



B.S. Abdur Rahman

# Crescent

Institute of Science & Technology

Deemed to be University u/s 3 of the UGC Act, 1956

GST Road, Vandalur, Chennai 600 048

# ANNUAL REPORT

## 2017 - 18



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## **VISION AND MISSION**

### **VISION**

B.S. Abdur Rahman Crescent 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 Institution
- ❖ 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**

**Prof.Tan Sri Dato' Sri Ir. Dr. SAHOL HAMID BIN ABU BAKAR,**  
D.Phil (C.Engg.) (Sussex), Dr. Ing. E.h. (Stuttgart), DSc. (Hon)(Sussex), AMP,  
INSEAD (FRANCE), MSc. (C.Eng.) (Colorado), MSc. (Econs) (Colorado),  
B.Eng (Hons) (ITM)

### **REGISTRAR**

**DR.V.MURUGESAN,M.Sc., M.Phil., Ph.D**

**Dr. M. S. HAJI SHEIK MOHAMMED, B.E., M.S., Ph.D.(Incharge: 01.01.18-  
31.07.18)**

### **DIRECTOR (HUMAN RESOURCE & FTA)**

**Ms. NIKHAT M HAMZA, M.B.A.**

### **DIRECTOR(ARIA)**

**DR. R. RAJA PRABU,B.E., M.E., P.G.D.B.A., Ph.D.,**

### **DIRECTOR(ADMISSIONS)**

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

### **DIRECTOR (PG ADMISSIONS)**

**Dr. S.K.G. GANESH, B.E., M.S., M.B.A., Ph.D.**

### **DEPUTY REGISTRAR (ADMINISTRATION)**

**Dr. N.RAJA HUSSAIN, Ph.D.**

### **DEPUTY REGISTRAR (FINANCE)**

Mr. E.M. SHAH ABDUL KHADER, M.Com.,

### **DEPUTY REGISTRAR (ACADEMIC & STUDENTS)**

Mr. C.N. SURESH BABU, M.A.,

### **ASSISTANT REGISTRAR & PUBLIC RELATIONS OFFICER**

Mr. F. ABUBECKER, M.A., B.Ed., M.B.A.

### **COORDINATORS - ONLINE ENTRANCE EXAMINATIONS**

Dr. L. ARUN RAJ, B.E., M.E., Ph.D.

Ms. S. SHARON PRIYA, B.E., M.E.

### **PROFESSIONAL COUNSELLOR**

Dr. S. HAMEED KADAR ALI, M.A., M.Sc., Ph.D.

## **ACADEMIC**

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

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

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

Dr. I. RAJA MOHAMED, M.Sc., M.Phil., Ph.D.

### **DEAN (STUDENT AFFAIRS - MALE)**

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

### **DEAN (STUDENT AFFAIRS - FEMALE)**

Dr. A. JAYA, M.C.A., M.E., Ph.D.

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

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

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**DEAN (SCHOOL OF INFRASTRUCTURE)**

Dr. VASANTHI PADMANABHAN, B.Tech., M.Tech., Ph.D.

**DEAN (SCHOOL OF MECHANICAL SCIENCES)**

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

**DEAN (CRESCENT SCHOOL OF ARCHITECTURE)**

Prof. G. JEYALAKSHMI, B.Arch., M.Arch.

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

Dr. S. KUTTI RANI, M.Sc., M.Phil., Ph.D., M.B.A.

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

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

**DEAN (SCHOOL OF LIFE SCIENCES)**

Dr. S. HEMALATHA, M.Sc., Ph.D.

**DEAN (SCHOOL OF ARABIC & ISLAMIC STUDIES)**

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

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**DEAN (CRESCENT SCHOOL OF LAW)**

DR.K.NILAMUDEEN, M.A.ML.PhD

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DR. D. EASWARAMOORTHY, M.Sc.,Ph.D.,

**DIRECTOR (POLYMER NANOTECHNOLOGY CENTRE)**

DR. BIKASH CHANDRA CHAKRABORTY, B. Ch. E, Ph.D

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

Dr. A. SELVAKUMAR, B.E., M.E., P.G.D.M.M., Ph.D.

**OFFICE OF THE CONTROLLER OF EXAMINATIONS**

**CONTROLLER OF EXAMINATION**

Dr. M. MUNIR AHAMED RABBANI, M.Sc., B.Ed., M.Phil., PGDCA., MCA., Ph.D.

**DEPUTY CONTROLLER OF EXAMINATION**

Mr. A. SAIBULLA, M.Sc., M.Phil.

**ASSISTANT CONTROLLER OF EXAMINATION**

Mr. A.K.KALILUTHIN, B.E., M.E.,

Mr.S.SYED ABDUL SYED, B.E., M.Tech.

**HEADS OF DEPARTMENT**

**DEPARTMENT OF CIVIL ENGINEERING**

**PROFESSOR & DEAN**

Dr. VASANTHI PADMANABHAN, B.Tech., M.Tech., Ph.D.

**DEPARTMENT OF AEROSPACE ENGINEERING**

**PROFESSOR & HEAD**

Dr. P.N. KADIRESH, B.E., M.E., Ph.D.

**DEPARTMENT OF AUTOMOBILE ENGINEERING**

**PROFESSOR & HEAD**

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

**DEPARTMENT OF MECHANICAL ENGINEERING**

**PROFESSOR & DEAN**

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

**DEPARTMENT OF POLYMER ENGINEERING**

**PROFESSOR & HEAD**

Mr. BASANTA KUMAR BEHERA, AMIE (Mechanical), M.Tech, (Ph.D)

**DEPARTMENT OF MANAGEMENT STUDIES**

**PROFESSOR & HEAD**

Dr. HAIDER YASMEEN, M.A.(SW), M.B.A., M.Phil., Ph.D.

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**PROFESSOR & HEAD**

DR Y. MOHAMED SHUAIB ,B.E.,M.E.,Ph.D

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**PROFESSOR & HEAD**

Dr. C. THARINI, B.E., M.E., Ph. D.

**DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING**

**PROFESSOR & HEAD**

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

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**PROFESSOR & HEAD**

Dr. M. SANDHYA, B.E., M.E., M.B.A., Ph.D.

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**PROFESSOR & HEAD**

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

**DEPARTMENT OF COMPUTER APPLICATIONS**

**PROFESSOR & HEAD**

Dr. A. JAYA, M.C.A., M.E., Ph.D.

**DEPARTMENT OF MATHEMATICS & ACTUARIAL SCIENCE**

**PROFESSOR & HEAD**

Dr. S. RAJASEKARAN, M.Sc., Ph.D.

## **DEPARTMENT OF PHYSICS**

### **PROFESSOR & HEAD**

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

## **DEPARTMENT OF ENGLISH**

### **PROFESSOR & HEAD**

Dr. REVATHI VISWANATHAN, M.A. M.Ed., Ph.D.

## **DEPARTMENT OF COMMERCE**

### **PROFESSOR & HEAD**

Dr. AFZALUR RAHMAN, M.Com., Ph.D.

## **OTHERS**

### **DIRECTOR OF PHYSICAL EDUCATION**

Dr. R. AUVAI, B.P.E.S., B.P.Ed., M.P.Ed., M.Phil., Ph.D., M.Sc.(YOGA),  
TTCCY., PGDSM

### **LIBRARIAN**

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

### **DIRECTOR OF PLACEMENT & TRAINING CELL**

Mr. S. MOHAMED TAJUDEEN, B.Tech., M.B.A.,  
Mr. K. GANESH, MBA (from 01.03.2018 onwards)

### **DIRECTOR OF CORPORATE AFFAIRS**

Mr. GANESH RATHINAM, BE, MBA, MDBA, MHRM

## **ABOUT THE INSTITUTION**

The Institution is guided by Mr. Abdul Qadir A. Rahman Buhari, Chairman Board of management and administered by a team headed by Professor Emeritus Tan Sri Dato Sri Ir. Dr. Sahol Hamid Bin Abu Bakar, Vice Chancellor, Dr.V.Murugesan, Registrar and Dr M.S.Haji Shaik Mohammed, Registrar (i/c) are making sincere efforts to achieve excellence in Teaching - Learning process, Research, Consultancy and Extension activities. The administration is also supported Controller of examinations, Deans, Directors, Professors of eminence, Heads of the departments and Staff members.

## **ACADEMIC AFFAIRS**

The main objective of Dean, Academic Office is planning and development of all academic programmes of the Institute such that it is dynamic, up to date, in line with current scientific developments and industrial relevance; and cater the needs of stakeholders. Plans the annual academic, technical and co-curricular activities including examination schedule such that students holistic development to face the challenges of the real world is encouraged. Manages the implementation of quality improvement practices by the faculty through proper guidance / motivation based on the feedback from students and other stakeholders. Also helps the students to solve academic related issues with ease by extending full cooperation.

Office of Academic affairs will be

- Facilitating updation of curriculum and syllabus for academic programmes
- Formulating regulations for academic programmes
- Ensuring quality teaching – learning process through structured mechanism
- Monitoring internal quality assurance mechanism
- Monitoring Institute Transformation KPI's
- Facilitating departments to organize Board of Studies
- Facilitating conduct of Academic Council, Academic & Administration Audit and Convocation




- Preparing Academic Calendar and facilitate Time-Table preparation
- Facilitating the conduction of redo courses by Departments
- Holistically monitoring the academic system of the Institute
- Redressing academic related student grievances
- Organising IQAC activities in coordination with Faculty Training Academy, Department/Schools and Centres etc.
- Involved in organising IQAC activities in co-ordination with Faculty Training Academy

### NEW SCHOOLS / DEPARTMENTS/CENTERS AND PROGRAMMES STARTED

- Crescent School of Law, Crescent School of Pharmacy, Department of Commerce were the new schools and department established and started offering programmes in the academic year 2017-18.
- The new programmes introduced are BBA, B.Com, B.Com (A&F), B.Pharm, B.Com LLB, BBA LLB, B.Sc. Biotechnology and B.Des.

**Academic Schedule for the year 2017-2018 is as follows**



06.12.2017

Academic Schedule for the Academic Year 2017-18

ACTIVITY	ODD SEMESTER			EVEN SEMESTER	
	UG & PG	I Semester – PG / Law / Pharmacy	SIS	ALL UG & PG	SIS
Commencement of the Academic Year	17.07.2017	23.08.2017	05.06.2017	08.01.2018	13.12.2017
CAT I	11.09.2017	26.10.2017	16.08.2017	26.02.2018	17.01.2018
CAT II	26.10.2017	04.12.2017	11.10.2017	16.04.2018	07.05.2018
Last Date for Payment of Exam Fees	13.10.2017			27.03.2018	
Last Date for Payment of Exam Fees with Fine	20.10.2017			03.04.2018	
Last Working Day	17.11.2017	19.12.2017	16.11.2017	04.05.2018	18.04.2018
Practical Courses – Semester End Exams	20.11.2017	03.01.2018	--	05.05.2018	--
Substitute Exams	04.12.2017	03.01.2018	--	17.05.2018	--
Theory Courses – Semester End Exams	07.12.2017	21.12.2017	17.11.2017	21.05.2018	19.04.2018
Ph.D. Directed Study	21.12.2017	--	--	04.06.2018	--
Arrear Theory Courses – Semester End Exams	02.01.2018	17.01.2018	08.12.2017	11.06.2018	05.05.2018
Result Declaration	--			27.06.2018	--
Supplementary Examinations	--			09.07.2018	--
Reopening Date for the next semester	08.01.2018			13.12.2017	

M. A. A.

COE

6/12/2017

J. Flori Odo

DEAN (AA)

06/12/17

J. Flori Odo

REGISTRAR

06/12/17

(40)

## PROGRAMMES OFFERED BY THE SCHOOLS AND DEPARTMENT

Name of the School	Name of the Department	UG Programmes Offered	PG programmes Offered
<b>School of Infrastructure</b>	Civil Engineering	B.Tech. Civil Engineering	M.Tech. Structural Engineering
			M.Tech. Construction Engineering & Project Management
<b>School of Mechanical Sciences</b>	Aerospace Engineering	B.Tech. Aeronautical Engineering	--
	Automobile Engineering	B.Tech. Automobile Engineering	--
	Mechanical Engineering	B.Tech. Mechanical Engineering	M.Tech. Manufacturing Engineering
	Polymer Technology	B.Tech. Polymer Engineering	
<b>School of Electrical &amp; Communication Sciences</b>	Electrical & Electronics Engineering	B. Tech. Electrical & Electronics Engineering	M. Tech Power System Engineering
	Electronics & Communication Engineering	B. Tech. Electronics & Communication Engineering	M. Tech Communication Systems
	Electronics & Instrumentation Engineering	B. Tech. Electronics and Instrumentation Engineering	
<b>School of Computer, Information and Mathematical Sciences</b>	Computer Science & Engineering	B. Tech. Computer Science and Engineering <ul style="list-style-type: none"> <li>➤ Big Data Analytics, Artificial Intelligence and Internet of Things</li> </ul>	M. Tech Computer Science & Engineering
	Information Technology	B. Tech. Information Technology	M. Tech. Information Technology
	Computer Applications	BCA <ul style="list-style-type: none"> <li>➤ Cloud Technology &amp; Information Security</li> <li>➤ Mobile Applications &amp; Information Security</li> <li>➤ Data Science</li> </ul>	MCA
		B.Sc.Computer Science	
Mathematics & Actuarial Science		--	M.Sc. Actuarial Science

Name of the School	Name of the Department	UG Programmes Offered	PG programmes Offered
School of Life Sciences		B.Tech. Biotechnology ➤ Cancer Biotechnology	M.Tech. BioTechnology
			M.Sc. Biotechnology ➤ Microbiology ➤ Genetics ➤ Biochemistry & Molecular Biology
		B.Sc. Biotechnology	
Crescent School of Architecture		B. Arch (Architecture)	--
		B.Des. Interior Architecture	
Crescent School of Business	Management Studies	BBA (Financial Services)	MBA
		--	
School of Physical & Chemical Sciences	Physics	--	M.Sc. Physics
	Chemistry	--	M.Sc. Chemistry
			M.Sc. Biochemistry
School of Social Sciences & Humanities	Commerce	B.Com.	--
		B.Com. (Accounts & Finance)	
School of Arabic & Islamic Studies		B.A. Islamic Studies	M.A. Islamic Studies
Crescent School of Pharmacy		B. Pharm.	--
Crescent School of Law		BBA LLB (Hons.)	--
		B.Com. LLB (Hons.)	
<b>Ph. D. Programme is offered by all the departments.</b>			

## MEETING OF STATUTORY BODIES

### ACADEMIC COUNCIL

The tenth and eleventh meeting of academic council of the Institute were held on 25th July, 2017 and 18th January 2018 respectively. A major revision is being carried out in the B.Tech.Regulations 2017 incorporating new/additional

clauses. The curricular framework was also thoroughly revised based on the input from industry, academia, alumni and other stakeholders



The Curriculum and syllabus for the newly started programmes viz. BBA, B.Com, B.Pharm, B.Com LLB, BBA LLB, B.Sc. Biotechnology and B.Des were deliberated and approved in the tenth Academic council. The Curriculum framework of all the programmes provides scope for enhancement of technical knowledge, skillset and employability of graduates. In the Eleventh Academic council curriculum and syllabus of various programmes were fine tuned as per the recommendations of respective Board of Studies of various departments/Schools and subsequently approved/ratified.

### **INTERNAL QUALITY ASSURANCE CELL (IQAC)**

- ❖ Annual Quality Assurance Report (AQAR) for the academic year 2016-17 was submitted to NAAC and also uploaded in our website on 8<sup>th</sup> September 2017.
- ❖ The AQAR report for the year 2016-17 was placed in the 10<sup>th</sup> meeting of academic council held on 25<sup>th</sup> July 2017 and got approved.
- ❖ IQAC reconstituted with inclusion of new members with effect from 20.09.2017.
- ❖ A total of 49 IQAC meetings with internal members & stake holders and 2 meetings involving external members were held to review, discuss and enhance the academic, research, consultancy and extension activities for the holistic development of the institution.

### **PLANNING & MONITORING COMMITTEE**

Two meetings of Planning and Monitoring Board were conducted in our Institute on 22.09.2017 and 29.12.2017 respectively.

Salient deliberations are as follows

- A new nine-storeyed academic block has been proposed to accommodate the increased student admission due to the introduction of new programmes.
- Proposed a central instrumentation facility to enable students/ researchers to utilize high end instrumentation/equipment facility effectively.
- Major renovation of wash rooms infrastructure & facilities were approved and has been undertaken.

## **BOARD OF MANAGEMENT**

The 12<sup>th</sup> and 13<sup>th</sup> meetings of the Board of Management were held in the institution premises on 16.08.2017 and 28.02.2018 respectively.

Salient deliberations are as follows

- The Vice Chancellor presented the feedback report of the UGC Expert Committee to the BoM members.
- Change of Institution name as “B.S. Abdur Rahman Crescent Institute of Science & Technology” was ratified by the members of BoM.
- The members approved the sanctioned intake for the various programmes to be offered in the academic year 2018-19. Suggested to constitute a committee for the selection of Registrar for the institution.
- Appointment of faculty members and non teaching who were recruited to cater the staff student ratio and cader ratio in various departments in between the successive meeting of BoM was ratified.
- Members also emphasized the significance of publication by faculty in quality journals.
- Minutes of Finance committee meeting held on 28/2/18 has been approved.
- Admission strategies for improving the students in the academic year 2018-19 was noted.
- Dr. H. Devaraj suggested that the number of placements recruiters should be more from core industries as compared to software firms.
- The members appreciated the Crescent School of Pharmacy for successfully organizing the National Convention 2018 in association with Indian Pharmaceutical Association held at our institute on 10<sup>th</sup> February, 2018.

- It was suggested to take efforts for further development in terms of collaboration with their parent institution of the foreign speakers (who had visited our Institution for delivering guest lectures).
- The Students intake for the various programmes offered by the institution during the academic year 2018-19 was approved.
- In principle approval for proposed construction of new academic block and exclusive building for school of Pharmacy and Law.

## FINANCE COMMITTEE

The 13<sup>th</sup> and 14<sup>th</sup> meetings of the Finance committee were held on 16.08.17 and 28.02.2018 respectively at the Institution.

Important deliberations are as follows.

- The committee insisted on a complete assessment of the existing infrastructure facilities and come out with a report mentioning space availability to accommodate proposed new programmes.
- Consider and approve the budget for the financial year 2018-19.
- M/S Ernest & Young is recommended as internal auditing firm.
- The finance committee in principle approved the proposed Construction of New Academic Block

## UGC VISIT TO THE INSTITUTION

The UGC Expert Committee visited during 29-31, January 2018 to review the functioning of our Institution. Nine expert committee members visited our Institution comprising five members from UGC, three members from AICTE and a UGC Co-ordinating Officer. Subsequent to the visit the institution was granted perpetual Deemed to be University status vide letter from UGC on 8/06/2017.

## Orientation Programme for Freshers

The orientation programme for first year students of UG programmes was organized during 11<sup>th</sup> and 12<sup>th</sup> of July 2017. The students as well as the parents are introduced to





thesalient features of the institution,Academic system including regulations,Teaching - Learning process,scope for research and Entrepreneurship & Evaluation system.They also exposed to infrastructure facilities, student mentoring & counseling system,medical centre and available facilities in the institution. An exclusive interaction session was also organized with Vice Chancellor & institute administrative headsand parents to make them understand the Institution's working system better.

### **PARENT TEACHERS MEETING**



The parents' teacher meeting was organized on 14<sup>th</sup> October 2017 for odd semester (2017-18) and 24<sup>th</sup> March 2018 for even semester (2017-18) respectively. The main agenda for the meeting was to provide information about the academic progress of wards to their parents and get their feedback on curriculum development, Infrastructure facilities, Hostel facilities etc for continuous improvement.

## ACADEMIC RESEARCH

### ABSTRACT

As reflected in the vision statement of the B.S.Abdur Rahman Crescent Institute of Science and Technology, research remains one of the major areas of focus. The vision of the office of research is to strive to make the institution as a **Research Intensive Institution** through various quality enhancement and sustainable initiatives. The Institution has a well-established administrative structure to ensure quality research. The Research Advisory Committee and Research Board comprising eminent researchers in the field of Science, Engineering and Technology give directions to the overall research activities of the institute.

All the departments in various schools are offering Ph.D. programmes. Out of 358 faculty members, **133** are with Ph.D. qualification and **139** are pursuing Ph.D. in BSA Crescent Institute of Science and Technology and other Universities. At present, **552** research scholars are on-roll and **40** scholars have been already awarded Ph.D. degree. With an intention to promote quality research, the Institution offers JRF and SRF fellowships to 26 research scholars and another 21 scholars are securing fellowships from government funding agencies such as CSIR / DST / UGC / MNAF/WOS etc.,.

The progress made in the research front, after becoming Deemed to be University is commendable. The Scopus **h-index** of this Institution is currently **36**, which has increased from 11 in the year 2008. The average citation index is 5.434. More than **3000** research publications have been made in refereed journals and conference proceedings during the last six years. More than 25 funded research projects to the tune of **Rs.480.16 Lakhs** are currently being investigated by the faculty members. Already funded projects to the tune of Rs.325.91 Lakhs sponsored by funding agencies like DST, DRDO SERB, DBT, UGC-DAE, etc., have been successfully completed. Research Incentive Schemes to encourage quality publication, funded projects are also in practice.

The departments are equipped with the state-of-the-art equipment and softwares for carrying out research. The annual budget for the departments includes a separate head, "R&D" and adequate funds are sanctioned to strengthen and enhance the facilities. A separate Centre for Sponsored Research and Consultancy



has been created in B.S.Abdur Rahman Crescent Institute of Science and Technology which is responsible for the promotion of Sponsored Research, Industrial Consultancy and Patent filing. Institution also has Innovation centre, Incubation centre and Nano centre.

The library has over 17,000 e-journals including IEEE, ASME, ASCE, Springer, Elsevier, Emerald, Proquest etc., and a good collection of Open Access Journals which can be remotely accessed from anywhere.

## **RESEARCH BOARD**

The Research Board is an Internal Committee to oversee the academic research activities of the Institution. The major functions of the Research Board are:

- Scrutiny and recommendation of the names of faculty members for approval by the Vice Chancellor to act as Supervisors, for Ph.D. / M.Tech. (By Research) / M.Phil. Scholars.
- Scrutiny and recommendation of Ph.D. / M.Tech. (By Research) / M.Phil. Scholars application after interview by the various committees for final approval by the Vice Chancellor
- Determination of equivalence of PG educational qualifications, regulations etc. and other related matters.

Research board conducted three meetings during the year 2017-18. Discussed about the scrutinizing of applications for Ph.D and Research Supervisorship. Research board also discussed about the status of research scholars admitted during 2009-11 and the extension period suggested.

## **About the Research bulletin**

### Description

The Institute started 'Research @crescent Bulletin' since Dec '2017 as a monthly issue. It includes both theme based and non theme based articles on the blazing issues. The objective of this bulletin is to share innovative achievements and practical experiences from diverse domains of Science, Humanities, Engineering and management from researchers, practitioners, academicians and professionals. This bulletin is dedicated to publishing high quality research papers providing meaningful

insights in to the management content; both in Indian as well as the global context. The Research Bulletin is available online in the institution website.

### SALIENT MOU WITH INDUSTRY PARTNERS

S.No	Department	Name of the Host Institution/company	Date of Signing of MoU	Expected Outcomes
1	Electronics & Communication Engineering	Nokia Solutions And Networks India Private Limited, Chennai	05.12.17.	1. Industrial visit, Guest Lecture, Internship for students. 2. Project Guidance by Nokia Team to final year students
3	Crescent School of Architecture	Professional lighting design convention, France	02.11.2017	It is a platform to meet, learn and discuss the latest future developments in lighting
5	Automobile Engineering	Shabeel Honda, Chennai	20.12.17	Internship for students

### Ongoing Sponsored Research projects as on 30.06.18

S.N O	TITLE OF THE PROJECT	NAME OF THE PRINCIPAL INVESTIGATOR	FUNDING AGENCY	PERIOD	GRANTS SANCTIONED (RS. IN LAKHS)
1	Synthesis and characterization of multi ferroic nano composites for functional applications	P. Komalavalli, Mentor- Dr. I. B. Shameem Banu Professor <b>Dept of Physics</b>	DST-WOS-A	2015-18	14.19
2	Investigation of multi-ferroic properties of rare earth and transition metal doped bismuth ferrite for functional applications	Dr. I. B. Shameem Banu Professor <b>Dept of Physics</b>	DST-SERB	2015-18	23.55
3	Development of Graphene and Metal Nanoparticles Reinforced Flexible Polymer anocomposites for Effective Electromagnetic Interference (EMI)	Dr. M. Basheer Ahamed Professor/HOD <b>Dept of Physics</b>	DST-SERB	2017-20	23.28

	Shielding Applications				
4	Construction of optical logic gates using soliton collisions and study of electrical solitons in nonlinear transmission lines	Dr. M. Vijayanthi <b>Dept of Physics</b>	DST-SERB	2016-19	16.11
5	Antimicrobial Efficacy and Mechanisms of Whole Plant Extract of Acacia Arabica with Triphala on Biofilm Forming Cariogenic Microorganisms	Dr. Karthikeyan Ramalingam Associate Professor <b>School of Life Science</b>	AYUSH-EMR	2016-19	33.00
6	Understanding the metabolic compartmentalization of Cancers cells and cancer associated fibroblasts	Dr. Amrita Roy <b>School of Life Science</b>	DST-SERB	2017-20	34.41
7	Synthesis of antimicrobial nanoemulsions for the treatment of multi-drug resistant ESKAPE pathogens	Dr. Karthikeyan Ramalingam Associate Professor <b>School of Life Science</b>	DST - SERB	2015-18	23.28
8	Antioxidant gene polymorphisms and mitochondrial Ros signaling in cancer risk	Dr. Soumen Bera Assistant Professor (Sr. Gr.) <b>School of Life Science</b>	DBT	2015-18	24.75
9	Immunosuppressive cells within inflammatory Tumor Microenvironment	Dr. Neesar Ahmed Assistant Professor (Sr. Gr.) <b>School of Life Science</b>	DST - SERB	2015-18	22.66

#### Ph. D. Degree awarded :

- **Eleven** Ph.D. scholars and **One** M.Tech (By Research) were awarded degree in the Seventh Convocation held on 07.10.2017. The details of the awarded scholars are as follows:

RRN No.	Title of the Thesis	Name of the Scholar	Name of the Supervisor
1093211	Employability Status of Engineering Students: A Comparison of Private Self financing Engineering Colleges and Private Deemed Universities	Ms. S. Jainab Zareena	Dr. Haider Yasmeen
1190208	Synthesis, Suspension stability and Hydrodynamics of Iron Oxide Nanoparticles for Biomedical Application	Mr. S. Vikram	Dr. R. Vasanthakumari
0989201	Some Stochastic models for Determination of Optimal Reserve Inventory	Mr. C.D. Nanda Kumar	Dr. S. Srinivasan
1084208	Analysis of Human Retinal Morphology for the Identification of Diabetic Retinopathy and Maculopathy using Fundus Images	Ms. G.S. Annie Grace Vimala	Dr. S. Kaja Mohideen
1084210	Design and Analysis of microstrip antennas for wireless communication applications	Mr. J. Salai Thillai Thilagam	Dr. P.K. Jawahar
0989202	Analysis of Non Linear Mathematical Models of Tumor growth	Mr. M.G. Fajlul Kareem	Dr. P. S. Sheik Uduman
1289215	Mathematical Modeling, Performance Analysis and Optimizaition of Operating System of Paper Plant	Mr. Pervaiz Iqbal	Dr. P. S. Sheik Uduman
1186220	Grammar Rule based Sentiment Analysis Techniques for Tamil Tweets Classification	Mr. T. Nadana Ravishankar.	Dr. R. Shriram
1291235	Synthesis, characterization and applications of rare earth metal loaded copper oxide nanoparticles	Ms. R. Sasikala	Dr. S. K. Rani
140903104002	Graphene Oxide and Transition Metal Oxide Reinforced Flexible Polymer Composites as High Dielectric Constant Materials for Energy Storage Applications	Mr. Kalim Abdul Rashid Mumtaaz Deshmukh	Dr. M. Basheer Ahamed
1291238	Studies on the Synthesis, Characterisation and Antimicrobial Applications of Schiff Base Metal Complexes	Mr. G. Sridhar	Dr. I. Mohammed Bilal
1262207	Natural Rubber/OMMT Nanocomposites for Reinforcement in Tyre Ply (M.Tech by Research)	Mr. U. D. Benson	Dr. S.S.M. Abdul Majeed

#### Details of Viva-Voce Exam completed as on 30.06.18

- **Ten** Ph.D. scholars have completed and the details are as follows.

<b>Name</b>	<b>Dept.</b>	<b>RRN</b>	<b>Supervisor Name &amp; Designation</b>	<b>Date of Viva Voce</b>	<b>Title /Topic of Research</b>
Mr. S. Udhaya Kumar	CSE	1086210	Dr. Latha Tamilselvan, Professor,IT	21.11.2017	Adaptive trust model with attestation for software services in cloud environment
Mr. Vijayakumar. S	English	1192204	Dr. A. Shahin Sultana Professor, English	12.12.2017	Teaching Academic Writing to the Students of Engineering using Multimedia Tools an Experimental Study
Ms. A. Divya	Mathematics & Applied Science	1289214	Dr. P. S. Sheik Uduman Professor Dept of Maths	05.01.2018	Analysis of Risk factors of Heart Disease Using Decagonal Fuzzy Models
Mr. M. Syed Masood	Computer Application	0994201	Dr. P. Sheik Abdul Khader Professor, CA	12.01.2018	Enhanced Routing and Queue Management Techniques for Performance Improvement in Mobile Ad hoc Networks
Ms. P. Latchoumy	Computer Application	0994202	Dr. P. Sheik Abdul Khader Professor, CA	11.01.2018	Integrated Proactive and Reactive Failure Handling Strategies to improve the Services in Computational Grid
Ms. P. Veeralakshmi	CSE	1086214	Dr. Latha Tamilselvan, Professor IT	13.04.2018	Development of Confidentiality, Integrity, Authentication Model for Assuring Data Security in Cloud Computing
Mr. S.A. Usman Ali	Islamic Studies	1188201	Dr. P.S. Syed Masood Jamali Dean, School of Islamic Studies	18.04.2018	A Concept of Plural Society in Quran and Hadeeth

Mr. Mahalingam V	Physics	140903101003	Dr. I. Raja Mohamed, Dean, Academic Research	19.03.2018	Synthesis and Characterization of Rare Earth Doped Molybdate and Tungstate Phosphors for Lighting Applications
Ms. A. Sathiya Priya	Physics	1390118	Dr. I. B. Shameem Banu Professor, Physics	15.05.2018	Nano Composite Thin Films
Ms. V.K. Subhashree	ECE	1384118	Dr. C. Tharini, Professor/HOD ECE	08.06.2018	Analysis on the Performance of Energy Efficient Routing and Fault-Tolerant Data Aggregation Algorithms for Wireless Sensor Networks

- Two M.Tech. (By Research) scholars have completed the Viva Voce Examination and are waiting for the convocation date.

