechnology /14 / 1-9 & 2014.

- Mukundan Dorairajan, Vasanthakumari Raju, "Basic Analytic parameters of Atovastatin Calcium IP (Atroveen-10) granular, compressed and film - coated tablets", Journal of Biomedical Sciences / 1 / 39-49 / 2014.
- M.Dhakshnamoorthy, S.Vikram R.Vasanthakumari, "In-Situ Preparation and Characterization of Acid Functionalized Single Walled Carbon Nanotubes with Polyimide Nanofibers", Journal of Nanoscience and Nanotechnology / 14 / 5011-5018 & July 2014.
- N. Jaya Chitra R.Vasanthakumari Syed Amanulla, "Preliminary Studies of the Effect of Coupling Agent on the properties of Spent Coffee Grounds Polypropylene Bio-Composites", International Journal of Engineering Research and Technology / 7 / 9-16 & Nov 2014.

### SPONSORED RESEARCH (ONGOING / APPLIED)

S. No.	Principal and Co-Principal Investigators	Funding Agencies	Project Title	Status
1.	Dr.S.S.M.Abdul Majeed	DRDO	Low loss and high shock absorbing potting materials for microwave applications	Ongoing
2.	Dr.S.S.M.Abdul Majeed	DST	Novel polymeric electrolyte from chemically modified polyvinylidene fluoride and polyethylene oxide for rechargeable lithium battery	Ongoing
3.	Dr.R.Vasanthakumari & R.Daulath Banu	DRDO	Development of Oil Absorbing Polymer Product for Efficient Removal of Oil Spills in Sea Water.	Ongoing
4.	Dr.R.Vasanthakumari & Mr. D.Muralimanohar	DST	Conducting carbon metal nanocomposite from yard waste (waste leaves) for electrode and capacitor applications.	Applied

### BOOK PUBLISHED

Book Title	Name of the Principal author / Co-author	Name of the Publisher	Publisher's address	ISBN / ISSN Number of the book	Year of Publication of first edition
Nanomaterials : science, technology and applications	R.Vasanthakumari & I B Shameem Banu (B S A University)	Transtech Publications, Ltd.	Transtech Publications, Ltd, Switzerland	ISSN 1022-6680 ISBN-13:978-3-03835-098-9	2014
	Takuya Tsuzuki (Australian National University)				
	Abdul Hadi (UiTM, Malaysia)				



## PATENTS (OBTAINED / APPLIED)

Title of the patented work	Inventor (or) Assignee	If it is a joint patent, give the names of the co-assignees	Filing date
A new process for preparation of self reinforced thermoplastic micro and nanofiber polyamide composite system	R.Vasanthakumari	Ms R Gayathri , Mr Muthusubramaniam & Mr Kaviarasan	29.9.14 & application number 4834/CHE/2014

## ACHIEVEMENTS OF STUDENTS

### Paper Presentation

S.No	Author	Paper Title	Name of the conference	Place	Date
1	P.Sanmuga Priya, J Malarvizhi - III year	Received 1 <sup>st</sup> prize for the paper titled "Development and characterization of flame retardant flexible PU foam"	Chemfluence'14	A.C.Tech, Anna University, Chennai	25 <sup>th</sup> Feb - 1 <sup>st</sup> Mar 2014
2	M.H.Mahmood Ali Ismail and B. Yasar Arafath - IV Year	Received 1 <sup>st</sup> Prize for the Paper titled "A Study on Flame Retardant Characteristics of Melamine in Flexible Polyurethane Foam"	CHEMFLUX'14- National level Technical Symposium	SRM University	11 – 12 Mar, 2014
3	M.H.Mahmood Ali Ismail and B. Yasar Arafath - IV Year	Received 1 <sup>st</sup> Prize for the Project display titled "Flame Retardant Characteristics in Flexible Polyurethane Foam"	CRESONANCE 2K14	B.S.Abdur Rahman University	13 <sup>th</sup> Mar, 2014
4	P.Sanmuga Priya, J Malarvizhi -III year	Received 1 <sup>st</sup> prize for the paper titled "Development & characterization of EPDM/Silicone Nanocomposite for high voltage insulation".	Elastoplaz 2014	MIT, Chennai	29 <sup>th</sup> - 30 <sup>th</sup> Mar 2014
5	K.Mohamed Aejaaz and Mohamed Idris - III <sup>rd</sup> year	Received 1 <sup>st</sup> prize for the paper titled "Development of Biocomposite film for Food Packaging"	Pansophy, National level Technical Symposium	Sri Venkateswara College of Engineering	6 <sup>th</sup> Sep 2014.
6	P.Thilagarajan, S.Srivatsan and R. Saravanan - III <sup>rd</sup> year	Received II <sup>nd</sup> prize for the paper titled "Polycarbonate blends with recycled – PET"	Pansophy, National level Technical Symposium	Sri Venkateswara College of Engineering	6 <sup>th</sup> Sep 2014.
7	P.Thilagarajan, S.Srivatsan and R. Saravanan - III <sup>rd</sup> year	Received 1 <sup>st</sup> prize for the poster titled "THERMOSET-THERMOPLASTIC BLENDS FOR AUTOMOBILE INDUSTRY"	ELASTOPLAST TECHNICAL SYMPOSIUM	Madras Institute of Technology	23 <sup>rd</sup> Jan 2015.

## Sports

S.No.	Student Name	Event	Name of the Tournament	Date	Total Participation
1)	J. Malarvizhi & Amaya. K.	Ball badminton	Received 4 <sup>th</sup> place in the First all India level inter University Womens Ball badminton, ICF	12 -13 July 2014	18
2)	J. Malarvizhi & Amaya. K.	Ball badminton	Received 3 <sup>rd</sup> place in the SRM Founders Trophy, SRM University, Chennai	30 <sup>th</sup> Aug – 1 <sup>st</sup> Sep 2014	25
3)	J. Malarvizhi & Amaya. K.	Ball badminton	Received 3 <sup>rd</sup> place in the Inter University Women Ball badminton, B S Abdur Rahman University, Tamil Nadu	26-30 Dec 2014	80

## DEVELOPMENTAL ACTIVITIES

The following equipment were purchased in Polymer Nanotechnology centre

Equipment Name	Description	Amount Rs.	Suppliers Name & Address
"INDFURR" High Temperature Inert Atmosphere Furnace	Hot zone area: 75mmx 300mm Maximum Temperature:1400°C	1,47,156	M/s.INDFURR SUPER HEAT FURNACES, CHENNAI
"INDFURR" Hot press compressing of hydraulic press	Maximum Temperature : 800°C	2,72,510	M/s.INDFURR SUPER HEAT FURNACES, CHENNAI

## IMPORTANT VISITORS

- Dr.S.Ramkumar, Assistant Professor, Texar Tech University, USA visited polymer nano center on 24<sup>rd</sup> Oct 2014.

## ANY OTHER INFORMATION

### 1) Special Lectures

#### ▪ Special Lectures Delivered by Guest

- Mr.Kulandaivelu Palanisamy, Sr.Engineer, Valeo India Pvt Ltd,Chennai, delivered a lecture on "Mold Flow Analysis in Polymer Industries and R & D", on 18<sup>th</sup> Mar,2014.
- Mr.Mohammed Ismail Khan and Mr.Raman Kumar Jayaraman from SIGMASOFT presented on "Design and Process Integrated Injection Molding Simulation" in our University on 8<sup>th</sup> Sep 2014.

- Mr.K.Sankar from Shree Renga Polymers, Karur presented on “Recycling PET Bottles” in our University on 10<sup>th</sup> Nov 2014.

### ▪ **Special Lectures Delivered by Faculty**

- Dr.R.Vasanthakumari, invited as Chief Guest and delivered a lecture on “Polymer Membranes for water purification” at Easwari Engineering College on Sep 24<sup>th</sup>, 2014.
- Dr.R.Vasanthakumari delivered a lecture on “Nanomaterials in Rubber Applications” in the Nano seminar organized by Apollo Tyres on 12<sup>th</sup> July 2014.
- Dr.S.S.M.Abdul Majeed delivered a lecture on “Plastics Materials” in the FDP conducted by Anand Institute of higher Technology, Chennai on 6<sup>th</sup> Dec 2014.
- Dr.S.S.M.Abdul Majeed delivered a lecture on “Composite Materials” in the FDP conducted by Anand Institute of Higher Technology, Chennai on 8<sup>th</sup> Dec 2014.

### 2) **Inplant Training Arranged**

- Industrial training was arranged for II<sup>nd</sup> & III<sup>rd</sup> Year students of PT to M/s. Apollo Tyres Ltd, during 3 - 20 June, 2014.

### 3) **Industrial Visits**

S.No.	Year	Name of the Industry	Date of visit
1.	Third & Final	Toshiba Machines Chennai Pvt.Ltd	17.9.14

### 4) **Campus Placement Record**

Mr.N.R.Sudharsan final year B.Tech. Student got placement in M/s.Harita Fehrer (TVS Group) through campus placement and Mr. Sankar Rajendra Pillai got placed in Amaron Battery Pvt. Ltd.

### 5) **Participation in Sports**

Sl. No.	Student Name	Event	Name of the Tournament	Date	Total Participation
1	J. Malarvizhi	Ball badminton	Women Jetzz Match, St.Josephs Engineering College, Chennai	1-3 March 2014	15
2	J. Malarvizhi	Ball badminton	Silver Jubilee Founders Trophy, B.S. Abdur Rahman University, Chennai	13- 14 March 2014	8
3	J. Malarvizhi & Amaya. K.	Ball badminton	Received 4 <sup>th</sup> place in the First all India level inter University Women Ball badminton, ICF	12 -13 July 2014	18
4	J. Malarvizhi & Amaya. K.	Ball badminton	Received 3 <sup>rd</sup> place in the SRM Founders Trophy, SRM University, Chennai	30 <sup>th</sup> Aug – 1 <sup>st</sup> Sep 2014	25
5	J. Malarvizhi & Amaya. K.	Ball badminton	Received 3 <sup>rd</sup> place in the Inter University Women Ball badminton, BSA University	26-30 Dec 2014	80

## 6) Important Photographs of the Department Activities



Dr.R.Vasanthakumari, as Chief Guest in Easwari Engineering college



Special Lecture by Mr.K.Sankar from Shree Renga Polymers, Karur



# **CRESCENT SCHOOL OF ARCHITECTURE**



# CRESCENT SCHOOL OF ARCHITECTURE

## TRAINING PROGRAMMES OFFERED:

Practical training given to students of 4<sup>th</sup> year by the registered Architects. Students get acquainted with practical knowledge of Architecture.

## CONFERENCES / FDP / SEMINARS / WORKSHOPS CONDUCTED:

- Ar. M.Shanthini (Asst Prof) and Ar. Parvathi M (Visiting Faculty) Organized a two day hands on workshop on bricks by Er.Rajendran Ex president of FACEAT for the subject AR B 1204 Building Technology II on 24<sup>th</sup> and 25<sup>th</sup>February 2014 .



- Environmentalist Ms Shoba Menon has organized seminar on Environmental Awareness on 3 March 2014.
- Er. N.J.L.RAMESH has given a seminar cum lecture on Advancement in composite structures on 18<sup>TH</sup> March 2014.
- HVAC Consultant, ETA. Mr.Yuvaraj presented a seminar on HVAC systems in the building on 19<sup>th</sup> September, 2014.

## CONFERENCES / FDP / SEMINARS / WORKSHOPS ATTENDED:

- Ar.Tripura sundari, visiting faculty, attended the National workshop on the use and conservation of stone conducted by INTACH, INTACH HERITAGE ACADEMY on 12<sup>th</sup> & 13<sup>th</sup> September, 2014.

## PAPERS PUBLISHED/ PRESENTED IN JOURNALS & CONFERENCES:

National Conference	International Conference	National Journal	International Journal	Total
-	2	-	4	6

**DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES:**

S. No	Author	Paper Title	Name of the conference	Place	Date
1.	K.Yogeswari , Dr. E. Rasul Mohideen	Study of Traffic for Sustainable transportation using image processing	International conference on advances in Civil, Structural, Environmental & Bio-technology (CSEB - 14)	Kualalumpur, Malaysia	08-09 march 2014
2.	Ar. Ummulkhair Shabana	Concepts for Climate proofing- Sustainable Architecture	International conference on latest trends in Civil, Structural , Environmental and Infrastructure Engineering	Chennai India	08-09 march 2014

**Journal**

S.No	Author	Title	Name of the Journal/Vol/Page No.& Date
1.	Ar. Sona.S	Landscape Maintenance and Practices – A Sustainable Approach for Safeguarding the future of Urban Landscapes	International Journal of Research in Engineering & Technology (IMPACT : IJRET) Vol.2 / Issue 4 / Pages - 5-12 / April 2014
2.	Er. K. Yogeswari, Dr.E.Rasul mohideen	Sustainable Road Layout Design For Liveable Area (Tambaram) With the Aid Of Fuzzy LogicSystem	Journal of Theoretical and Applied Information Technology, 20th May 2014. Vol. 63, No.2, Page no 381-396
3.	Er. K. Yogeswari, Dr.E.Rasul mohideen	Study of traffic for sustainable transportation using image processing	International Journal of Advances in Image Processing Techniques– IJPT, Volume 1 : Issue 2 [ISSN : 2372-3998] Publication Date : 25 June 2014 page no -12- 16
4.	Ar. M.Shanthini	A Study on Exploration of visitor's responses to encroached Heritage sites.- A case study of Madurai.	International Journal of Engineering Research & Technology (IJERT) on March 2014.

**SPECIAL RESEARCH LABORATORIES CREATED:**

Initiated purchase and installation of weather station worth Rs, 1,20,000/- (One lakh twenty thousand only) for Climatology lab during February 2014.



## **ACHIEVEMENTS OF STAFF:**

Ar.Tripura sundari, Visiting faculty, conducted an exhibition titled The social history of Anna nagar – NAM veedu NAM oor NAM kadhai as part of Madras day – 21<sup>st</sup> Aug, 2014 celebrations. The exhibition was a 3 day event (21<sup>st</sup> – 23<sup>rd</sup> Aug, 2014) participated by 500 visitors.

## **ACHIEVEMENTS OF STUDENTS:**

- Membership for CSA is given in NASA on 21<sup>st</sup> June 2014 after a presentation was made by unit secretary, Mr.Dhanaseelan in the 1<sup>st</sup> council meet @ SMVDU, Jammu.
- Students of CSA, Abdul subhan, Saranga. N and Dolphin David Lazarus won second prize in short film making during ZONASA held at Hindustan University, Chennai in 29<sup>th</sup> June 2014.
- Students of CSA Sagarika & Divya shortlisted in the final panel discussion conducted in SRM University during 20<sup>th</sup> – 21<sup>st</sup> September, 2014. Also, students - won the ON THE SPOT events such as Etch a sketch – 1<sup>st</sup> prize by Dhana & Kishore , Product design – 2<sup>nd</sup> prize by Princy, Afeefah & Sneha & Face mask – 1<sup>st</sup> prize by Princy & Sneha.
- NASA Day was organized by Unit secretary Mr.Dhanaseelan & Mr.Rafiq on 13<sup>th</sup> September, 2014 in which 6 colleges have participated and 3 architects have presented their lectures.
- Students of CSA – Sneha & Harshini got 2<sup>nd</sup> prize in Face painting in a programme organized by IIA (TN chapter) during 17<sup>th</sup> – 19<sup>th</sup> October, 2014, Chennai.
- Student of CSA – Sneha got 1<sup>st</sup> prize in the Poster making in a programme conducted on World Habitat Day – 5<sup>th</sup> October, 2014 by Measi Academy of Architecture, Chennai.
- IGBC (Indian Green Building Council) student chapter was installed in the school on July 2014.

## **INDUSTRY / INSTITUTE COLLABORATION:**

- Architects who are registered with COA & IIA absorb students for practical training for 1 year and also visit BSAU & deliver expert lecture on design topics.
- Ar.Pramod Balakrishnan, Edifice Architects, Adyar, Visited BSAU as an external jury member for the urban design project done by final year students on 19<sup>th</sup> & 20<sup>th</sup> November, 2014.

## **SOCIETY ACTIVITIES:**

- 35 students of CSA have participated in the world Guinness record MY FLAG MY INDIA by representing our college on 07.12.2014.
- Students of CSA donated blood during the blood donation camp organized by the Rotary club of our University.

### **EXTENSION ACTIVITY CONDUCTED:**

- As a mandatory annual feature, an Education tour was organized for 2<sup>nd</sup> year students covering Gandhi Nagar, Ahmedabad, Mumbai, Aurangabad and Hyderabad during 10<sup>th</sup> – 22<sup>nd</sup> December 2014. Documented study report has been prepared by the students.
- Conducted a one day event titled – Iyarkai 2014 environmental awareness program. A speech by Ms.Shoba, Environmental Activist of 'Nizhal' an NGO, was organized & A tree walk around the university was lead by Ms.Shoba and students mapped the existing tree typologies.
- Rural survey was conducted by 2nd year students of CSA (Batch:2012-2017) as part of academic work at Purisai village, Thiruvannamalai District in which students sensitized the rural people to be hygienic and healthy and also gave proposals such as Primary health care centre, Cultural centre and Community hall.
- Documentation and village improvement scheme was undertaken by 3rd year students CSA (Batch:2011-2016) at P.V.Kalathur village, Chengalpattu District in which students sensitized the rural people to be hygienic and healthy and also gave proposals such as Primary health care centre, Cultural centre and Community hall.

### **IMPORTANT VISITORS:**

- Ar.Nischal, MD of PADGRO Consultants gave special lecture to 2<sup>nd</sup> year students.
- Ar.Sriram Ganapathy, MD of KSM Architects gave special lecture to 1<sup>st</sup> year students.

# **CRESCENT BUSINESS SCHOOL**



# CRESCENT BUSINESS SCHOOL

## CONFERENCES / FDP / SEMINARS / WORKSHOPS CONDUCTED

- Organized a guest lecture on “Financial Planning” for MBA – I year students on April 17, 2014 in BSAU, Chennai. Resource person for the guest lecture was Dr. Kasilingam, Reader, Pondicherry University.
- Prof. Jamal Mohammed Zubair delivered a lecture on “Value Management” for Ford Motor employees, in a Training program on April 30, 2014 in BSAU, Chennai.
- Conducted one day Workshop in College of Engineering Trivandrum, Kerala about “Corporate expectations from fresh MBA’s” on 19<sup>th</sup> May 2014.
- Conducted a workshop on “Corporate Expectation from professionally qualified students” for IV year Mechanical Engineering students of BSAU on July 2014.
- Organized placement training activities for II year MBA students by Vista Mind Consultancy on August 22 and August 25 to 28, 2014.
- Organized a guest lecture on “Competence Vs Skill- Employment in MNC’s by Dr. Rajan Ragavachari, R&D Director, Unilever, UK on August 26, 2014.
- Organized a Seminar cum Competition on Stock Market Trading named “Stock Mind Three” along with ICICI securities on August, 2014.
- Organized a guest lecture on “Industrial Relations and Labour Legislation” by Mr. S. Ethirajan, DGM HR, Flowserve India Controls Pvt. Ltd and Mr. Karthikeyan on August 27, 2014.
- Organized a guest lecture on “Best shop floor practices towards world class manufacturing” by Mr. Srinivasan Jayaraman, Management Consultant, TBM Consultancy services on August 27, 2014.
- Arranged for a guest lecture on “Inspiration to innovation and career development” by an Young Entrepreneur Mr. K Mohan on September 15, 2014.
- Organized a guest lecture on “Industrial Disputes Act 1947” by Mr. Karthikeyan Manager HR, Flowserve India Controls Pvt. Ltd on September 16, 2014.
- Organized a guest lecture on “Managerial Behaviour and effectiveness” by Mr. Tanveer Ahmed, HR Consultant, Talentra Consulting Firm, Bangalore on September 18, 2014.