Name	Dept.	RRN	Supervisor Name & Designation	Date of Viva Voce	Title /Topic of Research
Mr. Eliass A Latiff	Civil	1260202	Dr. M. S. Haji Sheik Mohammed, Professor of Civil Engineering & Dean(AA)	01.11.2017	Development and performance Evaluation of Polymer Based Heat reflective waterproofing system
Mr. M. Mohamed Ibrahlim	Civil	1260201	Dr. M. S. Haji Sheik Mohammed, Professor of Civil Engineering & Dean(AA)	21.11.2017	Strength and Durability Studies on Ferrocement Slab Panels for Suspended Roof

❖ Thesis Submitted

- Twenty Four Ph.D. scholars have submitted their Thesis and sent for evaluation

❖ Synopsis Submitted

- Ten Ph.D. scholars have submitted their Synopsis

❖ Ready for Synopsis Submission

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

#### **Plagiarism check using Turnitin software:**

- ❖ As a quality improvement strategy, Anti-plagiarism check was made mandatory. Awareness was created among students / research scholars and faculty through faculty/ Research scholar meetings, placing placards in salient locations.
- ❖ Plagiarism check with defined similarity index was mandated for all UG and PG theses. This was successfully implemented in the academic year 2017-18. Turnitin anti - plagiarism software is used by the Institution for plagiarism check.

#### **Ph.D ADMISSION**

- The institution follows Ph.D admission process twice in a year (i.e, during **January & July** session).
- The application forms are available in the office of Director (Admissions), BSACIST or can be downloaded from the following link :  
<http://crescent.education/research/about-us/admission-for-research-scholars/>

#### **SCHEDULE OF ADMISSION EVENTS**

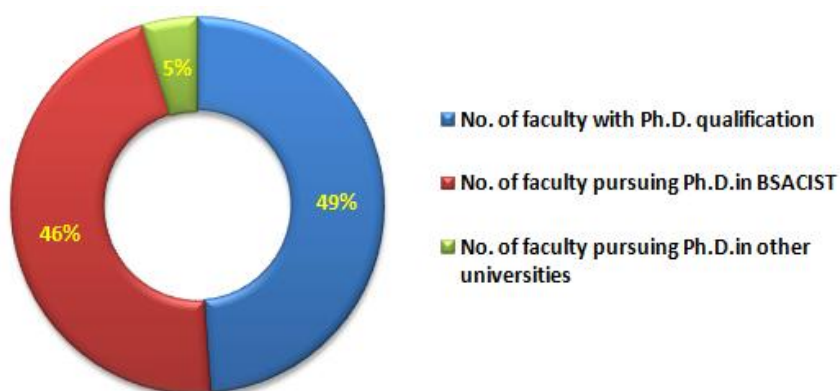
- Schedule of Ph.D. Admission process for Ph.D. Programme will be uploaded in the Institution website two months in advance to the admission every semester  
The schedule followed in the January 2018 session is as follows:

<b>Description</b>	<b>Date</b>
Ph.D. admission advertisement in the Institution website/ news paper	06.09.2017
Last date for submission of application	30.11.2017
Dispatch of applications to respective departments for scrutiny and to find out the eligibility	04.12.2017
Individual departments will submit the list of eligible	06.12.2017

candidates to the office of Dean (Ac R)	
Call letters will be sent to the eligible candidates by e-mail / post	11.12.2017
Entrance examination and interview	18.12.2017
Submission of “Minutes of the department selection committee” to the office of Dean (Ac R)	20.12.2017
Publication of results in the Institution website	23.12.2017
Sending admit card to selected candidates by e-mail / post	26.12.2017
Admission to Ph.D. Programme for January 2018 session by the admission office	03.01.2018

### FACULTY MEMBERS PURSUING Ph.D

No. of full time regular faculty	–	358
No. of faculty with Ph.D. qualification	–	133
No. of faculty pursuing Ph.D.in BSACIST	–	126
No. of faculty pursuing Ph.D.in other universities	–	13
No. of Approved Research Supervisors	–	113



### RESEARCH PUBLICATIONS

- Faculty members and the research scholars published their work in International National Journals and Conferences.



## RESEARCH OUTPUT

<b>No. of publications in Journals in the year 2017</b>	<b>234</b>
<b>No. of publications in Conference proceedings for the year 2017</b>	<b>107</b>

<b>YEAR</b>	<b>INJ</b>	<b>NJ</b>	<b>INC</b>	<b>NC</b>
2017	172	62	91	16

<b>Indexed Journal publications</b>				
<b>Year</b>	<b>Indexed Publications (SCOPUS alone)</b>		<b>All Publications</b>	
	<b>INJ</b>	<b>NJ</b>	<b>INJ</b>	<b>NJ</b>
<b>2017</b>	96	13	172	62

## CITATION TREND

➤ Scopus h – index	36
➤ Scopus citation	1,033
➤ No. of Citation	5,614
➤ Average Citation index	5.434
➤ No. of papers with more than 10 citations	153
➤ Average Impact factor	1.726

Scopus-index of BSACIST = 36

Scopus-index = 36

## CONSOLIDATED TABLE

<b>Description</b>	<b>No.</b>
No. of Scholars pursuing Ph.D.	552
No. of M.Tech (By Research) Scholars	3
Faculty members pursuing Ph.D. (Part time)	139
No. of candidates admitted for Ph. D. Programme during 2017-18	41
Ph.D completed during 2017-18	24
No. of Ph.D. degree awarded in the year 2017	11
No. of M.Tech. (By Research) degree awarded in the year 2017	3

No. of Scholars who submitted Synopsis in the year 2017	28
No. of BSA fellowships for Ph.D. Scholars	26
No. of Govt. fellowships	21
No. of Research Supervisors in BSACIST	113

## RESEARCH PUBLICATIONS WITH MORE THAN 10 SCOPUS CITATIONS

Research Paper with Highest number of citations	=	177
No. of papers with more than 10 Scopus citations	=	161

## RESEARCH PROMOTION ACTIVITIES

Office of Dean (Ac Research) organized a one-week Workshop on “**Strategies for Innovative and Quality Research**” during 31.07.2017 to 05.08.2017. The resource person Prof. Nikhil A Gokhale from RK University, Gujarat delivered lectures on Research Methodology, International opportunities and successful grant applications Patent applications, Presentation skills and High-Impact Publishing. The Central Library arranged live demo on remote access, effective search on e-resources and plagiarism checking.

## VC'S TOWN HALL TALK

VC's Town Hall Talk with Research Scholars held on 21<sup>st</sup> Nov 2017 at 10.00 a.m in the Seminar Hall II, Convention Centre. **127 Research scholars** across all disciplines participated in the meeting.



The following are the action taken based on research initiatives and scholars feedback:

- Laboratories are kept open 24/7.
- Library is kept open till 12 am.
- Initiative has been taken to regularize the funding for research scholars.

- List of common facilities (labs and equipment) are made available in the University website.
- Lab facilities are to be shared among all the scholars.
- Organising workshops and seminars for scholars during vacation period to enable all the scholars to attend and benefit from it.
- Required machinery shall be purchased for promoting research activities.

## ONSITE TRAINING SEMINAR

Organized an onsite Training Seminar on “TURNITIN - PLAGIARISM CHECK SOFTWARE” on 6<sup>th</sup> Nov 2017 and **Mr. Varun Piplani** from Turnitin gave the lecture



## Workshop on “Scholarly Article Writing and Journal Publications”

Arranged a one day technical workshop on “Scholarly Article Writing and journal Publications” on 13<sup>th</sup> March 2018. Dr. T. VELMURUGAN, PG & Research Department of Computer Science, D. G. Vaishnav College (Autonomous), Chennai was the chief guest.

Office of Dean (Ac Research) organised a guest lecture on “A Computation Analysis of Indus Valley Inscriptions” on 03-04-2018. Mr. Md Izhar Ashraf, Project Assistant, The Institute of Mathematical Sciences (IMSc), Chennai and Ph.D. scholar, Dept. of CA, was the chief guest for the event. The event was presided over by Dr.I.Raja Mohamed, Dean (Ac Research).

### **Guest Lecture on “A Computation Analysis of Indus Valley Inscriptions”**



### **A Workshop on “How to Make Mobile Resume Website in 3 Hours”**

Organised a one day workshop on “How to Make Mobile Resume Website in 3 Hours” on 21-04-2018 .Mr. Bharatwaj Ramakrishnan,Software Engineer ,CaratLane , Chennai was the chief guest for the event.





## CENTRE FOR ENERGY RESEARCH AND STUDIES

### i. Solar Power Energy



View of Roof-Top Solar Power Plants

- Total Solar Power Generation - 250kWp
- From June 2014 to Dec 2017

Plant	Units Generated	Amount recovered (Rs)
150Kwp	717,471	6,204,687
100kWp	456,586	3,962,773
<b>Total</b>	<b>1,174,057</b>	<b>10,167,460</b>

The number of units generated through solar power plants constitutes 10% of total electricity consumption since June 2014.

- Solar Water Heaters Installed in Mens hostel, Ladies Hostel & staff quarters as follows

<b><u>MEN'S HOSTEL</u></b>		
Block	No. of tanks	Capacity in litres
A Block	16	4000
B Block	20	5000

C Block	18	4500
D Block	18	4500
Main block	20	5000
PG block	12	3000
<b><u>LADIES HOSTEL</u></b>		
Main block	22	5500
Annexe Block		
New Block Phase 1	21	5250
<b><u>STAFF QUARTERS</u></b>		
New Staff Quarters	23	5750
Total Capacity	170	42,500

Usage of electric geysers equivalent to 240 nos. are totally avoided in Hostels and New Staff Quarters. This saves energy to the tune of 17Lakhs.

## ii) Energy Conservation measures

### LED Light fittings in BSAR Crescent Institute Campus

NO	BUILDING	QTY	TOTAL WATTS
1	Auditorium	156	2059
2	Science Block	250	2829
3	Aero Block	458	5064
4	Main Block	34	482
5	MBA Block	11	165
6	First Year Block	7	105
7	Life Science Block	37	543
8	Staff Quarters	301	3685
9	Ladies Hostel	249	3474
10	Campus Street Light	77	1800
11	Medical Centre	21	309

<b>NO</b>	<b>BUILDING</b>	<b>QTY</b>	<b>TOTAL WATTS</b>
12	Architecture Block	13	601
13	Estate Office	21	420
14	Canteen	12	312
15	VC Office	72	450
16	VC Villa	27	193
17	Guest Houses	17	280
<b>TOTAL</b>		<b>1763</b>	<b>22771</b>

LED light fixtures are being extensively used in all new buildings interior renovation works in the campus. At present 22.7KW capacities of LED lights are fixed which provide around 30% energy saving compared to conventional lighting.

## ACCREDITATION RANKING AND INTERNATIONAL AFFAIRS

### PRELUDE:

Accreditation and Ranking are the two major Quality indicators, which would make our "Crescent Institute" more visible in the public domain. The major stake holders Viz., Students, Parents, Employers, Industries, Funding agencies, Regulatory Authorities, Alumni, Board of Management are giving much emphasis to our "Position/Status" in the widely recognized Ranking and Accreditation process. The overall perception by the society is influenced by these ranking and accreditation process. Hence Institution is giving importance in participating and securing a "Top Ranking" in these processes.

- **NAAC**

Our Institute is accredited with A grade by NAAC and is valid up to May 04,2019.Institute constituted several committees to prepare relevant document for accreditation by NAAC(II cycle)under new format.



- **NBA ACCREDITATION**

- As a quality policy of this Institute, all the eligible UG and PG programmes were accredited and re- accredited by National Board of Accreditation (NBA) in Tier-I format under "Washington Accord".



- The following programmes accredited by National Board of Accreditation(NBA) in Tier-I format during 2017-2018.

**I. UG Programmes**

1. B.Tech (Mechanical)
2. B.Tech(EEE)

**II. PG Programmes**

M.Tech(E&I)

- The following eligible programmes were Applied for NBA Accreditation in the 5<sup>th</sup> batch of application and NBA expert team visit.
  1. B.Tech (Automobile Engineering)
  2. B.Tech (Aeronautical Engineering)
  3. B.Tech (Polymer Engineering)
  4. MBA – Master of Business Administration

- **AICTE approval for Programmes (2018-19)**

Institution applied for AICTE approval for programmes offered under Engineering,Architecture,Pharmacy and Management studies.Expert committee of AICTE visited our institution on 30/4/18 in this regard.

## **2.0 RANKINGS**

### **2.1 INDIA RANKINGS (NIRF)**

Our Institution Participated in the NIRF rankings 2018 and submitted data under 4 categories

- Engineering Institution
- Management Institution
- Architecture Institution
- Overall (University Category)

The following are our standing in the NIRF 2018 in the National level.

- Engineering Institution : 89
- Overall (University Category) : 100
- Management Institution : In the band of 75 – 100

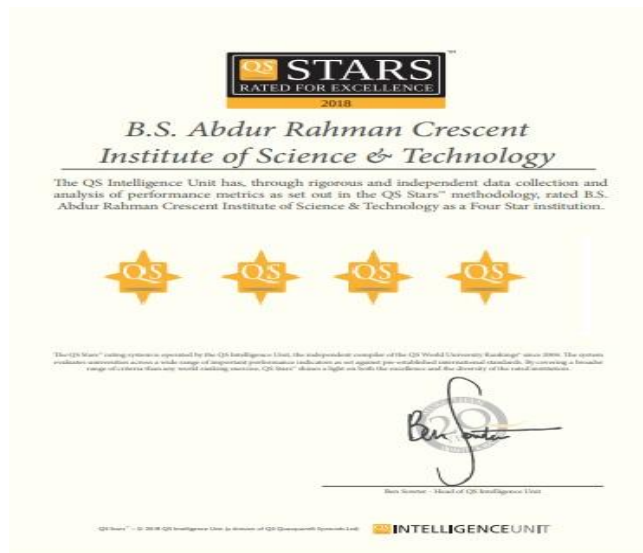


## 2.2 QS STARS RATING

### QS Star Rating Audit Process

- Our Institution participated in the QS star rating Audit Process (2017-18) and awarded “overall 4 star rating” (Maximum : 5 star) during April 2018.
- B. S. Abdur Rahman Crescent Institute of Science & Technology is one of the 04 Universities in India, which has been awarded an “Overall 4 Star Rating” by QS, an International Ranking agency for the Universities across the globe. Very few Universities across the globe alone, have been awarded “Overall 4 Star Rating” (Maximum: 5 Star).
- Out of the 08 parameters considered for audit and evaluation, Crescent has bagged “5 Stars” in 04 categories viz., Teaching, Employability, Facilities& Inclusiveness.
- QS says that, “A typical four-star university is highly international, demonstrating excellence in both research and teaching. The institution provides an excellent environment for students and faculty”.





### 2.3 Details of Other Rankings participated by the Institution

- **TIMES Magazine Ranking:** ( 2018)
  - ❖ Overall - All India 57th Rank,  
13<sup>th</sup>rank amongother allIndia private Institutes.
- **THE WEEK Ranking :** ( 2018)
  - ❖ Overall - All India 76th Rank,
  - ❖ South Zone – 23rd Rank.
- **THE DATA QUEST Ranking :** (2018)
  - ❖ Overall - All India 7th Rank,
  - ❖ South Zone – 2nd Rank.

### 3.0 INTERNATIONAL AFFAIRS

#### 3.1 Collaboration with University of Missouri, USA



- A course on “Biotech Innovation and Entrepreneurship” is offered to the final year B.Tech (Biotech) students of our Institution, by the Professors of University of Missouri, USA.

#### 3.2 Collaboration with UiTM, Sarawak, Malaysia

- Our Institute has organized a “Short Term Training cum Project work” for the students of the University Teknologi, Mava UiTM, Sarawak, Malaysia for a period of three months.



The following UiTM students have undertaken the project work at Crescent :

- Muhd Helmi Bin Azman
- Solehudin Bin Jeffry
- Muhammad Syafiq Bin Ismail
- Kevin Dinggun Anak Kanang
- Mohd. Nazirin Bin Abdul Rahman
- Timothy Anak Achan

### 3.3 Other International Collaborations







<b>S. No.</b>	<b>Name of the International Affiliate Professor(s)</b>	<b>Affiliation</b>	<b>Date of Visit</b>
1.	Prof. Scott E. Fahlman Computer Scientist	Carnegie Mellon University, USA	27.10.2017 - 08.11.2017
2.	Dr. Mark Birkinshaw Eminent Scientist and Astrophysics	Cambridge University, UK	23.01.2018
3.	Dr. Turi King, Professor of Genetics and Archaeology	University of Leicester, UK	08.02.2018
4.	Dr. Jayesh Rathore Vice President	Corporate Gurukul Pte. Ltd., Singapore	09.02.2018
5.	Prof. Vaishnavi Srinivasan Professor / School of Mathematics, Statistics & Actuarial Science	University of Kent, UK	11.08.2017
6.	Dr. David Jenkins Faculty of Science & Engineering	Plymouth University, UK	20.09.2017
7.	Mr. John Cockburn, International Director	New Zealand	24.08.2017
8.	Mr. S. R. Rajagopalan Chief Executive	Australia	24.10.2017
9.	Dr. Raji Sundararajan Professor	Purdue University, USA	09.08.2017
13.	Dr. Richard Mak Adjunct Faculty	Singapore Management University	08.11.2017
14.	Dr. Ian Wakeman Professor and Head / Department of Informatics	University of Sussex, UK.	13.11.2017
16.	Prof. Jaipaul Singh Research Degree Tutor and Professor of Physiology	University of Central Lancashire, UK	21.02.2018
17.	Prof. Neil J Hewitt Research Director – Architecture, Built Environment & Planning	Ulster University, UK	22.02.2018



18.	Dr. Saurabh Arora Professor / Technology and Innovation for Development, SPRU	University of Sussex, UK	28.03.2018
19.	Dr. Benoit Anger Professor / Global Career Opportunity Director Marketing &Admission	SKEMA Business France	02.04.2018
20.	Dr. Susan Cossetto Professor	Australian National University, Australia	06.04.2018

#### 4.0 MoUs with Industry partners



▶▶ வண்டியார் பீ.எஸ்.அப்துர் ரஹ்மான் கிரகன். அறிவியல் மற்றும் தொழில்நுட்ப நிகழ்வினை பங்களிக்கப்படும், ஹண்டாய்ஸ் கார் தயாரிப்பு நிறுவனத்துக்கு உதிரி பாகங்களை தயாரித்து வழங்கும் மென்டோ நிறுவனமும் நெற்று புரிந்துணர்வு ஒப்பந்தம் செய்து கொண்டுள்ளன. மென்டோ நிறுவன ஸாஹ்யாநகரத்தை கல்வி மற்றும் பயிற்சி வழங்கும், ஆராய்ச்சி தொடர்பான உதவிகளை செய்வது ஆடம்பரம் இங்கு ஒப்பந்தத்தில் அடங்கும். இதற்கான விழாவில் பங்கணை வழங்கி நிறுவன தலைவர் அப்துல் ஹாதி ரஹ்மான் புகாரி, துணைவேந்தர் டாக்டர் ஸ்ரீ லக்ஷ்மீ ஹாதஸ் ஹமீது பீன் அபுடெக்கர், பதினாண்டு முறையினர், பன்னாட்டு தொழில் இயக்குநர் ராஜ்நிபு, மென்டோ நிறுவன மொண்டை இயக்குநர் சி தீன் யோ, முத்தவை செயலக அலுவலர் சிவ் லக்ஷி, தலைமை நிதி அலுவலர் வி முகன், மனித ஆற்றல் மேம்பாட்டு பொது மொண்டை நிதி ராஜ் ஆமிஷ்யார் ஸ்ரீமேதந்தர்.





- signed an MoU with M/S Mando Automotive India Pvt. Ltd., Chennai on 20<sup>th</sup> Dec 2017 to offer part Time B.Tech Programme”, for the employees of Mando in Mechanical, EEE, ECE & Automobile disciplines

## PLACEMENT AND TRAINING

Every year, the placement process is streamlined as per convenience of students and recruiters. The placement process begins with Pre-placement talks by companies, usually scheduled in the month of August and the placement process commences from the month of September. Participation by a large number of reputed organizations year-after-year for recruitment bears testimony to the reputation companies have for the institution.

The primary function of the placement office is three fold, the first and foremost is creating awareness about the placement process through a series of awareness programmes. The next task is to train them to face the forthcoming placement seasons through a set of placement training through experts in the sector. The last but the most important function is to streamline things as per convenience of students and recruiters. An elaborate slotting criterion is used to slot the companies for the placement process.

### Major Recruiters



### Placement summary -2017

The campus recruitment process started in the month of June 2017, **119 companies** have visited the campus and **258** of our eligible students are placed in various companies.

Department	No of students Placed
CIVIL	2
MECH	73
EEE	11
CSE	38
ECE	67
EIE	9
IT	11
POLYMER	5
AERO	1
AUTOMOBILE	3
MBA	10
MCA	28

Sl.No	Name of company	Annual Pay (Rs. in Lakhs)
1	iNautix Technologies	3.30
2	Volante Tech (thro'Mean Median.com)	4.50
3	Revature Consultancy Services P.Ltd.,	4.15
4	Infosys Technologies	3.25
5	Wipro Technologies	3.10
6	Alcatel (NOKIA) Webcamra Interview	3.60
7	Cognizant Technology Solutions	3.35
8	Verizon Data Services India Pvt Ltd.	5.19
9	Volante Tech (thro'Mean Median.com)	3.10- 4.00
10	Mindtree	3.25
11	Virtusa Polaris	3.30
12	BNP Paribas	3.30
13	Johnson Control	3.60
14	Sanmar Group	3.67
15	Kaar Technologies	5.50
16	Jaro Educations	6.66
17	Hertz Software (thro..Amcat)	3.50

18	Ohlook	4.50
19	Syntel	3.20
20	Calibrant Technologies	2.60 - 3.50
21	L&T Infotech	3.00
22	Wozart Software (IOT software)	3.00
23	Bank of Newyork Mellon	3.00
24	IRIS KPO Resourcing (I) Pvt. Ltd	2.20
25	Torry Harris	3.00
26	ICICI Securities Limited	4.00
27	Kotak Life Insurance	3.50
28	Photon Infotech	3.75
29	Neeyamoo Enterprise	2.50
30	Newgen Software	3.75
31	Axis Bank	3.58
32	Godrej & Boyce	5.50
33	Core Compete	3.60
34	Chain-Sys	2.80
35	National Payments Corporation of India (NPCI)	4.00 -5.14
36	Neeyamoo Enterprise	4.50
37	Codilar Technologies	3.00
38	RENAULT NISSAN	3.50
39	Fangs Technology (VIVO)	2.20
40	Findme a Shoe	3.50
41	Amara Raja Group	2.40
42	Furnify	3.00

43	Ernst & Young	3.00
44	Valued Epistemics (GREedge)	3.40
45	Ducima Analytics Pvt. Ltd.	3.00
46	HCL Technologies	3.00
47	INDUSIND BANK	3.50
48	HP Inc. Bangalore	2.52
49	Adroitech Engg. Solutions P.Ltd	2.70
50	Kerosene Digital, Bangalore	3.00-3.60
51	Cornerstone International(Australian Internship)	Australian Internship
52	Apollo Tyres	3.60
Sl.No	Name of company	Annual Pay (Rs. in Lakhs)
53	Aithent Technologies	2.50
54	RCK Techies	1.50-2.50
55	Eltech Appliances P Ltd. ( Formerly ETA)	3.00
56	Broken Glass	2.40
57	E Con Systems P. Ltd	4.20
58	Syurya Informatic Solutions P.Ltd	1.44
59	Lean Spoon	2.50
60	HP Inc.	2.50
61	SP Robotics	2.00-3.60
62	CSC India Pvt. Ltd	3.40
63	Amazon	2.24
64	Mindtree IMTS	3.00
65	HDFC Asset Management CO. LTD.	2.40

66	Things Cloud	3.00-5.00
67	Eattributes	2.04
68	Syntell	
69	Alphalinx Technologies Ltd	2.80
70	Manipal Global Academy (for IBM)	2.70
71	Kotak Mahindra Bank (TVS Training)	2.50
72	Qspider / Jspider	3.20
73	Merino Industries P. Ltd.	3.00-3.50
74	Syneza Online Services	2.00
75	Samsung R & D	7.50
76	Peol Technologies	3.00
77	ETA Engineering Pvt Ltd	3.00
78	Zoho Corporations	4.60
79	Logwiz Institue of Shipping & Logistics	2.50
80	HSBC Technologies	12.00
81	Newgen Software Technologies	3.75
82	Kingfa Scinece & Tech.	2.75
83	Technovation	2.50
84	Hexaware Technologies	2.50
85	InfoCepts Technology	3.50-4.50
86	Schneider Electrci India	3.0-3.50
87	Fitchner Consulting Engineers I Lid	3.00
88	Pratian Technologies (India) Pvt. Ltd	3.00-3.50
89	Innova Solutions P. Ltd.	3.00

90	Ooda Industries Products	1.20
91	PathFront Consulting Services (P) Ltd.	4.05
92	Aricent Technologies	3.50

### Details of Placement related Training Programmes Conducted during the Academic year: 2017-18

1. A one day motivational Seminar on “A Career in Core Engineering Industry” was arranged for Pre-final year (2015-19) B.Tech. (EEE / ECE/ EIE & Mech) on 3<sup>rd</sup> May 2018. Ms. Vaishnavi Vignesh Raja, SECO Controls Private Limited delivered brief seminar about the core employment enhancement.
2. World’s biggest coding contest was organized in association with Times of India (TechGig) for 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> year students on 5<sup>th</sup> April 2018 at our Institute premises.
3. A One day motivational programme was arranged for pre- final year (2015-19) B.Tech. (Aero / Auto / Biotech / Civil & Polymer) students on 2<sup>nd</sup> April 2018. It also gave them insights into the relevant steps required to prepare for **GRE / CAT / GMAT / UPSC / GATE** and the insights in the kind of research that is required for entering the world of International Education. **Mr. Amith Ravindran** -100 percentile scorer in CAT Verbal and 730/800 scorer in GMAT delivered the talk and interacted with students.
4. Placement preparation test was conducted on 9<sup>th</sup> Feb. 2018 in association with Firstnaukri.com(Division of Info Edge India Ltd.) for the Pre-final year B. Tech. / M.Tech. Allbranches & MCAstudents (2015-19 passing out batch).

Proficiency of students based on Analytical, English and Quantitative analysis were evaluated and the performance reports were obtained.

- Barclays Training programme was conducted in collaboration with GTT and NASSCOM for Pre-final year B.Tech students (2015-19 Batch) during 6<sup>th</sup> -8<sup>th</sup> Feb. 2018.
- A One day motivational programme arranged for pre-final year B.Tech. (EEE/ ECE/ CSE/ EIE / IT) students on 5<sup>th</sup> Feb. 2018. **Mr. P.N. Santhosh**, Co-founder of BYJU's has given a Seminar session on Higher Studies and Placement Training.

### Seminar / Workshop / Conference Participated:

- BSACIST is one of the sponsorship partners in the largest Industry-Institute interaction event of India “**BRIDGE'2018**” held on 28<sup>th</sup> March 2018 at Hotel ITC Grand Chola, Chennai organized by ICT ACADEMY. More than 10 faculties were participated in this event from BSACIST.



- Director P&T Participated in the seminar on “HR Apps Challenges & Opportunities for Business” organized by SICCI held on 2<sup>nd</sup> May 2018 at Chennai.



### Achievements

Dr. K. Ganesh, Director, Placement & Training Cell received Nation Builder Award - 2018 in presence of chief guest Aroct Nawab.Nawab zada Mohammed Asife Ali and Dr. Pratap, State information Commissioner and Former DGP Mr Bolonath IPS.





## MoU signed:



1. Dr. Mohamed Kasim Khan, Project Manager & Coordinator – Training, Spoken Tutorial Project, NMEICT, MHRD, Govt. of India, IIT Bombay visited our institute and signed the MoU in the presence of **Dr.M.S.Haji Sheik Mohammed** Registrar(i/c) **Dr. K. Ganesh**, Director, Placement & Training and **Dr. Mohammed Ismail**, Deputy Dean (Academic Affairs). Dr. K. Ganesh Director, Training & Placement was nominated as the Nodal Resource Centre (NRC) Coordinator for spreading awareness, conducting orientation sessions and implementing IIT Bombay Spoken Tutorial software training program.



2. Three Foreign delegates namely Prof. Siham Mohamed Ahmed Bakhit - Vice Chancellor, Dr. Ashraf Izzeldin Abdalla Mohammed -Coordinator of Cultural & Scientific Chairs, Dr. Waeil Yahya Mohamed Ali-Sports Medicine & Physiotherapy Specialist from University of Sudan, visited our Institute and signed an MoU on Academic Cooperation in the presence of **Dr.M.S.Haji Sheik Mohammed** Registrar(i/c) **Dr. R. Raja Prabu**, Director (Accreditation, Ranking & International Affairs and **Mr. K. Ganesh**, Director, Placement & Training of our Institute. They interacted with Faculty & Students and presented a Seminar on “Sudan Cupping Test – A Modern Diagnostic Tool”.