- Organized workshop on “Financial Education- Investor Awareness Programme” by Prof. Ramesh Shankar, Resource person for investment planning efforts of SEBI on September 23, 2014
- Conducted FDP on “Paradigm shift in teaching and learning” in GRG School of management for women, Coimbatore on October 3- 4, 2014.
- Conducted FDP on “Introduction to outcome based teaching and learning” in CET school of management, Trivandrum on October 30 - November 1,2014
- Crescent Business School (CBS) organized a National conference on “Recent trends and challenges in Indian Business scenario” on 12<sup>th</sup> November, 2014
- CBS organized the annual management meet “Cruize 2K14” in November 18, 2014.

### **CONFERENCES / FDP / SEMINARS / WORKSHOPS ATTENDED**

- Dr. Jamal Mohamed Zubair M participated in “UGC- sponsored refresher course in Commerce and Management”, University Grants Commission Academic Staff College, University of Kerala, Kariavattom from June 5 to 25, 2014.
- Dr. L. Aravindh Kumaran participated in a two days workshop on “Knowledge Management and Innovation for Higher Education Institutions” during July 24 to 26, 2014 organised by National Institute of Technology, Trichy.
- Dr. Haider Yasmeen, Ms. N. Rajapriya, Ms. T. Rocky Devi, Ms. J .Hemalatha, Ms.S.Panboli, Ms. Kaleel Nisha, Ms.T.G. Rajeshwari, Dr. Joe Christy, Mr.Charlie Thomas.V and Research scholars attended orientation program on Emerald and Proquest organized by Library, BSAU on August 22, 2014.
- Ms. M.V. Anuradha attended one day FDP in Enterprise Resource Planning on August 22, 2014 at MNM Jain Engineering College, Chennai.
- Ms. Chandrika Srinivas attended International conference on Management and Information systems (ICMIS-14), Bangkok, Thailand during August 4-6, 2014.
- Dr. N. Anuradha attended FDP on “Commodity futures market in India” in Department of management studies Pondicherry University on September 11 & 12, 2014
- Dr. Haider Yasmeen, Dr. S.K.G. Ganesh, Dr Aravind Kumaran, Ms. J.Hemalatha, Ms.N.Rajapriya and Ms.T.Rocky Devi attended one day conclave “Global remaining: manufacturing excellence for growth and employment” organised by on November 20, 2014.

- Mr. Charlie Thomas V. attended the International conference on “Internationalization of higher education” at VIT Chennai on November 21, 2014
- Mr.Charlie Thomas V, Ms.S.Panboli and Ms.M.V.Anuradha attended five day faculty training programme on “Enterprise Architecture at BSAU conducted by SPAX systems during November 24-28, 2014
- Dr. S.K.G.Ganesh participated in one day workshop on “Brand Management” organized by DMI college of Engineering on November 1, 2014.

## **DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES:**

### **International Journal :**

- Vaishnavi, G., Ganesh, S.K.G., Charlie Thomas V., “Environmental behavior of consumers vis-à-vis customer relationship trust and loyalty: some research reflections and organizational practices, Journal of Business Studies Quarterly”, Vol. no.6, Issue no.2, 85-97, December 2014
- Jainab Zareena and Haider Yasmeen, “Employability status of Engineering graduates: A moderator study”, European Journal of Social Sciences, Vol. No. 45, Issue No. 2, pp.179 – 187, November 2014,I.F.0.010
- Anuradha N., “Does month matter calendar effect in foreign institutional investment”, Journal of Business studies Quarterly, Vol.No. 6, Issue No.1, pp.133-155, September 2014
- Nirmala Raghavan & Dr. Haider Yasmeen, ‘Components of simplified Kundalini yoga in relation to demographic characteristics’, International journal of yoga and allied sciences, Vol.No. 3, Issue No.1, pp.55-64, August 2014,
- Vaishnavi G & Ganesh S.K.G, “Correlates of perceived frustration towards Interactive Voice Response systems: A study among Mobile telecommunication service customers”, International Journal of Sales and Marketing Management Research and Development, Vol.No. 4, Issue No.3, pp.27-36, June 2014, I.F.5.3064
- Vaishnavi G & Ganesh S.K.G, “Effects of customer demographics on perceived frustration towards ‘Interactive Voice Response systems’ of Mobile telecommunication services”, Impact: International Journal of Research in Business Management, Vol.No. 2, Issue No.6, pp.13-18, June 2014, I.F.1.3423
- Jamal Mohamed Zubair M, “International Journal of Engineering and Management Research”, A study on determination of association between demographic factor and brand in Purchase decision, Vol.No. 4, Issue No.2, pp.75-77, April, 2014, I.F.0.310

## International Conference

- Dr. S. Rajamohan and Mrs. Chandrika Srinivas, published a paper on “Impact of WOM on urban women- an Indian context in the International Conference on Management and Information Systems, at Bangkok, August 4-6, 2014.
- Mrs. Chandrika Srinivas and Mr. R. Naresh, presented a paper on “Youths perception of factors influency purchase of cosmetics”, in the International Conference on Trends in Retailing and Branding, on 19<sup>th</sup> and 20<sup>th</sup> February 2015.

## **ACHIEVEMENTS OF STAFF**

- CBS has obtained A8 ranking in the Indian management- Business Standard “Best B-School survey 2014” and applied for Business today and Business outlook B- School ranking 2014 during August 2014.
- MMA student chapter was inaugurated on 4<sup>th</sup> December 2014 by group captain Vijaykumar Executive director MMA.
- Organized Human Resource Development (HRD) club on Health and Hygiene and Christmas day celebration for sweepers of BSAU on 26<sup>th</sup> December 2014.

## **IMPORTANT VISITORS**

- Dr. Senthil Arasu, Assoc Prof of Management, NITT.
- Mr. Wilson Anandaraj, PMI Ambassador
- Mr. Venkatesh Rajendran, Ex Sulekha.com, Fedex,
- Mr. George JohnVettath, MD, Kallos Solutions
- Mr. Babu, Retd. Manager, Rane Engine Valves





# SCHOOL OF PHYSICAL & CHEMICAL SCIENCES

- **Dept. of Physics**
- **Dept. of Chemistry**



# DEPARTMENT OF PHYSICS



# PHYSICS

**NEW PROGRAMMES STARTED - M. Sc., - Physics**

**CONFERENCES / FDPs / SEMINARS / WORKSHOPS CONDUCTED BY THE DEPARTMENTS**

		
<p>Workshop on Laser Technology and its applications – '14 held on 19.03. 2014</p>	<p>“Second National Conference on Recent Advances in Materials (NCRAM) -14” during 3 - 4 September 2014.</p>	<p>Open House exhibition 2015 - Chennai</p>
		
<p>CRESCIENCE-18.03.2015</p>	<p>Workshop on current developments in Physics and its applications- 19.3.2015</p>	

**PAPERS PUBLISHED / PRESENTED IN JOURNALS & CONFERENCES**

National Conference	International Conference	National Journal	International Journal	Total
0	0	0	17	17

## DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES

### INTERNATIONAL JOURNALS

- S. Kumaresan and M. Basheer Ahamed, "Single Beam Z-Scan Measurement of the Third Order Optical Nonlinearities of Styryl7 Dye,)", *Optik - International Journal for Light and Electron Optics*, 125/ 20/ 6152-6154/2014.
- Majitha Parvin and Basheer Ahamed, "Investigation of optical limiting properties of Azophloxine dye using nanosecond Z-scan technique", *International Journal of ChemTech Research/ 6/2493/2014*.
- B.Uma, K.Sakthi Murugesan, S.Krishnan, R.Jayavel and B.Milton Boaz, "Growth and characterization of a novel organic nonlinear optical material: J-alanine 2-furic acid", *Optik - International Journal for Light and Electron Optics/125/651-656/2014*.
- B.Uma, K.Sakthi Murugesan, S.Krishnan, R.Jayavel and B.Milton Boaz, "Growth, Spectral, Optical and dielectric studies on novel semiorganic NLO single crystal: D-phenylglycine hydrochloride" *Appl.Phys.B/115/215-224/2014*.
- G.Marudhu and S.Krishnan, "Optical, theoretical and Mechanical studies on sodium acid phthalate crystal", *Optik - International Journal for Light and Electron Optics/125/ 2417-2421/2014*.
- P.S.Latha Maheswari, R.Priya, S.Krishnan, V.Joseph and S.Jerome Das, "Optical, dielectric and ferroelectric behaviour on doped lithium sulphate crystals", *Optik - International Journal for Light and Electron Optics/125/ 2289-2294/2014*.
- R.Priya, S.Krishnan, S.Maheswari, G.Bhagavannarayana, V.Joseph and S.Jerome Das, "Crystalline perfection and Mechanical properties of lithium sulphate monohydrate NLO single crystal", P.S.Latha Maheswari, *International Journal of ChemTech Research/6/ 1563-1566/2014*.
- Rajagopalan Krishnan, Jagannathan Thirumalai, Govindan Shanmuganathan, Itreesh Basha Shameem Banu and Rathinam Chandramohan, "Hexamine Assisted Hydrothermal Synthesis of Eu<sup>3+</sup> Activated Na<sub>0.5</sub>La<sub>0.5</sub>MoO<sub>4</sub> Microstructures: Synthesis, Structure and Morphological Investigations" *Advanced Materials Research/ 938/9-13/2014*.
- V. Mahalingam, J. Thirumalai, R. Krishnan and R. Chandramohan, "Potential visible light emitting rare-earth activated Ca<sub>0.5</sub>Y<sub>12x</sub>(MoO<sub>4</sub>)<sub>2</sub>:xRE<sup>3+</sup> (RE 5 Pr, Sm, Eu, Tb, Dy) phosphors for solid state lighting applications", *J Mater Sci: Mater Electron / DOI.10.1007 / s10854-014-2473-2*.

- Rajagopalan Krishnan and Jagannathan Thirumalai, "Synthesis and up/down conversion luminescence properties of  $\text{Na}_{0.5}\text{R}_{0.5}\text{MoO}_4:\text{Ln}^{3+}$  ( $\text{R}^{3+}$   $\frac{1}{4}$  La, Gd), ( $\text{Ln}^{3+}$   $\frac{1}{4}$  Eu, Tb, Dy, Yb/Er) thin phosphor films grown by pulsed laser deposition technique", Royal Society of Chemistry Adv., 2014, 4, 64258.
- R. Indirajith, M. Rajalakshmi, K. Ramamurthi, M. Basheer Ahamed and R. Gopalakrishnan, "Synthesis of ZnSe Nano Particles, Deposition of ZnSe Thin Films by Electron Beam Evaporation and Their Characterization", Ferroelectrics, 467, 1, 13-21, 2014.
- R. Suriakarthick, V. Nirmal Kumar, R. Indirajith, T.S. Shyju, R. Gopalakrishnan, "Photochemically deposited and post annealed copper indium disulphide thin films", Superlattices and Microstructures, 75, 667-679, 2014.
- M.Md.Sheik Sirajuddeen, I.B.Shameem Banu, "Electronic and magnetic properties of Fe(Mn) doped Cd and Zn nitrides for spintronic applications: A first principles study", J.Mater.Sci (2014) 50: 1446-1456.
- M.Md.Sheik Sirajuddeen, I.B.Shameem Banu, "FP-LAPW investigation of electronic, magnetic, elastic and thermal properties of Fe-doped zirconium nitride", AIP Advances 4, 057121 (2014).
- R. G. Geethu Mani and M. Basheer Ahamed, "Laser performance of rhodamine B and methyl violet B base dye mixture in solid and liquid media" Journal of Nonlinear Optical Physics & Materials, Vol. 23, No. 4 (2014) 1450053 (13 pages)World Scientific Publishing Company
- U. Majitha Parvin, M. Basheer Ahamed,"Nonlinear optical properties of methyl blue dye by Z-scan technique", Optik 126 (2015) 551–553.
- S. Siva Bala Solanki, Rajesh Narayana Perumal, M. Basheer Ahamed, "Growth and characterization of 2,6-Di-tert-butyl-4-(dimethylaminomethyl)phenol single crystal by the vertical Bridgman method" Journal of Crystal Growth, Volume 411, 1 February 2015, Pages 19-23

## ACHIEVEMENTS OF STUDENTS

- Mr. V. Mahalingam, Research Scholar, department of Physics has won the Best poster award -Third place in the "International Conference on Crystal Growth and Biomolecular Crystallography" Organised by Schools of Electrical & Electronics Engineering and Chemical & Bio-technology, SASTRA University, Thanjavur, Tamilnadu, India during November 28-29, 2014.
- Mrs P. Komalavalli, Research Scholar , Dept. of Physics has got a DST WSS project titled ' Synthesis and characterization of multi ferroic nano composites for functional applications' to the tune of Rs.14.19 lacs.

## **SPONSORED RESEARCH**

- Dr. I. B. Shameem Banu, Professor, Physics, got a DST project titled “Investigation of multi ferroic properties of rare earth and transition metal doped bismuth ferrite for functional applications”.

## **IMPORTANT VISITORS**

- Dr. P. K. Palanisamy, Emeritus Professor, Anna Univ. – Guest Lecturer for WLTA 14.
- Dr. C. Vijayan, Professor, IIT Madras – Guest Lecturer for WLTA 14.
- Dr. M. S. Ramachandra Rao, Professor of Physics, IIT Madras - Invited Talk - NCRAM – 2014.
- Dr. V. N. Mani, Scientist-E (Additional Director Grade), Centre for Materials for Electronics Technology(C-MET), Department of Electronics & Information Technology, Hyderabad - Invited Talk - NCRAM – 2014.
- Dr. Arindam Das, Materials Science Division, IGCAR, Kalpakkam - Invited Talk - NCRAM – 2014.
- Dr. R. Krishnan, Materials Science Division, IGCAR, Kalpakkam - Invited Talk - NCRAM – 2014.
- Dr. P. Ramasamy, Dean (Research), SSN College of Engineering, Chennai - Invited Talk - NCRAM – 2014.



# DEPARTMENT OF CHEMISTRY



# CHEMISTRY

## CONFERENCES / FDP / SEMINARS / WORKSHOPS ATTENDED

- Dr.Vajjiravel Murugaesan attended QIP Short term course on “Advance Fluorescence Spectroscopy” organized by Department of Chemistry, IIT Kanpur, November 10-15, 2014.
- Dr.Vajjiravel Murugaesan attended the Refresher course on “Application on quantum mechanics to atoms, molecules and radiation” sponsored by Indian Academy of Sciences, Bangalore, December 8-20, 2014
- Dr. M. Asha Jhonsi has participated in the 8th Asian Photochemistry Conference ÁPC- 2014'organized by IISER jointly with CSIR-NIIST held from November 10-13, 2014 at Thiruvananthapuram, Kerala.
- Dr.S.Kutti Rani attended short term training programme on corrosion control at SRM University on 31.1.2014.
- Dr.S.Kutti Rani and Dr.Revathi purushothaman attended 3 days workshop on QEEE organized by IIT Bombay during 12<sup>th</sup> June-14<sup>th</sup> June 2014.
- Dr.S.Kutti Rani attended 2 days international conference on advances in new materials (ICAN 2014) during 20<sup>th</sup> and 21<sup>st</sup> June 2014 at Madras University by Department of Inorganic Chemistry.
- Dr.S.Kutti Rani and Dr.Revathi purushothaman attended 3 days workshop on QEEE organized by IIT Bombay during 24<sup>th</sup> July-26<sup>th</sup> July 2014.
- Dr.S.Kutti Rani attended National conference on materials for modern word(DAE – BRNS sponsored) at Easwari Engineering College during 10-11<sup>th</sup> September 2014.
- Dr.D.Easwaramoorthi ,Dr.S.Kutti Rani ,Dr.J.Herbert Mabel attended one day seminar on GCMS on 4th November 2014.
- Dr.S.Kutti Rani attended one day symposium on ‘Gender, ICT and Education’ on 28th November 2014 at Hotel My Fortune,Cathedral Road,Chennai.
- Dr.Revathi Purushothaman, attended a "Two week Workshop on Pedagogy for Effective use of ICT in Engineering education between June and August 2014 conducted by IIT, Bombay through MHRD.
- Dr.Revathi Purushothaman, attended a "2nd National conference on Recent Advances in Materials’ held on 3rd and 4th September 2014.