3. Signed an MoU with Madras Flying Club Ltd (MFC) on 01<sup>st</sup> June 2018. **Tan Sri Dato' Sri Prof. IR. Dr. Sahol Hamid Bin Abubakar** Vice Chancellor, **Dr. M. S. Haji Sheik Mohammed**, Registrar (I/C) and **Captain Jacob Selvaraj** Pilot –Honorary Secretary, Madras Flying Club signed the MoU in the presence of **Dr. S. Rasool Mohideen**, Professor and Dean (School of Mechanical Sciences) and **Dr. Ashok Ghosh**, Head of the Department (Aeronautical Engineering) and **Dr. K. Ganesh**, Director, Placement & Training.



4. B. S. Abdur Rahman Crescent Institute of Science & Technology has signed an MoU with Myeasydocs (Incubated by IIT Madras) on 06<sup>th</sup> June 2018. **Tan Sri Dato' Sri Prof. IR. Dr. Sahol Hamid Bin Abubakar**, Vice Chancellor, **Dr. M. S. Haji Sheik Mohammed**, Registrar (I/C) and **Mr. Vishnu Prasad** Senior Research Associate Myeasydocs signed MoU in the presence of **Dr. K. Ganesh**, Director, Placement & Training Cell.

#### **Important Visitors:**

1. Dr. Kannan, Project Head & Professor – Training, Spoken Tutorial Project, NMEICT, MHRD, Govt. of India, IIT Bombay visited the institute and met our



Chairman and VC and discussed about the implementation of IIT Bombay Spoken Tutorial software training program.

2. Mr.Thiruchelvem - Whoosh Singapore Pvt Ltd., Singapore visited the university and met VC and Registrar, discussed about safety course and job placement in Singapore.



3. Mr. David Jacob, Honorary Secretary, Madras Flying Club (MFC) visited the campus met VC discussed about Aircraft license, job opportunities etc.



4. Delegates from Japan Ms. Hisako Yoshimoto, Senior Manager and Ms. Kago Lucy, Executive visited our Campus and Interacted with department Dean's about the METI Government-Japan Internship Program 2018.



5. Mr. Karthikeyan from m/s JSW Pvt Ltd visited our campus met all our department Dean's and discussed about Industrial Training and about the online lessons.



6. Mr. Guna Grace Enterprises Manager-Linkedin visited our campus met Director-HR and discussed about students Job profile, Linkedin page, Branding, Placements, etc.



## **CENTRAL LIBRARY**

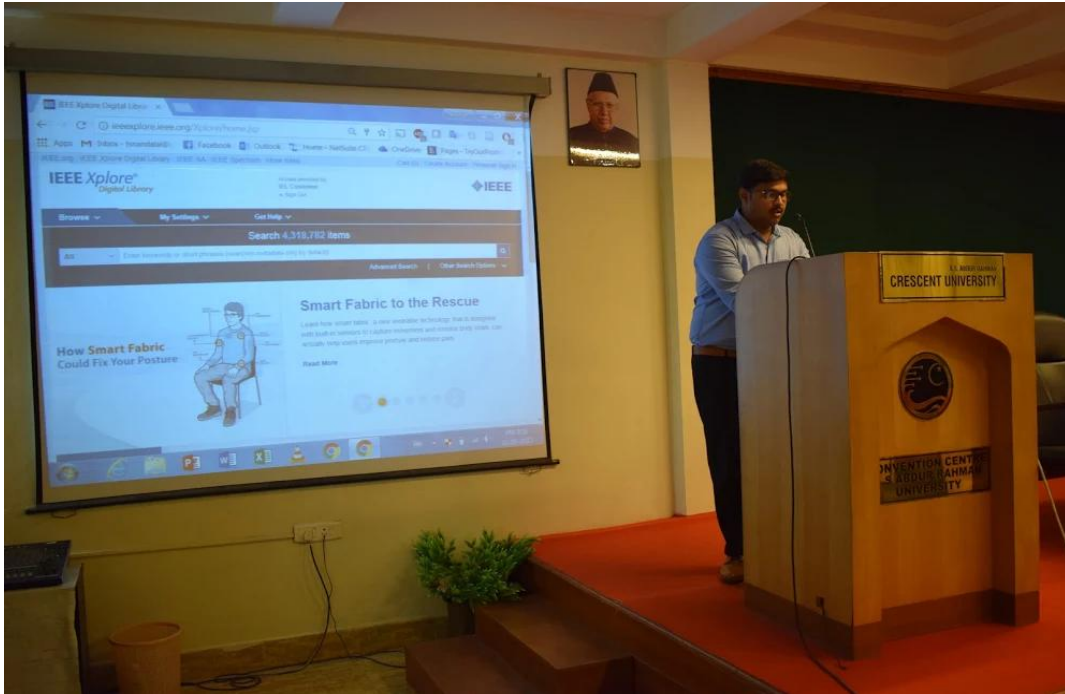
The Central Library of B.S.Abdur Rahman Crescent Institute of Science and Technology has huge collections in the field of Science, Engineering, Technology, Pharmacy, Law, Management and Humanities. The Library functions 14 hours in a day, Saturdays and Sundays also the library is working. The Library is member of DELNET (Developing Library Network), MALIBNET (Madras Library Network), British Council Division, Anna University - Chennai, American Information Resource Centre and Structural Engineering Resource Centre (SERC), Chennai. The Library is a member of National Digital Library (<https://ndl.iitkgp.ac.in/>), under the mission of National Knowledge Network. The Library enrolled its membership in Shodhganga (<http://shodhganga.inflibnet.ac.in/>) to upload PhD thesis.

The Library is subscribing online journals such as ASCE, ASME, IEEE, EBSCO Art & Architecture, EBSCO Business Source Complete, Royal Society of Chemistry, SAE International and SPRINGER publications. All these resources can be accessed anywhere in the world by 24x7 through INFED access (<https://dl.crescent.education/>). The Library has the facility to check plagiarism through Turnitin. Library conducts 'Annual Book Exhibition', regularly, which enable our staff, research scholars and students to go through hundreds of titles of their area of interest under one roof.

### **Programs Organized by Central Library during July 2017- June 2018**

- Introduction program for the first year students was conducted during 06 – 11, August 2017. Library catalogue, stock room, journal section, etc. were explained to the students.

- Orientation programme on IEEE was organized on 11 August 2017 for Final year students at Seminar Hall 1, Convention Centre. There were about 300 students participated in the program.



- Orientation programme on Emerlad eJournals and ProQuest online contents have been organized on 22 August 2017 at Seminar Hall I, Convention Centre.
- Orientation programme on e-Journals and Remote Access was conducted on 11 October 2017 to train the research scholars and PG students to access online resources more effectively and efficiently.





### **Orientation programme on e-Journals and Remote Access**

- The Central Library has organized 'Annual Book Exhibition during 22-24 September 2017.



### **Journal Publications by Library Staff**

1. P.Panneerselvam, J. Vanaja, "A study about the usage of automation software features among the users of Engineering College Libraries", *Library Science Research Journal*, Library Science Research Journal, Vol.5, No 6, pp 1-8, 2017

2. P.Panneerselvam, "Influencing factors for scholarly publications", *International Journal of Information Dissemination and Technology*, Vol.7, No 4, pp 295-298, 2017
3. P.Panneerselvam, "Scholarly publications of Central Universities: Study based on Indian Citation Index", *International Research: Journal of Library & Information Science*, Vol.7, No 3, pp 544-551, 2017.
4. P.Panneerselvam, "Research Performance of Indian States and Union Territories: A case study on scholarly publications", *Indian Academic Library Association Journal*, Vol.4, No 4, pp 359-367, 2017.
5. Dr.P.Panneerselvam, "A Study on Research Publications by Foreign Countries in Indian Journals", *Journal of Advances in Library and Information Science*, Vol.7, No 1, pp 119-122, 2018.
6. A.Selvantony, "The ICT Skills among Library Professionals in Select Engineering Colleges in Tamil Nadu: A Study", *Journal of Advance in Library and Information Science*, Vol.7 No.1, 2018.

#### **Paper Presentation in Conference**

- A.Selvantony, "Scientometric study on Anatomy in Medicine subjects Analyzing through SCIMAGO", in the proceedings of International conference on Libraries beyond orders Innovative trends, issues and challenges in knowledge dissemination (ICLBB2017), India, August 2017 (ISBN 978-93-81992-38-8)
- A.Selvantony, "Information Seeking Behaviour Of B.S.Abdur Rahman Crescent Institute Of Science And Technology Engineering Students In Ict Environment: A Study", Role of Libraries in Creating a Knowledge Society (SALIS 2018)", Science, India, September 2018 (ISBN 978-93-85469-05-3)

#### **Guest lecture delivered**

- Dr.P.Panneerselvam has delivered a lecture on 'Preparing Library for NAAC/NBA accreditation in a Seminar conducted by JBAS College for Women, Chennai on 26.08.2017.
- Dr.P.Panneerselvam has chaired a Technical Session at the National Conference on Role of Libraries in Making Digital India, organized by Thiyagarajar College of Engineering, Madurai during 07-08 July 2017.

- Dr.P.Panneerselvam has chaired a Technical Session at the National Conference organized by Senthikumara Nadar College of Arts and Science, Virudhunagar on 25th January 2017

### **Seminar Attended**

- Dr.P.Panneerselvam has participated in a seminar on e-Resources for academic libraries, organized by Elsevier on 20.12.2017.
- Dr.P.Panneerselvam has participated in a National Seminar on 'Best Practices in Academic Libraries' organized by JBAS College for Women, Chennai on 26.08.2017
- Dr.P.Panneerselvam has participated in a workshop on 'Commercialization of intellectual property and quality assurance in higher education' on 09.02.2017.
- Dr.T.Pattabhi Raman has attended One Day seminar on Integrating Content, Technology and Services to Build Digital Library organized by Dr.M.G.R. Janaki College of Arts and Science for Women, Chennai on 28<sup>th</sup> Sep 2018.



## **FACULTY TRAINING ACADEMY**

Faculty Training Academy is headed by Director, HR. The main objective of FTA is to provide training to teaching and non teaching staff of our Institution in the following:

- Teaching Pedagogy
- Research & Development
- Funding & Patent related training
- Presentation Training
- Soft Skill Training
- Stress Management Training
- Language Skills
- Training on Subject Updatations
- CT training
- Blue Ocean Technology & Bloom's Taxonomy Training
- Leadership Training

### **Programmes Organised during July 2017- June**

<b>S. No</b>	<b>Name of the Programme</b>	<b>Resource Person</b>	<b>Participants</b>	<b>Duration</b>
1	Faculty Grooming Program	Hanasha Basker Training Manager, Scale-up Development Centre	30	25.08.2017 to 26.08.2017
2	Innovative Pedagogy	Dr. Nikhil, Associate, Director, R.K University, Gujarat	356	05.08.2017
3	Strategies for Innovative and Quality Research	Dr. Nikhil, Associate, Director, R.K University, Gujarat	300	31.07.2017 to 04.08.2017
4	New Faculty Orientation Programme	Our Vice Chancellor, Director(HR), Dean Academics, COE & Director Admissions	75	17.11.2017

5	One Day Guest Lecture on "Stress Management"	Dr. Chandra Mohan, Clinical Psychologist .	356	02.01.2018
2	Train the Trainers Programme	Mr. Akshay From SKILLMATIX.	30	26.06.2018 to 28.06.2018

➤ **Workshop on Faculty Grooming**

### **Faculty Grooming Program**

**25TH & 26TH SEPTEMBER 2017- 2 DAYS TRAINING HAS BEEN CONDUCTED UNIVERSITY FEMALE FACULTIES.**

**EMINENT TRAINER-HANASHA BASKER TRAINING MANAGER FROM SCALEUP DEVELOPMENT CENTRE**



➤ **Workshop on Innovative and Quality Research**

**"Strategies for Innovative and Quality Research" by Dr. Nikhil, Associate Director, R.K University, Gujarat.**



➤ **New Faculty Orientation Programme**



➤ **Guest Lecture on Stress Management**



Guest Lecture on "Stress Management"

➤ **Training Programme for Trainers**

**Train the Trainers Programme**





## PHYSICAL EDUCATION DEPARTMENT

Physical Education department is working on the holistic development of the individual rather than concentrate only on physical development.

The objective of the department is as follows:

- To motivate students in participation of sports and games
- To increase continually the achievement level in inter – institutional Tournaments.
- To increase the number of students' participation in the inter – University Tournaments.
- To create awareness among all students for all round personality development through sports activities.

The Physical Education Department plays an important role in the personality development of students by involving students in various sports activities and by organizing major sports events. The department is a full-fledged department having all the infrastructure to play all the outdoor games like Foot Ball, Cricket Basket Ball, Volley Ball, Kabaddi, Ball Badminton, Tennis and Indoor games like Table Tennis, Carrom, Chess etc., Department is having standard 400 Metres Athletic Track with full equipments, Swimming pool , a well equipped modern Fitness Centre for Men & women separately. Students won prizes at the National Level & State Level Competitions.

### EVENTS (July 2017-June 2018)



## **TAEKWONDO**

Mr. S.Yokash – II B.Tech (CSE) won the Bronze Medal in Inter National Taekwondo Championship -2017 (63-66 kg Weight Category) held at Kolkata on 20th & 21st December-2017 and he also won the Gold Medal in 37th National Taekwondo Championship - 2017 (63-66 kg Weight Category) held at Kolkata from 8th to 10th January – 2018 and he participated in the All India Inter University Taekwondo Championship 2017-18 held at Panjabi University, Punjab from 12.02.2018 to 19.02.18.

## **BEST PHYSIQUE**

Mr. N.Vignesh – IV B.Tech (Auto) won Mr. Chennai Award in Best Physique Competition -2017 (75 kg Weight Category) organized by Chennai District Amateur Body Building Association held at Nehru Stadium, Chennai on 5th & 6th August-2017 and also won the Gold Medal in the State Level Body Building Competition held at Trichy on 24th Dec-2017 and also won the Bronze Medal in Senior State Level Competition held at Vellore on 10th Dec – 2017 and he also won Silver Medal in Senior State Level Body Building Competition held at Avadi, Chennai on 7th January-2018. Mr. M.Gunasekaran – Fitness Instructor & Trainer won Mr. Tamilnadu Award in State Level Body Building Championship - 2018 (60 kg Weight Category) organized by Tamilnadu Amateur Body Building Association held at Ambedkar Thidal, Chennai on 18th March – 2018 and he also won the Bronze Medal in Mr. Kanchi -2018 Body Building Championship held at Pammal, Chennai on 11.03.2018.

## **ARCHERY**

**Mr. N.Hemprasanth – II B.Tech (ECE)** won the Silver Medal in 9th Tamilnadu State Volvil Oori Archery Championship -2017 (under 19 category) organized by SDAT, Namakkal on 2nd & 3rd August-2017 and also won Silver Medal in the State Level Buck Memorial Sports festival Archery Championship organized by YMCA college of Physical Education, Chennai on 23rd August-2017 and he also participated in the All India Inter University Archery Men Competition 2017-18 held at KIIT University, Bhubaneswar, Odisha from 25.12.2017 to 29.12.17.



## FOOTBALL:

University Football team won the Runners Up position in the 18th State Level Founder's trophy Football tournament for men with a cash prize of Rs. 3,000 organized by our Institute and also Mr. K.S.L.Mohamed Sadakatullah – III B.Tech (Civil) won the Best player Award in this tournament.

## BALL BADMINTON

Ball Badminton Men team won the State Level Ball Badminton Tournament with cash prize of Rs. 10,000 organized by SRMCC Ball Badminton club, Ulundurpettai on 5th & 6th August-2017 and **Mr. N.Sathish Kumar –III B.Tech (Civil)** got the Best Player Award.

Ball Badminton Men team won the State Level one Senior Ball Badminton Tournament with cash prize of Rs. 17,500 organized by BMD Portonavo Ball Badminton club, Parangipettai, Cuddalore on 19th & 20th August 2017. One of our Ball Badminton Men Team Players Mr. N.Sathish kumar- III B.Tech (Civil) was selected to represent the Tamilnadu Junior Ball Badminton Team which won Runners up position in 63rd Junior National Ball Badminton Championship 2017-18 organized by Karnataka Ball Badminton Association, promoted by Ball Badminton Federation of India from 4th to 8th October -2017 held at Shikaripura, Karnataka.

Three of the Ball Badminton Men Team Players **Mr. N.Gopinath-** III B.Tech (Polymer), **Mr.S.Aravindan** – III B.Tech (Mech) and **Mr. P.Jothi Prakash** – II BCA were selected to represent the Tamilnadu Ball Badminton Men Team in First Youth National Ball Badminton Championship-2018 to be organised by Ball Badminton Federation of India at Bihar from 25th to 27th March-2018.

Men Team participated in the All India Inter University Ball Badminton Men Tournament 2017-18 held at Yogi Vemana University, Kadapa (AP) from 26.12.2017 to 01.01.18.

Men team won the Runners Up position in the 10th State Level Silver Jubilee Trophy Ball Badminton tournament with a cash prize of Rs. 3,000 organized by our Institute on 23rd & 24th January-2018.

Men team won the District level 'B'Grade Tournament with a cash prize of Rs. 5,000 Organized by Crystal Ball Badminton Club held at Karpaga Vinayaga College of Engg. Madurantagam on 28th January 2018 and also two of our students Mr. N. Gopinath - III B.Tech (P.E) & K.Arun Kumar – IV B.Tech (EEE) got the best Player awards.

Men Ball Badminton team won the State Level one Senior Ball Badminton Tournament with cash prize of Rs. 15,000 organized by Himalayan Ball Badminton club, Tirupur on 3rd & 4th February 2018 and Mr. N. Gopinath - III B.Tech (Polymer) got the best Player award.

Ball Badminton Women team won the Fourth Position in All India Inter University Ball Badminton Tournament in which 100 teams from all over India participated in this great event organized by Dravidian University from 5th to 9th February - 2018.

Women team won the Third Position in 10th State Level Silver Jubilee trophy with a cash prize of Rs. 2,000 organized by our Institute on 23rd & 24th January-2018.

Women team also won the Fourth Position in the All India Level SRM Founder's Trophy Ball Badminton Tournament organized by SRM institute of Science & Tech, Potheri from 22nd to 25th August -2017.

Two of the Ball Badminton Women Team Players **Ms. M.Keerthana - II MBA & Ms. S.Yasmin- II M.Tech (E&I)** were selected to represent the Tamilnadu State Ball Badminton Team which won the Third position in the Senior National Ball Badminton Tournament organized by Haryana Ball Badminton Association, Haryana held at National Public School, Gurugram, Haryana from 5th to 9th January-2018



**Ms. P.V.S.N. Jayalakshmi** – III B.Tech(P.E) was selected to represent Andhra State Ball Badminton Women team which won the Fourth position in the Senior National Ball Badminton Tournament organized by Haryana Ball Badminton Association, Haryana held at National Public School, Gurugram, Haryana from 5th to 9th January-2018 and also won second position in Mixed Doubles in the same Tournament .



Badminton Men team player **Mr. S.A.Rajaram** – I B.Tech (Mech) won the 2nd Junior National Badminton Championship-2017 organised by Youth Sports Association of Tamilnadu, Nagapattinam on 5th & 6th August – 2017 and he also won the second place in Singles & Doubles in the IV Rural Games Federation Cup 2017-18 Badminton Tournament organised by Tamilnadu Rural games Association held at Cuddalore from 19th to 21st January-2018. This is a great achievement by our students and Badminton Women team player **Ms. S.A.Ramya**- I B.Tech (E&I) won the second Junior National Badminton Championship-2017 organised by Youth Sports Association of Tamilnadu, Nagapattinam on 5th & 6th August – 2017.

**Mr. N.Kishore** – I B.Tech (ECE) won the under 19 Doubles Badminton Tournament with a cash prize of Rs.4000/- held at Vellore on 23rd July – 2017 and won the first

place in doubles in the Men's Open District Badminton Tournament conducted by Perambur Badminton Club on 19th Oct-2017 and he also won the first place in singles and Second Place in Doubles in the IV Rural Games Federation Cup 2017-18 Badminton Tournament organised by Tamilnadu Rural games Association held at Cuddalore from 19th to 21st January-2018 and also won the third position in Chennai open Badminton Tournament with cash award of Rs. 2000/- held at Chennai on 26th August 2017.

**Mr. R.Loyd Vergil** – I B.Tech (E&I) won the State Level Crescent Badminton Tournament with a cash prize of Rs.4000/- organized by our Crescent Alumni Association at Chennai on 10th Nov-2017 and he also won the Third place in singles in the IV Rural Games Federation Cup 2017-18 Badminton Tournament organised by Tamilnadu Rural games Association held at Cuddalore from 19th to 21st January-2018. Badminton Men Team Participated in the South Zone Inter University Badminton Men Tournament 2017-18 held at KL University, Vadeswaram, Guntur from 06.12.2017 to 10.12.17.



## **CRICKET**

Cricket Men team won the City League Cricket SM Trophy-2017 organized by SM Cricket Club, Chennai from 16th Sep-2017 to 28th Dec-2017 and Mr. S.Faizal Rahman – III B.Tech (Mech) won the Man of the Match for claiming 5 wickets, Mr. M. Aswin – II B.Tech (Bio Tech) won the Best Fielder Award, Mr. Siva

Sankar – II B.Tech (Mech) won the Best Batsman Award of the Match and Mr. R.Sarath Perumal – III B.Tech (EEE) won the best bowler Award.

Cricket Men team won the fourth position in the State Level Dr. MGR Trophy T20 Cricket 2018 Tournament organized by Sathyabama University , Chennai from the last week of January to 2nd week of February 2018 in which 65 teams participated from all over Tamilnadu.

**Mr. S.Faizolrahman – III B.Tech (Mech)** was selected to represent the Andhra State Team, Kadapa Cricket Club and participated in the National Level Rajasthan Cricket League Tournament-2018 organised by RCL, Rajasthan Kota from 28th January -2018 to 7th February -2018 and also won the Third Place in Junior Premier League (JPL )Cricket Tournament-2018 from 16th to 25th February-2018 held at Delhi.

### **BASKET BALL**

Basket Ball Men team won the Third Position in the State Level Inter Collegiate Basket Ball Tournament organized by IIT Madras, Chennai from 20th to 24th November-2017 and also won the Fourth position with a cash prize of Rs. 1,000 in the 12th State Level Prof. S. Peer Mohamed Memorial Trophy Basket Ball tournament for men organized by our Institute. Our team also participated in the **South Zone Inter University Basket Ball Men Tournament** organized by Christ University, Bangalore from 28.10.17 to 01.11.17.

### **TENNIS**

Tennis Men team player Mr. R.Barathsri – II B.Tech (Mech) won the District Level CM Trophy-2018 Tennis Tournament organized by SDAT Cuddalore on 6th & 7th January – 2018.

### **TABLE TENNIS**

Table Tennis Women team has won the Runners Up Position in the State Level Inter Collegiate Table Tennis Tournament organized by IIT Madras, Chennai on 20th to 24th November-2017. She also won the Fourth Place with cash prize of Rs, 1,000 in the All India Level SRM Founder's Trophy -2017 organized by SRM University, Potheri from 22nd to 24th August 2017.

Ms. K.S.Subiksha – I BBA LLB has won the 5th Pondicherry State Ranking Table Tennis Championship-2017 organised by PSTTA Achariya Table Tennis Club,

Pondicherry on 10th & 11th Nov-2017. She also won the 15th State Ranking Tournament held at Pondicherry from 11th to 13th Sep-2017 and secured Runners Up position in XII State Ranking Table Tennis Championship-2017 held at Pondicherry from 13th to 15th Oct-2017. Table Tennis Women Team Players Participated in the South Zone Inter University Table Tennis Women Tournament 2017-18 held at SRM University from 27.12.2017 to 29.12.17.

Table Tennis Men team won the Fourth Place with cash prize of Rs, 1,000 in the All India Level SRM Founder's Trophy -2017 organized by SRM University, Potheri from 22nd to 24th August 2017 and also won the Fourth Position in the State Level Inter Collegiate Table Tennis Tournament organized by IIT Madras, Chennai during 20th to 24th November-2017.

Ms.S.Meenakshi Subasri – II B.Tech (CSE 'B') won the Runners Up Position in Kancheepuram District Association Ella Rajamanickam Memorial open Table Tennis Tournament-2018 organised by Liya Table Tennis Coaching Centre on 17th & 18th Feb-2018.

## **ATHLETICS**

Athletic Men team won the following Position in the State Level Inter Collegiate Athletic Meet organized by IIT Madras, Chennai during 20th to 24th November-2017.

1. Mr.H.Srivignesh ( III B.Tech( EEE)) – I place in 1500 M Race
- 2 . Mr.V.Samuel ( I B.Tech (CSE)) – II place in 100 M Dash
- 3 . Mr.S.Swaminath (II B.Tech (Mech)) – II place in 200 M Dash

## **YOGA**

Our Yoga Men team won the following Positions in South India Yogasana Championship-2017 organized by Tamilnadu Yoga Cultural Society held at Kancheepuram on 25th Nov 2017. The following prizes were secured

- 1. S. Rohit Kumar – III B.Tech ( Mech 'D')**
  - IPlace in Individual category
  - I Place in Champion Round
- 2. A.S.A. Dharanivel – III B.Tech ( Mech 'A')**

- II Place in Individual Category
- won the IV Place in National Yoga Competition organized by Saveetha University, Chennai on 23rd July-2017.

## **HAND BALL**

**Mr. R.Yaswant Reddy – I B.Tech (ECE)** was selected to represent the Pondicherry District Hand Ball Team and won the First Place in the State Level Championship - 2018 held at Karaikal on 24th & 25th February 2018.

## **KARATE**

**Mr. T.Guru Ragvesh – I B.Tech (Auto)** won the gold Medal in 7th South Zone Championship -2017 (under 18 category) organized by Alan Thilak Shito-Ryu Inter National, Kanyakumari on 12th August-2017.

**Mr. V.Naveen Kumar – I MCA** won the gold Medal in 4th Bodhidarman Memorial National Open Karate Championship -2018 (18+ Open category) organized by Bharath - HYU Karate Academy at Kanceepuram on 18th February 2018.

Our Volley Ball (M), Kabaddi (M), Chess(M), Rugby (M), Throw Ball (W) and other sports teams have participated in most of the All India/South Zone Inter University & other State Level tournaments in the academic year 2017-18.

## **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 AND ENGINEERING (CSE)**

### **1. Value Added Programmes conducted:**

Organized six weeks 'Oracle iLearning Certification Programme' in "Java Fundamentals and Java Programming" at B.S.Abdur Rahman Crescent Institute of Sciences & Technology in collaboration with Oracle Academy and ICT Academy of Tamilnadu during 28<sup>th</sup> August 2017 to 6<sup>th</sup> October 2017.

### **2. Training Programmes Offered**

Organized six weeks 'Oracle iLearning Certification Programme' in "Java Fundamentals and Java Programming" at B.S.Abdur Rahman Crescent Institute of Sciences & Technology in collaboration with Oracle Academy and ICT Academy of Tamilnadu during 28<sup>th</sup> August 2017 to 6<sup>th</sup> October 2017. Dr S. Saira Banu coordinated the training programme.

### **3. Conferences / FDP / Seminars / Workshops Conducted**

#### **Seminars Organized**

Organized a Seminar on "Java Programming" at BSACIST on 21<sup>st</sup> October 2017. The speaker of the event was Mr.S.Thamarai Selvam, iNautix, Chennai. It was coordinated by Dr. L.Arunraj, Ms.R.Narayani and Ms.D.Madhina Banu.

#### **Workshops Organized**

1. Organized a one day workshop on "Applied Machine Learning" on 10<sup>th</sup> August 2017. Mr. Mohammed Rafi, Founder and COE, Foresight Data Labs handled the workshop for UG and PG students.
2. Organized an International Symposium on "Artificial Intelligence – The Future Disruptive Technology" during 6<sup>th</sup> & 7<sup>th</sup> November 2017. Prof Scott E. Fahlman, Professor Emeritus, Language Technologies Institute and department of Computer Science, Carnegie Mellon University, Pittsburgh was the resource person.
3. Organized an Interactive Session for Pre-School Educators on "Reggio Emilia Approach on Imparting Education" with Mrs. Penelope C Fahlman (Penny), Former Teacher of Pittsburgh, US based Pre-School on 6<sup>th</sup> November, 2017



#### **4. Conferences / FDP / Seminars / Workshops Attended**

##### **Faculty Development Programme attended**

1. Dr. Sharmila Sankar, Ms S.P.Valli, Ms C.Hema and Ms S.Bagirathi attended the Faculty Development Programme on “Digital and its Transformation” at Cognizant Technology Solutions on 23<sup>rd</sup> September 2017.
2. Ms R. Akila and Ms J.Brindha Merin attended the Faculty Development Programme on “Python Programming” organized by Sai Ram Engineering College, Chennai during 14<sup>th</sup>- 16<sup>th</sup> June, 2017.
3. Ms C.Hema and Ms S.Bagirathi attended the Faculty Development Programme on “Data Science and Big Data Analytics” organized by Sai Ram Engineering College during 19<sup>th</sup> - 23<sup>th</sup> June 2017.
4. Dr.S.Revathi attended the Faculty Development Programme on “Foundation Program in ICT for Education” during 8<sup>th</sup> March to 12<sup>th</sup> April, 2018.
5. Dr.S.Revathi attended the Faculty Development Programme on “Pedagogy for Online and Blended Teaching - Learning Process for Education” during 3<sup>rd</sup> - 30<sup>th</sup> May 2018.
6. Dr.M.Sandhya, Dr.Sharmila Sankar, Ms S.P.Valli, Ms R.Akila, Ms Narayani, Ms.C.Hema, Ms Brindha Merin, Ms Subhashini, Ms.T.R.Akila Devi, Ms Radhika and Ms Madhina Banu attended the Faculty Development Programme on “IBM CE-Enablement Program - DBMS” organized at BSACIST during 2<sup>nd</sup> - 6<sup>th</sup> July 2018.

##### **Workshop Attended**

1. All the faculty and Research scholars of the Department of Computer Science and Engineering attended the workshop on “Strategies for Innovative and Quality Research” organized by BSA Crescent Institute of Science and Technology during 31<sup>st</sup> July - 5<sup>th</sup> August 2017.
2. Ms S.Subhashini attended the workshop on “IoT with Arduino” organized by BSA Crescent Institute of Science and Technology on 3<sup>rd</sup> December 2017.
3. Ms.R.Narayani and Ms.S.Subhashini attended a two days workshop on “Information Technology Essentials” at St.Joseph’s Institute of Technology during 8<sup>th</sup> and 9<sup>th</sup> December 2017.