- Dr.Revathi Purushothaman,Dr.J.Herbert Mabel attended a "National workshop on Chromatographic techniques, conducted on 28<sup>th</sup> November 2014 by Analytical Chemistry, Madras University.
- Dr.D.Easwaramoorthy,attended a seminar on prominenece-i organised by spinco biotech pvt.ltd at hotel Hyatt Regency,Chennai on 5<sup>th</sup> August 2014.
- All the faculty of the Chemistry department attended Workshop on "Laser Technology and its Applications" conducted by Dept. of Physics on 19th March 2014
- Dr. Mahasampath Gowri, attended a workshop on Indian Road Show organized by Royal Society of Chemistry on 10th Nov'14 at IIT, Chennai
- Dr. Mahasampath Gowri, attended an International Conference on "Education in Chemistry" (ICEC -2014) at Homi Bhabha Centre for Science Education (TIFR), Mumbai from 12th Dec 2014 till 14th Dec 2014.
- Dr. Mahasampath Gowri, developed kits and prepared manual in English and Tamil and gave live demonstration on Food Adulteration in Open House Exhibition organised by B.S.A.U on 9th and 10th of January '15 at Chennai and on 23rd and 24th of Jan'15 at Madurai
- All the faculty of Chemistry department attended 2<sup>nd</sup> National conference on "Recent Advances in Materials" held on 3<sup>rd</sup> and 4<sup>th</sup> September 2014
- Revathi Purushothaman, presented paper in "Third International Conference on Polymer Processing and Characterization (ICPPC 2014)" held between 11-13<sup>th</sup> October 2014, Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, India, Low dielectric constant 3-aminopropyltriethoxysilane functionalized SBA-15 / Terpolyimide composites.
- Revathi Purushothaman, published "Functionalized KIT-6/Terpolyimide Composites with ultra-low dielectric constant", Journal of Applied Polymer Science:7136-45, (2014)
- Revathi Purushothaman, published "Development and characterization of homo, co and terpolyimides based on BPDA,BTDA, 6FDA and ODA with low dielectric constant,Journal of Polymer Engineering, 34, 9, 867-873, (2014),

#### **PAPERS PUBLISHED/ PRESENTED IN JOURNALS & CONFERENCES**

<b>National Conference</b>	<b>International Conference</b>	<b>National Journal</b>	<b>International Journal</b>	<b>Total</b>
01	06	-	20	27

## DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS CONFERENCES:

- Crystal Y. Wilson, Sathiyarayanan Velayudham, Sundar Manickam and moorthy Deivanayagam,  $\beta$  - Toly Alanine derived Schiff base complexes – Synthesis characterization and antimicrobial assessment, J. Pharm. Sci. & Res.,7,25-32,2015
- S. Shunmugakani and D. Easwaramoorthy, Mechanistic studies on  $\beta$ -cyclodextrin catalyzed oxidation of glutamine, Int.J. ChemTech Res.,07,412-419,2015
- Lekha Logu, Kanmani Raja Kamatchi, Hariharan Rajmohan, Sathish Manohar , Rajagopal Gurusamy and Easwaramoorthi Deivanayagam, In vitro antimicrobial and antioxidant evaluation of rare earth metal Schiff base complexes derived from threonine , Appl. Organometal. Chem., 2015 (in press)
- S.Chitra, D. Easwaramoorthy, Effect of divalent metal dopant on the structural and optical properties of TiO<sub>2</sub> quantum dots, Int.J.Chem Tech. Res.,2015(in press)
- S.Chitra, D. Easwaramoorthy, S. Nalini Jayanthi, S.Shanthi Structural and Optical Properties of Pure and Transition Metal Ion doped SnO<sub>2</sub> Quantum Dots, Int.J. Chem Tech Res.,6,4722-4728,2014
- L. Kanniappan, S. Kutti Rani and D. Easwaramoorthy, Oxidative decarboxylation of N-phenylglycine by Peroxomonosulphate in perchloric acid medium- catalytic effect of Cu<sup>2+</sup> and VO<sup>2+</sup> ions, Ind. Eng. Chem. Res., , 53,13302–13307,2014
- V.Sathiyarayanan, T.Vijaya Bhaskara Reddy, M.Chandru, I.Mohammed Bilal, S.Kuttirani, R.Prasanna, D.Eswaramoorthy, Stability indicating validated relaed substanceUFLC method& alkali degradation impurities characterized by LCMS for Irbesartan in bulk and pharmaceutical formulation product, J.Global Trends in Pharm.Sci, 5,1905 -1911,2014
- K.Kanmaniraja, L.Lekha R.Hariharan, D.Easwaramoorthy G.Rajagopal, Synthesis, structural, spectral, electrochemical and catalytic properties of VO(IV) complexes containing N, O donors .J Mol. Struct, 1075,227-233,2014
- L.Lekha, K.Kanmaniraja, G.Rajagopal and D.Easwaramoorthy, Synthesis, Spectroscopic characterization and antibacterial studies of Lanthanide(III) Schiff base complexes containing N, O donor atoms, J.Mol.Struct,1056–1057) 307–313,2014
- K.Kanmaniraja N.Indira Gandhi,L,Lekha D. Easwaramoorthy and G.Rajagopal, Synthesis, Spectral, Electrochemical and Catalytic properties of Ru(III) Schiff base complexes containing N, O donors, J.Mol.Struct ,1060,49-57,2014

- L.Lekha, K.Kanmaniraja, G.Rajagopal D.Easwaramoorthy, Schiff Base Complexes of Rare Earth Metal ions: Synthesis, Characterization and Catalytic Activity for the Oxidation of Aniline and substituted Anilines, *J. Organomet.Chem*,753,72-80,2014
- K. Karthikeyan, R. Senthil Kumar, P. Dheenkumar and Paramasivan T. Perumal, Solvent and catalyst free route to 3-indolyl glycoconjugates: synthesis of sugar tethered isoxazolines and isoxazoles from 3-indolynitroalkanes, *RSC Adv.*, 4, 27988–27997, 2014.
- Krishnan Devarajan, Somasundaram Devaraj, Kalpattu K Balasubramanian and shanmugasundaram Bhagavathy. An unexpected thermal [1,3]-[1,3]-para rearrangement of chromone-3-ylmethyl aryl ethers – Mechanism and applications of the intercepted [1,3]-Rearranged intermediates to the synthesis of cis-Homopterocarpanes, *Chemistry letters*(accepted).
- M.Asha Jhonsi, A. Kathiravan, “Reductive fluorescence quenching of DMP with aniline” *Journal of Luminescence* 145188-193 2014.
- M.Asha Jhonsi A. Kathiravan, “Oxidative fluorescence quenching of Mg-phthalocyanine by Quinones”, *Journal of Molecular Liquids* 188-192, 2014.
- M.Asha Jhonsi A.Kathiravan V. Srinivasan, “Light induced behavior of Xanthene dyes with benzyl viologen” *Journal of Molecular Structure* 131-138, 2014.
- Dr.M.Asha Jhonsi A. Kathiravan C. Nithya, “Probing electron transfer dynamics of pyranine with reduced graphene oxide”, *PCCP*, 4.19, 20878-20886, , 2014,.
- S. Thirugnanaselvi, S. Kutti Rani, Amali Roseline Emelda, “Effect of Schiff base as corrosion inhibitor on AZ31 magnesium alloy in hydrochloric acid solution, *Transactions of Nonferrous Metals” Society of China*, 24, 1969-1977, 2014.
- I. Mohammed Bilal, Revathi Purushothaman, Muthiapillai Palanichamy, “Functionalized KIT-6/Terpolyimide composites with ultra-low dielectric constant”, *Journal of Applied Polymer Science*, 2014 (In press).
- Revathi Purushothaman and I.Mohammed Bilal "Development and characterization of homo, co and terpolyimides based on BPDA,BTDA, 6FDA and ODA with low dielectric constant, *Journal of Polymer Engineering*, 34, 9, 867-873, (2014).
- R. Saai Harini, D. Easwaramoorthy and V. Raman presented a paper entitled Visible light photocatalytic degradation of Rhodamine 6G dye using nano bismuth titanate at 2<sup>nd</sup> international conference on Frontiers in Nanoscience and Technology Applications (FiNSTA'14)" at Sri Sathya Sai Institute of Higher Learning, Puttaparthi, Andhra pradesh during the period 20-22<sup>nd</sup> Dec 2014.
- Elumalai Marimuthu, Vajjiravel Murugesan and D Easwaramoorthy presented a paper entitled “Ultrasonic and phase transfer catalyst assisted radical polymerization of methyl methacrylate- a kinetic study” in National Conference on Advancement in Materials Science (AMS 2014) held on 26& 27th September 2014 at Department of Chemistry,Coimbatore Institute of Technology (CIT), Coimbatore .

- Revathi Purushothaman and I.Mohammed Bilal, Presented paper in "Third International Conference on Polymer Processing and Characterization (ICPPC 2014)" held between 11-13th October 2014, Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, India) Low dielectric constant 3-aminopropyltriethoxysilane functionalized SBA-15/Terpolyimide composites.
- R. Meenakshi, V. Kiran Kumar, G. Rangarao, S. Kutti Rani, D. Easwaramoorthy, I. Mohammed Bilal, Study of catalytic activity of organic-inorganic hybrid material in the oxidation of aniline and its derivatives, International Conference on Advances in New materials [ICAN 2014], Department of Inorganic Chemistry University of Madras, 20<sup>th</sup> and 21<sup>st</sup> June 2014.
- R. Meenakshi, G. Ayyanar, G. Rangarao, S. Kutti Rani, D. Easwaramoorthy, I. Mohammed Bilal, Synthesis and characterisation of silicotungstic acid encapsulated polymer grafted MCM-41, International Conference on Advances in New materials [ICAN 2014], Department of Inorganic Chemistry University of Madras, 20<sup>th</sup> and 21<sup>st</sup> June 2014.
- M. Chandru, V. Sathiyarayanan, Crystal Y. Wilson, D. Easwaramoorthy, Synthesis, characterisation and antimicrobial assessment of transition metal-amino acid Schiff base complexes, International Conference on Advances in New materials [ICAN 2014], Department of Inorganic Chemistry University of Madras, 20<sup>th</sup> and 21<sup>st</sup> June 2014.
- D. Somasundaram, Synthesis of allyl aryl ethers of glycols via Ullmann coupling, 27<sup>th</sup> International Carbohydrate Symposium (ICS27), Department of Organic Chemistry, Indian Institute of Science, Bangalore, 12<sup>th</sup> to 17<sup>th</sup> January 2014.

### Guest Lecture Delivered

- Dr.D.Easwaramoorthi, delivered a guest lecture on “ Applications of spectroscopy and also the role of spectra” on 9<sup>th</sup> October 2014, on its premises at valliammai engineering college, kattankolathur.
- Dr.I.Mohammed Bilal delivered a Guest Lecture on “Carrier Guidance” at Vinayaka Vidyalaya Matriculation Hr.Sec.School, Salem on 28<sup>th</sup> September 2014.
- Dr.S.Kutti Rani delivered a Guest Lecture on “Save Food Save Earth” to the students of Crescent school, Vandalur for getting International award certificate on 24<sup>th</sup> January 2014.
- Dr.S.Bhagavathy delivered an invited lecture on the Emerging Trends in Glycoscience and glycol-technology (An international satellite symposium) organized by Department of chemistry, IIT, Delhi on 8-10<sup>th</sup> January 2014.

### Papers Reviewed

- Dr. Revathi purushothaman, reviewed 1 paper for Journal of Applied Polymer Science, John Wiley International,
- Dr. D. Easwaramoorthy, reviewed 2 papers for Journal of Applied Polymer Science, Spectrochim Acta,

## DETAILS OF IMPACT FACTOR OF THE PUBLICATION H-Index

a) RANGE	:	1-4
b) AVERAGE	:	2.5
c) h-INDEX	:	9

### SPONSORED RESEARCH (ONGOING)

S. No	Project Title	Funding Agencies	Principal and Co-Principal Investigators	Amount (Rs)
1.	A non enzymatic enantioselective design in the Wittig reactions and its applications in the total synthesis of caprolactonis potential antineoplastic agents of marine origin	DST WOS-A	Dr. S. Mahasampath Gowri	6.24
2.	A novel access to indolizidine and quinolizidine alkaloids through stereoselective N-tethered intramolecular cyclopropanation of pyridone	DST-SERB	Dr. J. Elangovan	48.7
3.	Zeozymes as biomimetic catalysts for the treatment of organic pollutants	CSIR	Dr.D.Easwaramoorthy Dr.S. Kutti Rani Dr.I.Mohammed Bilal	13.21
4.	Development of COF silica/polyimide composites with low dielectric constant for microelectronic applications	DST-SERB	Dr. Revathi Purushothaman	23.5
5.	Diastereoselective Intramolecular Cyclopropanation of Enol Ethers Derived from Amino Acids: A Novel Access to Aza-C-Glycosides	CSIR	Dr. J. Elangovan	13.7
6.	Bismuth Titanate Quantum Dots for Photovoltaic Application	DST-WOS-A	Ms. R. Saai Harini Dr.D.Easwaramoorthy (mentor)	10.2
7.	Applications Of Gold Catalysis For The Synthesis Of Bioactive Heterocyclic And Natural Product Mimic	DST-SERB Fast Track for Young Scientists	Dr.K.Karthikeyan	19.66
8.	Synthesis, characterization and optimization of Quantum Dots on TiO <sub>2</sub> surface for solar cells	DST-SERB Fast Track for Young Scientists	Dr. M.Asha Jhonsi	19.76
9.	Development of Graphene-SrTiO <sub>3</sub> based hybrid photocatalytic system for the production of solar fuels	DST-SERB Fast Track for Young Scientists	Dr. Noor Aman Ahrar Mundari	25.98
10.	Synthesis of novel LBG polymer materials for solar cell applications	DST-SERB Fast Track for Young Scientists	Dr. M. Vajjiravel	23.78



### Projects Submitted:

Investigators	Funding Agency	Duration	Title	Amount (lakhs)
Dr. S. Bhagavathy	CSIR	Jul. 2013	Synthesis of N-thiolated 4-biaryl $\beta$ -lactams as potential antibacterial agents and or $\beta$ -lactmase inhibitors	29.57
Dr. S. Kutti Rani Dr. D. Easwaramoorthi Dr. I. Mohammed Bilal	CSIR	Jan. 2014	Application of polyoxolometalates as heterogeneous catalyst for organic transformations	20.20
Dr. M. Vajjiravel	BRNS Young Scientist Research Award	Jan. 2014	Synthesis and photovoltaic properties of D-A-copolymers based on alkyl substituted pyrene fused with selenophene and furan as donor unit	17.00
Dr. J. Herbert Mabel Dr. V. Murugesan	DST-SERB	Feb. 2014	Synthesis of metal organic frameworks for oxidative catalysis	34.00
Dr. D. Easwaramoorthy Dr. S. Hemalatha	DST-SERB	Feb. 2014	Synthesis and characterization novel nicotinamide derivatives: Efficacy in controlling human bacterial pathogens and plant fungal pathogens	83.00
Dr. S. Mahasampath Gowri  Dr. S. Hemalatha	DST-SERB	Feb. 2014	Synthesis of transcriptional modulators (spiro isoxalidines synthesis through 1,3-dipolar cycloaddition methodology) and their application in neuro degeneration and Alzheimer's: Identification of pathways and targets	90.18
Dr. J. Elangovan	DST-SERB (EEQES)	Feb. 2014	Diastereoselective synthesis of $\delta$ -lactones through Intramolecular cyclopropanation of enolethers	62.57

### ACHIEVEMENTS OF STAFF

Dr.A.Shajahan, obtained his Ph.D Degree from Bharathidasan university, Tiruchirapalli.

### ACHIEVEMENTS OF STUDENTS

- **Ph.D. awarded**

Ms. L. Lekha, Research Scholar of B.S. Abdur Rahman University, under the supervision of Dr. D. Easwaramoorthy, defended her Ph.D. viva-voce on 16.10.2014 (Title of the Thesis: Studies on the synthesis, characterization and antimicrobial applications of rare earth metal Schiff base complexes).

- **Ph.D. Thesis Submitted**

Ms. S. Chitra and Ms. S. Shunmugakani (Research Scholars of BSA Crescent Engineering College), under the Supervision of Dr. D. Easwaramoorthy, submitted their thesis in Anna University on 29<sup>th</sup> December 2014 and 31<sup>st</sup> December 2014 respectively.

## DEVELOPMENTAL ACTIVITIES

- **Project Presented at the Department Level**

Dr. D. Easwaramoorthy presented DST-FIST Level-1 Project (Department of Science Technology-Funds for Improvement of Science and Technology and Infrastructure Level-1) at the Department Level for an amount of Rs. 3.2 crores on 22<sup>nd</sup> September 2014 in Indian Academy of Science, Bangalore.

## SOCIETY ACTIVITIES

Our PG students association namely Alkemia has conducted five guest lectures during the academic year. The Details are given below.

- Dr.Tarasankar Pal, IIT KHARAGPUR-on Nano materials 08-12-2014
- Dr.Yoshihiro Sugi, Gifu University, Japan-on Catalysis 10-10-2014
- Dr.Josi Sonoda, Microtech Bel Group, Surface Analysis JAPAN-10-10-2014
- Mr.Moorthy, Micromeritics, India on Surface area Analyser 16-05-2014
- Mr.Dheeraj Handique, Assistant manager, Analytical India Pvt.ltd., Alkemia association organized a state level seminar on chemtune for the third year B.Sc students on 21<sup>st</sup> January 2014.
- The department conducted state level symposium, CRESCIENCE for the first year B.E/B.Tech students on 28<sup>th</sup> Febraury 2014, Science day.



# **SCHOOL OF LIFE SCIENCE**



# SCHOOL OF LIFE SCIENCES

## NEW PROGRAMMES STARTED

- B.Tech Biotechnology
- B.Tech Cancer Biotechnology
- B. Tech Food Biotechnology

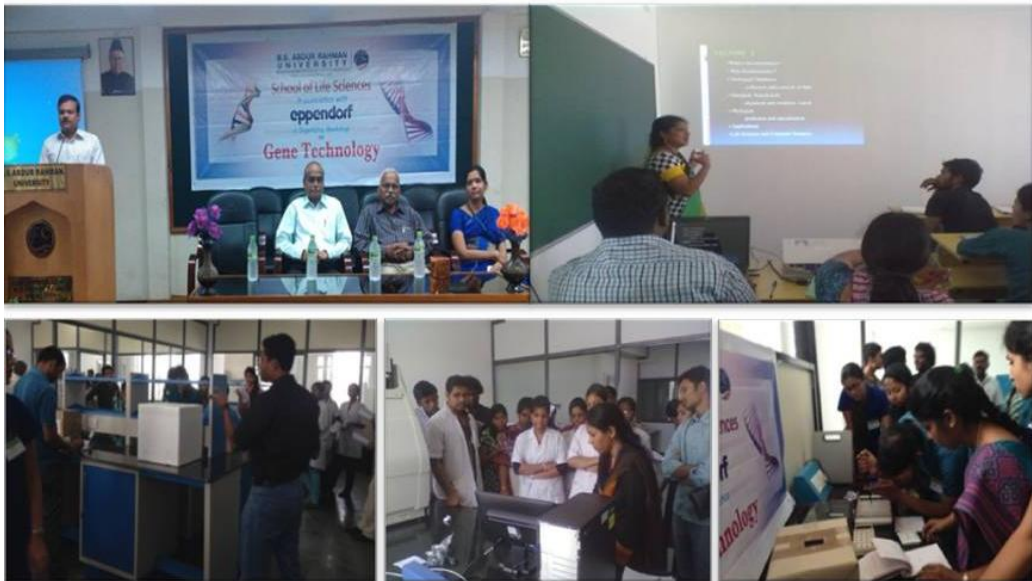
## VALUE ADDED PROGRAMMES STARTED

- Diploma in molecular diagnostics
- PG diploma in molecular diagnostics
- Diploma in Genomics
- PG diploma in Genomics
- Diploma in Gene Technology
- PG diploma in Gene Technology
- Diploma in Medical Laboratory technology (DMLT)
- PG diploma in Medical Laboratory technology (PGDMLT)

## CONFERENCES / FDP / SEMINARS / WORKSHOPS CONDUCTED

### Workshop on Gene Technology : Module I-Gene amplification

The School of Life Sciences in association with Eppendorf, Germany organized National level workshop on gene technology Module:1 Gene Amplification on March 01-02, 2014



**Workshop on Gene Technology : Module: 2 Analysis of Gene Expression**

The School of Life Sciences in association with Eppendorf, Germany and Biorad, USA, organized National level workshop on gene technology Module:2 Analysis of Gene Expression during May 21- 22, 2014.



**Workshop on Gene Technology: Module III- Molecular Cloning**

The School of Life Sciences in association with Eppendorf, Germany organized National level workshop on gene technology Module:3 Molecular Cloning on August 20 -22 2014



**Workshop for College Teachers on Recent Advances in Biological Sciences, November 7, 2014**



**Workshop for Biology Teachers (schools) on Recent Advances in Biotechnology and Cancer Biotechnology, November 8, 2014**



## Workshop on chemoinformatics and drug designing

This workshop was held for the undergraduate students on 5-7, February 2015. This workshop is designed to train undergraduate students in chemo informatics and drug designing. This workshop was conducted in 6 batches and each batch includes 30 students.



## CONFERENCES ORGANIZED

### International Conference on Applications of Gene technology: June 5 & 6 2014

The conference was inaugurated by Padmasri Prof.J.A.K Tareen, Vice-Chancellor, B.S.Abdur Rahman University and he emphasized the importance of interdisciplinary team work and application oriented research for the benefit of the society. The Guests of Honour Dr.Samarjit Das, Johns Hopkins University, USA and Dr.Raji Sudararajan from Purdue University, USA delivered special address in the conference highlighting the importance of gene technology in the coming years.





**International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015) on the 2<sup>nd</sup> and 3<sup>rd</sup> of March 2015.**

The School of Life Sciences at B.S.Abdur Rahman University (BSAU), Vandalur, Chennai, has organized an International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015) on the 2<sup>nd</sup> and 3<sup>rd</sup> of March 2015. This Conference focused on Diabetes and the associated complications. The event focused on Diabetic retinopathy, Diabetic foot ulcer, and Stem cells as a potential tool for diabetes, conventional and alternative medicine for the treatment of Diabetes. This premier event also highlighted the need for the research on the molecular pathways and cellular responses for disease treatment using various treatment modalities.

This International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead was funded by Indian Council of Medical Research (ICMR) and Science and Engineering Research Board, Department of Science and Technology, India

The conference has brought together Engineers, Biotechnologists, Biologists, Chemists, Scientists, Industry personal and Medical practitioners to a common platform for a very creative interaction leading to inventive and resourceful ideas and innovative solutions for the various challenging problems in the field of Diabetic research. The response to the call for papers was overwhelming and was presented in the technical sessions. The delegates including renowned speakers from Malaysia and United States and from various states of India participated in the conference.

The conference was inaugurated by Dr.Nurliza Khaliden, Head, *Department of Ophthalmology*, University of Malaya, Malaysia and she emphasized the importance of interdisciplinary team work and application oriented research for the benefit of the society. Padmasri Prof.J.A.K Tareen, Vice-Chancellor, B.S.Abdur Rahman University delivered the presidential address on the occasion and stressed the need for a deeper study and research in the field of Diabetes. The conference started with a welcome address by Dr. S.Hemalatha, organizing secretary and Dean, School of Life Sciences and ended with vote of thanks by Dr.R.Karthikeyan, Associate Professor, School of Life Sciences. The Guest of Honour Dr.Samarijit Das, Johns Hopkins University, USA, Prof. V. Murugesan, Registrar and Prof. V.M. Periyasamy Pro vice Chancellor, B.S.Abdur Rahman University felicitated the gathering. The conference proceedings was released by Dr.Nurliza Khalidin and the first copy was received by Dr. Samarijit Das.

The conference was a two days feast for all the young researchers. The scientific presentations from undergraduate and post graduate students, research scholars, post doctoral fellows and scientists from Universities and hospitals from India and abroad were brainstorming. The conference had provided networking opportunities with the leading experts, researchers and scientists from various research and development sectors.

The valedictory address was delivered by Dr Tengku Ain Kamalden *Department of Ophthalmology*, University of Malaya, Malaysia. The best oral and poster presentation awards at under graduate, post graduate and research level and travel awards are distributed by Dr. Tengku Ain Kamalden, Dr. Nurliza Khaliden, University of Malaya, Malaysia and Prof. J.A..K Tareen Vice Chancellor, B.S.Abdur Rahman University.

The International Conference was a perfect platform to update on business and technology fronts. The challenges were explored, solutions were uncovered and opportunities were



developed, making it the largest and most highly respected event.

The conference proceedings was released by Dr. Nurliza Khalidin, University of Malaysia and the first copy was received by Dr. Samarijit Das, Johns Hopkins University, USA



## CONFERENCES / FDP / SEMINARS / WORKSHOPS ATTENDED

### Workshops attended

- Dr. S. Hemalatha has attended UK-India Workshop on Affordable Medical Technologies: innovations in medical technologies, particularly on diagnostics and devices on 11<sup>th</sup> February, 2015 at Hotel Raintree, Chennai.
- S. Khan research scholar under the guidance of Dr. S. Hemalatha has attended 15 days workshop on DBT sponsored Teacher/Researcher Short-term Training on 'Fermentation and Bioseparation Methods' at Pondicherry University from January 2-17, 2015.
- Fazeela Mahaboob Begum, Research Scholar under the guidance of Dr. S. Hemalatha Participated in two days workshop on Zebra fish as a model for Development and Genetics organized by Dept. of Animal Genetics, SRM University, Chennai on January 7<sup>th</sup> & 8<sup>th</sup> 2015
- Bommanaboina Anil Kumar, Karabi Goswami, Menaka .GLogesh .RMalini. RZakia Fathima S. Famidha .B, Farhana Fathima .M attended Seminar on Current Trends In Biology Jointly Organised by Jawaharlal Nehru Centre For Advanced Scientific Research Bangalore And Centre For International Co-Operation In Science, CLCS, Chennai on 5 February 2015, Chennai

- S. Khan under the guidance of Dr. S. Hemalatha has attended four days 'Workshop and Training on Sequence Analysis and Molecular Simulation' organized by Centre for Biotechnology, Anna University Chennai, India Dec. 17– 20, 2014.
- S.Zakia Fathima, R.Malini, B.Famidha M.Farhana Fathima R.Logesh, I year M.Sc students have participated seminar on OPTIMISATION OF WESTERN BLOT, IHC & ICC organized by abcom, UK in association with SRM university, Chennai on 5th DECEMBER ,2014
- Fazeela Mahaboob Begum, Research Scholar under the guidance of Dr. S. Hemalatha and M. Adil Research Scholar under the guidance of Dr. Neesar Ahmed have attended Hands on Training and Workshop on Basic Flow Cytometry organized by Dept. of Animal Biology, University of Hyderabad on December 1-3<sup>rd</sup>, 2014.
- Karabi Goswami, B. Anil kumar and G. Menaka attended "I-Bio 14" Hands-on Training in Bioinformatics and Genome Informatics on 11<sup>th</sup> November 2014, organized by Department of Bioinformatics, SRM University
- S.K. Sah, Prasannasamy, Rekha Yamini, Sujitha, Lavanya and Fazeela Mahaboob Begum , research scholars have attended two day National level workshop on "Laboratory Animal for Experimental Research-LAER BRULAC 2014" organized by Biomedical Research Unit and Lab Animal Center, Saveetha University, Chennai on July 3rd & 4th 2014.
- Fazeela Mahaboob Begum, Research Scholar under the guidance of Dr. S. Hemalatha attended Indo – UK joint workshop UKEIRI, "Plant Molecular Farming II" (Free registration) organized by Department of Biotechnology, Bharathiar University, Coimbatore India on March 13-14, 2014.

### Conferences attended

- Rekha Yamini under the guidance of Dr. Soumen Bera has attended the National seminar on "New Vistas In Marine Biotechnology" At Vels University, chennai held on 28<sup>th</sup> Feb.2015
- Dr. S. Hemalatha has delivered invited lecture and chaired one session in 34th Annual Conference of Society of Toxicology, India, at Madras Veterinary College, Chennai, organized by Tamil Nadu Veterinary and Animal Sciences University on 10<sup>th</sup> to 12<sup>th</sup> December 2014
- Karabi Goswami, II M.Sc Genetics student participated in Entrepreneurship Conference (TiECon 2014) on Nov 01, 2014, Chennai
- Fazeela Mahaboob Begum, Research Scholar under the guidance of Dr. S. Hemalatha "Alternative Angiogenic Therapeutics For Cardiovascular Disease" at CHET MEDICON 2014 organized by CHETTINAD UNIVERSITY OF HEALTH SCIENCES Chennai on August 23, 2014.

- Fazeela Mahaboob Begum, Research Scholar under the guidance of Dr. S. Hemalatha NATCON 2014 organized by Mohd. Sathak College, Sholinganallur, Chennai on Sep. 18-19 2014
- Ubaid Rasool, H. Sheeba, S.K. Sah, Fazeela Mahaboob Begum, S.Khan and Karabi Goswami under the guidance of Dr. S. Hemalatha and M. Basheerudin under the guidance of Dr. Shazia Jamal have attended International seminar on Biotechnology – Challenging the Challenges of the Changing World (BCCCW 2015), organized by Justice Basher Ahmed Sayeed College for Women, Chennai on 4<sup>th</sup> and 5<sup>th</sup> Feb, 2015

## PAPERS PUBLISHED/ PRESENTED IN JOURNALS & CONFERENCES

National Conference	International Conference	National Journal	International Journal	Total
2	49	0	7	58

## DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES:

### Publication in International journals

- S. Hemalatha and S. Das Mitochondrial miRNA - "MitomiR": A New Player in Cardiovascular Health Canadian Journal of Physiology and Pharmacology, 2015 (In Press)
- Khan M. S. and S. Hemalatha, "Autophagy: Molecular Insight and Role in Plant Programmed Cell Death and Defense Mechanism" *International Research Journal of Biological Sciences*, 4 (2), 78-83 (2015).
- M.Warepam, G.Suraj Sharma, T. Ali Dar, Md. K. A. Khan, L. R. Singh. Structural Characteristic of the Initial Unfolded State on Refolding Determines Catalytic Efficiency of the Folded Protein in Presence of Osmolytes PLOS One 9 e109408, October 2014
- Saroj kumar sah and S. Hemalatha, "Extended spectrum Beta lactamase (ESBL) Mechanism of antibiotic resistance and Epidemiology, International Journal of PharmTech Research. Vol.7, No.2, pp 303-309, 2015
- A.A. Mohamed Adil, V. Lavanya, S. Jamal, N. Ahmed Lectins- the promising cancer therapeutics *Oncobiology and Targets* 1,1,12-15, 2014
- V. Lavanya, A. A. Mohamed Adil, N. Ahmed, S. Jamal Cancer immunotherapy: Targeting immunosuppressive tumor microenvironment *Oncobiology and Targets* 1,1,16-21, 2014
- Lavanya V, Mohamed Adil A.A, Neesar Ahmed, Arun K.Rishi, Shazia Jamal Small molecule inhibitors as emerging cancer therapeutics *Integrative Cancer Science and Therapeutics*, 1,3, 39-46, 2014

## International Conferences

- Karabi Goswami ,Samarjit Das, S. Hemalatha, Role of circulating miRNAs in Various Diabetic Complications. International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 64.
- Mohammad Basheeruddin, Shazia Jamal, Estimation of Superoxide Dismutase in RBC Lysate & Serum Cholesterol in Diabetic Patients, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 65.
- M. K. Saranya and M.K. Sangeetha, miRNAs of pancreas A Novel target for treatment and diagnosis of type 2 diabetes, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 68.
- H.Sheeba and S. Hemalatha, Niosomes Novel drug delivery system for Diabetes, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 82.
- Ubaid Rasool and S. Hemalatha, Medicinal Plants and Their Role in Diabetes, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 84.
- Fazeela Mahaboob Begum, Brittany Dunkerly, Samarjit Das and S. Hemalatha, Novel alternate Pro-Angiogenic Therapeutics from Red Alga For Diabetic Cardio Myopathy, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 86.
- Mohd. Hashim Khan and Karthikeyan Ramalingam, Efficacy of Silver nano-particles in delayed wound healings of Diabetes mellitus patients International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 87.
- Adil A. A. and Neesar Ahmed, Targeting Retinal Inflammation in the pathogenesis of Diabetic Retinopathy, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 92.
- Tahira Akhtar and S. Hemalatha ,Exploring medicinal plants to control diabetes, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 104.
- Saroj Kumar Sah Prakash D. Easwaramoorthi and S. Hemalatha, Alternative approaches to control Urinary tract infection (UTI) among diabetic patients, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 105.

- Anil Kumar B and Neesar Ahmed, Type 1 Diabetes (T1D): The Gene and the disease, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 108.
- G.Menaka and S. Hemalatha, Effective role of Panchagavya in Diabetes, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 103.
- Logesh R , Neesar Ahmed and Amrita Roy, Immunotherapy targeting Type 1 Diabetes (T1D), International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 99.
- B.Famidha, R.Malini and Amrita Roy, Herbal Medicines for Diabetes, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 100.
- S. Zakia Fathima, M. Farhana Fathima and Amrita Roy, Anti-inflammatory agents as potent therapeutic agents for diabetic retinopathy, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 101.
- Sucharithra Ganesh, Abeer Manzoor Bhat and Neesar Ahmed, The Therapeutic Efficacy of Vitamin Therapy on Diabetes Mellitus, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 89.
- P. Umamaheshwari, R. Sangeetha, A. Janani, Immune Respones for Type 1 Diabetes, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 121.
- Priyadharshini.S, Priyadarsini.S and Neesar Ahmed, Potential Drug Targets for the Treatment of Diabetic Foot Ulcers (DFU), International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 120.
- Vinothkumar R and Sasidharan V and Neesar Ahmed, Diabetic Sensorimotor Polyneuropathy diagnosed by nerve conduction studies, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 119.
- Sathyapriyan M and Neesar Ahmed, Isolation and alpha-Glucosidase inhibitory activity of endophytic fungi from mahogany (*Swietenia macrophylla* King) seeds and its implication in Diabetic Mellitus, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 118.

- Srimathy P, Karthiga S and Neesar Ahmed, Cardiomyopathy (CMP): The disease and the treatments, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 112.
- B. Amrutha and Shivani and Neesar Ahmed, Alternative Therapies useful in management of Diabetes: A systematic review, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 94.
- Sheereen Khanam.I& Muthu Rehana Nausheen.M and Neesar Ahmed,Imminent Drugs: Targeting Diabetic Retinopathy, International Conference on Recent discoveries of Diabetic biomarkers and challenges ahead (1CDB 2015), 2-3 March 2015, 93.
- Kavitha Vijayaraghavan, Johanna Rajkumar, S.Mohamed Ali “Evaluation of the wound healing potential of the leaf extracts of *Chromolaena odorata* on Chick embryo excision wound models.”International Conference on Technology Development on Agriculture, Energy and Environmental Engineering for Green World (OASIS'2K15), Feb 23&24, 2015. Vivekanandha College of Engineering for Women, Elayampalayam, Tiruchengode.
- Kavitha Vijayaraghavan, Johanna Rajkumar, S.Mohamed Ali“A study on the wound healing potential of *Chromoleana odorata* extract on excision wounds” International Conference on recent advances in Bionano-Science and Technology (ICRBT – 2015) 25<sup>th</sup> & 26<sup>th</sup> February, 2015, Hindustan College of Arts and Science, Coimbatore.
- M. S. Khan & S. Hemalatha, Role of Autophagy in Plant Defense Mechanism: Molecular And Bioinformatic Approaches, International seminar on Biotechnology – Challenging the Challenges of the Changing World (BCCCW 2015), pg. 102, organized by Justice Basher Ahmed Sayeed College for Women, Chennai on 4- 5, February, 2015.
- Ubaid Rasool and S. Hemalatha , Biodiesel production from non-edible oils, International seminar on Biotechnology – Challenging the Challenges of the Changing World (BCCCW 2015), pg. 99, organized by Justice Basher Ahmed Sayeed College for Women, Chennai on 4- 5, February, 2015.
- S.K. Sah and S. Hemalatha Alternative Approaches to control Broad spectrum antibiotic resistant gram negative bacteria causing nosocomial infection International seminar on Biotechnology – Challenging the Challenges of the Changing World (BCCCW 2015), pg. , organized by Justice Basher Ahmed Sayeed College for Women, Chennai on 4- 5, Feb., 2015
- H. Sheeba and S. Hemalatha, Niosomes : Novel drug delivery for cancer International seminar on Biotechnology – Challenging the Challenges of the Changing World (BCCCW 2015), pg. , organized by Justice Basher Ahmed Sayeed College for Women, Chennai on 4- 5, Feb, 2015.
- S.M. Fazeela Mahaboob Begum, S. Hemalatha .High Throughput Screening of Anti Cancer Phyto Compounds In *Danio Rerio*. International conference, Biotechnology: Challenging the Challenges of the Changing World. Justice Basheer Ahmed College, Chennai. Feb 4 &5 2015 page number: 90.



- M. Basherudin and Shazia Jamal, ROLE OF HIF 1  $\alpha$  IN MODULATING THE TUMOR MICROENVIRONMENT International seminar on Biotechnology – Challenging the Challenges of the Changing World (BCCCW 2015), pg. , organized by Justice Basher Ahmed Sayeed College for Women, Chennai on 4- 5, Feb, 2015.
- Karabi Goswami and S. Hemalatha, Circulating miRNA as a biomarker for detecting diabetes International seminar on Biotechnology – Challenging the Challenges of the Changing World (BCCCW 2015), pg. , organized by Justice Basher Ahmed Sayeed College for Women, Chennai on 4- 5, Feb, 2015.
- M. S. Khan & S. Hemalatha, “Novel and Emerging Approaches of Mycotoxin Analysis” Conference proceedings, XXXIV Annual Conference of Society of Toxicology (India) 2014“Challenges and Strategies in Toxicology for Food Safety” & “Drug Development - Regulatory Perspectives in Livestock” Pharmacovigilance Laboratory for Animal Feed and Food Safety, Tamil Nadu Veterinary and Animal Sciences University, Chennai, India, 10<sup>th</sup> to 12<sup>th</sup> December, 2014, Chennai
- S. Hemalatha Impact of mycotoxins: Identification of molecular mechanisms by recombinogenic approaches and protection by small molecules. XXXIV Annual Conference of Society of Toxicology (India) 2014“Challenges and Strategies in Toxicology for Food Safety” & “Drug Development - Regulatory Perspectives in Livestock” Pharmacovigilance Laboratory for Animal Feed and Food Safety, Tamil Nadu Veterinary and Animal Sciences University, Chennai, India, 10<sup>th</sup> to 12<sup>th</sup> December, 2014, Chennai
- S.M.Fazeela Mahaboob Begum,S. Hemalatha Role of nutraceuticals in cancer, International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014
- S M Fazeela Mahaboob Begum, S K Sah , A B Kayathri, T Hussain, R Rajaprabu and S.Hemalatha Electroporation: New tool for targeted drug delivery and gene therapy International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014.
- S K Sah and S Hemalatha Extended spectrum  $\beta$ -lactmase (ESBL) International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014
- V K Prasannaswaamy and S Hemalatha Role of Unfolded Protein Response (UPR) pathway in Diabetes International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014
- M S Khan and S Hemalatha Autophagy: Role and Regulation in Plants International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014
- G Menaka and V Kavitha Applications of Microarray Technology in Lung Cancer Research- A Review International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014
- M Rahman and M K A Khan NDM-1: The New Superbug That Could Unleash a New Drug-Resistant Epidemic International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014

- K Sujitha and R Karthikeyan Hyaluronidase and its role in Tumor activity through gene technology International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014
- K Goswami and M K Sangeetha Junk DNA Mutations and Human Diseases International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014
- M Adil and N Ahmed Cre-Lox Recombination International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014
- K Rekha Yamini and S Bera Single Nucleotide Polymorphic variants of MnSOD and GPx-1: Role in cancer risk International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014
- V Lavanya and S Jamal Effects of BRCC2 overexpression on breast cancer metastasis International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014
- S.M.Fazeela Mahaboob Begum,S. Hemalatha Marine Algae – A Source Of Alternative Angiogenic Therapeutics for Cardiovascular Disease” International Conference on Applications Of Gene Technology, BSAU, Chennai, June 2014.
- M. K. Sangeetha & A. Hannah R. Vasanthi Decoding of Asiatic Traditional Anti-diabetic Plant in cultured L6 cells EMBO-EMBL symposia on Translating Diabetes, Heidelberg, Germany April 30th to May 3rd, 2014
- Kavitha Vijayaraghavan, Johanna Rajkumar, S.Mohamed Ali “Evaluation of Wound healing activity of Chromoleana odorata extract on excision wound models in rats” in the International Conference on Natural Products (ICNP 2014) at University Kebangsaan Malaysia between 18-19 March,2014.