4. All faculties in the Department of Computer Science and Engineering attended the workshop on “Women Empowerment” organized by BSA Crescent Institute of Science and Technology on 8<sup>th</sup> March, 2018.

### **Papers Published/ Presented In Journals & Conferences**

National Conference	International Conference	National Journal	International Journal	Total
-	7	-	19	26

### **Details of Publication In National & International Journals & Conferences: (IEEE Format)**

#### **International Journal:**

1. S.P.Valli, Dr.Sharmila Sankar, Dr.K.M.Mehata, “A Heuristic Method For Improving Tcpperformance By A Greedy Routing Algorithm” Journal of Theoretical and Applied Information Technology, Vol: 95, No.19, PP 5215-5213,2017.
2. SairaBanu, R.Shriram ,Radhika ,”Effective Packet Loss Concealment Algorithm For VIOP”,Journal Of Advanced Research In Dynamical And Control Systems”, Vol no :17,pp no:598-618,2017.
3. Azka and S.Revathi “Protocols for Secure Internet of Things”, International Journal Education and Management Engineering,Vol No :2,PP :20-29,2017.
4. Arun Raj.L, Dhananjay Kumar and A.Srinivasan,” Adaptive video streaming over HTTP through 4G wireless networks based on Buffer Analysis”, Journal on Image and Video Processing,Vol no:41,2017.
5. S.Sharon Priya and W.Aisha Banu,” Fuzzy Resource Pre-processing and Compress and Join Gang Polling Evaluation”, International Journal of Intelligent Engineering and Systems, Vol.10, No.3, pp 371-380, 2017.
6. SV.Shri Bharathi, Angelina Geetha , “ Sentiment Analysis for Effective Stock Market Prediction”, International Journal of Intelligent Engineering and Systems ,Vol no:10, No 3,pp no:146-154.2017.
7. TN Ravishankar, R Shriram “A review of algorithms applied for linguistic sentiment analysis-A study with reference to Tamil Tweets by public in

- Twitter”, International Journal of Computer Science and Information Security, Vol:14, No:1, pp:1-10, 2017.
8. Nadana Ravishankar, Shriram Raghunathan “Corpus Based Sentiment Classification Of Tamil Movie Tweets Using Syntactic Patterns”, IIOAB Journal, Vol: 8, No 6, pp: 172-178, 2017.
  9. Nadana Ravishankar, Shriram Raghunathan “Grammar Rule based Sentiment categorization model for classification of Tamil Tweets”, International Journal of Intelligent Systems Technologies and Applications – Inderscience, -2017.
  10. Ruby Annette.J and Aisha Banu, “Cold Start Problem In Recommending Cloud Services:A Survey”, Journal of Advanced Research in Dynamical and Control Systems Vol. 9, Sp no 16 ,2017.
  11. Ruby Annette.J and Aisha Banu, “Towards An Ontology For Cloud Renderfarm Services”, Journal of Advanced Research in Dynamical and Control Systems Vol. 9, Sp no 16, 2017.
  12. Ruby Annette. J and Aisha Banu. W, Subash Chandran, “A Cloud Broker Framework for Cloud Render farm Services Selection” Advanced Engineering Research and Applications.
  13. Madhina Banu, D. Aranganathan.S, “Study of Load Optimization and Performance Issues in Cloud”, Indonesian Journal of Electrical Engineering and Computer Science (IJEECS), vol.11, no.3, pp. 1035 - 1041, 2018.
  14. Saira Banu, “Implementing a Response System for Particular Domain Using Machine Learning”, International Journal of Current Engineering and Scientific Research (IJCESR), vol.5 ,No 4, pp. 73-78, 2018.
  15. Radhika.A, “Kind of Crops and Small Plants Prediction using IoT with Machine Learning, International Journal of Computer Mathematical Sciences”, vol.7, No.4, pp no. 93-97, 2018.
  16. Hema.C, Sharmila Sankar, M. Sandhya, “Naive Bayes algorithm for reducing the redundant data in the cluster based RFID network”, International Journal of Pure and Applied Mathematics, vol.118, No .9, 2018.
  17. X Arputha Rathina, “Face Emotion Recognition using combined SIFT, LBP and Local Phase Quantization Features”, International Journal of Engineering Technology Science and Research, Vol. 4, No8, 2017.

18. Saira Banu, R. Shriram, Radhika, "Effective Packet Loss Concealment Algorithm For VIOP", Journal of Advanced Research in Dynamical and Control Systems", vol.17, pp.598-618, 2017.

**International Conference:**

1. L. Arun raj and Dhananjay Kumar, "Machine learning approach for quality adaptation of streaming video through 4G wireless network over HTTP", International Conference on ITU Kaleidoscope, China, November 2017.
2. V. Muthupriya and S. Revathi, "Secure Location Aided Routing (SLAR) for Mobile Ad Hoc Networks "IEEE International conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI), Chennai, September 2017.
3. T.R. Akila Devi, R. Akila and Angelina Geetha, "Framework for Embedded Intelligence – Integrating IOT, WOT and W2T", in the proceedings of IEEE sponsored Second International Conference on Computing and Communications Technologies, Chennai, Feb-17.
4. D. Veni and Angelina Geetha, "Chronic Kidney Disease (CKD) Prediction using Shuffled Frog Leap Algorithm and Metabolic Profiling" in the proceedings of 8th International Conference on Computer Science and Information Technology, Chennai, March 17.
5. Shri Bharathi and Angelina Geetha, "Sentiment Analysis for Online Stock Market News using RSS Feeds", in the proceedings of 8th International Conference on Computer Science and Information Technology, Chennai, March 17.
6. R. Narayani and W. Aisha Banu, "Dynamic Evolutionary based Scheduling Algorithm in Cloud Computing", in the proceedings of International Conference on Current Trends in Data Science and Virtualization, April 2018.
7. Madhina Banu. D and Aranganathan. S, "Study of Load Optimization and Performance Issues in Cloud", in the proceedings of International Conference on Science, Engineering and Technology Applications, January 2018.

**5. Details of Impact Factor of The Publication H-Index**

- A) Range of Impact Factor: 0.13-1.5
- B) Average impact factor : 1.16
- C) H-Index : 9
- D) No. In Scopus : 7

## 6. Sponsored Research (Ongoing / Applied)

S. No	Principal And Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1	Dr.E.Syed Mohamed	SERB-DST	Tsunami waves propagation model using Cellular automata	22.5 Lakhs	communicated

## 7. International Visits By Faculty / Students

1. Dr.L.Arunraj presented a paper titled “Machine learning approach for quality adaptation of streaming video through 4G wireless networks over HTTP” in International Conference on ITU Kaleidoscope 2017” organized by Nanjing University of Post and Telecommunication, China during 27<sup>th</sup> - 29<sup>th</sup> November, 2017.

## 8. Achievements of Students

1. Vishal.R.K presented a paper titled “Opinion mining on YouTube comments for effective video classification” International Conference on Knowledge based Computing Technologies,6<sup>th</sup> -7<sup>th</sup> April, Chennai 2018.

## 9. Students Co-Curricular Activities:

1. Fatah Mohammed Aziz of II Year CSE ‘A’Sec won the first place in event ‘Caption IT’ during the “Literary day -17” held on 14<sup>th</sup> October 2017.
2. Fatah Mohammed Aziz of II Year CSE ‘A’Secparticipate in all the events at EXON 2k18 organized by School of Life Science, BSACIST, on 13<sup>th</sup> April 2018.
3. Mohammed Mustaq of II Year CSE ‘B’Sec has won Second prize in the event on ARCANE 18 conducted by BSACIST on 27<sup>th</sup>March 2018.
4. Venkata Srinivasalu.V and Kalavalapudi Venkata Sri Bharath of III year CSE ‘A’ Sec has won First prize in the event “Code Club -Creators”, conducted by BSACIST on 24<sup>th</sup> April 2018.

5. Joshua.J and D.Kishore Bharath of III year CSE 'A' Sec has won First prize in the event "Code Club –Talk the Tech", conducted by BSACIST on 24<sup>th</sup> April 2018.
6. Aijaz Afzaal Ahmed of III year CSE 'A' Sec has won First prize in the event "Code Club – Role Play" conducted by BSACIST on 24th April 2018.
7. Mohideen Abdul Kader. M of III year CSE 'A' Sec has won Second prize in the event "Code Club –Crack the Bug" conducted by BSACIST on 24th April 2018.
8. Alisha Begam.S and Saadiya Khan of III year CSE 'A' Sec has won Third prize in the event "Code Club -Creators" conducted by BSACIST on 24<sup>th</sup> April 2018.
9. N B Praveen, G V Divyalakshmi and J.Swetha of II year CSE 'A' Sec has participated in National Level Technical Symposium organized atJeppiaar SRR Engineering College, Chennai on 27<sup>th</sup> March 2018.
10. N B Praveen, G V Divyalakshmi and J.Swetha of II year CSE 'A' Sec has attended the workshop on "ZOHO Creators", conducted by BSACIST during 24<sup>th</sup> - 27<sup>th</sup> April 2018.
- 11.G V Divyalakshmi of II year CSE 'A' Sec has participated in the event on Workshop on "Ethical Hacking" conducted by MIT during 9<sup>th</sup> - 11<sup>th</sup> February 2018.
- 12.S.Yokash of II Year CSE 'C' Sec has won third prize in the event on "Open International Taekwondo Championship" during 20<sup>th</sup> -2 1<sup>st</sup> December 2017.
- 13.S.Yokash of II Year CSE 'C' Sec has won first prize in the event on "Official National Taekwondo Championship" during 8<sup>th</sup> - 10<sup>th</sup> January 2018.

## **10. Developmental Activities**

1. Dr M. Sandhya and Dr. Sharmila Shankar, Editorial member for International Journal of Computational Science and Applications (IJCSA).
2. Dr W.Aisha Banu, reviewer for International Journal of Information Security and Privacy.

## **11. Society Activities**

### **Talent Hunt**

1. The Department has conducted the event "Talent Hunt" on 12<sup>th</sup> October 2017. Nine technical and four non technical events was organized. Dr.S.Revathi was the convener. Ms.J.Brindha Merin and MsT.R.Akila Devi coordinated the event.

## **DEPARTMENT OF INFORMATION TECHNOLOGY**

### **Value Added Programmes Conducted:**

The School of Computer, Information and Mathematical Science organized Six Weeks “Oracle iLearning Certification Programme” in “Java Fundamentals and Java Programming” at B.S.Abdur Rahman Crescent Institute of Sciences & Technology in collaboration with Oracle Academy and ICT Academy of Tamilnadu during 28<sup>th</sup> August 2017 to 6<sup>th</sup> October 2017.

### **Conferences / FDP / Seminars / Workshops Conducted:**

#### **FDP Organized**

- Organized a two days FDP on “Introduction to R Programming” by School of Computer, Information & Mathematical Sciences in collaboration with ICT Academy during 1 & 2 March 2018.

#### **Workshops Conducted:**

The Department has

- Organized a one day workshop on “Data Analytics using R tool”, at BSACIST during September 2017.
- Organized One day workshop on “Data Analytics” to demonstrate Alteryx tool by M/s.Simple Analytics at BSACIST on 12/4/2018.

#### **Seminars Conducted:**

- Organized seminar on “Data Lake-An Agile Expedition” by Ms.S.Niranjana, Quality Assurance Analyst, Tata Consultancy Services, Thorapakkam, Chennai. On 2nd August 2017
- Organized seminar on “Virtualization – VMware vSphere” by Mr.Usman, Trainer AMOS Technologies, Chennai on 4<sup>th</sup> August, 2017.
- Organized seminar on “Demo on Internet of Things-Design Principles” by VI Microsystems Pvt.Ltd, Chennai on 26<sup>th</sup> August, 2017.
- Organized seminar on “Importance of Data Structure in IT Industries” by Mr.K.Subramanian, Director, Sirpi Software Pvt Ltd, Chennai during 12<sup>th</sup> September 2017.



- Organized seminar on “Next Generation Technologies” by Mr.S.Mohamed Bakkrudeen, Associate Director, Life Sciences – QE &A Practice, Cognizant Technology Solutions, Chennai on 16<sup>th</sup> September, 2017.
- Organized seminar on “Are you Ready to Face the Outside World” by Ms.Arunmozhi Madhavan, M.E, Senior Consultant, Mumbai on 9<sup>th</sup> October 2017.
- Organized seminar on “Machine Learning Algorithm Based On IOT” by Mr.A.Athif shah, M.E(Ph.D), Chairman & Managing Director, ABE Semiconductor, Chennai during 11<sup>th</sup> October 2017.
- Organized seminar on “Software Quality Assurance in Industry Standards” by Mr.Ragavendar, Quality Assurance & Automation Engineer, FEDBY Information Services, Pvt.Ltd, and Chennai on 14th October 2017.
- Organized seminar on “Role of Sensors in IOT” by Mr.Abdul Waheed, Research Scholar, Computer Science, Chennai on 20th October 2017.
- Organized seminar on “Software Management and People Management in Corporate” by Mr.A.Alagaraja, Product Lead, Service Desk Plus, Zoho Corporation, Estancia IT part, Chennai on 24th October 2017.
- Organized Interactive Session for Pre-School Educators on “Reggio Emilia Approach on Imparting Education” with Mrs.Penelope C Fahlman (Penny), Former Teacher of Pittsburgh, US based Pre-School on 6<sup>th</sup> November, 2017 by SCIMS, B.S.Abdur Rahman Crescent Institute of Science & Technology.
- Organized a Guest Lecture on “How to Prepare for Job Interviews – Tips & Techniques” by Mr. Alauddin.U, Software Development Engineer in Test - II @ Amazon, Chennai on 13.3.2018.
- Organized a guest lecture on "Fundamentals of Machine learning and Learning models" by Mr.Gowtham Balaji – IBM certified trainer, Mr.Naresh Kumar – Trainer, Object Automation software solutions (P) Ltd for B.Tech VI semester studentson 23/3/18.
- Mr. Shaikh Abdul Waheed, Full Time Research Scholar, B.S.Abdur Rahman CIST, Chennai delivered "Demo on IOT based Cloud" on 09.04.2018
- Ms.Veeralakshmi, Part time research scholar, Prince Venkateshwara Padmavathy engineering college, Chennai delivered demo and guest lecture on "Private cloud set up using Open Nebula-Cloud Middleware" on 19.04.2018

- Mr. Mohammed Waseem, Part time research Scholar, BSARCIIST, Team leader, Wipro Technologies, Hyderabad gave seminar on "AWS Cloud" on 21.04.2018
- Mr. Mohammed Hasan, Part time research scholar, BSARCIIST, Team leader, Cognizant Technologies, Hyderabad gave seminar on "Migration of E-Mail Services to Hybrid Cloud" on 21.04.2018.

## **Conferences / FDP / Seminars / Workshops Attended**

### **Conferences Attended**

- Shahbaz Afzal and G.Kavitha "Impact on QoS in Cloud Computing Employing a Parallel Queuing Model with Strictly Increasing Arrival Rate - An Analytical Approach" in the 6th International Conference on Contemporary Engineering and Technology- 2018 held during 10th and 11th March 2018.
- Dr.G.Kavitha attended a one day online conference "Awesome Day- Cloud Computing Core Services" organized by AWS on 31.5.2018

### **FDP Attended**

- Ms. P.Usha, Assoc.Prof attended one week FDP on "Research development" organized by Crescent Business School during June 2017.
- Ms.C.Vijayalakshmi AP(Sr.Gr.) and Ms A.Sonya, AP, Ms.Nabeena Ameen AP(Sr.Gr.), attended Training for Trainers programme on "Social Entrepreneurship" organized by Crescent Business School on 31<sup>st</sup>July to 4<sup>th</sup> August 2017.
- Ms.P.Usha, Asso Prof, Dr. P. Latchoumy, AP(Sel.Gr.), Ms. L.Shakkeera, AP(Sr.Gr.), Ms.R.Mythily, AP, Ms.A.Sonya,AP and Ms Nabeena Ameen (AP) (Sr Gr) attended Six days research workshop on "Strategies for Innovative and Quality Research" during 31.07.2017 to 05.08.2017 organized by Research Office at BSACIST.
- Ms.C.Vijayalakshmi AP(Sr.Gr.) completed 8 weeks NPTEL Online Certification Course on "Introduction to Operating Systems" conducted by MHRD & IIT Madras during July - December 2017 by IIT Madras and Ministry of HRD, Govt. of India.
- Dr. N.Prakash, Ms. R. Priyadarshini and Mr. N.Rajendran attended a two days FDP on "Introduction to R Programming" by School of Computer, Information &

Mathematical Sciences in collaboration with ICT Academy during 1 & 2 March 2018.

- Ms. L. Shakkeera completed 12 weeks NPTEL Online Certification course on “Cryptography and Network Security” during January to April 2018 coordinated by IIT Kharagpur and Ministry of HRD, Govt. of India.
- Ms.R.Priyadarshini successfully completed 8 weeks NPTEL Online Certification course on "Cloud Computing Technologies" during January to April 2018 by IIT Kharagpur and Ministry of HRD, Govt. of India.

### **Workshops Attended**

- Ms.C.Vijayalakshmi AP(Sr.Gr.), Ms.Nabeena Ameen, AP(Sr.Gr) and Ms.A.Sonya, AP attended a one day workshop on “Scratch Programming” on 21/7/17 at Apple iOS Application Development Centre conducted at B.S.Abdur Rahman Crescent Institute of Science & Technology.
- Dr. P. Latchoumy, AP (Sel. Gr.) and Ms.Nabeena Ameen AP(Sr.Gr) attended two day workshop on “Engineering Design”, organized by School of Mechanical Sciences BSA Crescent Institute of Science & Technology during 12th & 13th July 2017.
- Ms.R.Mythily, AP participated in one day workshop on “Machine Learning using MATLAB” held in conjunction with the “International conclave on Managing Disruptive Trends & Technologies” on 29.08.2017 at VIT University, Chennai.
- Ms. L.Shakkeera, AP(Sr.Gr.), Ms.R.Mythily AP and Ms.A.Sonya, AP attended one day workshop on “Applied Machine Learning” organized by School of Computer Information and Mathematical Sciences, BSACIST on August 10<sup>th</sup> 2017.
- Ms.C.Vijayalakshmi AP (Sr.Gr.) and Ms A.Sonya, AP, attended two days hands on workshop on “Social Entrepreneurship” during August 1st and 2nd 2017.
- Dr. Latha Tamilselvan, Professor, Dr.G.Kavitha, Asso.Prof.,Ms.P.Usha, Asso.Prof., Dr. P. Latchoumy, AP(sel.Gr.), Ms.C.Vijayalakshmi AP(Sr.Gr.), and Ms.R.Priyadarshini, AP(Sr.Gr.) attended workshop on “Data Analytics using R tool” organized by Department of IT, BSACIST on September 2017.

- All the staff members of IT department attended workshop sessions in two day International Symposium on “Artificial Intelligence the Future Disruptive Technology” on 6<sup>th</sup> and 7<sup>th</sup> November 2017.
- Ms. L.Shakkeera, AP(Sr.Gr.) and Dr. P. Latchoumy, AP(Sel.Gr.) attended two days hands on Workshop on “Outcome Based Education (OBE) Software” by M/S IonCUDOS during 7<sup>th</sup>& 8<sup>th</sup> December, 2017 organized by BSA Crescent Institute of Science & Technology, Chennai.
- All the staff members of IT department attended Guest Lecture on “Stress Management” organized by Faculty Training Academy, B.S.Abdur Rahman Crescent Institute of Science & Technology on 2nd January, 2018.
- Ms.L.Shakkeera and M.s.Nabeena Ameen AP(Sr.Gr.), attended a lecture on “Tips for research presentation and writing manuscript” delivered by Prof. Jaipaul Singh, University of Central Lancashire, UK on 21st February 2018 at B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai.
- Ms.C.Vijayalakshmi AP(Sr.Gr.), Ms.Nabeena Ameen AP(Sr.Gr), Ms.R.Mythily AP and Ms A.Sonya AP attended one day technical workshop on “Scholarly Article Writing and Journal Publications” on March 12<sup>th</sup> 2018.
- Ms. P.Usha, Assoc.Prof, Ms.C.Vijayalakshmi AP(Sr.Gr.) and Ms.R.Mythily, AP attended one day workshop on “How to Write Research Paper” on April 12th 2018.

### **Seminars Attended**

- Ms.P.Usha Assoc.Prof, Dr. N. Prakash, Assoc. Prof., Mr N.Rajendran, AP(Sr. Gr.), Ms. L.Shakkeera, AP(Sr.Gr.), Mr. E.K. Subramanian, AP(Sr.Gr.), Ms C.Vijayalakshmi, AP(Sr. Gr.) and Ms. Nabeena Ameen, AP(Sr.Gr.) attended a seminar on “Importance of Data Structures in IT Industries” organized by Department of Information Technology, BSACU, Chennai on 12<sup>th</sup> September, 2017.
- Ms. L.Shakkeera, AP(Sr.Gr.), attended seminar on “IBM Watson IoT Platform Ecosystem” organized by Department of Computer Applications, BSACU, Chennai on 27<sup>th</sup> September, 2017.
- Dr.N.Prakash, Assoc.Prof, Ms. L.Shakkeera, AP(Sr.Gr.), Ms C.Vijayalakshmi, AP(SG) and Ms.Sonya AP attended a seminar on “Machine Learning Algorithm Based on IoT” organized by Department of Information

Technology, BSACU by Mr.A,Athif Shah, Chairman and Managing Director on 11<sup>th</sup> October, 2017.

- Dr. Latha Tamilselvan, Professor, Ms.P.Usha, Asso.Prof., Dr.G.Kavitha, Asso.Prof., Dr. P. Latchoumy, AP(sel.Gr.), Ms. L.Shakkeera, AP(Sr.Gr.), Ms.C.Vijayalakshmi AP(Sr.Gr.), Ms.R.Priyadarshini, AP(Sr.Gr) and Ms.Nabeena Ameen, AP(Sr.Gr), attended seminar on “Role of Sensors in IoT” organized by Department of Information Technology, BSACU by Mr.Abdul Wahid on 20<sup>th</sup> October, 2017.
- Faculty members of the department attended International Symposium and series of Guest Lectures and Seminars in Artificial Intelligence - A Future Disruptive Technology organized by SCIMS, B.S.Abdur Rahman Crescent University by Emeritus Professor and Scientist Dr. Scott E. Fahlman, Carnegie Mellon University, USA during November 2017.
- Dr.Latha Tamilselvan and Dr.G.Kavitha attended a seminar on “AI and Advanced Analytics” organized by 5F World & SYSTECH at Hotel Crowne Plaza, Alwarpet on 17.1.2018.

#### **Papers Published/ Presented In Journals & Conferences**

<b>National Conference</b>	<b>International Conference</b>	<b>National Journal</b>	<b>International Journal</b>
-	06	--	17

#### **Details of Publication in National & International Journals & Conferences:**

##### **International Journals**

- Latha Tamilselvan and Kavitha.S, “Resource Allocation and Rate Adaptation for Multicast of Real-time Traffic in MANET”, International Journal of Mobile Network Design and Innovation, Inderscience Vol 8, No 1, pp. 17-26,2018
- Shakkeera.L and Maheshraja.M published a paper titled on “Intrusion Detection for 802.11 Based Networks using Feature Selection and Artificial Neural Network Classification” International Journal of Pure and Applied Mathematics, Vol118, No. 10, pp. 143-154, 2018

- Shahbaz Afzal and Kavitha.G, “Impact on Qos in Cloud Computing Employing a Parallel Queuing Model with Strictly Increasing Arrival Rate - An Analytical Approach”, International Journal of Innovation In Engineering Research & Management, Vol 5, No.2, pp:1-5, March 2018
- Rajendran N, Mohamed Javeed M and Priyadarshini R, “Enhanced VirusTotal API Based Technique for Malware Detection in Android Mobiles”, International Journal of Pure and Applied Mathematics, Vol 117, No.16, pp:341-349, 2017
- R.Priyadarshini, Latha Tamilselvan and N.Rajendran, “Secured and Semantic Similar Source Documents Retrieval Using Query Parser in HADOOP Environment”, International Journal of Pure and Applied Mathematics Vol 117, No.21, pp:161-170, 2017.
- Sonya.A and Kavitha.G, “Efficient Approaches for Storing, Retrieval and Replication of Data Using Cloud System”, International Journal of Pure and Applied Mathematics, Vol 117, No.20, pp:1021-1025, 2017
- E.K.Subramanian, Ifan Ahamed and Nameesha Naaz , “IoT and Mobile cloud Based Energy Saving System for Appliance Control and Monitoring through smart Phones”, Vol 6, No.7, pp:409-415, 2017.
- Kavitha.G, Latchoumy.P and Afreen Banu.H., “A Secure Anti Collusion File Sharing System for Untrusted Cloud Storage”, International Journal of Scientific Research in Science and Technology, Vol 6, No.7, pp: 409-415, 2017.
- Sharmasth Vali Yerur , Prakash N, and T.R. Rangaswamy , “Proactive Hybrid Intrusion Prevention System for Mobile Adhoc Networks”, International Journal of Intelligent Engineering and Systems, Vol.3, No.6, pp:418-422, 2017
- G.Siva Krishna and N.Prakash, “Enhanced Noise Removal Technique Based on Window Size for SAR Data”, International Journal of Pure and Applied Mathematics, Vol.114, No.7, pp: 227-235, 2017.
- R.Mythily and W.Aisha Banu, “Feature selection for Optimization Algorithms: Literature Survey”, Journal of Engineering and Applied Sciences, Vol.12, No.22, pp: 5735-5739, 2017.
- L. Shakkeera and Latha Tamilselvan, “Satisfying SLA Objectives of Seamless Execution of Mobile Applications in Cloud with Net Profit”, Journal of

Theoretical and Applied Information Technology, Vol.95, No.11, pp: 2577-2588, 2017.

- Uma Nandhini D, LathaTamilselvan, Silviya Nancy J and UdhayaKumar S , “A Secure Client Aware Certification for Mobile Cloud Offloading Decision”, International Journal of Intelligent Engineering and Systems, Vol.10, No.2, pp:105-115, 2017
- R.Mythily and W.Aisha Banu, “ A Novel Pre-Learning Algorithm Based Detection and Elimination of Data Error and Data Redundancy to improve Data Quality”, International Journal of Pharmacy and Technology, Vol.9, No.2, pp: 3147-3165, 2017.
- L. Shakkeera and Latha Tamilselvan , “Towards Maximum Resource Utilization and Optimal Task Execution for Gaming IoT Workflow in Mobile Cloud”, International Journal of Intelligent Engineering & Systems, Vol.10, No.1, pp: 134-143, 2017,
- S.Udhaya Kumar and Latha Tamilselvan, “ Trusted Computing Model with Attestation to Assure Security for Software Services in a Cloud Environment”, International Journal of Intelligent Engineering & Systems, Vol.10, No.11, pp: 144-153, 2017

### **International Conferences**

- Shakkeera.L and Saranya.A “Efficient Collaborative Key Management Protocol for Secure Mobile Cloud Data Storage” in the proceedings of International Conference on Intelligent Computing and Applications (ICICA 2018)
- Shakkeera L, Muzammil Banu M and Matheen Fathima G "IoT Based SOS and Border Alert System for Piscator's Hazard" in the proceedings of International Conference on Recent Trends in Engineering and Technology (ICRTET-2018) Chennai during May, 2018.
- Shakkeera L and Saranya A "Secure Key Management Protocol for Mobile Cloud Data Storage" in the proceedings of International Conference on Recent Trends in Engineering and Technology (ICRTET-2018) Chennai during May, 2018.
- R.Bhuvaneshwari, Latha Tamilselvan and R.Priyadarshini, "Semantic Retrieval of Relevant Documents using Topic Modeling", in the proceedings of Third International conference on recent trends in engineering and



technology, conducted by the department of information technology, Chennai, May 2018.

- L.Shakkeera and M.Mahesraja, "Intrusion Detection for 802.11 (WLAN) Based Networks using Feature Selection and Artificial Neural Network Classification", in the proceedings of 2nd International Conference on Recent Trends in Engineering & Technology (ICRTET 2017),pp: 36-42, May 2017.
- N.Rajendran and Javeed Ahmed, "Enhanced Malware Detection for Android Mobiles", in the proceedings of 2nd International Conference on Recent Trends in Engineering & Technology ICRTET 2017, pp: 43- 48, May 2017.

#### Details of Impact Factor of the Publication H-Index

Range	Average	H-Index	No. In Scopus
0.1-0.25	0.172	16	11

#### Sponsored Research (Ongoing / Applied)

S. No	Principal And Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1.	<b>PI:</b> Dr. N. Prakash, Associate Professor  <b>CO-PI:</b> Mr. N. Rajendran, Assistant Professor (Senior Grade)	Technology Systems Development Programme (TSDP)	Cost Effective Organic Farm Based Vegetable Supply Demand Management System for Metro Cities	36 Lakhs	Applied and awaiting for result

#### Faculty Internships:

- Ms.C.Vijayalakshmi AP(Sr.Gr.) has completed the Internship in the research and Development Division in the area of "Machine Learning for the

Intelligent Data Analytics" during 23.06.2017 to 30.06.2017 at ABE Semiconductor Designs, Chennai.

- Ms A.Sonya, AP has undergone Internship on “R-Programming using Python” during 10.06.2017 to 18.06.2017 at ABE Semiconductor Designs, Chennai.
- Mr.N.Rajendran AP(Sr.Gr.), undergone Internship on “Mobile Application Development” in Sirpi Software during 8-06-2017 to 30 -06-2017.
- Ms.R.Priyadarshini AP(Sr.Gr.) undergone Internship on “Web Application development” in Gain Valuable Solution Pvt. Ltd. during 12-06-2017 to 24-06-2017.
- Ms. L.Shakeera, AP(Sr.Gr.) undergone internship training programme in Cloud Computing Technologies in Green Tree Technologies Pvt Ltd, Chennai during 12<sup>th</sup> December, 2017 to 21<sup>st</sup> December, 2017.
- Ms.L.Shakkeera,AP(Sr.Gr) undergone ten days internship training programme on “Data Analytics in Mobile Cloud Computing” at Firstsoft Technologies Pvt Ltd, Chennai during 23<sup>rd</sup> May, 2018 to 1<sup>st</sup> June, 2018.

#### **Achievements of Staff:**

- Ms.R.Mythily, Assistant Prof./IT, Topper among first 5% students in the course “Fundamentals of Database systems” in NPTEL online certification course.
- Ms.C.Vijayalakshmi AP(Sr.Gr.) completed 8 weeks NPTEL Online Certification Course on “Introduction to Operating Systems” conducted by MHRD & IIT Madras during July - December 2017 by IIT Madras and Ministry of HRD, Govt. of India.
- Ms. L.Shakeera, AP(Sr.Gr.) awarded certificate of appreciation for acted as a mentor for 8 weeks NPTEL Online Certification course on “Cloud Computing”.
- Dr. Latha Tamilselvan, Professor, Dr.G.Kavitha, Asso.Prof., Ms P.Latchoumy, AP(Sel.Gr), Ms. L.Shakkeera, AP(Sr.Gr.), Ms.C.Vijayalakshmi AP(Sr.Gr.) and Ms. R.Mythily AP, has completed NPTEL certification course and secured ELITE certificate during July - December 2017.
- Ms. L.Shakeera, AP(Sr.Gr.) completed and secured Elite certificate on 12 weeks NPTEL Online Certification course on “Introduction to Internet of

Things” during July to October 2017 coordinated by IIT Kharagpur and Ministry of HRD, Govt. of India.

- Ms. L.Shakeera, AP(Sr.Gr.) completed and secured Elite certificate on 8 weeks NPTEL Online Certification course on “Cloud Computing” during August to October 2017 coordinated by IIT Kharagpur and Ministry of HRD, Govt. of India.
- Ms. L.Shakeera, AP(Sr.Gr.) and Ms. R. Priyadarshini, AP(Sr.Gr.) acted as an Oracle Academy Instructor to handle classes on Six Weeks “Oracle iLearning Certification Programme” in “Java Fundamentals and Java Programming” organized by School of Computer, Information and Mathematical Sciences, B. S. Abdur Rahman Crescent Institute of Science & Technology in collaboration with Oracle Academy and ICT Academy of Tamilnadu during 28<sup>th</sup> August 2017 to 6<sup>th</sup> October 2017
- Ms. L.Shakeera, AP(Sr.Gr.) completed and secured Elite certificate on 4 weeks NPTEL Online Certification course on “Outcome Based Pedagogic Principles for Effective Teaching” during July to August 2017 coordinated by IIT Kharagpur and Ministry of HRD, Govt. of India.
- Ms. L.Shakeera, AP(Sr.Gr.) completed Massive Open Online Course (MOOC) on “GST in 90 Minutes” on Awareness Course on Goods and Service Tax conducted by ICT Academy on 6<sup>th</sup> July, 2017.
- Dr. Latha Tamilselvan, Professor, Dr. G. Kavitha, Assoc. Prof., Dr. P. Latchoumy, AP(Sel.Gr.) completed 8 weeks online course “Introduction to Modern Application Development” from NPTEL during July to September 2017 and received Elite Certificate.
- Ms. P. Latchoumy completed Ph.D Viva Voce Examination on 11.01.2018.
- Ms.R.Priyadarshini, AP(Sr.Gr.) completed 8 weeks NPTEL Online course and obtained certification in “Cloud Computing Technologies”, conducted by IIT Kharagpur and MHRD Govt. of India during Feb 2018 - April 2018.
- Dr. P. Latchoumy, AP(Sel. Gr.) , Ms. P. Usha, Assoc. Prof and Mr. N. Rajendran, AP(Sr.Gr.) attended Internal Quality Auditor Training Program based on ISO 9001:2015 conducted by TUV/SUD and passed the examination for Certified ISO Auditor.
- Ms. L.Shakeera, AP(Sr.Gr.) completed secured Elite certificate on 12 weeks NPTEL Online Certification course on “Cryptography and Network Security”

during January to April 2018 coordinated by IIT Kharagpur and Ministry of HRD, Govt. of India.

### **Salient Achievements of Students**

- Ms.R.Bhuvaneweri of Second year M.Tech-IT completed and secured Elite certificate on 12 weeks NPTEL Online Certification course on “Introduction to Internet of Things” during July to October 2017 coordinated by IIT Kharagpur and Ministry of HRD, Govt. of India.
- Ms.Sai Prathiksha and Mr.Sam Sundar Chinnu G of IV Year B.Tech IT has successfully completed one month Internship programme in the domain “Web Apps Development“ at Sirpi Software Pvt.Ltd during 08.06.2017 to 7.7.2017.
- Mr.Mohammed Aamir of IV Year B.Tech IT has participated in six days Training programme on “Mobile App Development” from March-April 2017.
- Mr.Saveen B of IV Year B.Tech IT has completed Internship during 07/07/17 to 15/07/17 on software development in DOTNET platform in Vee Eee Technologies Solution Pvt.Ltd.
- Mr.Saveen B of IV Year B.Tech IT has successfully completed two month Internship programme from 26/5/17 to 25/7/17 at production and Financial Branch in KP Plastics.
- Ms.Nandhitha and Mr.Muthu Kumar of IV Year B.Tech IT underwent Revature Internship training from September 2016 to September 2017, created projects and got revature certified portfolio.
- Ms.Nandhitha, IV Year B.Tech IT got Oracle certification: Oracle Certified Associate, Java SE 8 Programmer issued on 20<sup>th</sup> August 2017.
- Ms.Nandhitha and Ms.Sai Prathiksha of IV Year B.Tech IT presented a paper titled “Design of Disaster Management system using IOT” in the conference on Recent trends in Information Technology - 2017.
- Muzamil Banu, Matheen Fathima, Muthukumar and Mohammed Jaleel, B.Tech (IT) – IV Year students completed 8 weeks NPTEL Online Certification course on “Cloud Computing” during August to October 2017 coordinated by IIT Kharagpur and Ministry of HRD, Govt. of India.
- Muzamil Banu and Matheen Fathima. G undergone training and internship programme at UX Business Solutions, Chennai during December 2017.

### **Developmental Activities**

- Ms.L.Shakkeera, AP (Sr.Gr) organized Industrial Lab Visit for Internet of Things (IoT) to UX Business Solutions, Egmore, Chennai for M.Tech(IT) and MCA Students on 10th October, 2017.
- Ms P.Usha Asso.Prof and Ms. R.Mythily AP has completed QEEE online course on “Introduction to DBMS” during July - December 2017.
- Mr. N. Rajendran, AP(Sr.Gr.) coordinated the certification programmes on Android Application Development (Sep-Dec 2017) and iOS Application Development (Mar-Jun 2018) in Apple iOS Application Development Centre and generated a fund of Rs. 2,10,000/- through course fee.
- Mr. N. Rajendran, AP (Sr.Gr.) actively involved in MOU signed with GIEEE and RedHat.

### **Industry / Institute Collaboration**

- Ms. R. Priyadarshini, AP (Sr.Gr) and Mr. N. Rajendran, AP (Sr.Gr) have taken up a Testing Consultancy work in M/s Gain Valuable Solution, Chennai during April 2018.
- Final year and Third Year B.tech IT students have visited to Lenovo India Private Limited on 15th March 2018.
- An Industrial Visit to Sansbound Networking Solutions has been arranged on 1st March 2018 for Second Year B.Tech IT Students.
- Students of IT and few faculty members have visited UX Business Solutions, Egmore, Chennai and gained knowledge about Internet of Things (IoT) on 10th October, 2017.
- Ms.L.Shakkeera, AP(Sr.Gr) organized Interactive Session for Pre-School Educators on “Reggio Emilia Approach on Imparting Education” with Mrs.Penelope C Fahlman (Penny), Former Teacher of Pittsburgh, US based Pre-School on 6<sup>th</sup> November, 2017 organized by SCIMS, BSACIST
- Two students each from II yr IT and III Yr. IT have undergone internship in Gainvaluable solutions in Modern Web Application Development from June 12th 2017 to July 6th 2017.

## **Society Activities**

- Society Activities of IT department was inaugurated on 4<sup>th</sup> October 2017. Mr.Hemachandran Loganathan, Founder CEO, Brand Avatar and Celebrity Badminton League is the Chief Guest and delivered a keynote address on the topic “How to become an Entrepreneur”.
- The department has organized a National Level Technical Symposium - ICON 2018 on 11th April, 2018.
- Organized a Seminar on “Business Intelligence” in National Level Technical Symposium ICON 2018. Mr. D.Mohamed Azeem Associate Director, Analytics and Information Management Cognizant Technologyis the Chief Guest and delivered a keynote address on the above topic on 11th April, 2018.

## **Important Visitors**

- Scientist Dr. Scott E. Fahlman, Emeritus Professor, Carnegie Mellon University, USA delivered a series of guest lectures and seminars in “Artificial Intelligence - A Future Disruptive Technology” in the international symposium, organized by SCIMS, B.S.Abdur Rahman Crescent University during November 2017.
- Mr.A.Alagaraja, Product Lead, Service Desk Plus, Zoho Corporation, Estancia IT part, Chennai delivered a guest lecture on “Software Management and People Management in Corporate” on 24th October 2017.
- Mr.Abdul Waheed, Research Scholar, Computer Science, Chennai delivered a guest lecture on “Role of Sensors in IOT” on 20th October 2017.
- Mr.Ragavendar, Quality Assurance & Automation Engineer, FEDBY Information Services, Pvt.Ltd, Chennai delivered a guest lecture on “Software Quality Assurance in Industry Standards” on 14th October 2017.
- Mr.A.Athif shah, M.E(Ph.D), Chairman & Managing Director, ABE Semiconductor, Chennai delivered a guest lecture on “Machine Learning Algorithm Based on IOT” on 11th October 2017.

- Ms.Arunmozhi Madhavan, M.E, Senior Consultant, Mumbai delivered a guest lecture on “Are you Ready to Face the Outside World” on 9th October 2017.
- Mr.K.Subramanian, Director, Sirpi Software Pvt Ltd, Chennai delivered a guest lecture on “Importance of Data Structure in IT Industries” on 12th September 2017.
- Mr.Usman, Trainer AMOS Technologies, Chennai delivered a guest lecture on “Virtualization VMware vSphere” on 4th August-2017.
- Ms.S.Niranjana, Quality Assurance Analyst, Tata Consultancy Services, Thorapakkam, Chennai delivered a guest lecture on “Data Lake-An Agile Expedition” on 2nd August 2017.
- Mr.T.Arun Prakash, Technology Analyst, Quality Engineering & Assurance, CTS, Chennai delivered a guest lecture on “Opportunities in Software Testing” on 11th February 2017.

**Other Information:**

- Final Year students of B.Tech. visited “Raj Nivas - Pudhucherry” and attended Motivational Talk on "Leadership Skills" with Lieutenant Governor Dr.Kiran Bedi, Union Territory of Puducherry held on 21st October 2017.



## DEPARTMENT OF COMPUTER APPLICATIONS

### New Programmes Started

BCA degree with specialisation on data science was introduced in the academic year 2017-2018

### 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.	Innovation in Data Science with Voice recognition Alexa, Cortana	<b>Mr. Athiq Ahamed</b> Data Scientist, Volkswagen	16.9.2017
2.	Internet of Things	<b>Mr.H.John Raja</b> IT Analyst. <b>Mr.Sabrish Surendar,</b> Director Advanced Analytics Virtusa	27.9.2017
3.	QEEE Pilot programme	Professors from IIT Bombay	Aug – Nov2017
4.	A Demo on IoT using Raspberry Pi and Arduino Interface	<b>Dr.P.Anandha Kumar</b> Professor & Head, Department of Computer Technology, Anna University	5.10.2017
5.	Guest Lecture on Artificial Intelligence	<b>Prof. Scott E. Fahlman</b> Carnegie Mellon University, USA	30.10.2017
6.	Guest Lecture on Knowledge Based Symbolic AI		31.10.2017
7.	Guest lecture on neural language		2.11.2017
8.	Guest Lecture on Quick Overview of Artificial Neural Nets and Deep Learning		3.11.2017
9.	International Symposium on Artificial Intelligence	<b>Prof. Scott E. Fahlman</b> Carnegie Mellon University, USA, <b>Mr.Dileep Paruchuri,</b> Program Manager, Intel, Bangalore , <b>Mr. Athif Shah</b> Chairman and Managing Director ABE Semiconductors PLtd <b>Mr.Ananth Mani,</b> Founder Report Bee, <b>Mr.S. Manikandan,</b>	6.11.2017 &7.11.2017

		Executive Coach, Mentor-at-large and Startup adviser <b>Mr.Mohammed Ibrahim</b> , Director, Mecsons Consulting <b>Mr.Parvez Kokan</b> , USA, <b>Mr. Vijay Karunakaran</b> , Founder, CEO, InGage Technologies	
10.	Induction Programme	<b>Mr.SitaRam</b> , Senior Principal Consultant ,GENPACT Bangalore. <b>Mr.KarthikSathuragiri</b> , Global Marketing Leader, FreshWorks Inc <b>Ms. AnupamaHegde</b> , Head Mobile Applications iNurture	17/08/2017
11.	Guest Lecture On Cloud	<b>Mr. Baskaran .J</b> Cloud-Group Practice Head for cloud.	08/09/2017
12.	Software Testing	<b>Mr.K. Mukundan</b> , Computer Sciences Corporation India Private Limited, Chennai -45	12.12.2017
13.	Grand Challenges in IT Research	<b>Dr. Khurram Mustafa</b> , Professor, Jamia Millia University, New Delhi .	26.07.17.
14.	research opportunities for faculty and student	<b>Prof.Ian Wakeman</b> , HOD of Informatics, University of Sussex	13.11. 2017
15.	R&D for industries in IoT, Manufacturing and Action Plan for establishing Centre of Excellence.	<b>Mr.Jahangir Mohammed</b> , CEO- CISCO Jasper	16.11.2017
16.	One day workshop on Motivational speech.	<b>Mr.Jerince Peter</b> , Behavioural Skill Trainer and Coach.	16.03.18
17.	One day workshop on Cloud Computing	<b>Mr.PrasannaVentakataraman</b> Senior Consultant , Thoughtworks.	26.04.18
18.	One day work shop on Data Centre	<b>Mr.Sharma</b> Artificial Intelligence Engineer Agentz AI	26.04.18
19.	One day workshop on Ethical Hacking	<b>Mr.Sathya</b>	15.03.18
20.	Inter college technical event	<b>Dr.P.Sheik Abdul Khader</b> Dean , SCIMS Director Data Centre <b>Dr.A.Jaya</b> HOD/Dept of Computer Applications <b>Mr.Rajesh Kumar</b> Senior Mentor iNurture Education Solution	26.3.2018

21.	Seminar on Introduction to Data Science	<b>Mr.Sharma</b> Artificial Intelligence Engineer Agentz AI	26.4.2018
22.	2 days workshop on How to create your own animations		3rd and 4th May 2018
23.	Technical Symposium Cybercrest 2018	<b>Dr.Pethuru Raj, Chief Architect</b> and Vice President, Reliance Jio Infocom	10.4.2018

### **Conferences / FDP / Seminars / Workshops Attended**

- Dr.A.Jaya, S.Shahar Banu, G.Shree Devi, P.Padmavathy and S.Prathiba attended a one day workshop on Capacity Building of Women in Higher Education organized by Women Empowerment Cell , BSACIST , April 2017.
- M.Syed Masood, G.Shree Devi, A.Salman Ayaz,P.Padmavathy and S. Prathiba attended one week workshop on “Strategies for Innovative and Quality Research “ from 31.07.2017 to 05.08.2017 organized by Office of the Dean (Ac. Research) of our Institute.
- Mr.I. Sathik Ali attended Training programme on Academic Leadership organized by Aligarh Muslim University and MHRD at New College (17<sup>th</sup> Jan. 2018 – 23<sup>rd</sup> Jan. 2018), Chennai.
- Dr.M. Syed Masood attended the Six days MHRD Sponsored Training programme on “Academic Leadership “ from January 17 – 23, 2018 conducted by Centre for Academic Leadership and Education Management (CALEM) ,Aligarh Muslim University, Aligarh at The New College , Chennai – 14.
- Mr.A.Salman Ayaz attended the Faculty Development Program on the topic “Digitalization and its Transformation” conducted by Cognizant Technology Solutions India Pvt. on 23rd September 2017.

- Dr.A.Jaya,Dr.S.Shahar Banu, G.Shree Devi , P.Padmavathy and S. Prathiba attended one day workshop on “Focus Mind “ organized by Womens Grievances Cell of our Institute on 16.2.2018.
- Dr.M. Syed Masood attended Two days FDP on R Programming, during 1 & 2 March 2018 organized by ICT Academy in association with School of Computer, Information & Mathematical Sciences,BSACIST
- Dr.A.Jaya, Dr.S.Shahar Banu, G.Shree Devi, P.Padmavathy, A.Salman Ayaz and S.Prathiba attended one day workshop on Fuel Conservation organized by Petroleum Conservation Research Association on 8<sup>th</sup> March 2018 at B.S.Abdur Rahman Crescent Institute of Technology.

**Papers Published/ Presented In Journals & Conferences:**

**(Total Numbers Only)**

<b>National Conference</b>	<b>International Conference</b>	<b>National Journal</b>	<b>International Journal</b>	<b>Total</b>
-	2	-	9	<b>11</b>

**Details of Publication in National & International Journals & Conferences: (IEEE Format)**

**International Journal:**

- Uma Maheswari and Padmavathy , “Hotel rating recommendation system with user trust and item rating”, IJIERE, Vol 4, No 5, May 2017
- Zameer Gulzar and A. Anny Leema, “Ontology based Classification of Computer Science Domain to Support Personalization”, Journal of Advanced Research in Dynamical and Control Systems, June. 2017
- Haseena Begum and S.Shahar Banu , “Traffic Violator Monitoring System” “,International Journal Scientific Research in Computer Science ,Engineering and Information Technology ,Vol 2,No 3 ,pp 726-729, June 2017
- Gayathri and Shahar Banu” Mobile Caller Location Tracking “,International Journal Scientific Research in Computer Science, Engineering and Information Technology, Vol 2,No 3,pp 588-591, June 2017

- Zameer Gulzar and A.Anny Leema,“Course Recommendation based on Query Classification Approach”,International Journal of Web based Learning and Teaching Technologies, , IGI Publications, USA Vol. 13 No 3. Dec. 2017.
- Shree Devi .G and Munir Ahamed Rabbani Mohammed “A Hybrid Face Image Contrast Enhancement Technique for Improved Face Recognition Accuracy “ International Journal of Intelligent Engineering and Systems, Vol.10, No.6, December 2017
- Zameer Gulzar and A. Anny Leema,“A Framework for Recommender System to Provide Personalization in an E-learning System”,International Journal of Web based Learning and Teaching Technologies, IGI Publications, USA Vol. 13 No 3 .Dec, 2017
- Mr. Izhar Ashraf, “The handedness of language: Directional symmetry breaking of sign usage in words” in **PLoS ONE** (open access journal) , January 2018.
- N.Ayyanathan, , “Ancient trade routes of Tamil Kingdom and the Global Black Pepper Supply Chain Network with its Impact on Roman Trade and Economy- A Survey”, Shanlax International Journal of Economics, Vol 6, No 2 , pp 177-182 , March 2018

#### **International Conference:**

- Shaikh Abdul Waheed and Dr. P Sheik Abdul Khader ,” A Novel Approach for Smart and Cost Effective IoT Based Elderly Fall Detection System using Pi Camera” in the proceedings of International Conference on Computational Intelligence and Computing Research , Coimbatore Dec 2017.
- Zameer Gulzar and A. Anny Leema, Gerard Deepak, “PCRS: Personalized Course Recommender System Based on Hybrid Approach” in the proceedings of ELSEVIER, 6th International Conference on Smart Computing and Communications, ICSCC 2017, NIT Kurukshetra, December 2017,

#### **Details of Impact Factor Of The Publication H-Index**

A) Range 0.25 - 5.0 B) Average 1.8 C) H-Index – 4.75 D) No. In Scopus - 5

#### **Chapter Publication**

- Dr.Anny Leema and Zameer Gulzar ,“ Technology-Centric Strategies for Higher Education Administration”, IGI, Global Publications, USA. Chapter No. 23

“Status and Quality of E-Learning in Context of Indian Universities: Threats, Challenges, and Opportunities”, (pp. 405-430) (June , 2017)

- Dr.Anny Leema , Zameer Gulzar ,” Advanced Engineering Research and Applications (AERA)”, “Educational Data Mining Approaches for Enhancing E-learning Systems“, Chapter: 17, Publisher: Research India Publications, pp.235-257 (April, 2017),Editor: Hongseok Choi. ISBN: 9789386138583

### **Achievements of Staff**

- Dr.P.Sheik Abdul Khader organized QEEE classes in virtual class room environment for our university students.
- Dr.P.Sheik Abdul Khader acted as a Nodal officer for National Mission Education through ICT Academy .
- The following tasks are carried out by Dr.P.Sheik Abdul Khader for the improvement of network performance in BSACIST
  - Internet connectivity Maintenance
  - Provided the gateway solutions to the university Network by procuring firewalls, V-LAN segmentation for wired and wifi with increased access points
  - Revamped the entire BSAU networks (Flat structure to V-LAN segmentation)
  - Implemented Reliance-JIO through MoU
  - Single point of contact: In-charge for entire Institute CMC (Computer Maintenance Cell) activities
- Mrs.S.Shahar Banu,Assistant Professor(Sel.Gr) successfully completed her Ph.D. Viva-Voce Examination on 07.07.2017 .
- Mr. Pakir Moitheen, Associate Professor, successfully completed his Ph.D. Viva-Voce Examination on 23<sup>rd</sup> October 2017.
- Mr.M.Syed Masood Assistant Professor(Sel.Gr) successfully completed his Ph.D. Viva-Voce Examination on 12-01-2018 .
- Mr. M.Syed Masood has taken the charge as an Assistant Director (Admissions) on 23.10.2017.

## Achievements of Students

- Ms.Poonguzhali.E, Final year MCA , successfully completed the NPTEL Online Certification course on Programming ,Data Structures and Algorithms using Python during July –Sep 2017 .
- P. Salu, final year MCA won Runners-Up in All India Interuniversity 2016-17
- P. Salu, Final year MCA represented Indian University Senior and won National 5<sup>TH</sup> place.
- P.Salu, final year MCA, winners in Founders trophy **STATE LEVEL TOURNAMENT 2016-17**
- Mr.Arsath Ali, Final year MCA participated in the Founder trophy ball badminton in BSA Crescent University and won second prize held in March 2017.
- Mr. Izhar Ashraf, Research Scholor of Computer Application department, published a paper titled “The handedness of language: Directional symmetry breaking of sign usage in words” in PLoS ONE (open access journal) January 2018.
- A.M Salman Khan and H.Salim Malik of II BSc (CS) presented a paper on “Evolution of Artificial Intelligence “ in Cybercresrt 2018 conducted by CA dept on 10.4.2018.

## Developmental Activities

The website and Internet services of the Institution are maintained by the [Department of Computer Applications](#). Along with that the department offers additional virtual lab classes, live classes, tutorial MOOC's and vocational augmentation Courses through IIT Professors under MHRD's QEEE programmes are offered.

### QEEE Live Classes

- University Data Centre has successfully launched Virtual classes of the **MHRD's QEEE pilot programme** on the following topics. Staff and Students from EEE, IT and EIE Departments have attended the live classes.



S.no	Topic
1.	Baseband Communication - Digital Communication Techniques
2.	Water Treatment - Water Supply Engineering
3.	Introduction to DBMS - Database Management Systems
4.	Beams - Design of Steel Structures
5.	Electromagnetic Waves - Electromagnetic theory



### **Society Activities**

The Inauguration for the activities of the Computer Applications Association for the academic year 2017-2018 was held on 27.9.2017. Keynote address was given by Mr.H.John Raja, IT Analyst. He delivered a lecture on Internet of Things .Mr.Sabrish Surendar, Director Advanced Analytics, Virtusa addressed the gathering and delivered a motivational talk on Placement Opportunities for MCA students.

The Department of Computer Applications organized Cybercrest 2018, A National Level Technical symposium on 10<sup>th</sup> April 2018. In this occasion, Dr.Pethuru Raj, Chief Architect and Vice President, Reliance Jio Infocom Ltd delivered a key note address on Cloud Technologies. Various events like Debugging, Poster Presentation, Paper Presentation and Quiz were conducted by the students of Computer Applications Department. The students from various colleges participated in the events and won prizes.

## Inter College Technical Event - IGNITE2K18

The Department of Computer Applications organized Inter College Technical Event IGNITE2K18 on 26.3.2018.



Inter college Technical Event – IGNITE 2K18



Workshop on Ethical Hacking



Workshop on Data science

## Important Visitors

S.No	Chief guest/Resource Person	Topics covered	Date
1.	<b>Mr. Athiq Ahamed</b> Data Scientist, Volkswagen	Innovation in Data Science with Voice recognition	16.9.2017
2.	<b>Prof. Scott E. Fahlman</b> Carnegie Mellon University, USA	Artificial Intelligence	30.10.2017, 6.11.2017 &7.11.2017
3.	<b>Mr.Dileep Paruchuri</b> , Program Manager, Intel, Bangalore , <b>Mr. Athif Shah</b> Chairman and Managing Director ABE Semiconductors PLtd. <b>Mr.Ananth Mani</b> , Founder Report Bee, <b>Mr.S. Manikandan</b> , Executive Coach, Mentor-at-large and Startup adviser <b>Mr.Mohammed Ibrahim</b> , Director, Mecsons Consulting <b>Mr.Parvez Kokan</b> , USA, <b>Mr. Vijay Karunakaran</b> , Founder, CEO, InGage Technologies	Artificial Intelligence	6.11.2017 &7.11.2017
4.	<b>Dr. Khurram Mustafa</b> , Professor, Jamia Millia University, New Delhi .	Grand Challenges in IT Research	26.07.17.
5.	<b>Prof.Ian Wakeman</b> , HOD of Informatics, University of Sussex	Research opportunities for faculty and student	13.11.2017
6.	<b>Mr.Jahangir Mohammed</b> , CEO-CISCO Jasper	R&D for industries in IoT, Manufacturing and Action Plan for establishing Centre of Excellence.	16.11.2017

## DEPARTMENT OF MATHEMATICS & ACTUARIAL SCIENCE

### 1. Conferences / FDP / Seminars / Workshops Attended

Conferences	FDP/Training Program	Seminar	Workshop
01	03	0	01

### 2. Papers Published/ Presented In Journals & Conferences

National Conference	International Conference	National Journal	International Journal	Total
08	09	0	11	28

### 3. Details of Publication In National & International Journals & Conferences: (IEEE Format)

International Journal:

#### LIST OF PUBLICATIONS IN INTERNATIONAL JOURNAL

1. T.Ramesh Rao,"A novel method for solving multipoint boundry value problems", Global journal of pure and applied mathematics vol no 13 No 2 pp 850-857, July 2017.
2. T.Ramesh Rao,"Numerical solution of sine-gordon equations through reduced differential transform method", Global journal of pure and applied mathematics vol no 13 No 7 pp 3879-3888, July 2017.
3. A.Bernick Raj and K. Vasudevan,"Solution of Poisson Equation Using Markov Chain", Global journal of pure and applied mathematics, vol no 13(spl) No 2 pp 154-161, July 2017.
4. Jyothi Singh and Dr.Varun Mohan, "Flow of a Dusty Non-Newtonian Viscous Fluid Through an Inclined Equilateral Triangular Channel",International Journal of Advance Research in Science and Engineering vol no 6 No 9 pp 399-405, September 2017

5. A. Bernick Raj and K. Vasudevan, "Numerical Solution of Definite Integrals Using Markov Chains", International Journal of Pure and Applied Mathematics vol 117 No 5 pp 63-74, July 2017.
6. Jyothi Singh and Varun Mohan, "Flow of a Dusty Non-Newtonian Viscous Fluid Through an Inclined Equilateral Triangular Channel", International Journal of Advance Research in Science and Engineering vol 6 No 9 pp 399-405, September 2017
7. Jyothi Singh, Varun Mohan and Tarun Mohan Sharma "Heat Transfer and Blood Flow in Arterioles: A Mathematical Study", International Journal of Engineering Research and Application, vol 7 No 10 pp 8-13, Oct-2017.
8. T. Ramesh Rao, "Numerical Solution for time Fractional Gas Dynamics Equations Through Reduced Differential Transform Coupled with Fractional Complex Transform", International Journal of Pure and Applied Mathematics, vol 117 No 20 pp 111-118, July 2017.
9. Ashiq Mohd Iliyas and S. Rajasekaran "Asset and Liability Management in Health Insurance", Journal of Advanced Studies in Finance vol 8 No 15 pp 19-29, July 2017.
10. P. Vignesh, S. Srinivasan and S. Maragatha Sundar "Analysis of non-Markovian batch arrival queueing model with multi stages of service of restricted admissibility, feedback service and three optional vacations in production and manufacturing", International Journal of Mathematics in Operational Research, vol 11 No 3 pp 285-309, July 2017.
11. T. Ramesh Rao, "Numerical Solution of Time-Fractional Newell-White Head-Segal Equation Through Residual Power Series Method Coupled With Fractional Complex Transform", Global journal of pure and applied mathematics vol 118 No 10 (spl issue) pp 205-215, Jan-2018.
12. Sandeep Singhal and P. S. Sheikuduman "Uniqueness of Solution for Impulsive Fractional Functional Differential Equation", Commun. Korean Math. Soc vol 33, No 1, pp 171-177, Jan-2018.

#### **LIST OF PUBLICATIONS IN INTERNATIONAL CONFERENCE**

1. A. Sagaya Suganya, "Cover Pebling and Optimal Cover Pebling Number of Hex Derived Networks" in the proceedings of International Conference on

Mathematical Computer Engineering (ICMCE-2017), Chennai, November 2017.