### **National Conference presentations**

- 1. S.M. Fazeela Mahaboob Begum, S. Hemalatha , Alternative Angiogenic Therapeutics For Cardiovascular Disease” at CHET MEDICON 2014 organized by CHETTINAD UNIVERSITY OF HEALTH SCIENCES Chennai on August 23,2014.
- S.M. Fazeela Mahaboob Begum and S. Hemalatha, The CAM assay: a model to study angiogenesis, National symposium on “cancer research: a global scenario” organized by Life intelligentsia foundation & Frontier Mediville, Gummidipoondi on 19th June 2014.

### SPONSORED RESEARCH (ONGOING / APPLIED)

S. No	Name of the Principal Investigator	Funding agency	Title of the grant proposal	Amount in rupees	Status
1	Dr. Shazia Jamal	DBT	Small molecular inhibitors of cancer cell growth as a potential therapeutic agent	25,00,000	Submitted
2	Dr. Shazia Jamal	ICMR	Small molecular inhibitors (CFMs) as potential therapeutic agents targeting prostate Cancer	35,58,000	Submitted
3	Dr. Soumen Bera	(1)DBT(BT /PR8995/ MED/30 /1042/2013	Antioxidant gene polymorphisms and redox signaling in cancer risk	25,00,000	Approved
4	Dr. Soumen Bera	(2)DST-SERB (SERB/LS-734/2013	GPx-1 gene polymorphisms and mitochondrial ROS signalling in cancer risk	27,69,600	On-going
5	Dr. Soumen Bera	(3)ICMR 2013-2835	Mitochondrial STAT3 as a novel anticancer and antidiabetic target for resveratrol	47,26,500	Approved
6	Dr. Neesar Ahmed	DBT BT/PR/9486	Understanding the molecular mechanisms that regulate inflammation & tumor progression.	25,00,000	Submitted
7	Dr. Neesar Ahmed	ICMR	Targeting E3 ligases involved in the retinal Inflammation of Diabetic Retinopathy.	41,58,000	Submitted
8	Dr. Khurshid Khan	DST (SERB /LS-821/2013	Investigating the role of conserved interaction in the folding & stability of cytochrome	27,60,000	On-going
9	Dr. Karthikeyan Ramalingam	ICMR 2013-2794	Rapid detection (hand held detector) for multidrug-resistant organisms (eskepe pathogen) by surface enhanced raman scattering"	42,50,000	Approved
10	Dr. S. Hemalatha Dr. Sangeetha	DSTSR/CSI/1 29/2013	Studies on endotoxins induced neurological degeneration and Alzheimer's disease: Molecular mechanisms and protection by botanicals.	97,38,390	Submitted
11	Dr. S. Hemalatha	DBT	Masked mycoestrogen zearalenone (ZEA): Exploitation of	1,13,78,730	Approved

			biochemical and molecular mechanisms associated with exposure to ZEA and identification of targets and inhibitors		
12	Dr. S. Hemalatha Dr.R.Vasanthakumari Dr. B.Shameem Banu Dr. S.S.M. Abdul Majeed Dr.D.Easwaramoorthy	MHRD	Establishment of advanced centre for training and research in nano materials	4,43,08000	Submitted
13	Dr. S. Hemalatha	DBT	Vitamin B12 deficiency modulates life span, fertility, life cycle and induces neurodegeneration through insulin signalling and ER stress	89,04,690	Approved
14	Dr. S.Hemalatha PI Dr. M. K. Sangeetha	DBT- Innovative young biotechnologist 2013,	Mitochondrial Oxidative Stress is critical for the Pathogenesis of Diabetic Cataract: Impact of Mitochondrial endogenous Anti-Oxidants and DNA Repair Mechanisms	30,92,475	Submitted
15	Dr. S. Hemalatha Dr. Amrita Roy	DST -WOS	Glycolytic regulatory enzymes in modulating tumor microenvironment and cancer progression	23, 00,000	Approved
16	Dr. Shazia Jamal	DST-SERB (Young scientist)	To Study the Effect of Diclofenac and Osmolytes on Protein Stability in Renal Dysfunction	13,60,000	On-going
17	Dr. M.K.Sangeetha	DST-SERB (Young scientist)	Mitochondrial Oxidative Stress during Pathogenesis of Diabetic Cataract – Impact of Mitochondrial DNA Damage, Endogenous Anti-Oxidants and DNA Repair Mechanisms	27,27,372	Submitted
18	Dr. Neesar Ahmed	DST- EMR	Modelling and analysis of Tumor Growth as a Hybrid Dynamic System with Unique SCBZ Approach	52,67,000	Submitted
19	Dr. S. Hemalatha Dr. Maha	SERB-Special Initiatives in Organic	Synthesis of transcriptional modulators (spiro isoxazolidines synthesis through 1,3-dipolar	81,00,000	Submitted

	Sambath Gowri (Chemistry)	Chemistry	Cycloaddition methodology) and their applications in neurodegeneration and Alzheimers: Identification of pathways and targets.		
20	Dr. S. Hemalatha	CSIR-Special Theme Programme Natural Hazards	Coastal Hazards: Harmful Algal Bloom (HAB) Marine algal toxins induced neurodegeneration and analysis of gene expression	90,00,000	Submitted
21	Dr. Khurshid Alam Khan	DST-SERB (Young scientist)	Identifying the molecular basis of peroxidase activity of peroxiredoxin-6-An approach for designing anti oxidant peptides and inhibitors	14,30,000	On-going
22	Dr. Neesar Ahmed	CSIR	Ubiquitin mediated regulation of the inflammatory tumor microenvironment in specialized lipid raft	10,69,400	Submitted
23	Dr. S. Hemalatha Dr. Amrita Roy	Lady Tata memorial trust	Understanding the regulatory steps of glycolysis in cancer associated fibroblasts: Implications in tumorigenesis	5,68,000	Submitted
24	Dr.Karthikeyan Ramalingam	DBT-Ramalingaswami Re-Entry Fellowship	Synthesis of antimicrobial nanoemulsions for various treatment modalities against multi-drug resistant ESKAPE pathogens	88, 00,000	Submitted
25	Dr.Karthikeyan Ramalingam	DST-SERB-R&D Proposals on "Development of new antimicrobial agent for multidrug resistant infectious diseases causing pathogens	Synthesis of antimicrobial nanoemulsions for the treatment of multi-drug resistant ESKAPE pathogens	27,63,600	Approved

26	Dr.Karthikeyan Ramalingam	AYUSH	Antimicrobial Efficacy And Mechanisms Of Herbal Extract Fractions (Traditional Herbal Tooth Power Formula) On Biofilm Forming Cariogenic Microorganisms	29,96,250	Submitted
27	Dr. Neesar Ahmed	DST-SERB	Immunosuppressive Cells within Inflammatory Tumor Microenvironment	24,66,000	Submitted
28	Dr. S. Hemalatha	DBT-Wellcome trust	Vitamin deficiency modulates life span, fertility, and induces neurodegeneration through ER stress	81,00000	Submitted
29	Dr. S. Hemalatha	DST-USISTEF, USA	First Global assessment of circulating microRNAs as Diagnostic, Prognostic, and Predictive Biomarkers in Diabetes Mellitus	3,70,00,000	Submitted
30	Dr. S. Hemalatha	ICMR-Indo-USA	miR-15a: A Diagnostic, Prognostic, and Predictive Biomarker for Diabetic Retinopathy	1,00,00,000	Submitted

## **SPECIAL RESEARCH LABORATORIES CREATED**

**The following Laboratories are established**

- Genetics Laboratory
- Molecular biology Laboratory
- Biochemistry Laboratory
- Microbiology Laboratory
- Computational biology Laboratory
- Plant tissue Culture Laboratorya
- Animal cell culture Laboratory
- Central proteomics Laboratory
- Central genomics Laboratory
- Central Metabolomics Laboratory
- Central Cell biology Laboratory

## INTERNATIONAL VISIT (ACADEMIC RESEARCH)

Dr. M.K. Sangeetha, Assistant Professor attended EMBO-EMBL symposia on Translating Diabetes, held in EMBL training centre, Heidelberg, Germany on April 30<sup>th</sup> to May 3<sup>rd</sup>, 2014.

Mrs. Kavitha Vijayaraghavan, Assistant Professor attended International Conference on Natural Products (ICNP 2014) at University Kebangsaan Malaysia between 18-19 March, 2014.

## ACHIEVEMENTS OF STAFF

Dr. M.K. Sangeetha, Assistant Professor has received Travel Award (500 Euros) for Poster presentation on “Decoding of Asiatic Traditional Anti-diabetic Plant in cultured L6 cells” in the EMBO-EMBL symposia on Translating Diabetes, held in EMBL training centre, Heidelberg, Germany on April 30<sup>th</sup> to May 3<sup>rd</sup>, 2014

Mrs. Kavitha Vijayaraghavan won Best oral presentation award in International Conference on Technology Development on Agriculture, Energy and Environmental Engineering for Green World (OASIS'2K15), Feb 23&24, 2015. Vivekanandha College of Engineering for Women, Elayampalayam, Tiruchengode.

Mrs. Kavitha Vijayaraghavan won Best oral presentation award in International Conference on recent advances in Bionano-Science and Technology (ICRBT – 2015) 25<sup>th</sup> & 26<sup>th</sup> February, 2015, Hindustan College of Arts and Science, Coimbatore.

## ACHIEVEMENTS OF STUDENTS

The first year B.Tech Biotechnology/Cancer biotechnology Student's participated in the following Extracurricular –Co curricular Activities

S.No	Name of the Student	Name of the College/ University/ Event/	Participated/ Won prize
1	Aadhirai Kalaichelvan	Chengalpet Medical College Event: Athletics	II Place-Runner-up
2	Mubeena Begum		Participated
3	Surya Haritha		Participated
4	Sucharithra.G	MOP Vaishnav College Event: Western Singing	I Place
5	Priyanka .K		
6	Farheen Farzana Fathima K A	SSN Engineering College Event: Treasure Hunt	Participated
7	Amrutha B		
8	Md.Ashick		
9	Md.Faheem	SSN Engineering College Event: Game of Hearts	II Place
10	Divij M Kinger	SRM University Event:Adfinity	I Place
	M.Sathyapriyan		

11	M.Sathyapriyan	SRM University All-India Interuniversity Tennis Tournament (Founders Trophy)	Participated
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### Post graduate students

The second year M.Sc students Karabi and Menaka have presented posters at ICAGT 2014 held on June 1-2 organized by SLS at BSAU



The first year M.Sc students have participated in SWARNOTSAV organized by D.G. Vaishnav college, Arumbakkam Chennai on October, 1, 2014. All the students participated in vegetable carving and cooking without fire events.



### Research Scholars

- Fazeela Mahaboob Begum, Research Scholar under the guidance of Dr. S. Hemalatha has been Selected for Indo – UK joint workshop UKEIRI, “ Plant Molecular Farming II” (Free registration) organized by Department of Biotechnology, Bharathiar University, Coimbatore India on March 13-14, 2014.



- 2.Fazeela Mahaboob Begum, Research Scholar under the guidance of Dr. S. Hemalatha Won best oral presentation



award for “The CAM assay: a model to study angiogenesis” at the National symposium on “cancer research: a global scenario” organized by Life intelligentsia foundation & Frontier Mediville, Gummidipoondi on 19th June 2014.

- M. Basheerudin won 1st poster prize presentation in International seminar on Biotechnology – Challenging the Challenges of the Changing World (BCCCW 2015), pg. 102, organized by Justice Basher Ahmed Sayeed College for Women, Chennai on 4- 5, February, 2015

## **DEVELOPMENTAL ACTIVITIES**

### **Weekly Journal club**

#### **Purpose**

The School of Life Sciences (BSAU) proudly announces the commencement of the SLS Journal Club (SLS JC). The main purpose of SLS Journal club is the critical review of key papers in Life Science research. Each meeting is organized with the participation of scholars, students and faculty members to discuss and analyze research articles that appear in professional journals of related field. Understanding and forming a precise opinion of a journal article is a crucial skill for research; the SLS Journal Club aims to equip the research scholars and students with the skills necessary to carry out a critical review of literature relevant to their field and also to keep everyone updated about the global scenario in multidisciplinary research.

SLS journal club invites active participation from all scholars and faculty members in accomplishing the aims of disseminating knowledge, improving the literature appraisal skill, discussing the controversies and generating ideas for future research through the weekly meetings of the SLS Journal Club.

#### **Format**

The scholars and the faculty members, each week in rotation, will present a paper (PowerPoint) approved by the SLS JC coordinator(s). The format will be a 30 minute presentation by the lead presenter. The remaining members of the group will use the next 30 minutes to ask questions or to add their own opinions. The meetings are being organized weekly. The presentation should essentially include

- The main purpose of the research work, its significance and the hypothesis stated therein
- Relevance of the research topic and the content to the research problem
- Description of the findings and critical review of each figure or information used in the article
- Main findings of the study and authors interpretation.
- Additional questions, ambiguity and missing information

The Coordinator for the journal club are Dr. Soumen Bera

The following list of research articles are discussed in the Journal club

SI No.	Speaker	Date	Title of the paper
1.	Dr. S Hemalatha	05.02.2014	Adiponectin as a new paradigm for approaching Alzheimer's disease. <i>Anatomy &amp; Cell Biology</i> . 2013
2.	Lavanya	19.02.2014	BRCC2 inhibits breast cancer cell growth and metastasis in vitro and in vivo via downregulating AKT pathway. <i>Cell Death and Disease</i> , 2013.
3.	Dr. Karthikeyan Ramalingam	12.02.2014	A quorum-sensing inhibitor blocks <i>Pseudomonas aeruginosa</i> virulence and biofilm formation. <i>PNAS</i> , 2013.
4.	Dr. Khurshid Alam Khan	20.02.2014	Serine Phosphorylation Suppresses Huntingtin Amyloid Accumulation by Altering Protein Aggregation Properties. <i>J. Mol. Biol.</i> 2012
5.	Fazeela	11.04.2014	Chick Chorioallantoic Membrane (CAM) Assay as an In Vivo Model to Study the Effect of Newly Identified Molecules on Ovarian Cancer Invasion and Metastasis. <i>Int. J. Mol. Sci.</i> 2012
6.	Shahanbaj	14.07.2014	Genome-wide transcriptional responses of <i>Fusarium graminearum</i> to plant cell wall substrates. <i>FEMS Microbiol Lett.</i> 2013
7.	Mashihur	24.07.2014	Glycosylflavonoids from <i>Cecropia pachystachya</i> Trécul are quorum sensing inhibitors. <i>Phytomedicine</i> , 2014.
8.	Adil	31.07.2014	Effect of the Premalignant and Tumor Microenvironment on Immune Cell Cytokine Production in Head and Neck Cancer, <i>Cancers</i> 2014
9.	Rekha Yamini	14.08.2014	STAT3 down regulates LC3 to inhibit autophagy and pancreatic cancer cell growth. <i>Oncotarget</i> , 2014
10	Sujitha	28.08.2014	Proteomic analysis reveals that pardaxin triggers apoptotic signaling pathways in human cervical carcinoma HeLa cells: cross talk among the UPR, c-Jun and ROS. <i>Carcinogenesis</i> , 2013.
11	Basheer	18.09.2014	Schisandrin B Induces Apoptosis and Cell Cycle Arrest of Gallbladder Cancer Cells. <i>Molecules</i> 2014.
12	Hashim	24.09.2014	Validation of a Novel Murine Wound Model of <i>Acinetobacter baumannii</i> Infection. <i>Antimicrobial Agents and Chemotherapy</i> 2014.
13	Tahira	9.10.2014	Biological Evaluation of Silver Nanoparticles Obtained from <i>T. arjuna</i> Bark Extract as Both Reducing and Capping Agent. <i>J Clust Sci</i> 2014
14	Ubaid Rasool	16.10.2014	Enhancement of biodiesel synthesis over highly active

			CaO derived from natural white bivalve clam shell. <i>Arabian Journal of Chemistry</i> 2014.
15	Adil	12.11.2014	Highly prevalent colorectal cancer-infiltrating LAPp Foxp3_ T cells exhibit more potent immunosuppressive activity than Foxp3p regulatory T cells. <i>Nature</i> , 2014
16	Basheer	21.11.2014	Clitocine targets Mcl-1 to induce drug-resistant human cancer cell apoptosis in vitro and tumor growth inhibition in vivo. <i>Apoptosis</i> 2014
17	Fazeela	29.1.2015	Hypoxia-Inducible Factor-2a Is an Essential Catabolic Regulator of Inflammatory Rheumatoid Arthritis. <i>PLOS Biol</i> , 2014
18	Hashim	13.2.2015	Purification and Characterization of Biofilm-Associated EPS Exopolysaccharides from ESKAPE Organisms and Other Pathogens. <i>PLOS One</i> , 2013

### JRF coaching classes

The faculty members of School of Life Sciences have initiated coaching classes for the Masters and Ph.D scholars to train them to attend the national level competitive exams. Dr. Neesar Ahmed is the co-ordinator for the JRF coaching classes. The classes are held every Tuesday at the school of life sciences. The previous year question papers (4 years), study materials are distributed to the students. The mock exams are conducted in addition to the coaching to train the students.

### Initiatives taken to improve the teaching and learning:

- Classes have become more interactive
- Students have been asked to follow text books instead of relying only on the class notes
- Apart from delivering text book knowledge during the classes, more stress have been given in discussing recent advances
- Some alterations have been done in course allocation to the faculties only to provide the best quality teaching to the student

### Confidential Student Feedback

- Efforts have been made to get the feedbacks from the student on the different courses and the respective course teachers
- The feedback system has been kept fully confidential and not disclosed to the course teachers.

### Class representative meetings

- Class representatives have been called to meet the class advisors as well as the Dean on a regular basis to update the proceedings of the courses and other affairs.

### Parent-teacher meeting

- Parents of certain students have been called to meet the class advisor as well as the Dean when there was a disciplinary issue in the School.
- Parents have been informed about the activity of their wards and requested to take actions to avoid the repetitions of similar kind of activity
- Parents have also been informed about their wards performance and attendance percentage in the CAT 1.

### Integration of knowledge from coursework and application of this knowledge to research and experience-based work

- To integrate the knowledge obtained from the theory classes and to apply as experienced based work the following initiatives are undertaken
- For B.tech students out of 3 assignments one assignment should be submitted as a working model

### Models competition among the B.Tech students



- Hands o learning experience to M.Sc students in addition to the practical classes



## **INDUSTRY / INSTITUTE COLLABORATION**

### **Collaborations**

Our academic and research work is an international enterprise. We are interested to collaborate with researchers at universities, hospitals, industries around the globe. We are collaborating on joint research, faculty and student exchange, teaching, joint workshops and conferences.

## **INTERNATIONAL COLLABORATIONS**

### **Tzu Chi University, Hualien, Taiwan**

Prof. Ingrid Y Liu, Professor, Department of Molecular Biology and Human Genetics, Director, office of General and basic Education, Director, Center for Faculty development and Instructional resources is interested in collaborating with the school of life sciences in the research areas including diabetes and neurodegeneration.

Sr. Ingrid invited Dr. S. Hemalatha and Vice Chancellor to Tzu Chi University to sign MOU between school of Life sciences, BSAu and Tzu Chi University, Taiwan.

### **Queens land University, Australia**

Dr. Vito Ferro, Associate Professor, School of Chemistry & Molecular Biosciences, Queensland University, Australia has visited school of life sciences on January, 9, 2014. Dr. Vito Ferro gave a presentation on the various courses offered in the School of Chemistry & Molecular sciences at queensland university and also mentioned about the scholarships available for postgraduate as well as for PhD programme. Each faculty member of SLS briefed about their research area and expertise to Dr. Vito Ferro. Dr. Vito Ferro also shared his field of research i.e., on anti-cancer and anti-angiogenic property of a new Heparan sulphate mimetics compound and pharmacological chaperone therapy for lysosomal storage diseases. The possibility of collaboration between SLS and UQ, exchange of faculty members, research scholars etc. are discussed.