2. T.R. Ramesh Rao, "Numerical Solutions for Time Fractional Gas Dynamics Equation Through Reduced Differential Transform Coupled with Fractional Complex Transform" in the proceedings of International Conference on Mathematical Impacts in Science and Technology, BIT MIST-2017, Chennai, November 2017.
3. T.R. Ramesh Rao, "Application of Fractional Complex Transform and Reduced Differential Transform Method for Time Fractional Cubic Schrodinger Equations" in the proceedings of International Conference on Mathematical Impacts in Science and Technology, BIT MIST-2017, Chennai, November 2017.
4. T.R. Ramesh Rao and P. Taj Begum, "Laplace Homotopy Perturbation Transform Method for Solving Nonlinear Cubic Schrodinger Equations" in the proceedings of International Conference on Applied Mathematics and Theoretical Computer Science, ,February 2018
5. A.Bernick Raj, "Numerical Solution of Definite Triple Integral Using Markov Chains" in the proceedings of International Conference on Applied Mathematics and Theoretical Computer Science, February 2018
6. P.S. Sheik Uduman "Role of Fractional Calculus in Bio-Modeling" in the proceedings of International Conference on Mathematical Analysis and Application in Modelling,Jan 2018.
7. Sandeep Singhal and P.S. Sheik Uduman , "Impulsive Fractional Differential Equation of Order  $\alpha$  in  $(2,3)$ ",in the proceedings of International Conference on Mathematical Analysis and Application in Modelling,Jan 2018.
8. T.R. Ramesh Rao "Residual Power Series Method: An Effective Tool for Solving Time Fractional Gas Dynamics Equations" in the proceedings of International Conference on Current Scenario in Pure and Applied Mathematics (ICCSPAM 2018),February 2018
9. Ashiq Mohd Ilyas and S.Rajasekaran, "Evaluating the technical and scale efficiency of the non-life insurers in India: A non-parametric approach" in the proceedings of International Conference on Contemporary Engineering and Technology, Chennai, 2018.

## National Conference

1. T.R. Ramesh Rao, "Approximate Analytical Solution of Highly Non-Linear Differential Equations using Laplace Homotopy Perturbation Method" in the proceedings of National Conference on Emerging Trends in Mathematics (NCETM-2017), vol no 5, No 13 pp 760-762, Chennai, July 2017.
2. A. Bernick Raj, "Numerical Solution of Definite Integral using Markov Chains" in the proceedings of National Conference on Emerging Trends in Mathematics (NCETM-2017), July 2017.
3. T.R. Ramesh Rao, "Numerical Solutions of Time Fractional Newell-White-Segal Equation Through Residual Power Series Method Coupled with Fractional Complex Transform" in the proceedings of National Conference on Emerging Trends in Mathematical Sciences, Dec, 2017
4. T.R. Ramesh Rao, "Exact Solution of Gas Dynamics Equations Through Reduced Differential Transform and Sumudu Transform Linked with Pade's Approximants" in the proceedings of National Conference on Mathematical Techniques and Its Applications-NCMTA 18), vol 1000, pp 1-5, 2018
5. Ashiq Mohd Ilyas, Rajasekaran, "Determinants of Financial stability in Indian Non life Insurance Sector" in the proceedings of National Conference on Emerging Trends in Mathematical & Application in Engineering Technology Sciences, 2018
6. Ashiq Mohd Ilyas and Rajasekaran, "An Approach to estimate the outstanding loss Reserve of the Non -Life under Solvency li Regime", in the proceedings of National Conference on Mathematical Techniques and its Applications-NCMTA 18, Jan 2018.
7. Varun Mohan, "Mathematical Analysis of Natural Frequencies of Human Thoracic Aorta", in the proceedings of National Conference on Emerging Trends in Mathematics and Applications in Engineering and Technology (NCETMAET 2018), March, 2018
8. Varun Mohan, "Mathematical Analysis of Natural Frequencies of Human Thoracic Aorta", in the proceedings of National Conference on



Emerging Trends in Mathematics and Applications in Engineering and Technology (NCETMAET 2018), March, 2018

9. Ashiq Mohd Ilyas and Rajasekaran, " An Asset –Liability Management strategy for the Indian Non-Life Insurers in the proceedings of National Conference on Recent Trends in Mathematics & its Applications, Feb 2018

#### **Details of Impact Factor Of The Publication H-Index**

- A) Range: **0.431 to 7.19**
- B) Average: **1.1265**
- C) No. In Scopus: **05**

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

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

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### Training Programmes Offered

V.Bharanigha and Mr.M.Ram Kumar organized a hands-on Training Programme on “IoT using Raspberry PI” during October 2017. Students from EEE and ECE attended the training programme

### Interdisciplinary Programmes Conducted

Mrs.V.Bharanigha, AP/EEE, Mr.M.Ram Kumar, AP/EEE and Belwin J Brearley, AP/EEE organized two day workshop on “**Embedded Systems Using Arduino**” during 03-04 April 2017. Research scholars, faculty and students from EEE, ECE, CIVIL and Mechanical attended the workshop.

### Conferences / FDP / Seminars / Workshops Conducted

- Ms.S.Jennathu Beevi, Dr. R.Jayashree and Ms. Sarmila Har Baegum organized workshop on “Opportunities in Solar Energy Technologies” on 23<sup>rd</sup> October 2017.
- One Day Workshop was organized on “Servicing the Household Electrical Gadgets” for the +2 students on 16<sup>th</sup> April 2018.

### Conferences / FDP / Seminars / Workshops Attended

S.NO	NAME OF THE FACULTY	Name of Workshop/FDP/Seminar	VENUE	DURATION
1	Dr.R.Jayashree, Professor	Nano instrumentation systems and bio nano technology	BSACIST	3rd-16th November 2017
2	Mrs. S.Jennathu Beevi, Assistant Professor, Sr.Grade			
3	Mrs. Belwin.J.Brearly, Assistant Professor, Sr.Grade			
4	Mrs. G.Kavitha, Assistant Professor			

5	Mrs. V.Bharanigha, Assistant Professor			
6	Dr.Y.Mohamed Shuaib, Asso. Professor & Head	Nano instrumentation systems and bio nano technology		3rd-16th November 2017
7	Mrs.K.G.Shanmuga Priya,Assistant Professor			3rd-16th November 2017
8	Mrs. K.Sarmila Har Begam,Assistant Professor	Capacity Building of Women in Higher Education	BSACIST	01 <sup>st</sup> April 2017
9	Mrs. G.Kavitha,Assistant Professor	Case Study Writing and Teaching Method	BSACIST	4 <sup>th</sup> January 2018
10	Mr.A.Sultan Saleem Associate Professor	Creating Entrepreneurship Ecosystem in Educational Institution	BSACIST	11-12 January 2018
11	Mr.S.Suresh Assistant Professor	International Workshop on Power System Dynamics and Renewable Integration - PSDR	Karunya University, Coimbatore	11-12 August 2017
12	Mr.C.Athbel Joe Assistant Professor	International Workshop on Power System Dynamics and Renewable Integration - PSDR	Karunya University Coimbatore	11-12 August 2017

### Papers Published/ Presented In Journals & Conferences

National Conference	International Conference	National Journal	International Journal	Total
-	1	-	13	14

### Details of Publication In National & International Journals & Conferences: (IEEE Format)

- 1) K.Sarmila Har Beagam , R.Jayashree and M.Abdullah Khan, "A New DC Power Flow Model Analysis for use in Reactive Power Market "Engineering Science and Technology, an International Journal,,Vol:20, pp 721-729, 2017.

- 2) Belwin J.Brearley and R.Raja Prabu, "A review on issues and approaches for micro grid protection", Renewable and Sustainable Energy Reviews,Vo:67, pp 988-997,2017.
- 3) Taniguevelane and K.N.Srinivas, "Localization of Pilferage of Energy Using PLC signals for an unbalanced Distribution System", International Transaction of Electrical and Computer Engineers Systems, Vol:4 No 1,pp 39-48,2017.
- 4) Aravind,Jennathu Beevi and Jayashree.R, "Frequency Linked price using unscheduled Interchange(UI)signals of Two area power system", International Journal of Electronics, Electrical and Computation system, Vol:6, No:6,pp101-110, 2017.
- 5) Arshad and Selvi, "2D Electromagnetic Design of Flux Reversal Generator for Low Speed Wind Applications using Finite Element Analysis",International Journal of Engineering Technology Science and Research,Vol:4,No :6 pp149-157, 2017.
- 6) Kamesh C ,S Sultan Saleem and A Ramkumar M, "A Real Time Implementation of a Solid State Over current Relay using DSP F2812"International Journal of Electronics, Electrical and Computational System, Vol: 6, No: 6, pp 179-187, 2017.
- 7) Divya Vijay and U. Sabura Bhanu and K. Boopathy," Multi-objective Genetic Algorithm-Based Sliding Mode Control for Assured Crew Reentry Vehicle,Springer nature- Advances in Intelligent Systems and Computing, Vol: 517,pp 551-564, 2017.
- 8) G. Kavitha and I. Mohammed Rafeequdin, "Hybrid Techniques for Reducing Total Harmonic Distortion in a Inverter-Fed Permanent Magnet—SM Drive System", Springer nature- Advances in Intelligent Systems and Computing, Vol:517,pp 491-504, 2017.
- 9) Rakesh Veeraraghavan and Suresh. S, "Design, Analysis and control of PMSG-Based Grid Connected Variable Speed Wind Energy Conversion System for Power Smoothing", International Journal of Engineering Technology, Management and Applied Sciences, Vol: 5,No 6,IISN 2349-4476, pp 268-278, 2017.
- 10) Boopathy.K and Balu, "Dual Active Bridge (DAB) Converter for Solid State Transformer (SST)", International Journal of Electronics, Electrical and

Computational System, Vol:6,No:6, pp 170-178,2017.

- 11) R. Jayashree and R. Soundarapandian, "A hybrid optimization Approach Based on RBFNN and GSA for Advanced Unit commitment problem with wind power and pumped storage hydro", Vol :9, No:8, pp 173-183, 2017.
- 12) M. Ramkumar and K.N. Srinivas, "Small scale Wind Generation System: Part II –A novel Quasi –Z-source Inverter and FRG-QZSI –Micro Grid Interface", International Journal of applied Power Engineering, Vol:6, No:1, pp 13-30, 2017.
- 13) G. Kavitha and Y. Mohamed Shuaib, "Fractional Order PID Controlled AC to AC Converter FED Three Phase Permanent Magnet Synchronous Motor Drive", Journal of Advanced Research in Dynamical and Control Systems, an ELSEVIER SCOPUS indexed journal

#### **International Conference:**

T.D Sudhakar, K N Srinivas, M.Mohan Krishnan and R.Raja Prabu, "Design and Analysis of Grid Connected PV generation Systems", Proceedings of second International Conference on Intelligent Computing and applications, Advance in Intelligent Systems and Computing , ISBN 978-981-10-1645-5\_35, pp 413-422, 2017.

#### **Details of Impact Factor Of The Publication H-Index**

- A) Range : 0.167 to 2.96
- B) Average : 1.2
- C) H-Index : 10

#### **Sponsored Research (Ongoing / Applied)**

<b>S.No.</b>	<b>Principal And Co-Principal Investigators</b>	<b>Funding Agencies</b>	<b>Project Title</b>	<b>Amount(Lakhs)</b>	<b>Status</b>
1	Dr.R.Jayashree	CPRI	Quasi Z source Bidirectional DC-DC Converter with energy storage device for solar	26	Applied

			powered Electric vehicles		
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### Industrial Visits By Faculty / Students

S.No.	Year of the student	No. of faculty accompanied	Place of Visit	Date of Visit
1	II IV	2 2	Sriperumbudur 400/230 KV Substation	06.11.2017 07.11.2017
2	III	2	Sakthi Transformers Chennai	Nov 2017

### Achievements of Students

Syed Sameeullah and Mumtaz Ahmed Bheda, Final year EEE organized Workshop on "Innovation in 3D printing" at APJ Abdul Kalam Innovation Center, BSA Crescent Institute of Science & Technology on 22<sup>nd</sup> August 2017.

### Course offered by affiliated faculty:

S.NO.	NAME OF THE COURSE	NAME OF AFFILIATED FACULTY & DESIGNATION	OFFICE ADDRESS	NO. OF CREDITS	DURATION
1	EEBX41 MODERN CONTROL THEORY	Dr. Sumeet Aphale Senior Lecturer	School of Engineering University of Aberdeen, Scotland, UK	Partial course delivery	4 days 01 – 04, August 2017
2	Power System Engineering Application to automation	Dr. Akhtar Kalam Professor & Discipline leader Engineering Head of Engineering	Leader – Smart Energy Research Unit College of Engineering and Science Victoria University, AUSTRALIA	02	2 weeks 23 – 31 January 2018

## Industry / Institute Collaboration

The SLAC meeting was held on 21.10.2017 at 9.30 AM in the seminar hall of the EEE Department. The following peoples from Industry are the expert members for SLAC.

S.NO	Name / Designation
1	Mr. Vijay Anand Vice President - Aricent Technology Chenadilya Towers, Rajiv Gandhi Salao, Duraipakkam, Chennai
2	Dr. Guruprasath Managing Partner Smarta Opti Solutions Ltd., Chennai.
3	Mr. Uppili Rajan Deputy General Manager No. 27th KM Stone, Chembarambakkam Chennai - 600 123.

## Society Activities

S. No.	SEEE ACTIVITY	DATE	RESOURCE PERSON	KEY NOTE LECTURE TOPIC
1.	Inaugural Function	8 <sup>th</sup> September 2017	Ms. Gowri B. Aiyar Lead Engineer HV Power Electronics and Subsystems Jaguar Land Rover, UK	Electric vehicles and Battery system
2	Guest Lecture	6 <sup>th</sup> November 2017	Mr. P. Sathish Kumar Manager, NTPC Chennai	Power plant familiarization and its electrical systems
3	Special Lecture	23 <sup>rd</sup> , January 2018	Dr. Akhtar Kalam Head of Engineering, Leader – Smart Energy Unit, College of Engineering & Science, Victoria University, Australia	Smart Grid of the 21st century

## Important Visitors

NAME OF VISITOR & DESIGNATION	OFFICE ADDRESS
Dr. Sumeet Aphale Senior Lecturer	School of Engineering University of Aberdeen, Scotland, UK
Dr. Akhtar Kalam Professor & Discipline leader Engineering Head of Engineering	Leader – Smart Energy Research Unit College of Engineering and Science Victoria University, AUSTRALIA



## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### Training Programmes Offered

Training programme for Certified Labview Associate Developer (CLAD) was conducted from 05<sup>th</sup> to 10<sup>th</sup> June 2017.

### Interdisciplinary Programmes Conducted

Workshop on Real Time Signal Acquisition and Processing Using Matlab and Labview in collaboration with School of Life Sciences was conducted during 18.9.17 to 20.9.17

### Conferences / FDP / Seminars / Workshops Conducted

S.No	Title of the Program	Type of Program	Date	Resource Persons	Sponsoring Agency
1	Workshop on "Hands-on Python Programming"	Workshop	26.09. 2017 & 27.09.2017	Dr.G.Kannan, Asso.Prof/ECE Ms.K.IndraGandhi, AP(SG)/ECE	IE ,IETE
2	Three-Day Workshop on Design of Microstrip Antenna Arrays using HFSS	Workshop	05.10.17 to 07.10.17	Ms.A.Ambika Mr.Ramesh Kumar Mr.Hasan Babu	IE ,IETE
3	Series of Skill Development Workshop	Workshop	04.12.17 to 09.12.17	Ms.A.Ambika Mr.Ramesh Kumar Ms.Jean Shilpa Ms.S.Anusooya Ms.S.Kalaivani Ms.R.Anitha Dr.G.Kannan Ms.K.IndraGandhi Mr.Selva Kumar	IE ,IETE
4	Smart Nano Materials for Sensor Application	Seminar	24.01.2018 & 25.01.2018.	Dr. G. Chandrasekaran Dr. V. Velmurugan Dr. Binsu Kailath Dr. Venkatesvaralu Dr. M. Arivanandhan Dr. S. Arumugam	SECE,IE ,IETE
5	IEEE International Conferenceon	Conference	20.03.2018 to	Dr. P. A. Manoharan,	IEEE,IE ,IETE

	“Recent Trends in Electrical, Control and Communication”.		22.03.2018	Chairman, IEEE Madras Section Dr. Swarnaravindra Babu CEO, Coovum Smart Systems Dr. Krishnan Ramu Professor, Virginia Tech University Dr. V. Masilamani Assistant Professor of Computer Science, IIITDM Dr. M.K.A.Ahmed Khan Asst. Professor, UCSI University Dr. Mohd Nasir Taib Senior Professor & Dean, UiTM, Malaysia	
6	Industrial IOT	Workshop	06.04.2018 & 07.04.2018	Optithought, NI Success Assurance partner (SAP)	SECE,IE ,IETE
7	Career Guidance	Workshop	7.04.2018	<ul style="list-style-type: none"> <li>➤ Mr. Mohamed Yaseen Solutions Architect Data Scientist Founder Ysquare Technology, Chennai</li> <li>➤ Mr. Mohamed Sayur Rahman Technical Lead (Caterpillar India Pvt. Limited)</li> <li>➤ Mr. Dawood Test Engineer, Infosys</li> <li>➤ Mr. Sudharshan VFX, Cinematographer &amp; Editing</li> </ul>	IE(I),IETE
8	Embedded	Workshop	9.04. 2018	Dr.G.Kannan,	IE(I),IETE

	Application design using Arduino board			Asso.Prof/ECE Ms.K.IndraGandhi, AP(SG)/ECE	
9	Hands-on workshop on PCB design	Workshop	27.04.2018	Mr.M.Selvakumar,A P/ECE	IE(I),IETE

### Conferences / FDP / Seminars / Workshops Attended

#### Workshop Attended:

1. Ms.Ambika Ms.Priya and Ms.Sivashunmughavalli and Mr.Selvakumar attended Workshop on “RF components and design and measurement techniques”, conducted by school of electronics and engineering, VIT, Chennai during February 2018.
2. Ms.S.Anusooya, Ms.Kalaivani, Ms.Jean shilpa and Ms.Anitha attended one day workshop on Mental Health and Stress Management for Teachers organized by BSACIST on 07th March 2018.
3. Ms.S.Anusooya attended one day NPTEL workshop for SPOCs conducted by IIT Madras on 25th Jan, 2018.
4. Ms.Paranasree, Ms.Ambika, Ms.S.Anusooya, Ms.Kalaivani, Ms.Jean shilpa, Ms.R.Mahalakshmi and Ms.R.Anitha attended training programme on “NI-USRP and Compact RIO” organized during 02.01.18 to 05.01.2018
5. Ms.S.Anusooya attended NPTEL workshop for SPOCs conducted at IIT Madras on 15.07.2017.
6. Ms.S.Anusooya and Mr.Selvakumar attended a five days workshop on “Cadence ASIC Design” during 18/12/17 to 23/12/17 at Entuple Technologies, Bangalore.
7. Ms.M.Arulvani and Ms.R.Mahalakshmi attended a FDP on “Internet of Things”, organized by NITTTR, Chennai from 19/12/17 to 21/12/17.
8. Ms.K.Divya attended a FDP on “ICT Teaching & Learning methodologies” organized by Jerusalem College of Engineering from 12.12.17 to 14.12.17.
9. Ms.A.Priya attended five days training program on “Electronics System Design and Manufacturing” during 27/11/17 to 01/12/17 at Entuple Technologies, Bangalore.
10. Ms.Vanmathi and Ms.Priya attended Faculty development program on “Nano Instrumentation Systems and Biomedical Nanotechnology “by BSACIST for the duration during 3.11.17-16.11.17.

11. Ms.S.Kalaivani, Ms.V.Jean shilpa and Ms.Anusooya attended a one day workshop on “Internet of Things” conducted by Institution of Electronics and Telecommunication Engineers Chennai on 28th November 2017.
12. Ms.S.Kalaivani and Ms.R. Anitha Attended one day workshop on “IoT with Home Automation” organized by Altsense on 20th October 2017 at IITM, Research Park Chennai.
13. Ms.V.Jean shilpa and Ms.Anusooya attended a FDP on “VLSI Physical Design using Cadence” conducted by department of ECE in association with Entuple Technologies during 5th and 6th of October 2017 at SRM University, Chennai.
14. Ms.R.Anitha participated in the third IEEE workshop on “Nano technology and Sensors” ,organized by the center of Nano Science and Engineering, IISC Bangalore during 11th to 13th of August 2017.
15. Ms.M.Padma usha has participated in the one day Innovative hands on training in “Image processing with Matlab” on 9/7/17.

#### **Papers Published/ Presented In Journals & Conferences**

National Conference	International Conference	National Journal	International Journal	Total
1	12	-	11	23

#### **Details of Publication In National & International Journals & Conferences: (IEEE Format)**

##### **International Journal:**

1. Y. J. Nazeer and S. KajaMohideen, “Effects of Slot and Etched Ground on the Performance of Planar Inverted F Antenna”, Fronteiras: Journal of Social, Technological and Environment Science, Vol: 6, No .1, July 2017
2. B. Kaleeswari, Dr.S. KajaMohideen, “Analysis of Leakage Current in 8T SRAM Cell for Low Power Application”, Fronteiras: Journal of Social, Technological and Environment Science, Vol: 6, No.1, July 2017

3. S. Murugeswari and S. KajaMohideen, "A Novel Filter Architecture for Low Power Portable Applications", *Fronteiras: Journal of Social, Technological and Environment Science*, Vol: 6, No.1, July 2017
4. Vanmathi.M, Mohammed Ismail,Senthilkumar.M and Venkateshvarlu.M, "Synthesis And Electrical Characterization Of Aluminium Doped Zinc Oxide Thin Films", *Journal of Ovonic Research*, Vol.13, No.6, pp345-349, December 2017.
5. Anitha , Mohammed Ismail and Uwaise Ahamed,"Analysis of diabetes Mellitus and NPDR through characterization of Changes in Tongue geometry features using NN classifier", *International Journal of Pure and Applied Mathematics*,Vol.117, No.15, pp 1015-1019
6. Sindhubala Kadirvelu and Vijayalakshmi Baba, "Visible light communication using LED as receiver with the effect of ambient light", *Opt Quant Electron*, Springer Science+Business Media, LLC, part of Springer Nature pp.1-11. . December 2017
7. K. Sindhubala and B. Vijayalakshmi, "Design and implementation of optical receiver for visible light communication to reduce ambient light noise", *Light & Engineering*, Vol. 25, No. 2, pp.139-146.
8. R.Anitha, S.Kalaivani, S.Anusooya and V.JeanShilpa, "Implementation Of Migration Strategies From Ipv4 To Ipv 6", *Journal of Advanced Research in Dynamical and Control Systems*, 17-Special Issue,Page: 1740-1747,2017
9. V.JeanShilpa, S.Anusooya and R.Anitha, "Design And Verification Of Four Port Router For Network On Chip (Noc)", *Journal of Advanced Research in Dynamical and Control Systems*, Special Issue, , pp 1803-1811, 2017
10. M. S. Santhosh , R. Sasikumar , L. Natrayan , M. Senthil Kumar , V. Elango & M. Vanmathi "Investigation Of Mechanical And Electrical Properties Of Kevlar/E-Glass And Basalt/E-Glass Reinforced Hybrid Composites" *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)* Vol. 8, No3, 591-598. May 2018.
11. Parnasree Chakraborty and Tharini Prasad, "An efficient communication protocol for wireless sensor network using differential encoding based compressed sensing technique ", Volume12, 2018

## International Conference

:

- 1)G.Anuradha, Najumnissa Jamal and Syed Rafiammal“Detection of dementia in EEG signal using dominant frequency analysis” in the Proceedings of International Conference On Power ,Control, Signals And Instrumentation Engineering,pp 125-129,Chennai 2017
- 2)R.Mahalakshmi alias Isakki, C.Tharini and M.Arulvani “Performance analysis of Pulse shape filter for repetition channel coding in the Proceedings of IEEE international conference on Power control, signals and Instrumentation Engineering (ICPCSI-17) at Chennai during September 2017.
- 3)R.Anitha and B.Vijayalakshmi, “Simulation Of Quantum Encoder & Decoder With Flip Bit Error Correction Using Reversible Quantum Gates”, in the proceedings of IEEE International Conference on “Recent trends in Electrical, Control and Communications” (RTECC '18), March 2018 ,Chennai.
- 4)R.Anitha, B.Vijayalakshmi , “Design Of 1 Bit Arithmetic Unit In Qca Technology Using Reversible Gates”, in National Conference on Research in Electronics Engineering And Communication Techniques,(REACT'18) Chennai April 2017.
- 5) Mohamed Hishaam.M, R.Anitha and S.Anusooya, “Implementation Of Defective Object Sorting Machine Using Sift Algorithm”, in the proceedings of third International Conference on Innovative & Emerging Trends in Engineering & technology (ICIETET'18) Chennai, March 2018
- 6) Mohammed Wajid Khan and S.KajaMohideen, “Implementation of CORDIC Algorithm and its Architecture for High-Performance DCT Application”, in the Proceedings of IEEE International Conference on Recent trends in Electrical, Control and Communication,Chennai, March 2018.
- 7) A.Priya and S.KajaMohideen, “Design Of Half Elliptic Circular Slot Monopole Antenna On A Partial /Defected Rectangular Ground Plane For Wlan&Uwb Application” in the Proceedings of IEEE International Conference on Recent trends in Electrical, Control and Communication, Chennai, March-2018.
- 8) Parnasree Chakraborty, C.Tharini and Minhaj Abidha.M,” Hardware Implementation Of Compressed Sensing Algorithm” in the proceedings of IEEE International Conference OnRecent trends in electrical,control& communication,Chennai,2018.

- 9) Ambika.A, C.Tharini, K. Roashna, R. PonSujitha and J. RasithaBegam, "Analysis of Different CSRR Structures on Microstrip Transmission Lines" in the proceedings of IEEE International Conference on Recent Trends in Electrical,Control & Communication,Chennai,2018.
- 10)S.SadhishPrabhu, G.Kannan, K.Indra Gandhi, Irfanuddin and Munawir, "GPS Controlled Autonomous BOT for Unmanned Delivery" in the proceedings of IEEE International Conference on "Recent trends in Electrical, Control and Communications" (RTECC '18) , Chennai,2018
- 11)V.JeanShilpa, P.KJawahar, "Design of Hybrid CPU-FPGA Processor For High Performance Applications" in the proceedings of Research In Electronics Engineering And Communication Techniques Chennai 2018
- 12)V.JeanShilpa and P.K.Jawahar, "Design of Cat Window On Hybrid Cpu – Fpga Architecture",World Summit on Advances in Science, Engineering and Technology, University of Cambridge, 2018.
- 13)Shyamala Sharthy S.Anusooya and S.Kalaivani , "Implementation of Efficient Self Balancing Robot" in the proceedings of IEEE International Conference on "Recent trends in Electrical, Control and Communications" (RTECC '18) ,Chennai,2018

**Details of Impact Factor of The Publication H-Index (for past five years)**

- A) Range - 0.1-1.277
- B) B) Average - 1
- C) C) H-Index - 22
- D) D) No. In Scopus - 5

**Sponsored Research (Ongoing / Applied)**

S.No.	Principal And Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1	Dr. S.Kaja Mohideen (PI) Ms. A. Sumathi (Co-PI)	MOCIT (DeitY)	Secured High Data rate Transmission through Downlink wide band channels using chaos based MCCDMA	36.30	Applied

			Communication and Performance enhancement		
2	Mr.S.Sadhish Prabhu [PI], Dr.Shameem Banu [Co-PI], Dr. B.Vijayalakshmi [Co-PI] and Mr. Selva Kumar [Co-PI]	SERB under the scheme of EMRR	Design and fabrication of micro strip patch antenna using nano ferrite material for mobile application	44.34	Applied
3	Dr.G.Kannan[PI], Dr.C.Tharini [Co-PI], K.Indra Gandhi [Co-PI]	SERB under the scheme of EMRR	Design and Fabrication of Smart Ground Penetration Radar (GPR) antenna using Graphene Material for Ground Water detection and Monitoring System	38.66	Applied
4	Dr. S.Hemalatha[PI] Dr.C.Thariin [Co-PI], Dr. Auvai [Co-PI],	Science and Technology of Yoga and Meditation'	Effect of Yoga on premenstrual symptoms and anemia among female students	15.56	Applied
5	Dr.C.Tharini and Ms Mahalakshmi Dr. Vidhyacharan Bhaskar	DST under VAJRA scheme	Investigation of Optimum Capacity, Power control, and Throughput using Low Density Parity Check Codes for 5G Wireless communications		Applied
6	Ms.V.Jean Shilpa & Dr.(Mrs) Binsu J Kailath,Associate Professor,Electronics Engineering,IITD&M Kancheepuram Chennai	SERB-TARE proposal.	Parallel Simulation Methodology for VLSI systems designed using high level language		Applied

### Major Equipment Purchased :

CRIO-9039 - Embedded Compact RIO Controller with Real-Time Processor and Reconfigurable FPGA for NI-CDP Lab.



### International Visits By Faculty / Students

Ms. A.Priya,AP/ECE delivered guest lecture at Antenna Research Center ,UiTM, Malaysia in the month of May 2018

### Faculty Internships

Ms. A.Priya has undergone 3 week (May 2018) internship at Antenna Research Center, UiTM, Malaysia.

### Achievements of Staff

- Dr.C.Tharini, Appreciated for the role as Single point of Contact (SPOC) for the NPTEL Local Chapter of BSACU which is rated as “A” based on the performance in NPTEL online certification courses during Sep-Dec 2017.
- S.Kalaivani, S.Anusooya, R.Anitha, V.Jean Shilpa,Dr.B.Vijaya Lakshmi , Iniyavan R, Indragandhi have successfully completed Online NPTEL course during the period of Sep-Dec 2017.
- S.Anusooya Received award from Texas Instruments for Mentoring the Dhishti online contest which was conducted in our ECE dept on 06.10.2017.
- R.Anitha and S.Anusooya, Received best Mentor certificate award from NPTEL online courses in the period of Sep-Dec 2017.
- V.Jean Shilpa,S.Kalaivani ,K. Indira Gandhi ,G.Kannan,Syed Rafiammal, R.Anitha, S.Anusooya ,M.Padma Usha and Siva Shanmugavalli have successfully completed NPTEL courses during Jan –April 2018.