### **Curtin University, Australia**

Dr. Arun Dharmarajan from Curtin University, Australia has visited school of life sciences on 30<sup>th</sup> June 2014 and discussed about the possible areas of collaboration with faculty members. It was planned for exchange of Ph.D scholars and collaboration in proteomics and molecular biology.

### **Deakin university, Australia**

Professor Jagat R. Kanwar Faculty of Health, Deakin University, Victoria, AUSTRALIA is interested in collaborating in the areas of nanomedicine and visited the school during December 2013 and discussed with the faculty members of school of life sciences about the future collaboration. The discussion is going on to collaborate on diabetes and its complications

### **University of Central Florida, USA**

Dr. Pallavoor Vaidyanathan, Assistant Vice President for Research, University of Central Florida, USA had discussion with faculty of life sciences on December, 18, 2014. Dr. Pallavoor Vaidyanathan has mentioned about UCF Nano research centre and medical school research. He welcomed every faculty to have research collaboration with scientist/faculty in University of Central Florida working in their research specialization. Dr. Pallavoor Vaidyanathan also added that collaborating with scientist in US will facilitate to receive grants from National Institute of Health and National Science Foundation from USA.

### **Florida Atlantic university, Florida, USA**

Dr. Arockiasamy, professor and director of center for infrastructure and constructional facilities from Florida Atlantic university, Dr.S.Prince Arockia Doss, Director, International Collaborations and Prof. Dr. S. Hemalatha, Professor & Dean met at International collaboration office on December, 7, 2013. During the meeting, exchange of faculty and students between SLS and FAU college of Science, Joint project funding through NSF international program, Short visit of research scholars to FAU, Faculty on sabbatical to BSAU from FAU. Dr. Arockiasamy has assured to send the contact details of researchers from FAU and he will initiate the collaboration.

### **Johns Hopkins University**

Dr. Das from John's Hopkins and faculty of SLS had research discussions on 9<sup>th</sup> June and planned for possible collaborations. Dr. Das has invited Dr. Sangeetha ( Research Scientist) to Johns Hopkins for 3 months research exchange. He was impressed by the poster presentation by Ms. Karabi our M.Sc student during the conference and interested in inviting her to his lab for short term research. Dr. Hemalatha and Dr. Das have submitted 2 research proposals for ICMR-USA initiative and US India endowment fund. The joint publication in Canadian Journal of Physiology and Pharmacology is in press. Dr. Das has invited Mr. Prasannasaamy, Ph.D scholar under the guidance of Dr. S. Hemalatha to work on their joint project at Johns Hopkins for 3 months.

### **Eppendorf, Germany**

SLS is collaborating with Eppendorf in conducting short term workshops. In association with Eppendorf on March 1-2, 2014, workshop in Gene Technology- \_Module I: Gene amplification was conducted.

### **Biorad, USA**

SLS is collaborating with biorad USA in conducting special series of seminars and lab demos by specialists and scientists from Biorad USA. As an initiative on May 21-22, workshop in Gene Technology- Module II : Molecular cloning was organized in association with Biorad, USA and Eppendorf, Germany. The application specialists from bioraddemonstrated the applications of Real time PCR and participants had hands on experience with Real time PCR.

## Exiqon, Denmark

The collaborative project was discussed with Dr. Michael Hanson, Exiqon, Denmark and Dr. Das Johns Hopkins. This project will be on light caged LNA to cure diabetic retinopathy. The project will be funded by Exiqon.



## NATIONAL COLLABORATIONS

### Take Solutions, USA and Chennai

SLS is Collaborating with Take solutions, Vandalur Chennai in the areas of Bioinformatics. Dr. Ganesh President, Take Solutions is interacting with the faculty members on current trends in Biotinformatics research.

### Frontier Mediville and Dr. Cherian's heart foundation

School of Life Sciences has initiated research collaboration with the Frontier Lifeline Hospital formerly known as Dr. K.M. Cherian Heart Foundation. The team of scientists headed by Dr. Cherian visited school of life sciences and discussed about the possible areas of collaboration along with our vice chancellor Prof. Tareen on 23<sup>rd</sup> April 2014.





Again on May 29, 2014 the life sciences faculty visited the Medville and discussed and exchange their ideas in research collaboration

### **Xcode Life Sciences**

Along with Our chairman Dean has visited Xcode life sciences on April 15, 2014 and met Dr. Narayanan and Dr. Saleem to start incubation center at BSAU. Again on May 6<sup>th</sup> Dr. Saleem visited SLS. The initiation of incubation center and possible collaborations between SLS and xcode was discussed with Registrar.



### **Sankara Nethralaya-Vision research foundation**

Dr. Krishnakumar and Dr. Sowmya from Vision research foundation visited SLS on 6<sup>th</sup> September, 2014 to discuss about the research collaboration on diabetic retinopathy

### **EXTENSION ACTIVITY CONDUCTED**

**Awareness program** The School of Life Sciences in association with TamilNadu Dr. MGR medical University conducted awareness program on infectious diseases in Chennai on March, 7, 2014. This program demonstrated the infectious organisms prevailing in Chennai, how to maintain sanitary conditions, avoiding infections, preventive measures and cure.





### **Open House**

To commemorate the 30 years of excellence in education OPEN HOUSE program was conducted during 30-31, March, 2014. The research scholars and faculty members demonstrated live experiments and display models. The students from various higher secondary schools visited the SLS labs, and faculty members demonstrated the instruments and explained the applications of the instruments.

### **Open House 2015**

To commemorate the 31 years of excellence in education OPEN HOUSE program was conducted during January, 2015 in Chennai and at Madurai. The research scholars and faculty members demonstrated live experiments and display models. The students from various higher secondary schools visited the SLS labs, and faculty members demonstrated the instruments and explained the applications of the instruments.

## Open House held at Chennai in January 2015



## Open House held at Madurai in January 2015



## **IMPORTANT VISITORS**

- Dr. Arun Dharmarajan, Professor from Curtin University visited SLS on June 23, 2015
- Dr. Sudha Warrior from Manipal University visited visited SLS on June 23, 2015
- Dr. Samirjit Das from Joohns Hopkins School of medicine visited SLS for teaching and for research collaboration between February, 2, 2015- March 2, 2015
- Dr. Krishnakumar and Dr. P. Sowmya from Shankara Nethralaya visited on 6<sup>th</sup> September, 2014
- Dr. Cherian and his team from Cherian's Hospital visited SLS in April 23, 2014
- Dr. Saleem from Xcode Life Sciences visited SLS on May 6, 2014



# **SCHOOL OF ISLAMIC STUDIES**



## SCHOOL OF ISLAMIC STUDIES

### VALUE ADDED PROGRAMMES STARTED

- Certificate in Functional Arabic (The programme was started in the first week of January and 42 students have enrolled).

### CONFERENCES / FDPs / SEMINARS / WORKSHOPS CONDUCTED

S. No	Name of the Seminar/ Conference/ Workshops	Organized by	Month and Year	Resource Person
1.	One Day workshop on "Discover Yourself"	School of Islamic Studies	1 <sup>st</sup> December 2014	Mr. A.W. Sadathullah Khan, Editor, Islamic Voice.
2	One Day National Conference on 'Prophetic Guidance for Modern Social Issues'	School of Islamic Studies	23rd February, 2015	---

### CONFERENCES / FDPs / SEMINARS / WORKSHOPS ATTENDED

#### International Conference:

- Dr. P.S. Syed Masood Jamali attended Second International Conference on 'Arabs' and Muslims' History of Science, University of Sharjah during December 2014
- Mr. A.M. Ali Ibrahim Jamali attended Two Day International Seminar on 'Development of Arabic Novels and Short Stories in the Modern Period' organized by PG & Research Department of Arabic, Jamal Mohamed College, Tiruchirapalli during 20 & 21 January, 2015
- Mr. A. Abdul Hai Nadwi, attended Two Day International Seminar on 'Development of Arabic Novels and Short Stories in the Modern Period' organized by PG & Research Department of Arabic, Jamal Mohamed College, Tiruchirapalli during 20 & 21 January, 2015
- Mr. S. Abdus Samad Nadwi, attended Two Day International Seminar on 'Development of Arabic Novels and Short Stories in the Modern Period' organized by PG & Research Department of Arabic, Jamal Mohamed College, Tiruchirapalli during 20 & 21 January, 2015
- Mr. M. Ahamedullah Al Bukhari, attended Two Day International Seminar on 'Development of Arabic Novels and Short Stories in the Modern Period' organized by PG & Research Department of Arabic, Jamal Mohamed College, Tiruchirapalli during 20 & 21 January, 2015

- Dr. P.S. Syed Masood Jamali, attended Two Day International Seminar on 'Humanitarian Values in Arabic Literature' organized by PG & Research Department of Arabic, The New College, Chennai. 2<sup>nd</sup> & 3<sup>rd</sup> February 2015.
- Mr. A.M. Ali Ibrahim Jamali, attended Two Day International Seminar on 'Humanitarian Values in Arabic Literature' organized by PG & Research Department of Arabic, The New College, Chennai during 2<sup>nd</sup> & 3<sup>rd</sup> February 2015.
- Mr. A. Abdul Hai Nadwi, attended Two Day International Seminar on 'Humanitarian Values in Arabic Literature' organized by PG & Research Department of Arabic, The New College, Chennai during 2<sup>nd</sup> & 3<sup>rd</sup> February 2015.
- Mr. S. Abdus Samad Nadwi, attended Two Day International Seminar on 'Humanitarian Values in Arabic Literature' organized by PG & Research Department of Arabic, The New College, Chennai during 2<sup>nd</sup> & 3<sup>rd</sup> February 2015.
- Mr. M. Ahamedullah Al Bukhari, attended Two Day International Seminar on 'Humanitarian Values in Arabic Literature' organized by PG & Research Department of Arabic, The New College, Chennai during 2<sup>nd</sup> & 3<sup>rd</sup> February 2015.
- Dr. P.S. Syed Masood Jamali, attended Second International Symposium - 2015 on 'Empowering National Development Through religions, languages, culture and society' organized by Faculty of Islamic Studies and Arabic Language, South Eastern University of Srilanka, Oluvil, Srilanka during 4<sup>th</sup> March 2015.
- Mr. A.M. Ali Ibrahim Jamali, attended Second International Symposium - 2015 on 'Empowering National Development Through religions, languages, culture and society' organized by Faculty of Islamic Studies and Arabic Language, South Eastern University of Srilanka, Oluvil, Srilanka on 4<sup>th</sup> March 2015.

#### **National Conference:**

- Mr. A. Jamaluddin Jamali, attended National Conference on 'Prophetic Guidance for Modern Social Issues, Organized by School of Islamic Studies, B.S. Abdur Rahman University during 23<sup>rd</sup> February 2015.
- Mr. A.M. Ali Ibrahim Jamali, attended National Conference on 'Prophetic Guidance for Modern Social Issues, Organized by School of Islamic Studies, B.S. Abdur Rahman University during 23<sup>rd</sup> February 2015.
- Mr. A. Abdul Hai Nadwi, attended National Conference on 'Prophetic Guidance for Modern Social Issues, Organized by School of Islamic Studies, B.S. Abdur Rahman University during 23<sup>rd</sup> February 2015.
- Mr. S. Abdus Samad Nadwi, attended National Conference on 'Prophetic Guidance for Modern Social Issues, Organized by School of Islamic Studies, B.S. Abdur Rahman University during 23<sup>rd</sup> February 2015.
- Mr. M. Ahamedullah Al Bukhari, attended National Conference on 'Prophetic Guidance for Modern Social Issues, Organized by School of Islamic Studies, B.S. Abdur Rahman University during 23<sup>rd</sup> February 2015.
- Mr. A.M. Ali Ibrahim Jamali, attended Two Day National Conference on 'Education for Clean and Green India, Organized by Department of Education, Manonmaniam Sundaranar University, Tirunelveli during 13<sup>th</sup> and 14<sup>th</sup> March 2015.



### Workshop:

- Mr. A. Abdul Hai Nadwi attended One Day workshop on 'Modern Trends in Arabic Teaching, Organized by Department of Arabic, Persian and Urdu, University of Madras during 26<sup>th</sup> August 2014.
- Mr. S. Abdus Samad Nadwi attended One Day workshop on 'Modern Trends in Arabic Teaching, Organized by Department of Arabic, Persian and Urdu, University of Madras during 26<sup>th</sup> August 2014.
- Mr. A.M. Ali Ibrahim Jamali attended One Day workshop on 'Quality Assurance in Academic and sponsored research', Organized by Office of Dean (Academic Research), B.S. Abdur Rahman University during 7<sup>th</sup> March 2015

### **PAPERS PUBLISHED / PRESENTED IN JOURNALS & CONFERENCES**

<b>National Conference</b>	<b>International Conference</b>	<b>National Journal</b>	<b>International Journal</b>	<b>Total</b>
6	12	-	-	18

### **DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES**

<b>S. No</b>	<b>Author</b>	<b>Publication on Title</b>	<b>Journal Title</b>	<b>Volume No</b>	<b>Issue No</b>	<b>Page Nos</b>	<b>Month &amp; year of Publication</b>
1.	Dr. P.S. Syed Masood Jamali	Scientific contribution of Muslims used for modern western scientific renaissance	Second International Conference on Arabs' and Muslims' History of Science, University of Sharjah.	--	--	--	08- 10 December 2014.
2.	Mr. A.M. Ali Ibrahim Jamali	Novels of Jurji Zaidan – A Critical Analysis	Development of Arabic Novels and Short Stories in the Modern Period, Jamal Mohamed College, Tiruchirapalli.	ISSN - 0973-0303	ISO ANS S 2015	115-121	20-21 January 2015
3.	Mr. A.Abdul Hai Nadwi	Tears of Manflooti towards the poor and downtrodden	Development of Arabic Novels and Short Stories in the Modern Period, Jamal Mohamed College, Tiruchirapalli	ISSN - 0973-0303	ISO ANS S 2015	108-114	20-21 January 2015
4.	Mr. S. Abdus Samad Nadwi	Short Stories – Its essence, features, basics, stages of development and	Development of Arabic Novels and Short Stories in the Modern Period, Jamal Mohamed College, Tiruchirapalli	ISSN - 0973-0303	ISO ANS S 2015	288-295	20-21 January 2015

		Important leaders.					
5.	Dr. P.S. Syed Masood Jamali	Polysemy in Quranic Verses and its enhancing impact on Islamic Jurisprudence	'Empowering National Development Through religions, languages, culture and society', Faculty of Islamic Studies and Arabic Language, South Eastern University of Srilanka, Oluvil, Srilanka.	ISBN: 978-955-627-061-7	ISB N: 978-955-627-061-7	Page No: 1-8	4 <sup>th</sup> March 2015
6.	Mr. A.M. Ali Ibrahim Jamali	Leadership in Islamic Perspective	'Empowering National Development Through religions, languages, culture and society', Faculty of Islamic Studies and Arabic Language, South Eastern University of Srilanka, Oluvil, Srilanka.	ISBN: 978-955-627-061-7	ISB N: 978-955-627-061-7	Page No: 41-51	4 <sup>th</sup> March 2015
7.	Mr. M. Ahamedullah Al Bukhari	Islamic Marketing Ethics and its application Islamic Banking Industry	'Empowering National Development Through religions, languages, culture and society', Faculty of Islamic Studies and Arabic Language, South Eastern University of Srilanka, Oluvil, Srilanka.	ISBN: 978-955-627-061-7	ISB N: 978-955-627-061-7	Page No: 71-78	4 <sup>th</sup> March 2015
8.	Mr. A. Jamaluddin Jamali	Prophetic Guidance for avoiding intoxicants	'Prophetic Guidance for Modern Social Issues, School of Islamic Studies, B.S. Abdur Rahman University.	Vol No: 1	Issue No: 1	Page No: 98 - 106	23 <sup>rd</sup> February 2015
9.	Mr. A. M. Ali Ibrahim Jamali	Sexual Harassment against women and its solutions in the light of Prophetic Guidance	'Prophetic Guidance for Modern Social Issues, School of Islamic Studies, B.S. Abdur Rahman University.	Vol No: 1	Issue No: 1	Page No: 41 - 47	23 <sup>rd</sup> February 2015

10.	Mr. A. Abdul Hai Jamali	Problem of adoption and its solutions in the Prophetic traditions	'Prophetic Guidance for Modern Social Issues, School of Islamic Studies, B.S. Abdur Rahman University.	Vol No: 1	Issue No: 1	Page No: 67 - 71	23 <sup>rd</sup> February 2015
11.	Mr. S. Abdus Samad Nadwi	Prohibition of alcohol and drugs, its effects, ways of getting rid of them in the light of the Qur'an and Sunnah	'Prophetic Guidance for Modern Social Issues, School of Islamic Studies, B.S. Abdur Rahman University.	Vol No: 1	Issue No: 1	Page No: 72 - 77	23 <sup>rd</sup> February 2015
12.	Mr. M. Ahamedullah Al Bukhari	Prophetic Guidance for youth issues	'Prophetic Guidance for Modern Social Issues, School of Islamic Studies, B.S. Abdur Rahman University.	Vol No: 1	Issue No: 1	Page No: 91 - 97	23 <sup>rd</sup> February 2015
13.	Mr. A.M. Ali Ibrahim Jamali	Environmental Education in Indian School Syllabus – A brief view	Two Day National Conference on 'Education for Clean and Green India, Department of Education, Manonmaniam Sundaranar University, Tirunelveli.	ISBN: 978-81-909565-9-8	ISBN: 978-81-909565-9-8	Page No: 206-208	13 <sup>th</sup> & 14 <sup>th</sup> March 2015.

### ACHIEVEMENTS OF STUDENTS

S.No.	Name of the Students	Class & Section	Title of the Award, Issuing Institution or Organization , venue and date
1.	Aneesh Rahman. M	B.A.I.S. III year	Won the Second prize in Arabic essay writing competition in the "SOUL - 2014" organized by Hindustan College of Arts and Science, Chennai on 12.09.2014.
2.	Abubakkar Siddique. M	B.A.I.S. III year	Won the Second prize in Arabic Oratorical competition in the "SOUL - 2014" organized by Hindustan College of Arts and Science, Chennai on 12.09.2014.
3.	Sheik Abdullah. S	B.A.I.S. I Year	Won the Third prize in Arabic Oratorical competition in the "SOUL - 2014" organized by Hindustan College of Arts and Science, Chennai on 12.09.2014.

## SOCIETY ACTIVITIES

- **Quran Teaching Association** – It assigns thirty students in beginning of each semester to teach Holy Quran for the students of Crescent School in the early morning times of working days. This activity is being conducted since 2010.
- **Baithul Mal** – A student's charity association. Contributions are being collected from the students and staff. One in a semester, after scrutinizing the application received from the needy students, scholarships and medical aids are dispersed.



## MoUs SIGNED

An MoU was signed with the University of North Carolina (UNC), one of the oldest State universities of the US. Professor Carl W Ernst, director of the Carolina Center for the Study of the Middle East and Muslim Civilizations, represented the University of North Carolina, while M Murugesan, Registrar, represented B S Abdur Rahman University.