### Achievements of Students

#### Details of Student participated in Technical Events

S.NO	STUDENT NAME	YEAR	EVENTS
1.	B.Bharath	III	Won third position in the event Captional IT on 14th October 2017 at BSACIST
2.	Aamira	IV	Completed online NPTEL course titled “Introduction to IOT” during July 2017
3.	Akash	IV	
4.	Anitha	IV	
5.	Kiren Balaji	IV	

6.	Sowmiya	IV	
7.	Geetha	IV	Completed online NPTEL course titled "Introduction to cryptology" during July 2017
8.	Sharanya	IV	
9.	Priya	IV	Won second prize in the creative writing event at BSACIT on 13th October,2017
10.	KSharanya	IV	Project demonstration "Defective object sorter" in IETE foundation day at ICAM College of Engg. on 28th Nov. 2017
11.	Janani	IV	
12.	Akash	IV	Completed a Project "Finger print attendance monitoring system" for Government School,Urapakkam,Chennai
13.	Fathima Zahara	IV	Online contest "Embedded system design" at TI India university program on 6th Oct. 2017
14.	Abishek.V	IV	ANVESHAN '18, won III prize -SOUTH ZONE LEVEL

#### Extra-curricular activity of the academic year 2017-18

S.NO	DETAILS OF THE EVENT	STUDENT NAME	PRIZES WON
1	Valvil OORI festival sports- 2017,Recurve,Namakal,2nd& 3rd August,2017	Mr.N.Hemaprasanth (III year ECE A)	Second
2.	Rotaract Club of Vishwahita,Cricket, M.Ct.M.Hr.Sec.School,22nd October 2017	Mr.Asar (III year)	Winner
3.	Rotract Club Talent Hunt For Cooking At BSACIST, 13th Oct. 2017	Ms.Nisha (III year ECE B)	First
4.	Rotract Club Talent Hunt For Treasure Hunt At BSACIST, 13th Oct. 2017	Ms.Huzaifa (III year ECE A)	First
5.	Rotract Club Talent Hunt For Dance At BSACIST, 13th Oct. 2017	Ms.Karishma (IV year ECE A)	Second
6.	Rotract Club Talent Hunt For Dance At BSACIST, 13th Oct. 2017	Ms.Panimozhi (IV year ECE A)	Second
7.	Rotract Club Talent Hunt For Dance At BSACIST, 13th Oct. 2017	Ms.Khalitha	First
8.	Rotract Club Talent Hunt For Dance At BSACIST, 13th Oct. 2017	Ms.Janani.P (IV year ECE A)	First
9.	Rotract Club Talent Hunt For Treasure Hunt At BSACIST, 13th Oct. 2017	Ms.Panimozhi (IV year ECE A)	First
10	Annual Islamic Cultural Event,	Ms.Sheik Behanannz	Participated

	School Of Arabic and Islamic Studies, 22.08.2017	Begum (IV year ECE B)	
11	Rotract Club Talent Hunt, Mehendi,BSACU, 13th Oct. 2017	Ms.Sheik Behanannz Begum (IV year ECE B)	Participated
12	Government of TamilNadu, Consumer wareness, BSACIST, 8.8.17	Mr.Vikram (IV year ECE B)	Participated
13	Rotract Club Talent Hunt Drawing, BSACIST, 13th Oct. 2017	Ms.Nivetha (IV year ECE B)	Second
14	Rotaract Club of Vishwahita, Balloon walk, M.Ct.M.Hr.Sec.School, 22nd October 2017	Ms.Navya (IV year ECE B)	First
15	Rotract Club Talent Hunt For cooking without fire At BSACIST, 13th Oct. 2017	Ms.Khalithaparveen (III year ECE A)	First
16	Rotract Club Talent Hunt Group dance, BSACIST, 13th Oct. 2017	Ms.P.Janani (IV year ECE A)	First
17	Rotract Club Talent Hunt For cooking without fire At BSACIST, 13th Oct. 2017	Hairunisha (III year ECE A)	First
18	Annual Islamic cultural event On spot event, BSACU,24-30 August 2016	Hairunisha (III year ECE A)	Third
19	Won state & National level ball badminton championship, Dec 2017 & March 2018	Mr.Lokesh (IV year ECE A)	First

### **Industry / Institute Collaboration**

Industrial projects are carried out by our ECE students in different firms like M/S NOKIA Solutions, M/S Jasmine Infotech, M/S Denvik Technologies, Danfoss, ISRO, NIOT , NIWE, etc.

### **Society Activities**

#### **IE and IETE Student Chapter:**

Institute of Electronics and Telecommunication Engineers awarded the IETE Student Chapter of ECE Department, as the ISF Best Student Centre (among 60 student chapters) of Chennai Centre on 28.11.2017. This award is for outstanding and exemplary contribution in conducting various technical events.

All the workshop, seminar and conference were conducted under the banner of Society of IE and IETE students Chapter.

### **Social Technical Service Club:**

The Student members of “Social Technical Service Club” of ECE department designed and implemented the following three projects in a Govt. High School at Karanaipudhucherry near Urapakkam. These projects were handed over to the school by Registrar Dr.V.Murugesan in the presence of Dean Dr.S.Kaja Mohideen and HOD Dr.C.Tharini on 17.11.17.

- **Automatic water level controller** by II year ECE students Mr.J.Prasanna, Mr.S.Ganesh and Mr.K.Lokeshwaran)
- **Automatic Bell** by II year ECE students Ms.R.Karthiyayini, Ms.M.Hansika, Ms.S.Priyanka, Ms.V.R.Raja Priya and Ms.P.Pavithra
- **Bio-metric Finger print bases attendance system** by III year ECE students Mr.MohamedBasith Adnan, Mr.M.Mohamed Afrid and Mr. V.S.Akash

### **MoU Signed**

Signed an MOU with Nokia Networks, Oragadam on 5<sup>th</sup> December 2017 at B.S.Abdur Rahman Crescent Institute of Science and Technology

### **Extension Activity Conducted**

1. Design & development of “Mini Electronics Expansion Valve (EEV) test driver”, for Danfoss Industries Pvt Ltd, SIPCOT Industrial Growth Center, Oragadam Village, Kancheepuram District during Sep-Dec 2017.
2. An automation using LabVIEW program to interface LCR meter and Furnace for the measurement of dielectric property at high temperature for Centre for High Pressure Research, School of Physics, Bharathidasan University during the month Dec 2017-April 2018.
3. Consultancy work carried out in VNA and FABRICATION for students of various institutions during the year 2017-2018. The total Revenue Generated is Rs.59,700/-.

## Important Visitors

1. Dr. Vidhya Charan Bhaskar, Professor, San Francisco State University, San Francisco, CA 9413 visited the institution on July 17 - 21, 2017 and offered a course on “Advanced topics in Wireless Communication”.



2. Dr. Mohd. TarmiziAli ,Associate Professor, UITM, Malaysia visited the institution during March 2018 and offered a one credit course on Microwave and Radio propagation Systems” for the benefit of VI semester students



### **Courses Conducted**

3. Organized a supplementary course on “Internet Of Things Fusion Between Connected Car & Home” delivered by the adjunct faculty Mr.Vijay Anand,Asst Vice President, Aricent Technologies on 28.3.18 and 29.3.18.
4. Organized a one credit course on “Microwave and Radio propagation Systems” for the benefit of VI semester students from 19.03.2018 to 23.03.2018. The course was handled by Dr. Mohd. TarmiziAli , Associate Professor, UITM, Malaysia.
5. Organized Expert’s Lectures being delivered by foreign faculty to supplement the course ‘ECB3102 Digital Communication’ for the benefit of V semester ECE students.

## **DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**

### **Training Programmes Offered**

Dr.D.Najumnissa Jamal organized one credit course on Design of Intelligent Robots and its applications from 19.3.18 to 23.3.18. Dr.M.K.A.Ahamed Khan, Assistant professor, faculty of Engineering from UCSI University, Malaysia is the resource person

### **Conferences / FDP / Seminars / Workshops Conducted**

- Organized a two days National Level Students Conference on Futuristic Innovation in Robotics, Control Engineering & Automation (FIRCA-18) on 23<sup>rd</sup> and 24<sup>th</sup> March 2018 at BSACIST
- Organized a one day technical workshop on “Multivariable Process Control” on 22.8.17 at BSACIST.
- Organized a one day workshop on “Industrial Automation” by Zenmaq Automations Pvt.Ltd. on 14.3.18.
- Organized a two week faculty training program in ‘Nano Instrumentation Systems and biomedical Nano technology’ held on 3<sup>rd</sup> to 16<sup>th</sup> November 2017 at BSACIST
- Organized a One credit course on Cryptography by Prof. Albert Fassler
- Organized a Workshop on “Trends in Controls and Instrumentation for Power Plant – A Research Perspective” on 27.9.17 and 28.9.17.
- Organized a two Weeks Faculty Training Programme on “Nano Instrumentation Systems and Biomedical Nanotechnology” during 3.11.17 to 16.11.17.

### **Conferences / FDP / Seminars / Workshops Attended**

- Dr. D. Najumnissa Jamal Professor attended one week Faculty Development Programme on “Research Methodology And Data Analysis Using SPSS And AMOS” during 13<sup>th</sup> July to 19<sup>th</sup> July 2017
- Ms.P.R.Hemavathy, AP (S.G) attended two hands on training programme on soft computing & bio inspired optimisation using Matlab at the department of Computer Technology, MIT campus, Anna university on 30-31 August 2017.

- D. Najumnissa Jamal attended two day training programme on personality development on 25.9.17 and 26.9.17 organized by the "Faculty Training Academy" in collaboration with "Women Grievance Cell" of BSACIST.

### **Papers Published/ Presented In Journals & Conferences**

National Conference	International Conference	National Journal	International Journal	Total
1	4	-	5	10

### **Details of Publication in National & International Journals & Conferences: (IEEE Format)**

#### **International Journal:**

1. B.Pushpa, D.Najumnissa and Dinesh Nayak "Correlation Analysis and Modeling of EEG – EMG Signal for Startle-Induced Seizures," OnLine Journal of Biological Sciences, Science Publications;2017
2. S.K.Lakshmanprabu and D.Najumnissa Jamal, "Bat Algorithm Based Parameter Identification of Second Order system using step response", at the International Journal of Pure and Applied Mathematics, Vol 117, No15 , pp 1031 - 1042, December, 2017.
3. G.Anitha, Mohamed Ismail and Uwise Ahmed.A "Analysis of Diabetes Mellitus and Classifier," International Journal of Pure and Applied Mathematics, Vol 117 ,pp.1015-1019, 2017
4. Sivaramakrishnan, N and S. K. Lakshmanprabu. "Optimal Model Based Control for Blood Glucose Insulin System Using Continuous Glucose Monitoring." Journal of Pharmaceutical science and Research, Vol. 9 No 4, pp 465-469 ;2017
5. Sivaramakrishnan, N., P. R. Hemavathy, and G. Anitha. "Design of Hybrid control for Isothermal Continuous stirred tank Reactor."International Journal of Pure and Applied Mathematics, Vol 117 ,No 15pp. 999-1009 , 2017

#### **International Conference:**

1. G.Anuradha and D.Najumnissa Jamal, Syed Rafiammal presented a paper titled "Detection of Dementia in EEG Signal using Dominant Frequency



Analysis, in the proceedings of IEEE International Conference on Power, Control, Signals and Instrumentation Engineering ICPCSI-2017, pp125 – 129 September 2017.

2. S.Adhirai and D.Najumnissa, "Feature Extraction and Analysis of Renal Abnormalities using Fuzzy Clustering Segmentation and SIFT Method" in the proceedings of IEEE explore November 2017.
3. Mohammed Hussain, V. Aparna, U. Sabura Banu and S.K.Lakshmanaprabu, "Automation of Two Interacting Conical Tank process with Multiobjective Optimization of Fractional PID controller with a Metaheuristic Optimizer, the Cuckoo search algorithm" in the proceedings of International Conference in Trends in Industrial Measurements and Automation organised by Department of Instrumentation Engineering, Anna University, Chennai January 2017.
4. Ms.P.R.Hamavathy, Mr.Mohamed Shuiab and Mr.N.Sivaramakrishan " Design of state feedback controller with integer Integral and Fractional Integrator for control of Buck converter" in the proceedings of IEEE International Conference in Recent Trends in Electrical, Communication, Chennai 2017.

#### **National Conference:**

1. Abdul Kalam F M, Meenakshi.A, Sureca.J, Nageswari,Sabura Banu and Hemalatha "Texture Analysis And Classification Of Diseases In Paddy Leaves Using Histogram Approach And Naive Bayes Approach" in the proceedings of National Level Conference on Emerging Technologies in Engineering (EMERGE-2017) 2017, Chennai

#### **Details of Impact Factor of the Publication H-Index**

D) Average SJR: 0.144 Average SNIP: 1.03 Average H index: 21

#### **Major Equipment Purchased:**

The following equipments are purchased from M/s. Nagman Instruments and Electronics Pvt Ltd., for an amount of Rs. 4,31,025/-

1. Microprocessor based Universal Temperature Calibrator
2. Smart Pressure Calibrator
3. Multifunction Calibrator

**Book Published:**

D.Najumnissa Jamal and B.Pushpa, published a book chapter titled, Feature Selection and Detection of Epileptic Seizure EEG signals using EMD and PSO in a book titled, “Advanced Engineering Research and Applications”, volume V, pp112 – 123 ,Chapter 7,Research India Publications during September 2017,

**Patents (Obtained / Applied):**

A patent titled “Development of Boiler tube leakage detection system using intelligent techniques” has been submitted to Intellectual Property India,Chennai office on 28th December 2017 by Prof. S.Sahul Hamid, Dr.D.Najumnissa Jamal, Dr.P.K.Jawahar and Mrs.M.S. Murshitha Shajahan .

**Achievements of Students:**

- Two student teams participated, presented & demonstrated in South Zone

**Details of the selected project**

<b>Name and year of study</b>	<b>Title of the Project</b>	<b>Department</b>
S.J.Mohammed Khalid R. Balavan Vignesh IV Year UG	Automation of washing machine using programmable logic controller	Electronics& Instrumentation Engineering
B.Arun Kumar Z.Mohamed Anees U.Mohamed Ashik Ali III year UG	Smart Waking Up Gadget	Electronics and Instrumentation Engineering

**Society Activities**

The Society of EIE was inaugurated on 21.9.17

**Mous Signed:**

Department signed MoU with EATON MTL Instruments Pvt Ltd. on 23.5.18.

**Important Visitors:**

Dr. M.A.Ahamed Khan and Dr. Irraivan Elamvazuthi, *Associate Professor*, University of Teknologi Petronas, Malaysia interacted with students regarding the collaborative project on Robotics and Automation during the third week of September, 2017

## **Affiliate Faculties**

Permission was obtained to induct the following faculty member from Universities abroad as affiliate Professor for EIE department

1. Dr David Jenkins, Lecturer, School of Computing, Electronics and Mathematics (Faculty of Science & Engineering), Plymouth University, UK
2. Mrs.Amudha Khan, Assistant Professor – Lincoln University, Kuala Lumpur, Malaysia
3. Mr. Nagoor Monnapillai Ahamed, Consultancy Services Director, Albain Group , Dubai, Lead Process Safety Engineer, BP Kinneil LPG Chilldown Project , Aberdeen / Glasgow (UK)
4. Dr. Irraivan Elamvazuthi, Associate Professor, Department of Electrical and Electronic Engineering, Universiti Teknologi PETRONAS, Malaysia

## **SCHOOL OF INFRASTRUCTURE**

### **DEPARTMENT OF CIVIL ENGINEERING**

#### **Training programmes Offered**

- A training programme was organized for the second year and pre final year students of B.Tech. Civil Engineering on “Professional design & Development – Revit Architecture” offered by Space CADD Designers & Construction during 17.07.2017 to 21.07.2017.
- A training programme was organized for the pre final year students of B.Tech. Civil Engineering on “Auto Desk 3D’s Max” offered by eStaar Max Technologies Pvt. Ltd. during 08.11.2017 to 16.11.2017.

#### **Affiliate Faculty**

- A series of lectures on “Advanced Concrete Design” was delivered by Affiliate faculty Dr. Yazmin Sahol Hamid, Sr Lecturer, UiTM Malaysia for the final year students of B.Tech. Civil Engineering during 13.11.2017 to 17.11.2017.
- A one credit course on “Lean Construction” was delivered by Affiliate faculty Mr. S. Kavin Kumar, Director, EPMCR Private limited for the M.Tech. (Construction Engineering and Project Management) students during September, 2017.

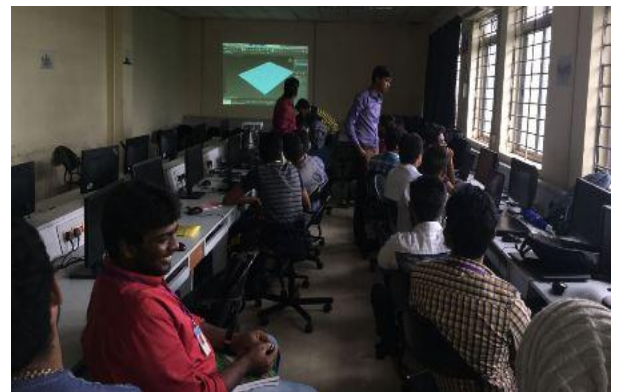
#### **Conferences / FDP / Seminars / Workshops Conducted**

- Three day workshop on “Primavera – P6 Hands on Training ” was organized exclusively for B.Tech. Pre final year Civil Engineering students during 14-16, April 2017.
- Three day workshop on "Analysis and Design of Structures" was organized exclusively for B.Tech. Final year Civil Engineering students during 20-22, September 2017.
- Two days workshop on “Construction Management Software” for B.Tech. students and neighboring industry professionals to provide basic knowledge about Quantity Surveying and MS Project during March 15-16, 2018.

- Two days workshop on “Structural Engineering Software’s” for B.Tech. students and neighboring industry professionals to provide basic knowledge about E TABS and STAAD PRO. software during March 21-22, 2018.
- Faculty Development Programme on Mechanics of Solids is conducted from 31.05.2018 to 02.06.2018.



***Training program on Revit Architecture***



***Training program on 3D studio max from 8.11.2017 to 1.12.2017***





***Hands on training Workshop on Analysis and Design of Structures during  
20/09/2017 to 22/09/2017***



***Workshop On Primavera P6 - Hands On Training" Conducted On April 14 & 16, 2017***



***Advanced Concrete Design course for B.Tech final year civil engineering students  
from Nov 13 2017 to Nov 17, 2017. by  
Dr. YAZMIN SHAHOL HAMID, Professor, UiTM, Malaysia***



***Two Days Workshop on Structural Engineering Software (ETABS & STAADPRO)  
during 21<sup>st</sup> & 22<sup>nd</sup> March 2018***



***Two Days Workshop on Structural Engineering Software (Quantity Surveying and  
MS project) during 15<sup>th</sup> & 16<sup>th</sup> March 2018***





## Faculty Development Programme on Mechanics of Solids from 31<sup>st</sup> May to 02<sup>nd</sup> June 2018

### Conferences / FDP/ Seminars / workshops attended

- Mr.G.Priyanth and Ms.V.Roopa attended series of Lectures on “Lean Construction” conducted at IIT Madras during 31<sup>st</sup> July to 04<sup>th</sup> August, 2017
- Dr. K.Yogeswari, Ms.Ayisha Siddiqua, Mr. Shafeer Ahammed and Mr. Mohamed Shanawaz attended one week faculty development program on “Research methodology and data analysis using SPSS and AMOS “ organized by the Department of Management Studies, B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai during 13 – 19 July, 2017
- Ms.C.Hemalatha attended 71<sup>st</sup> RILEM week and ICACMS 2017 International conference on “Advances in Construction Materials and Systems” on 6<sup>th</sup> September, 2017.
- Dr. M.S. Haji Sheik Mohammed participated and presented a technical article in the CORCON 2017 (NACE East Asia and Pacific Area Conference) organized by NACE International and NIGIS held at Hotel Sahara Star, Mumbai during 17-20,September, 2017.
- Ms. R. Elakya and Ms. N. Manickapriya attended one-day AIMIL Customer Interaction Program on the topic “Marvels of Civil Engineering



&Importance of Testing and Quality Control & Consultancy” on 11<sup>th</sup>October, 2017 in Holiday Inn, Chennai.

- Mr.G.Priyanth participated in International conference on “Construction, Real estate, Infrastructure and Project Management” at NICMAR, Pune during 09- 11 November, 2017.
- Mr. Y.Ibrahim participated in National Conference on “Sustainable Clean Water Technology” organized by BSACIST, Chennai during 21- 22 September, 2017.
- Mr. D. Mohamed Shanavaz presented a poster in ESA – NRSCC (European space agency & National remote sensing centre of China) held at Yunnan Normal University, Kunming, China during 20 - 25 November, 2017.
- Dr. P. Vasanthi, Mr. D. Mohamed Shanavaz, Mr. G. Priyanth and Mr. Y.Ibrahim attended 3 days FDP for “ISO Audit training programme” by M/S TUV-SUD organized by BSACIST, Chennai during 11- 13 December, 2017.
- Dr. M.S. Haji Sheik Mohammed participated in the 5th International Corrosion Prevention Symposium for Research Scholars (CORSYM 2018) organized by NIGIS-SZ and IIT Madras held at ICSR Auditorium, IIT Madras during 23-24, March, 2018.
- Mr. G. Priyanth participated in “Workshop on Construction Automation and Robotics” organized by IIT Madras held at ICSR Auditorium, IIT Madras during 11-12, May, 2018.
- Mr. Mohamed Shanavaz participated in “Workshop on Construction Automation and Robotics” organized by IIT Madras held at ICSR Auditorium, IIT Madras during 11-16, May, 2018.

#### **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>
<b>1</b>	<b>7</b>	<b>-</b>	<b>13</b>	<b>21</b>

## Details of Publication in National & International Journals & Conferences:

### International Journal

1. S.Booma and Vasanthi Padmanabhan, "Analysis of traffic flow using Q- GIS (Case study at Vandalur Junction, Chennai)," *International Journal of Innovative Research in Science, Engineering and Technology*, Vol 6, No4, pp.5225 – 5231, April 2017.
2. M.V. Molykutty, "Investigation of Passive design elements for an energy efficient building in warm and humid climate," *International Journal of Civil Engineering*, Special Issue, pp. 1- 5, April 2017.
3. K. Parthasarathy, P.M. Shanmuga Priya and J. Jeny Rani Mary, "Skill development for overcoming social disadvantage of school children's," *International Journal of Trends in Research & Development*, Vol. 4, No.3, pp. 3973 -3982, June 2017.
4. P. Gajalakshmi, "Development of Eco friendly concrete incorporated with E – waste" *Journal of Ecology, Environment and Conservation*, pp.356 – 362, August 2017.
5. Nisha Khanam and B.V. Mudgal, "Comparison of velocity profiles for free and submerged hydraulic jump," *Journal of Ecology, Environment and Conservation*, Vol 23, pp.321 – 327, August 2017.
6. R. Elakya and G. Bharath Kumar, "Experimental investigation on performance of flexible pavement using Geotextile," *International Journal of Civil Engineering and Technology*, Vol 8, No10, pp.1611 -1620, October 2017.
7. M.V. Molykutty, K. Kanmani and N. Maharajan, "Investigation of Rain water harvesting potential for Sustainable Water Management," *International Journal of Remote Sensing & Geosciences (IJRSG)*, Vol 6, No 6, pp.1 – 5, November 2017.
8. Y.Ibrahim, K.Jagadeesh and V.Karpagam, " Study on Mechanical properties of type S-A Concrete pavement blocks with waste fibres," *International Journal for Research in Applied Science & Engineering Technology*, Vol 5, No.11, pp.623 – 629, November 2017.
9. M. Mohamed Ibrahimi, Dyana Joseline, and M.S. Haji Sheik Mohammed "Strength, Durability and Thermal performance of ferrocement panels for use

- in Secondary roofing,” *International Journal of Applied Engineering Research*, Vol 12, pp.6758 -6768, 2017.
10. Elias A.Latiff, M.Mohamed Ibrahlim and M.S.Haji Sheik Mohammed “Innovative Weathering course composites & Secondary roofing system for Thermal insulation of flat roofs,” *International Journal of Engineering & Manufacturing Science*, Vol 7, pp.117 – 148, 2017.
  11. B Kannadasan and K Yogeswari, “Study on Smoke Adsorbing Central Median Barrier for Road Pavement”, *International Journal of Innovative Research in Science, Engineering and Technology*, Vol 7, No5, April 2018.
  12. S.Jagatheeswaran and K.Yogeswari. “Accomplishing smart transportation for Chennai: problems and Issues”, *International Journal of Applied Engineering Research*, Vol 13, No9, pp 6902-6908, 2018.
  13. T.Loganathan and K. Yogeswari “ Analysis of factors causing time and financial overrun in roads and highway constructions”, *International Journal of application or Innovation in Engineering & Management*, Vol 7, No4, pp 28-39, 2018.

### **International Conference**

1. J.Sherin Mariya and M.S.Haji Sheik Mohammed, “Performance of corrosion inhibitor admixed slag cement mortar exposed to aggressive corrosion environment,” in the proceedings of *NACE East Asia and Pacific Area Conference (CORCON 2017) RRC23*, NACE International India Section, Mumbai , September 2017.
2. M. Ayisha Siddiqua, Y. Ibrahim, Sufiyan Ahamed Jeddy and R. Tauseef Ahamed, “ Waste water treatment ; milk processing industry effluent using sequential batch reactor process,” in *Indian - German water partnership day*, organized by Confederation of Indian Industry & Indian - German Water Institute, Chennai ,September, 2017.
3. J. Sudhakar and K. Yogeswari , “Adaptation of passive design for net zero energy buildings in warm humid climate regions,” in the proceedings of *IEEE Second International Conference on Environmental Management and Green Technologies*, St. Peter’s College of Engineering, Chennai, September 2017.

4. M. Anitha and K. Yogeswari, "Study of thermal comfort in naturally ventilated classrooms in hot humid climate – a case of Chennai " in the proceedings of *IEEE Second International Conference on Environmental Management and Green Technologies*, St. Peter's College of Engineering, Chennai, September 2017.
5. Mohd Umar, M.S. Haji Sheik Mohammed, Naheetha Fathima and S. Hemalatha, "Microbial Induced Corrosion in Concrete and its Preventive Measures (An Overview)" in the proceedings of *5th International Corrosion Prevention Symposium for Research Scholars (CORSYM 2018)*, CCS60, NACE International Gateway India Section & IIT Madras, Chennai, March 2018.
6. Ahmed Abdul Ahad, S. Raghavendran and M.S. Haji Sheik Mohammed, "Influence of Surface Modification and Surface Configuration of Steel Rebars on Flexural Performance of RCC Beams" in the proceedings of *5th International Corrosion Prevention Symposium for Research Scholars (CORSYM 2018)*, CCS59, NACE International Gateway India Section & IIT Madras, Chennai, March 2018.
7. Kannadasan B and Yogeswari K, "Study on Smoke Adsorbing Central Median Barrier for Road Pavement" in the proceedings of *International Conference on Recent Innovation in Civil Engineering and Management*, Chennai, March, 2018.

**National Conference:**

1. Kannadasan B, Nihilesh K and Mohamed Aslam Sha K, "Selection of Dump Yards for Solid Waste Management by the application of Remote Sensing & GIS" in the proceedings of *National Conference on Emerging Trends and Advancements in Civil Engineering*, Chennai, April 2018.

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

- A) Range** – 2  
**B) Average** – 0.22  
**C) No. In Scopus** - 5

### Sponsored Research (Ongoing)

Sl. No.	Principal and Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1.	Dr.Gajalakshmi.P & Dr.Revathy.J	Ministry of Earth Sciences, New Delhi	Seismic Performance of FRP Confined Steel tube in-filled Concrete Columns.	29.10 Lakhs	Ongoing
2.	Dr.Amlan Kumar Sengupta, Department of Civil Engineering, IIT Madras Dr.G.Radhakrishna G Pillai, Department of Civil Engineering IIT Madras and Dr.M.S.Haji Sheik Mohammed, B.S.Abdur Rahman Crescent Institute of Science and Technology	Extra mural research funding (2017)	Structural behavior of corroding prestressed concrete systems and extension of service life using cathodic protection	49.5 Lakhs	Sanctioned

### Sponsored Research (Applied)

1.	Dr.P.Gajalakshmi, Dr.J.Revathy & Dr.P.Vasanthi	CSIR (2017)	Development and optimization of Eco-friendly concrete by using E – plastic waste	12 Lakhs	Applied
2.	Dr Vasanthi P & Dr R Karthikeyan	MoEF (2017)	Bioremediation of oil contaminated soils using microorganisms	36 Lakhs	Applied
3.	Dr.K.Yogeswari	MoRD (2017)	Sustainable infrastructure planning for rural development using risk assessment strategies	7.5 Lakhs	Applied
4.	Dr.M.S.Haji Sheik Mohammed, Dr.P.Vasanthi & Mrs. V.Roopaa	State Forest Research Institute (2017)	Development of Cementitious composites for durable GFRG (Glass Fibre reinforced Gypsum) panel building construction : An eco Friendly and affordable solution to the mass housing needs	9.45 Lakhs	Applied

5.	Dr.J.Revathy & Dr.P.Gajalakshmi	DRDO (2017)	Development of high performance and assessment of green concrete using Nano – particles for safety involved structures	12.8 Lakhs	Applied
6.	Dr.J.Revathy & Dr.P.Gajalakshmi	MOES (2017)	Seismic response of concrete filled FRP thin walled members	15 Lakhs	Applied
7.	Dr. M.S. Haji Sheik Mohammed & Dr. Yazmin Sahol Hamid	MyGRANTS, Malaysia (2018)	Corrosion Mechanisms & Iteration Between Plain Wavy Carbon Steel Bars Embedded Matriz	40.88 Lakhs	Applied

### Industrial Project

Sl. No.	Principal and Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1.	Dr. Radhakrishna G. Pillai, IIT Madras Prof. M.S. Haji Sheik Mohammed, BSACIST Dr. Dhanya, RIT Kottayam	Vector Corrosion Technologies, Canada	Evaluation of cathodic protection systems used for reinforced concrete applications	29.972 Lakh	Ongoing

### Major Equipment Purchased

- Data Acquisition System for strain module measurement of Rs. 4.24 Lac was purchased for Construction Material and Testing Laboratory.

### International Visits by Faculty

- Mr. D. Mohamed Shanavaz presented poster in ESA – NRSCC (European space agency & National remote sensing centre of China) held at **Yunnan Normal University, Kunming, China during 20 - 25 November, 2017.**

### Achievements of Staff

- Y.Ibrahim, M. Ayisha Siddiqua and Sufiyan Ahamed Jeddy, presented a paper on “Augmentation of milk processing industry effluent by SBR process” and secured second prize in “4th Indian - German Water Partnership Day – Two days international conference” organized by

Confederation of Indian Industry & Indian – German water Institute on 19 – 20 September 2017 at Chennai.