The MoU would facilitate close collaboration between the two universities for student exchange, faculty exchange, collaborative research and organising international seminars and conferences jointly. The School of Islamic Studies, BSAU, and the Department of Religious Studies, UNC, will take the first step and initiate implementation of the MoU.



# SCHOOL OF SOCIAL SCIENCES & HUMANITIES

➤ **Dept. of English**



## SOCIAL SCIENCES & HUMANITIES

### CONFERENCES / FDP / SEMINARS / WORKSHOPS ::

- The School of Social Sciences organized a two day ICSSR Sponsored National Conference on Socio-Economic and Political Status of Muslims in India: Challenges and Development on 21 and 22 January 2015. The conference was inaugurated by Prof. Abdul Shaban, Pro Vice Chancellor, Tata Institute of Social Sciences, Mumbai. There was an overwhelming response for the conference. Participants were from Jammu and Kashmir, Uttar Pradesh, Kerala, West Bengal, Assam, Telengana, Tamil Nadu. The conference proceedings was released by the chief guest, Prof. Abdul Shaban.



- Dr. Shahin Sultana, Professor and Dean organized a guest-lecture “Social Sciences for Engineers” to the students of 1<sup>st</sup> year B.Tech. on 7.8.2014.



- A guest-lecture on “Importance of Law for Engineers” was organized for the benefit of the students of fourth semester B.Tech. on 25.3.2015. Dr. V. Balaji, Associate Professor in Law, Postgraduate department of International Law delivered the lecture.



#### **CONFERENCES / FDP / SEMINARS / WORKSHOPS ATTENDED:**

- Dr. Moon Moon Hussain participated in a National Conference on “Recent Trends and Challenges in Indian Business Scenario” organized by Crescent Business School, BSAU, Chennai, held on 12<sup>th</sup> November 2014.
- Muhammed Jamsheer T.P. participated in the Faculty Induction Training Programme organised by B.S. Abdur Rahman University, Vandalur, Chennai on 30 June – 07 July, 2014.
- Muhammed Jamsheer T.P. participated in a National Conference on “Recent Trends and Challenges in Indian Business Scenario” organized by Crescent Business School, BSAU, Chennai, held on 12<sup>th</sup> November 2014.
- Pushia, K.P. participated in the Faculty Induction Training Programme organised by B.S. Abdur Rahman University, Vandalur, Chennai on 30 June – 07 July, 2014.
- Pushia, K.P. participated in a National Conference on “Recent Trends and Challenges in Indian Business Scenario” organized by Crescent Business School, BSAU, Chennai, held on 12<sup>th</sup> November 2014.

#### **PAPERS PUBLISHED/ PRESENTED IN JOURNALS & CONFERENCES**

National Conference	International Conference	National Journal	International Journal	Total
-	1	-	3	4



INTERNATIONAL JOURNAL							
S. No.	Authors	Publication title	Journal title	Vol. No	Issue No.	Page No.	Month & Year of Publication
1.	Dr. Shahin Sultana	Developing Technical Writing Skills – An Eclectic Approach	<i>International Journal of Research and Humanities Arts and Literature</i>	2	8	35-40	August 2014
2	Dr. Moon Moon Hussain	Transformations in the Economy of Assam in the Post Economic Reform Period	<i>Indian Journal of Social Development</i> by Serials Publications	14	1	pp. 81-90	June 2014
3.	Muhammed Jamsheer TP	Are rich or better-off migrants in India? Evidence from the NSS data on Migration	Published Galaxy international Interdisciplinary Research Journal	2	3	pp. 59-67	March 2014.

**DETAILS OF PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS & CONFERENCES:**

INTERNATIONAL CONFERENCE									
S. No.	Department	Authors as appeared in the Presentation	Presentation Title	Conference Title	Volume No.	Issue No.	Page Nos.	Month & Year of Proceedings	No. of Citations
1	Economics	Mr. Muhammed Jamsheer TP	Migrants and Non migrants: Class level distinctions from a village level analysis of Mahabubnagar district” Presented at the 4 <sup>th</sup> International March 2014.	Econometric Conferences at IBS Hyderabad	Nil	Nil	Nil	Nil	Nil



# DEPARTMENT OF ENGLISH



## DEPARTMENT OF ENGLISH

### BOOKS PUBLISHED:

- The Text book “Interactive English” with ISBN-9788192366104 for I semester English course of B.Tech programme was brought by the Department. The book was authored by Dr. P.M.Usha Rani, Dr.Revathi Viswanathan, Dr.P.Rathna, Mrs.Catherine Anna Pushpam & Mr.S.Vijayakumar in June 2014.
- Dr.A.ShahinSultana, Professor and Dean published a book titled “Technical Writing for Engineers “in May 2014.
- Dr.P.Rathna, published the revised edition of the books Technical English I and Technical English II in June 2014.
- Dr.Revathi Viswanathan has written a chapter in a book titled 'Advances in Higher Education and Professional Development' published by IGI Global Publications, USA in January 2014.
- Dr. Md. Sahidul Islam has written a chapter in a book titled “*Indian Booker Prize Winners*” published in 2014 by Author Press, New Delhi.

### STUDENT ACTIVITIES:

Conducted the Business English Certificate Course exam (Vantage level) for the students of II Year B.Tech during March 2014.

Wiki spaces an online collaborative platform for writing was introduced for written communication for II semester. The course modules of written communication were also uploaded in the Wikispaces for student’s reference. Globerena software was also used to teach reports and Resume writing.

### Renewal of MOU

An MoU was renewed by the Department with Cambridge ESOL in November 2014. Business English Certificate courses at the Preliminary and Vantage levels are offered to all Students of B.Tech course.



**Renewal of MOU with the University of Cambridge at the Registrar’s Chambers at B.S.A.U**

## CONFERENCE/WORKSHOP HELD:

Organized a one day workshop on “Drafting an Effective Lesson Plan: An OBTL approach on October 10, 2014.

**Pro vice Chancellor distributes the certificates to the delegates during a one day workshop.**



## EXTENSION ACTIVITIES

- Dr.P.M.Usha Rani, Prof&Head English delivered a guest lecture on “Goal setting and Success Strategies “at Valliammai Engineering College on 26 September 2014.
- Dr.P.M.Usha Rani, Prof&Head English attended a one day workshop on “Investigating Professional Practice- Exploring Teachers Metaphors and Learning Styles –Multiple Intelligences on 11-12 July 2014.
- Dr.A.Shahin Sultana, Professor and Dean, Social Sciences and Humanities was nominated as academic coordinator for conducting Business English Certificate Course & organizing workshops & training programmes.
- Dr.A.Shahin Sultana, Professor and Dean, Social Sciences and Humanities organized a guest-lecture “Social Sciences for Engineers” to the students of 1<sup>st</sup> year B.Tech. on 7 August 2014.
- Dr.A.Shahin Sultana, Professor and Dean, Social Sciences and Humanities attended the International workshop “Building Capacity in Educational Leadership” organized by Deakin University, Australia and Education Matters on 11-12 August 2014.
- Dr.A.Shahin Sultana, Professor and Dean, Social Sciences and Humanities attended the Annual Team Leaders’ Meeting organized by Cambridge English as the Team Leader of the faculties of the department of English on 8 January 2015.
- Dr.A.Shahin Sultana, Professor and Dean, Social Sciences and Humanities attended the coordination programme organized by Cambridge English for Team Leaders and Speaking Examiners in connection with Business English Certificate Course Exams on 22 January 2015.



- Dr.A.Shahin Sultana, Professor and Dean, Social Sciences and Humanities attended the reception organized by Cambridge English for an interaction with Roger Johnson, Chief Operating Officer, University of Cambridge, London on 25 February 2015 at Taj Club House, Chennai.



- A guest-lecture on “Importance of Law for Engineers” was organized for the benefit of the students of fourth semester B.Tech. on 25.3.2015 by Dr. Mrs. A. Shahin Sultana, Professor and Dean, Social Sciences and Humanities. Dr. V. Balaji, Associate Professor in Law, Postgraduate department of International Law delivered the lecture.
- Dr.Revathi Viswanathan conducted two sessions in the workshop on ‘Virtual Classroom’ for teachers in Ethiraj College for Women on 25<sup>th</sup> September 2014. She Conducted a workshop on ‘Online Discussion for Enhancing Written Communication’ in ELTAI International Conference conducted from 21<sup>st</sup> to 23<sup>rd</sup> August 2014. She also conducted two sessions in the workshop on ‘Using Wiki for Teaching Writing Skills’ and ‘Using Mobile Devices for Learning’ in Kendriya Vidhyalaya, Trichy on 6<sup>th</sup> December 2014.
- Mrs. Catherine Anna Pushpam attended a one day workshop on “Investigating Professional Practice- Exploring Teachers Metaphors and Learning Styles –Multiple Intelligences on 11-12 July 2014.
- Mr.S.Vijayakumar Presented a guest lecture titled “Autonomous learning for developing oral proficiency at S.R.M Valliammai Engineering College, on 30<sup>th</sup> July 2014 during the literary day ‘Eclectic Lingua”.





**DEPARTMENT OF PHYSICAL  
EDUCATION**



# PHYSICAL EDUCATION

## NSO Classes for First Year Students

NSO Classes are conducted during the last period for first year students. Three sections (around 180 students) are engaged in various sports activities during this period every day.

## Coaching Camps for Students

Coaching Camps were organized for Men teams in Foot Ball, Basket Ball, Ball Badminton, Cricket, kabaddi, Volleyball, Badminton, and Athletics and for Women team in Ball Badminton, Throw Ball, Tennikoit, Volley Ball, Basket Ball, Badminton and Athletics.

## Sports Participation and Achievements by Students

Ball Badminton Women team Players Ms. M. Keerthana, II IT and Ms. S. Yasmin, II E&I participated in the State Level Senior Inter District Ball Badminton Championship, men team Players Mr. K. Vignesh III MCA and Mr. G. Barath Kumar II MCA Secured Second Place in the State Level Senior Inter District Ball Badminton Championship.

Ball Badminton Men team Players B. Sakthignanvel I ECE, Mr. M. Vinoth II Civil and Mr. R. Suresh II M.Sc (Act.Sc) participated in the State Level Senior Inter District Ball Badminton Championship organized by Tamilnadu Ball Badminton Association, Dindugal held at Kumarasamy Engineering College, Karur from 4<sup>th</sup> and 5<sup>th</sup> January 2014.

Our University Fencing Women Player Ms. S. Parveen – I CSE 'B' participated in the All India Inter University Fencing Championship 2013-14 organized by Punjabi University, Patiala from 30<sup>th</sup> December 2013 to 8<sup>th</sup> January 2014.

Wushu / Kung-Fu Men Team Player Mr. K. Mohammed Rashid – II Civil Participated in the 6<sup>th</sup> All India Wushu / Kung-Fu Championship 2014 organized by Wushu School of Shaolin Martial Arts held at Bangalore on 4<sup>th</sup> & 5<sup>th</sup> January 2014 and Secured II Place in Sanshu / Tholu event in 56-60 Kg Category.

Volleyball Men and Tennis Men teams participated in the Tamilnadu Inter Deemed University tournaments 2013-14 organized by SRM University, Kattankulathur on 9<sup>th</sup> and 10<sup>th</sup> January 2014.

Mr. K. Vignesh III MCA represented the Tamilnadu State Senior Ball Badminton team which won the Fourth place



in the senior National Ball Badminton Championship held at Khammam, Andhra Pradesh from 11<sup>th</sup> to 15<sup>th</sup> January 2014.

Ms. S. Yasmin II E&I represented the Tamilnadu State Senior Ball Badminton team which the senior National Ball Badminton Championship held at Khammam, Andhra Pradesh from 11<sup>th</sup> to 15<sup>th</sup> January 2014.

Badminton Men and Women teams participated in the Tamilnadu State Inter Deemed University Badminton tournament for the year 2013-14 organized by Chettinad Academy of Research & Education, Kelambakkam, Chennai on 24<sup>th</sup> and 25<sup>th</sup> January 2014. Our Men Team secured **Runners-up** Position with cash Prize Rs. 10,000/- , Certificate and Trophies.



Ball Badminton Men team Player Mr. G. Barath Kumar II MCA Secured Second Place in the Two Senior State Level open Ball Badminton Championship held at R.S. Puram Ball Badminton Club, Coimbatore from 25<sup>th</sup> to 27<sup>th</sup> January 2014.

Volleyball  
Men, Kabaddi  
Men, Cricket

Men and Throw Ball Women teams participated in the Sri Sairam Trophy 2013-14 organized by Sri Sairam Engineering College, Chennai from 25<sup>th</sup> to 26<sup>th</sup> January 2014.



Volleyball Men team Players participated in the State Level Dr. KCG Verghese Memorial Trophy 2013 -14 organized by KCG College of Technology, Karapakkam, Chennai from 28<sup>th</sup> to 29<sup>th</sup> January 2014.

Table Tennis Men and Women teams participated in the Tamilnadu State Inter Deemed University Table Tennis tournament for the year 2013-14 organized by Sri Ramachandra University, Porur, Chennai on 29<sup>th</sup> and 30<sup>th</sup> January 2014.

Ball Badminton Men team Player Mr. G. Barath Kumar II MCA Secured Third Place in the Senior State Level open Ball Badminton Championship held at Hymalaya Sports Club, Tirupur from 31<sup>st</sup> January 2014 to 2<sup>nd</sup> February 2014.

Ball Badminton Men team Player Mr. R. Suresh II M.Sc (Act.Sc) Secured Fourth Place in the Senior State Level open Ball Badminton Championship held at Hymalaya Sports Club, Tirupur from 31<sup>st</sup> January 2014 to 2<sup>nd</sup> February 2014.



Ball Badminton Women team participated in the South Zone Inter University Ball Badminton Women tournament 2013-14 organized by Dravidian University, Kuppam, Andhra Pradesh from 1<sup>st</sup> to 4<sup>th</sup> February 2014.

Ball Badminton Men team Player Mr. R. Suresh II M.Sc (Act.Sc) Secured First Place in the Chennai District Ball Badminton Tournament held at Chennai from 8<sup>th</sup> to 10<sup>th</sup> February 2014.

Volleyball Men team participated in the South Zone Inter University Volleyball Men tournament 2013-14 organized by Sri Venkateswara University, Tirupati, Andhra Pradesh from 5<sup>th</sup> to 11<sup>th</sup> February 2014.

### **Chess (Women)- IV Place**

Athletics Men and Women teams participated in the Tamilnadu State Inter Deemed University Athletic Meet for the year 2013-14 organized by Alagappa University, Karaikudi on 15.02.2014. The following students won the Prizes with Cash awards.



### **State Level Tournaments Organized**

Our Department has successfully organized State Level - Dr. B. S. Abdur Rahman - Founder's Trophy Foot Ball Tournament for Men for the 14<sup>th</sup> year in succession. Prof. S. Peer Mohamed Memorial Trophy Basket ball Tournament for Men was conducted for 8<sup>th</sup> year and Silver Jubilee Trophy Ball Badmintons Tournaments for Men and Women were organized for 6<sup>th</sup> year, all during the Second week of March 2014. The tournaments were of high quality due to the participation of top teams from in and around Chennai and from southern part of the state. Cash Prizes to the tune of Rs. 44,000/- were awarded to the first four prize Winners in all the four games in addition to Rolling Trophies, Individual prizes and Certificates. Free boarding and lodging facilities were extended to all the team players, team managers, officials and student volunteers.

Dr. Jalees A.K. Tareen, our Honorable Vice Chancellor was the Chief Guest and distributed the Rolling Trophies, Cash Prizes, Individual Prizes and Certificates to Basket Ball(Men), Foot Ball (Men) and Ball Badminton(Men &Women) Prizes Winners.

Dr. V.M. Periasamy, Pro Vice Chancellor and Alhaj V.N.A. Jalal, Director (Admission) participated in the prize distribution functions.

Dr. S. Chandran, Director of Physical Education and Organizing Secretary Introduced the Chief Guest in the Prizes distribution function and Organized the Tournaments Successfully along with Dr. R. Auvai, Deputy Director of Physical Education and Mr. B. Akbar Ali, Asst. Director of Physical Education.

### **Final Results - Ball Badminton Men**

First Place – B.S. Abdur Rahman University  
Second Place – Valliammai Engg. College, Kattankulatur  
Third Place – St. Joseph's College of  
Engg  
Fourth Place – SRM University



## Ball Badminton Team (Men)- Winners -2013-14

### Final Results - Ball Badminton Women



- First Place – B.S. Abdur Rahman University
- Second Place – St. Joseph's Institue of Tech
- Third Place – VSA Institutions,Salem
- Fourth Place – SRM University

## Ball Badminton Team (Women)- Winners -2013-14

### Final Results - Foot Ball Men

- First Place – Sathyabama University
- Second Place – B.S. Abdur Rahman University
- Third Place – Sri Venkateshwara college of Engg
- Fourth Place – Hindustan University

## Foot Ball Team (Men)- Runners-Up-2013-14

### Final Results - Basket Ball Men

- First Place – Sathyabama University
- Second Place – B.S. Abdur Rahman University
- Third Place – Jeppiaar Institute of Technology
- Fourth Place – SRM University

### Annual Sports Day Function

Our University Annual Sports Day was celebrated on 23<sup>rd</sup> April 2014. Our Pro Vice Chancellor Dr .V. M. Periasamy, hoisted the University flag, took the guard of honour for March Past and declared the Sports meet open. The Sports Day events were conducted from 2.15 PM to 5.00 PM. Then the Prize Distribution function was held at 5.30 PM. Dr. S. Chandran, Director of Physical Education welcomed the gathering and presented the Annual Report on the sports activities of the University. Dr. R. Auvai, Deputy Director of Physical Education, co-ordinated the Students for getting Prizes & Awards. Pro Vice Chancellor Dr .V. M. Periasamy, and Registrar Dr .V. Murugesan, addressed the gathering and distributed the Medals and certificates to the prize winners. Mr. A.R. Muhammad Ashiq IV B.Tech Civil, University Sports Secretary, proposed the vote of thanks.



### Special Awards

Two Special Prizes were awarded on Sports Day, one for the Best Sportsman and another Best Sportswoman from the Outgoing Students.

The following two Students were nominated for the award.

- 1. Best Sportman - Mr. A.R. Muhammad Ashiq - IV B.Tech Civil
- 2. Best Sportswoman - Ms. R.Brindha – IV B.Tech CSE

List of Intramural Matches and Athletic events conducted by our department during the month of January, February, March 2014 in connection with Annual Sports day

Men events

SL .N o	Events	I years	II years	III years	IV years	MBA / M.Tech/ M.Sc	MCA
1	Volley Ball	-	-	Runners-up	Winners	-	-
2	Ball Badminton	-	-	-	-	Runners-up	Winners
3	Cricket	-	-	Runners-up	Winners	-	-
4	Basket Ball	-	Winners	-	Runners-up	-	-
5	Football	-	Winners	Runner-up	-	-	-
6	Shuttle Badminton	-	-	-	-	Runners-up	Winners
7	Table Tennis	-	-	Runners-up	Winners	-	-
8	Tennis (singles)	-	-	Runners-up	Winners	-	-
9	Kabaddi	-	-	Winners	Runners-up	-	-
10	Carrom	-	-	-	-	Runners-up	Winners
11	Chess	Runners-up	-	-	Winners	-	-
12	100 M Dash	-	II	III	I	-	-
13	200 M Dash	II	-	III	I	-	-
14	400 M Dash	I/III	-	II	-	-	-
15	800 M Dash	-	-	I	III	II	-
16	1500 M Race	-	-	II	III	I	-
17	5000 M Race	III	-	I/II	-	-	-
18	High Jump	I/III	II	-	-	-	-
19	Long Jump	I/III	-	-	II	-	-
20	Shot Put	-	II/III	-	I	-	-
21	Discus Throw	II	-	III	-	I	-
22	Hammer Throw	-	-	II/III	I	-	-
23	Javelin Throw	-	-	-	I/II	III	-
24	Swimming (50 M Free Style)	III	-	-	I	II	-
25	Swimming (25 M Back Stock)	-	-	II	I	III	-
26	4x100m Relay	I	II	-	III	-	-
27	4x400m Relay	I	-	III	II	-	-

Women events

SL .N o	Events	I years	II years	III years	IV years	PG's
1	Throw Ball	-	-	Winners	Runners-up	-
2	Volley Ball	-	-	Winners	Runners-up	-
3	Basket Ball	Runners-up	-	Winners	-	-
4	Ball Badminton	-	-	Runners-up	-	Winners
5	Tennikoit	-	Runners-up	-	Winners	-
6	Shuttle Badminton	-	-	Winners	-	Runners-up
7	Table Tennis	Winners	-	Runners-up	-	-
8	Carron	Runners-up	-	Winners	-	-
9	Chess	Runners-up	Winners	-	-	-
10	100 M Dash	-	-	I	II/III	-
10	200 M Dash	-	-	I	II/III	-
11	400 M Dash	-	-	III	I/II	-
12	800 M Race	II/III	-	-	I	-
13	1500 M Race	-	III	II	I	-
14	3000 M Walk	III	-	-	I/II	-
15	High Jump	I/III	-	-	-	II
16	Long Jump	-	-	I/III	II	-
17	Triple Jump	III	-	I	II	-
18	Shot Put	-	-	II/III	I	-
19	Discus Throw	II/III	-	I	-	-
20	Hammer Throw	-	-	II	I/III	-
21	Javelin Throw	II	-	I	III	-
22	4x100m Relay	-	III	I	II	-





Ball Badminton Men team Players **Mr. K. Vignesh I M.Tech [IT]** and **Mr. G. Barath Kumar III MCA** participated in the **All India Ball Badminton Men Tournament** organized by **BMD Portnova Ball Badminton Club** on 8<sup>th</sup> and 9<sup>th</sup> August 2014 at Cudalore, Parankipettai.

Ball Badminton Women team Players participated in the All India inter Collegiate Ball Badminton Tournament organized by **Newgen Ball Badminton club, Mylapore, Chennai** and won the fourth place with a cash prize Rs 8000/- plus Trophy medals, and certificates and also **Ms. M. Keerthana – III Year IT** won the best player award, on 12<sup>th</sup> and 13<sup>th</sup> July 2014.



Organized by Bharathiar University, Coimbatore from 26<sup>th</sup> to 30<sup>th</sup> December 2014 held at Coimbatore.

Ball Badminton Men team Players won the All India Ball Badminton Men Tournament held at Karaikudi from 16<sup>th</sup> July 2014 to 18<sup>th</sup> July 2014 and also received cash award Rs.13,000/-.



Ball Badminton Women team Players won the State Level Ball Badminton Tournament organized by Kamaraj Sports Club, Karaikal on 26<sup>th</sup> and 27<sup>th</sup> July 2014.

Ball Badminton teams (Men and Women), Football (Men), Tennis (Men), Basketball (Men), Volleyball (Men), Cricket (Men) teams participated in the SRM Founder's Trophy, organized by the SRM University, Potheri, from 24<sup>th</sup> August 2014 to 26<sup>th</sup> August 2014.

Badminton and Basketball Men Teams participated in the SSN Trophy Organized by SSN College of Engineering, Kalavakkam, and Chennai on 26<sup>th</sup> August 2014.

Football Men, Cricket Men, Volleyball Men, Kabaddi Men Teams participated in the Tamil Nadu Physical Education and Sports University(TNPE & SU Trophy) held at Melakottaiyur on 26<sup>th</sup> August 2014.

Ball Badminton Teams (Men & Women), Throw Ball (Women), Staff Ball badminton (Combined) participated in the State level Buck memorial Trophy 2014 organized by YMCA college of Physical Education from 26<sup>th</sup> August 2014 to 28<sup>th</sup> August 2014.

Ball Badminton women Team participated in the State Level Open Tournament organized by Amman Ball Badminton club, Kumarapalayam on 6<sup>th</sup> and 7<sup>th</sup> September 2014.



V.S. Abrar Ahamed represented Tamil Nadu State for the 11<sup>th</sup> Senior National Roll Ball Championship for the Boys and Girls held at Partiputra Sports Complex, KomKarbagh, Patna, Bihar from 31<sup>st</sup> Oct to 2<sup>nd</sup> Nov 2014.

K. Mohammed Rashid – II Civil participated as a Sanshou player Jr. in Strict Wushui Championship held at Vaithi Thinumama Maligai, Chennai, on 19<sup>th</sup> October 2014 organised by Chennai district Wushui Club, Under the auspices of Tamil Nadu Wushui Association and he won Gold medal in 61-65 kg Sanshou.

Mr.K.Vignesh ( I M.Tech IT ) represented Tamilnadu State Ball Badminton team which won the third place in the Senior National Ball Badminton Championship held Vijayawada (AP).

Mr. Sakthignanavel ( II ECE ) represented Tamilnadu State Junior Ball Badminton team which won the First place and he has been awarded “The Star of India” in the 60<sup>th</sup> Junior National Ball Badminton Championship for Men held at Kaithal Haryana/India from 11<sup>th</sup> to 15<sup>th</sup> December

Ms. M. Keerthana [III IT 'A'] participated in the State Level Ball Badminton Tournament 2014-15 organized by Paavai Engineering College, Salem from 13<sup>th</sup> to 15<sup>th</sup> September 2014. She secured Runner Up position in the above Tournament and also she was selected for the National Level Tournament to be held at Haryana (Tamil Nadu Team).

Ball Badminton Women team Player Ms. S. Yasmin, III E&I represented the Tamilnadu State Ball Badminton Women team which won the Senior National Championship 2014-15, held at Nellore, Andhra Pradesh from 16<sup>th</sup> to 19<sup>th</sup> October 2014. She was awarded Gold Medal, Certificate, Trophy and for her achievement in the above tournament.

Ball Badminton Women team Player Ms. G. Asha Jyothi , II M.Tech (COS) represented the Andhra State Ball Badminton Women team which won the Third Place in Senior National Championship 2014-15, held at Nellore, Andhra Pradesh from 16<sup>th</sup> to 19<sup>th</sup> October 2014. She was awarded Bronze Medal, Certificate, Trophy and for her achievement in the above tournament.

### **South Zone Inter University Cricket Men Tournament**

Cricket Men team participated in the South Zone Inter University Cricket Men Tournament 2014-15 organized by Anna University, Chennai from 17<sup>th</sup> to 26<sup>th</sup> November 2014 held at J.J.College of Engg & Tech, Trichy.

### **South Zone Inter University Foot Ball Men Tournament**

Football Men Team participated in the South Zone Inter University Tournament held at Calicut University, Calicut on 13<sup>th</sup> December 2014 TO 22<sup>ND</sup> December 2014.



### **South Zone Inter University Basket Ball women Tournament**

Basket Ball women team participated in the



South Zone Inter University Basket Ball women Tournament 2014-15 organized by Hindustan University, Chennai from 5<sup>th</sup> to 9<sup>th</sup> November 2014 held at DBJ College, Chennai.

### **South Zone Inter University Badminton (M&W) Tournament**

Badminton Men & women teams participated in the South Zone Inter University Badminton (M&W) Tournament 2014-15 organized by Bharathiar University, Coimbatore from 26<sup>th</sup> to 30<sup>th</sup> December 2014 held at Coimbatore.

### **South Zone Inter University Kabaddi Men Tournament**

Kabaddi Men team participated in the South Zone Inter University Kabaddi Men Tournament 2014-15 organized by Vel's University, Chennai from 20<sup>th</sup> to 24<sup>th</sup> December 2014 held at Chennai.



### All India Inter University Ball Badminton Men Tournament

Ball Badminton Men team won the **Fourth place** in the All India Inter University Ball Badminton Men Tournament 2014-15 organized by SRM University, Potheri from 20<sup>th</sup> to 24<sup>th</sup> December 2014 held at Potheri.

### South Zone Inter University Volley Ball Women Tournament

Volley ball Women Team participated in the South Zone Inter University Tournament held at D.B. Jain University on 3<sup>rd</sup> January 2015. organized by University of Madras, Chennai from 26<sup>th</sup> to 30<sup>th</sup> December 2014.

### Kick-Boxing

Mr.M.Sathyapriyan, B.Tech (I-Biotechnology) won the first place in kick-Boxing tournament conducted by MSVKA (Manja Style Varmakkalai Knock-Out Academy) in the high weight category on 26<sup>th</sup> December 2014.



### South Zone Inter University Basket Ball Men Tournament

Basket Ball Men Team participated in the South Zone Inter University Tournament held at Sathyabama University on 3<sup>rd</sup> January 2015. Mr.Cyril Nicholas III ECE-A has been awarded the “BEST PLAYER” in the above said Tournament.

### C.M Trophy Ball Badminton Tournament 2014-15

Ms. M. Keerthana III IT ‘A’ and S.Yasmin – III E&I won the Third place with a cash prize Rs.7500/ per each in the State Level C.M Trophy Ball Badminton Tournament 2014-15 organized by N.P.R Engineering College, Dindugul from 23<sup>rd</sup> to 25<sup>th</sup> January- 2015.

### Brief report on All India Inter University Ball Badminton (Women)Tournament 2014-15

The Association of Indian Universities entrusted the responsibility of organizing the All India Inter University Ball Badminton (Women) Tournament 2014-15, to our University. The department of Physical Education as per the direction from our management, Vice-Chancellor, Pro Vice-Chancellor, Registrar and Director (Admissions) organized the above tournament in our university campus from 26<sup>th</sup> to 30<sup>th</sup> December 2014. Invitation letters were sent to all the universities in India and entries received from 80 universities. Fixtures were drawn and sent to all participating universities one month ahead of the tournament.

During the tournament period accommodation, boarding facility and transport facility were provided to all participants, team managers, coaches and officials.

## Inaugural Function

The tournament was inaugurated by our Chairman, Board of Management Mr. Abdul Qadir A. Rahman Buhari and took the guard of honour given by all the participating teams who took part in the March past. Our chairman declared open the tournament.

Our honourable Vice Chancellor Dr. J.A.K. Tareen (Padma Shri) presided over the inaugural function and delivered presidential address.

The Chief Guest Shri. D. V. Sundar, Vice-President, World Chess Federation (FIDE), addressed the gathering and appreciated the efforts taken by the management for organizing such a mega event. He also released the tournament Souvenir.

Dr. K. A. Tarzan, AIU Observer was the guest of honour, and our Vice Chancellor honoured him with a Shawl. Dr. V. M. Periasamy, Pro-Vice Chancellor, delivered a brief report about the tournament. Dr. V. Murugesan, Registrar, presented a Shawl to chief guest. Mr. V. N. A. Jalal, Director (Admissions) presented the Memento to chief guest, Dr. S. Chandran, Director of Physical Education & Organizing Secretary and his team organized the March past. Dr. R. Auvai, Deputy Director of Physical Education, delivered the welcome address and Dr. B. Chenpagapandian, Deputy Director of Physical Education, introduced the chief guest to the audience.



## Conduct of Matches

62 Universities participated in this event. Totally 7 courts including one flood light court were used for conducting all the matches. Knock out matches up to quarter finals were conducted on 26<sup>th</sup>, 27<sup>th</sup> 28<sup>th</sup> December and semifinal league matches were conducted on 29<sup>th</sup> and 30<sup>th</sup> December.



Fourteen qualified Ball badminton officials from Tamil Nadu deputed from Tamil Nadu Ball Badminton Association officiated the matches and the tournament was conducted as per AIU norms and BBFI rules under the direct supervision of AIU Observer Dr. K.A. Tarzan who was present on all days in the courts.

All the matches were completed without any protest or complaint from any team managers.

### Prize Distribution Function

Smt. V. Jayalakshmi, Olympian and Senior Manger, Indian Bank was the chief guest and distributed the trophies and cash prizes to first four prize winners. The Best player awards were also given to 5 outstanding players for each position.

Dr. K.A. Tarzan, AIU Observer gave his observation about the conduct of the tournament, appreciated and congratulated the management, Vice Chancellor, University authorities, Physical Education Department and other staff for

their best effort taken for the successful conduct of this tournament.

### The following are the Final Results

- Winners : Mangalore University, Mangalore
- Runners up : SRM University, Kattankulathur
- Third Place : B.S. Abdur Rahman University
- Fourth Place : Anna University, Chennai



# ACADEMIC COUNCIL





## MEMBERS OF ACADEMIC COUNCIL

Sl. No	Name and Address	Position
1	<b>Prof. J.A.K. Tareen</b> Vice Chancellor B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Chairman
<b>EDUCATIONISTS NOMINATED BY THE CHANCELLOR (PRESIDENT)</b>		
2	<b>Prof. S. Modi</b> (Former Professor of Emeritus, Anna University) AJ 83, 10 <sup>th</sup> Main Road, Anna Nagar, Chennai – 600 040.	Member
3	<b>Prof. Syed Mahdi Abbas Rizvi,</b> Professor, Dept. of Mechanical Engineering Aligarh Muslim University, Aligarh, India – 202 002	Member
4	<b>Prof. P. V. Venkat Ramaiah</b> Former Vice Chancellor, Kuvempu University & Former Chancellor, NCTE, No.436, Viswamanava Double Road, Kuvempu Nagar, Mysore – 570 009	Member
<b>SPECIALISTS CO-OPTED BY THE ACADEMIC COUNCIL</b>		
5	<b>Dr. V. Raju</b> Vice Chancellor, Vellore Institute of Technology, Vellore.	Member
6	<b>Prof. Furqan Qamar,</b> Vice Chancellor, Central University of Himachal Pradesh P.O. Box No. 21, Dharmashala, Dist. Kangra, Himachal Pradesh – 176 215.	Member
7	<b>Dr. S. P. Thyagarajan</b> (Former Vice Chancellor, University of Madras) Director & Chief Advisor (Research) Sri Ramachandra University, Porur, Chennai 600 116	Member
8	<b>Dr. Gowri Sankar,</b> Director, Group Materials Research, India Piston Rings, Maraimalai Nagar, Kanchipuram Dist	Member

Sl. No	Name and Address	Position
<b>ALUMNI REPRESENTATIVE</b>		
9	<b>Mr. K. Bhaskar</b> , Technical Manager, Embedur System, JVL Plaza, V Floor, Teynampet, Chennai 600 018	Member
10.	<b>Prof. Syed Islam</b> Professor, Electrical Power Engineering, Curtin University of Technology, Perth, s.islam@curtin .edu.au\	
11.	<b>Mr. Abdul Qadir A. Rahman Buhari</b> Chairman, Board of Management, B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	
<b>NON MEMBER SECRETARY</b>		
12.	<b>Dr. V. Murugesan</b> Registrar B. S. Abdur Rahman University, Vandalur, Chennai – 600 048.	Member
<b>PROVC, DEANS, DIRECTORS &amp; COE</b>		
13.	<b>Dr. V.M. Periasamy</b> Pro Vice Chancellor B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
14.	<b>Dr. M.V. Moly Kutty</b> Prof. & Dean, School of Infrastructure Sciences B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
15.	<b>Dr. M. Murugan</b> Prof. & Dean, School of Mechanical Sciences B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
16.	<b>Dr. S. Kaja Mohideen</b> Prof. & Dean, School of Electrical & Communication Sciences B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
17.	<b>Dr. K.M. Mehata</b> Prof. & Dean, School of Computer, Information & Mathematical Sciences B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member

<b>Sl. No</b>	<b>Name and Address</b>	<b>Position</b>
18.	<b>Dr. S.K.G. Ganesh</b> Prof. & Dean, Crescent Business School B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
19.	<b>Ar. S. Ravi</b> Dean, Crescent School of Architecture B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
20.	<b>Dr. I.B. Shameem Banu</b> Prof. & Dean, School of Physical and Chemical Sciences B.S. Abdur Rahman University, Vandalur, Chennai – 600 048.	Member
21.	<b>Dr. A. Shahin Sultana</b> Prof. & Dean, School of Social Sciences and Humanities B.S. Abdur Rahman University, Vandalur, Chennai – 600 048.	Member
22.	<b>Dr. P.S. Syed Masood</b> Prof. & Dean, School of Islamic Studies B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
23	<b>Dr. T. R. Rangaswamy</b> Prof. & Dean (Academic Affairs) B.S. Abdur Rahman University, Vandalur, Chennai – 600 048.	Member
24	<b>Dr. R. Raja Prabu</b> Prof. & Head, EEE & Dean (Academic Research) B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
25	<b>Dr. S.S.M. Abdul Majeed</b> Prof. & Head, Polymer & Dean (Student Affairs) B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
26	<b>Mr. V. N. A. Jalal</b> Director (Admissions & Campus Development) B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
27	<b>Dr. S. Prince Arockiadoss</b> Prof. & Director, International Collaboration B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
28	<b>Dr. I. Mohammed Bilal</b> Controller of Examinations B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member

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29	<b>Dr. S. Hemalatha</b> Prof. & Dean, School of Life Sciences B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
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30	<b>Dr. M. S. Haji Sheik Mohamed,</b> Professor & Head., Department of Civil Engineering B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
31	<b>Dr. P. K. Jawahar</b> Professor & Head., Department of Electronics and Communication Engineering B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
32	<b>Dr. Sharmila Sankar</b> Professor & Head., Department of Computer Science & Engineering B.S. Abdur Rahman University, Vandalur, Chennai – 600 048.	Member
33	<b>Dr. Latha Tamilselvan</b> Professor & Head., Department of Information Technology B.S. Abdur Rahman University, Vandalur, Chennai – 600 048.	Member
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35	<b>Dr. P. Vasantha Kumar</b> Professor & Head., Department of Aerospace Engineering B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
36	<b>Dr. D. Najumnissa Jamal</b> Professor & Head., Department of Electronics & Instrumentation Engineering B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
37	<b>Dr. P. Sheik Abdul Khader</b> Professor & Head., Department of Computer Applications B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member

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38	<b>Dr. P.S. Sehik Uduman</b> Professor & Head., Department of Mathematics B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
39	<b>Dr. M. Basheer Ahamed</b> Professor & Head., Department of Physics B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
40	<b>Dr. D. Easwaramoorthy</b> Professor & Head., Department of Chemistry B.S. Abdur Rahman University, Vandalur, Chennai – 600 048	Member
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43	<b>Dr. Vasanthi Padmanabhan</b> Professor Department of Civil Engineering B.S. Abdur Rahman University, Vandalur, Chennai 600 048	
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45	<b>Prof. R. Rajaraman</b> Professor Department of Mechanical Engineering B.S. Abdur Rahman University, Vandalur, Chennai 600 048	
46	<b>Dr. M. Munir Ahamed Rabbani</b> Professor Department of Computer Applications B.S. Abdur Rahman University, Vandalur, Chennai 600 048	
47	<b>Dr. R. Shriram</b> Professor Department of Computer Science and Engineering B.S. Abdur Rahman University, Vandalur, Chennai 600 048	

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