- A team comprising Dr. M.S. Haji Sheik Mohammed, Dean, Academic Affairs, Dr. Vasanthi Padmanabhan, Dean, SOI, Ms. V. Roopa, Asst. Professor and Ms. A. Catherin, Asst. Professor conducted Academic Audit at C. Abdul Hakeem College of Engineering & Technology, Melvisaram, Vellore District on 30.11.17. The team shared the good practices followed in CRESCENT, also prepared and handed the Academic Appraisal Form for monitoring performance of faculty members on yearly basis.
- Mr. A.K.Kaliluthin, Assistant professor, ACOE have been awarded doctoral degree on the research topic “Studies on the behavior of RC exterior beam – column with core reinforcement” from Pondicherry University during March, 2018.

### **Achievements of Students**


- Mr.S.Syed Sirajudeen was awarded as “Best Outgoing Student” from B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai on 8<sup>th</sup> April, 2017
- Sufiyan Ahamed Jeddy, secured second prize for the paper titled “Augmentation of milk processing industry effluent by SBR process” in “4th Indian - German Water Partnership Day – Two days international conference” organized by Confederation of Indian Industry & Indian – German water Institute on 19 – 20 September 2017 at Chennai.
- Mr. N. Sathish Kumar, III Year Civil Engineering was 2<sup>nd</sup> runner-up in the 63<sup>rd</sup> Junior National Ball Badminton Championship organized by Karnataka Ball Badminton Association from 04.10.2017 to 08.10.2017.
- Ms.N.Vaishnavi of final year Civil Engineering was awarded as Gender Champions by B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai on 6th October, 2017.

### **Start up Company**

- Mr. Mir Hasnain Ali Razvi and Mr. A. Marujak Ali of 2017 B.Tech. passed out students started a new company TINCORR Construction solutions under the mentorship of technical advisor Dr. M. S. Haji Sheik Mohammed in Chennai from June 2017.




Supported by



**Crescent**  
Institute of Science & Technology  
Deemed to be University u/s 3 of the UGC Act, 1956

**ABOUT US**

We Provide Eco-Friendly & Durable  
Construction Solutions



### TINCORR website

TINCORR aims to provide cost effective, eco-friendly and durable solutions in terms of Thermal Insulation, Corrosion Protection, Repair & Rehabilitation, Water Proofing etc., through research oriented study, scientific approach and detailed analysis for the betterment of society and country. Their new innovations have been implemented successfully in several projects

### Developmental Activities



- Minor equipment's were purchased for Structural Engineering Lab, Construction Material Lab, Strength of Materials Lab, Concrete and Highway Lab, Geotechnical Engineering Lab, GIS & Remote Sensing Lab, Environmental Engineering Lab and Survey Lab to enhance the research in the laboratories.

### Industry / Institute Collaboration

- A consultative meeting was organized on 3<sup>rd</sup> Jan 2018 at the Seminar Hall, Civil Engineering Department with eminent persons from industries to receive suggestions regarding modifications / additions/ deletions to be made in the existing B.Tech (Civil Engineering) and M.Tech.(Structural Engineering & Construction Engineering and Project management) Curriculum.
- Dr. M.S. Haji Sheik Mohammed acted as technical committee member of CORCON 2017 (NACE East Asia and Pacific Area Conference), involved in reviewing process and Chaired a technical session on "Reinforced Concrete Structures - Symposia" held at Hotel Sahara Star, Mumbai during 17-20, September, 2017 organized by NACE International and NIGIS.
- Dr. M.S. Haji Sheik Mohammed acted as organizing committee member of "5<sup>th</sup> International Corrosion Prevention Symposium for Research Scholars (CORSYM 2018)" organized by NIGIS-SZ and IIT Madras during 23-24, March, 2018. Also acted as Chair person for the presentation theme "Corrosion in Concrete Structures" in two sessions.

### Society Activities

SL.NO	DATE	NAME OF THE SOCIETY ACTIVITY
1	07.04.2017	Guest Lecture on " <b>Journey of a Women Entrepreneur</b> " by <b>Ms Lavanya Ravindran</b> , Entrepreneur, Chennai.
2	07.04.2017	Soil Investigation Camp at Egmore for conducting <b>Standard Penetration Test (SPT)</b> .
3	12.04.2017	Guest Lecture on " <b>Façade Engineering – A look into the performance of facades in Multi Hazard loading</b> " by <b>Ms. Sukanya Salem Duraisamy</b> , Research Associate, Technical University, Berlin, Germany.

4	15.09.2017	Guest Lecture on “ <b>Bridges</b> ” by <b>Mr.K. Ganesh Iyer</b> Associate Chief Consultant, L & T Infrastructure Engineering Limited, Chennai.
5	28.09.2017	Inauguration of Society of Civil Engineers and a keynote Address <b>Dr.K.P.Jaya</b> , Professor & Addl. Director – Centre for Research, CEG, Anna University, Chennai.
6	13.10.2017	Industrial Visit for III year students to <b>Pondicherry, Auroville</b>
7	09.11.2017	Guest Lecture on “ <b>Technology trends in Construction Engineering and Project Management</b> ” by <b>Dr. S.Virapan</b> , Chairman & Managing Director,SV Associates, Chennai
8	16.11.2017	Guest Lecture on “ <b>Spatial Structures</b> ” by <b>Dr. Yazmin Sahol Hamid</b> , Senior Lecturer, UiTM, Malaysia
9	01.02.2018 to 05.02.2018	Survey Camp for III year (A, B, & C) section Students to Yelagiri.
10	15.02.2018	Industrial Visit for I year M.Tech. (CEPM) students to <b>RMD Kwikform India Pvt. Ltd., Gummidipoondi</b>
11	13.03.2018 to 15.03.2018	Industrial Visit for III year A, B and C section B.Tech. students to <b>KKM Software, Guindy.</b>
12	14.03.2018	Guest Lecture on “ <b>Altimetry for Inland waters</b> ” by <b>Dr. Calmant Stephane</b> , Senior Researcher, IRD, LEGOS, Toulouse, France.
13	21.03.2018	National Level technical Symposium <b>CIVICLAN 2018</b> was organized in which several technical and non-technical events like Paper/Poster presentation, Bridge design, Building model, Quiz, Block and Talk, Adzap were conducted.
14	22.03.2018	Guest Lecture on “ <b>Youth for Water</b> ” by <b>Er. M.S Vaidyanathan</b> , Consultant, Tamilnadu State Disaster Management Agency, Chepauk.
15	22.03.2018	Guest Lecture on “ <b>Civil Engineering Opportunities and Challenges</b> ” by <b>Prof.P.Rajayogan</b> , Professor, Nehru Institute of Technology, Coimbatore.
16	12.04.2018	Industrial Visit for I year M.Tech. (CEPM) students to Auroville, <b>Pondicherry.</b>
17	18.04.2018	Industrial Visit for IV year B.Tech.students to <b>Sattanur Dam, Thiruvanamalai.</b>
18	23.04.2018	Industrial Visit for II year B.Tech.students to <b>Sewage Treatment Plant, Perungudi.</b>
19	24.04.2018	Industrial Visit for II year B.Tech. students to <b>Desalination Plant, Nemili.</b>
20	30.04.2018	Guest Lecture on “ <b>Water and Waste water treatment</b> ” by <b>Dr.S.Virappan</b> , Chairman and Managing Director, SV Associates, Chennai.



Soil Investigation Camp visit to Egmore on 07.04.2017



Guest Lecture on **“Façade Engineering – A look into the performance of facades in Multi Hazard loading”** by **Ms. Sukanya Salem Duraisamy**, Research Associate, Technical University, Berlin, Germany on 12.04.2017.



Guest Lecture on “**Bridges**” by **Mr.K. Ganesh Iyer** Associate Chief Consultant, L & T Infrastructure Engineering Limited, Chennai on 15.09.2017.



Guest Lecture on “**Technology trends in Construction Engineering and Project Management**” by **Dr. S.Virapan**, Chairman & Managing Director,SV Associates, Chennai on 09.11.2017





**Inauguration of Society of Civil Engineers, Student Chapter of American Society of Civil Engineers (ASCE), and Indian Concrete Institute(ICI) on 28.09.2017**



**Industrial Visit for III year students to Pondicherry, Auroville on 13.10.2017**





Guest Lecture on “**Spatial Structures**” by **Dr. Yazmin Sahol Hamid**, Senior Lecturer, UiTM, Malaysia on 16.11.2017



**Survey Camp for III year (A, B, & C) section Students at Yelagiri on February, 2018**



Industrial Visit to **RMD KWIKFORM INDIA Pvt. Ltd., Gummidipoondi** for I year M.Tech.students on **15.02.18**



Industrial Visit to **KKM Software, Guindy** for III year B.Tech. Civil Engineering students during **13<sup>th</sup> to 15<sup>th</sup> March, 2018**





**National level Technical Symposium - CIVICLAN '18 held on 21.03.18**



**Guest Lecture on “Youth for Water” by Er. M.S Vaidyanathan, Consultant, Tamilnadu State Disaster Management Agency, Chepauk on World Water Day Celebration – 22<sup>nd</sup> March 2018**





**Industrial Visit to Sattanur Dam for IV year B.Tech. Civil Engineering students  
– 12.04.18**



**Guest Lecture on “Water and Waste water treatment” by Dr.S.Virappan,  
Chairman and Managing Director, SV Associates, Chennai on 30.04.2018**

### **Extension Activities**

### **Consultancy Activities**

The department involves in consultancy activities like executing repair & rehabilitation works, material testing works, design and validation of STP, soil testing and material stability for various Government, Semi-Government and Private agencies. The faculty members involved in the consultancy are Dr. M.S. Haji Sheik Mohammed, Dr. Vasanthi Padmanabhan, Dr.J.Revathy, Dr.P.Gajalakshmi, Mr. A.K. Kaliluthin, Mr. S. Shafeer Ahamed, Ms.Ayisha Sidiqqa, Mr. N. Maharajan, Ms. V. Roopa, Mr. Y. Ibrahim, Ms. R.Elakya and Mr.B.Kannadasan. An amount of Rupees Two lakhs and fifty thousand was generated through consultancy, testing, organizing conference and workshops.

## Important Visitors

Date	Name of Event	Visitor Name	Affiliation
7 <sup>th</sup> April, 2017	Guest Lecture on Journey of a Women Entrepreneur	<b>Ms Lavanya Ravindran</b>	Entrepreneur, Chennai.
12 <sup>th</sup> April, 2017	Guest Lecture on Façade Engineering – A look into the performance of facades in Multi Hazard loading	<b>Ms. Sukanya Salem Duraisamy</b>	Research Associate, Technical University, Berlin, Germany.
September 15 <sup>th</sup> , 2017	Guest Lecture on Bridges	<b>Mr.K. Ganesh Iyer</b>	Associate Chief Consultant L & T Infrastructure Engineering Limited Chennai 600032
November 9 <sup>th</sup> , 2017	Guest Lecture on Technology trends in Construction Engineering and Project Management	<b>Dr. S.Virapan</b>	Chairman & Managing Director, SV Associates, Chennai
April 30 <sup>th</sup> , 2018	Guest Lecture on Water and Waste Water Treatment		
September 2017	Lecture course on Lean construction	<b>Mr.S.Kavin Kumar</b>	Director, EPMCR Private limited
November 16 <sup>th</sup> , 2017	Guest Lecture on Spatial Structures	<b>Dr. Yazmin Sahol Hamid</b>	Senior Lecturer, UiTM, Malaysia
January 3 <sup>rd</sup> , 2018	Board of Studies meeting	<b>Mr. B. Suresh</b>	President & CEO and Whole Time Director, M/S. Mahindra Consulting Engineers Limited, Chennai
		<b>Dr K.P Jaya</b>	Professor, Structural Engineering Division, College of Engineering, Guindy, Anna University, Chennai
		<b>Mr. T. Vijaya Kumar</b>	General Manager, L & T, Chennai
		<b>Mr. S. Kavin Kumar</b>	Director, EPMCR Pvt. Ltd., Chennai
March 14 <sup>th</sup> , 2018	Guest Lecture on Altimetry for Inland waters	<b>Dr. Calmant Stephane</b>	Senior Researcher, IRD, LEGOS, Toulouse, France.

March 22 <sup>nd</sup> , 2018	Guest Lecture on Youth for Water	<b>Er. M.S Vaidyanathan</b>	Consultant, Tamilnadu State Disaster Management Agency, Chepauk.
March 22 <sup>nd</sup> , 2018	Guest Lecture on Civil Engineering Opportunities and Challenges	<b>Prof.P.Rajayogan</b>	Professor, Nehru Institute of Technology, Coimbatore.
May 31 <sup>st</sup> to June 02 <sup>nd</sup> , 2018	Faculty Development Programme on Mechanics of Solids	<b>Dr. V. Rajendran</b>	Managing Director, HITECH Group of Companies, Chennai.
		<b>Dr. N.Anandhavalli</b>	Senior Principal Scientist, Shock and Vibration Lab Structural Engineering Research Center Taramani, Chennai.
		<b>Dr. S.Elavenil</b>	Professor, Civil Department VIT University, Chennai Campus.
		<b>Dr. S.Senthil Selvan</b>	Professor, Civil Department SRM University, Maraimalai Nagar, Kattangulathur.

### Lectures delivered by Faculty

- Dr. M.S. Haji Sheik Mohammed delivered a lecture course on "Protective Coating on Steel Rebars for Corrosion Protection" in the Two Weeks FDP on "Advanced Concrete Technology" organized by Department of Civil Engineering, Mar Athanasius College of Engineering, Kothamangalam, Cochin during 7-20, December, 2017.
- Dr.J.Revathy delivered a lecture on "Retaining walls" in Rajalakshmi Engineering College, December 2017.
- Dr.P.Gajalakshmi delivered a lecture on "Bridges" in Rajalakshmi Engineering College, December 2017
- Dr. K. Yogeswari, Associate Professor delivered a lecture on "Hydrographical Survey" in KCG Engineering College, December 2017.

- Mr. A.K.Kaliluthin, Assistant Professor delivered a lecture on “Earthquake Resistant Structures” in Peri Institute of Science and Technology, December 2017.
- Dr. M.S. Haji Sheik Mohammed delivered a guest lecture on "Durability of RCC Structures in Coastal Regions: Issues and Practical Solutions" organized by Department of Civil Engineering, Valliammai Engineering College, Kattangulathur on 12.02.2018.
- Dr. P. Vasanthi acted as chair person and delivered a lecture at the National Level conference on “Quest for Advancements in Civil Engineering” organized by Department of Civil Engineering, SRM Institute of Science and Technology, Ramapuram Campus on 23.03.2018.
- Dr. P. Vasanthi delivered a lecture on “Importance of Soil Mechanics for the faculty and students of Dhanish college of Engineering on 14.03.2018.
- Dr. J. Revathy delivered a lecture on Introduction and Design of Flexure and Shear in Faculty Development Training Programme on Prestressed Concrete organized by Department of Civil Engineering, St. Joseph Institute of Science and Technology on 23.04.2018.
- Dr. J. Revathy delivered a keynote lecture in AICTE/ISTE sponsored Induction Programme on Modern Construction Materials and Construction Techniques in Valliammai Engineering College on 22.05.2018.
- Dr. P. Gajalakshmi delivered a lecture on Design of Beams by Limit state Method in Faculty Development Training Programme organized by Department of Civil Engineering, St. Joseph Engineering College on 29.05.2018.
- Dr. P. Gajalakshmi delivered a lecture in Faculty Development Training Programme on Structural Analysis I organized by Department of Civil Engineering, Sairam Engineering College on 30.05.2018
- Dr. J. Revathy delivered a lecture in Faculty Development Training Programme on Structural Analysis I organized by Department of Civil Engineering, Sairam Engineering College on 31.05.2018

## **SCHOOL OF MECHANICAL SCIENCES**

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

## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **New Programmes Started**

- B.Tech - Mechanical (Part time) program started for the employees of Mando Automotive India Ltd
- M.Tech. CAD-CAM (Part time) program offered for Industry personnel

### **Value Added Programmes Started**

- Organized a one day motivational workshop in association with International Development Innovation Network IDIN on 19/08/2017

### **Training Programmes Offered**

- Training program on “UG NX software for CNC Machines” conducted by the department on 24/07/2017 ,25/07/2017 and 07/09/2017

### **Interdisciplinary Programmes Conducted**

- Engineering Design workshop was organized for the faculty members of various Engineering departments to equip them in handling the course.

### **Conferences / FDP / Seminars / Workshops Conducted**

- One day national level workshop on friction Materials concepts- formulation, testing & environmental issues conducted by the department on 10<sup>th</sup> April 2018
- Two days National Workshop on Advanced Composite Materials-A research perspective conducted by the department on 2<sup>nd</sup> and 3<sup>rd</sup> February 2018
- One day motivational workshop was conducted by the department in association with International Development Innovation Network IDIN on 19/08/2017
- Three days training program on “UG NX software for CNC Machines” conducted by the department during 24/07/2017 – 25/07/2017 and on 07/09/2017

- International Conference on Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility- ADMMS 2017 conducted by the department during 19-21 July 2017
- Two days Workshop on “Engineering Design” on was conducted on 11<sup>th</sup>& 12<sup>th</sup> July 2017

### Conferences / FDP / Seminars / Workshops Attended

S No	Name of Faculty	Event Details
1	Dr. S. Prince Arockia Doss	<ol style="list-style-type: none"> <li>1. Participated as Session Organizer for the Technical Presentation- during SAE International Conference on Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility-ADMMS 2017 held at BSACIST during July 19-21, 2017.</li> <li>2. Participated in the THINKEDU CONCLAVE at Chennai, 17th January 2018.</li> <li>3. Participated in the Automotive Testing Expo 2018 at Chennai on 11 January 2018</li> </ol>
2	Dr. H. Siddhi Jailani	<ol style="list-style-type: none"> <li>1. Attended One day workshop on “Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility” held at BSACIST on 19th July 2017</li> <li>2. Attended one day national seminar on ceramic Composites held on 22.09.2017 at ACTECH Anna University, Chennai</li> </ol>
3	Ms. Nasreen Kaleem	<ol style="list-style-type: none"> <li>1. Attended Work shop on Strategies for innovative and quality research" during 31st July to 5th August 2017 at BSACIST.</li> <li>2. Attended One day workshop on “Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility” held at BSACIST on 19th July 2017.</li> </ol>
4	Dr. V. Muralidharan	<ol style="list-style-type: none"> <li>1. Participated in the International Conference on Advances in Design Materials Manufacturing and Surface Engineering for Mobility held at BSACIST during 19/07/2017 to 21/07/2017</li> </ol>
5	Dr. M. A. Sai Balaji	<ol style="list-style-type: none"> <li>1. Participated in the International Conference on Advances in Design Materials Manufacturing and Surface Engineering for Mobility held at BSACIST during 19/07/2017 to 21/07/2017</li> </ol>
6	Dr. A. Arockia Julias	<ol style="list-style-type: none"> <li>1. Participated in the International conference ADMMS organized by BSACIST &amp; SAE during 20th to 21st July 2017.</li> <li>2. Two days National Workshop on Advanced Composite Materials-A research perspective</li> </ol>
7	Mr. S. Jeavudeen	<ol style="list-style-type: none"> <li>1. Six days Training Programme on Academic Leadership at 'the New College', Chennai from</li> </ol>



S No	Name of Faculty	Event Details
		17.01.2018 to 23.01.2018 2. Two days National Workshop on Advanced Composite Materials-A research perspective.
8	Mr. D. Pradeep Kumar	1. Participated in the International Conference on Advances in Design Materials Manufacturing and Surface Engineering for Mobility held at BSACIST during 19/07/2017 to 21/07/2017
9	Mr. V. Gunasegaran	1. Participated two days workshop on Introduction to machine learning organised by IIT Kharagpur through remote centres (Layola college) on 16.012.2017 and 17.12.2017 2. One day workshop on Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility" held at BSACIST on 19th July 2017
10	Mr. MD. Javeed Ahmed	1. One day motivational workshop on innovation at BSACIST on 19.08.2017.
11	Mr. M. Balasrinivasan	1. A training programme on "UG NX software for CNC machines" at BSACIST during 24th to 26th July 2017. 2. Attended two days work shop on "Engineering Design" at BSACIST during 20th to 22nd June 2017.
12	Mr. N. Ravikumar	1. Two days work shop on "Engineering Design" at BSACIST during 20th to 22nd June 2017.
13	Mr. K. Sathick Basha	1. One day workshop on Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility" held at BSACIST on 19th July 2017 2. Two days National Workshop on Advanced Composite Materials-A research perspective 3. One day national level workshop on friction Materials concepts- formulation, testing & environmental issues
14	Mr. Syed Shaul Hameed	1. QIP Short Term Course on "Recent Advancements in Industrial Instrumentation and Signal Processing Techniques from August 21st -25th 2017 sponsored by AICTE. 2. Presented a conference paper in the International conference ADMMS organized by BSACIST & SAE during 20th to 21st July 2017. 3. A training programme on "UG NX software for CNC machines" at BSACIST during 24th to 26th July 2017. 4. Two days work shop on "Engineering Design" at BSACIST during 20th to 22nd June 2017.
15	Mr. M. Pervaz Ahmed	1. One day workshop on Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility" held at BSACIST on 19th July 2017 2. Two days National Workshop on Advanced Composite Materials-A research perspective.

S No	Name of Faculty	Event Details
16.	B. Surya Rajan	<ol style="list-style-type: none"> <li>1. One day workshop on Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility" held at BSACIST on 19th July 2017</li> <li>2. One day national level workshop on friction Materials concepts- formulation, testing &amp; environmental issues</li> <li>3. Two days National Workshop on Advanced Composite Materials-A research perspective</li> </ol>
17.	K. Asrar Ahmed	<ol style="list-style-type: none"> <li>1. One day national level workshop on friction Materials concepts - formulation, testing &amp; environmental issues.</li> </ol>
18	S. Rajarajan	<ol style="list-style-type: none"> <li>1. One day national level workshop on friction Materials concepts- formulation, testing &amp; environmental issues.</li> </ol>

### Papers Published/ Presented In Journals & Conferences

National Conference	International Conference	National Journal	International Journal	Total
-	07	-	16	23

### Details Of Publication In National & International Journals & Conferences:

#### International Journal:

- C. K. Arvinda Pandian and H. Siddhi Jailani, "Investigation of viscoelastic attributes and vibrational characteristics of natural fabrics-incorporated hybrid laminate beams", Polymer Bulletin, Vol 75, No5, pp 1997–2014, May 2018
- Ganesan Selvam, Surya Prakash Vaithyanathan, S. Prince Arockia Doss, Mohammed Zahir Abdullah and Vedantham Baskaran, " Implementation of Lean Approaches in Proto Body Build to Improve Productivity and Flexibility", SAE Technical Paper 2017 – 28- 1965
- Ganesan Selvam, Surya Prakash Vaithyanathan, S. Prince Arockia Doss, Mohammed Zahir Abdullah and Vedantham Baskaran, " Implementation of Lean Approaches in Proto Body Build to Improve Productivity and Flexibility", SAE Technical Paper – vol 28 pp 1965,2017
- H. Siddhi Jailani, A. Rajadurai, B. Mohan and T. Sornakumar, "Sliding Wear Behaviour of Al-Si Alloy – Flyash Composites produced by Powder Metallurgy Techniques" , Industrial Lubrications and Tribology, Vol. 69 No 2, pp.2041-2047, 2017

- C.K. Aravida Pandian, H. Siddhi Jailani and A. Rajadurai, “Natural Fabric Sandwich Laminate Composites:Development and Investigation”, Bulletin of Material Science, Vol 40 No 1, pp.139-146, 2017
- Pervez Ahamed and H. Siddhi Jailani, “ Effect of Cryogenic Treatment of Copper Electrode on Electro-Discharge Machining” SAE Technical Paper, 2017-28-1962
- J. Mahashar Ali and M. Murugan, “Surface Roughness Characterization of Turned Surfaces using Image Processing” Int. J. Machining and Machinability of Material”, Vol 19 No 4, pp. 394- 406,2017
- B. Surya Rajan, M.A.Saibalaji and C. Velmurugan, “Correlation of Field and Experimental Test Data of wear in Heavy Commercial Vehicle Brake Linings” Friction,Vol 5 No 1, pp. 56-65, 2017
- T.R.Tamilarasan, U. Sanjith, M. Sivasankar and G. Rajagopal, “Effect of reduced grapheme oxide (rGO) on corrosion and erosion-corrosion behavior of Electroless NiP coatings” Wear, Vol 390-391, pp. 385-391,2017
- Rajaanesh Ramamurthy, T.Venkatesan and R.Rajendran, “Solid Lubricant Assisted Machining – An Environmental Friendly Clean Technology to Improve the Surface Quality”. SAE Technical Paper, 28-1964,2017
- G.Ramanjaneyalu and R.Rajendran, “Study of Wear Behaviour of POM / Graphite- POM / MoS<sub>2</sub> Composites”, SAE Technical Paper, 2017-28-1988
- Dinesh Paulraj, S.S.M. Abdul Majeed and R.Rajendran,” Influence of Nano Ti O<sub>2</sub> particles on the properties and behavior of A356 Al metal matrix composites”, SAE Technical Paper, 28-1986,2017
- M. Malathi, J. Herbert Mabel, R. Rajendran and N. Gowri Shankar, “ Ni-P Composite Plating on Piston Ring for Improved Wear Performance” SAE Technical Paper, 28-1977,2017
- J. Purushothaman, Ramaseshan, S.K. Albert, R.Rajendran and N. Murugesan, “Preparation and Characterization of T – permeation barrier on RAFM steel : Influence of HDA melt composition and Super heat” Journal of Surface and Coating Technology, Vol 325, pp.697-707, 2017
- Sanjay, GR Arpitha, P Senthamaraikannan, M Kathiresan, MA Saibalaji, and B Yogesha,“The Hybrid Effect of Jute/Kenaf/E-Glass Woven Fabric Epoxy Composites for Medium Load Applications: Impact, Inter-Laminar Strength,

and Failure Surface Characterization”, Journal of Natural Fibers, [doi.org/10.1080/15440478.2018.1431828](https://doi.org/10.1080/15440478.2018.1431828) , Jan 2018.

- Md Javeed Ahmed, MA Sai Balaji, SS Saravanakumar, Sanjay and P Senthamarai Kannan, “Characterization of Areva javanica fiber–A possible replacement for synthetic acrylic fiber in the disc brake pad”, Journal of Industrial Textiles, [doi.org/10.1177/1528083718779446](https://doi.org/10.1177/1528083718779446) , May 2018.

#### **International Conference:**

- Surya Rajan B, Selvakumar A S, and Saibalaji M A, “Strain Analysis of AA6063 Aluminium Alloy By Tube Hydroforming Process in the proceedings of International Conference on Engineering Materials”, Metallurgy And Manufacturing, Feb 2018.
- Sathickbasha K, Selvakumar A S, Saibalaji M A and Javeed Ahmed Md, “Tribo performance of brake friction composite with stainless steel fiber” in the proceedings of International Conference on Engineering Materials, Metallurgy And Manufacturing, Feb 2018.
- Sai Balaji, Sai Priya, Javed Ahmed and Suryarajan Balachandran, “Correlation of test bench With Actual Vehicle Condition of Indian Commercial Passenger Cars” in the proceedings of International Conference on Advances in Industrial Engineering Applications (ICAIEA 2018), Jan 2018.
- J. Mahashar Ali, H. Siddhi Jailani and M. Murugan, “Surface Roughness Evaluation of Milled Surfaces by Image Processing of Speckle and White Light Images” in the proceedings of International Conference on Engineering Materials, Metallurgy and Manufacturing (ICEMMM2018), February 2018
- S. I. Mohamed Suhail , J. Mahashar Ali , H. Siddhi Jailani<sup>1</sup> and M. Murugan, “Vision based system for Surface Roughness Characterization of milled surfaces using Speckle Line images” in the proceedings of 2<sup>nd</sup> International Conference on Advances in Mechanical Engineering, (ICAME-2018) March 2018
- D. Maniraj, C. K. Arvinda Pandian H and Siddhi Jailani, “Development of Natural Fibres Reinforced Polymer Hybrid Composites” in the proceedings of International Conference on Automobile, Marine and Mechanical Engineering (ICAMME 2018), May 2018.

- S. Ravikumar, H. Kanagasabapathy and V. Muralidharan, “Fault Diagnosis of Selft Aligning Troughing Rollers (SATR) in Bulk Material Handling Belt Conveyor System by K-star Machine Learning Algorithm”, in the Proceedings of the International Conference on Recent Innovations in Production Engineering (RIPE 2017), March 2017.

#### Details of Impact Factor of The Publication H-Index

- (A) Range : 0 - 2.589  
 (B) Average : 0.82  
 (C) H-Index : 12  
 (D) No. in Scopus : 13

#### Sponsored Research (Ongoing / Applied)

S.No.	Principal And Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs) in Lakhs	Status
1.	Mr.B.Surya Rajan	IDIN (USA)	Infant temperature Measuring & Monitoring	1.05 (\$1594)	Ongoing
2.	Dr. R.Rajendran Dr.P.D.Jeyakumar Mr.C.Sivakumar Mr.S.Loganathan Mr. S.Shanmugam	SAE India Southern Section	Development of 17 hp Tractor for Indian Environment- (Design, build and test a prototype – first of its kind in India)	6.5	Ongoing
3.	Dr.M.Thirumurugan	TNSCST	Supplementary Seat with lifting mechanism in railway	0.10	Ongoing
4.	Mr.M.Abdur Rahman	DST-SERB	Synthesis, Characterization and electro chemical behavior of Alumina dispersed AL 7150 alloy composite	27.0	Applied

#### Book Published

- Book Chapter: Electroless Deposition of Nanolayered Metallic Coatings by Dr.R.Rajendran

## Patents (Obtained / Applied)

### Patents Applied

Mr. Hari Krishnan B, Mr. P.J. Radhakrishnan, Mr. Hussam and Dr. R. Sathish Kumar Method of Disengagement and Engagement of Auxiliary Devices with Engine Drive Unit, Patent File No: E-2 / 1063/ 2017-CHE

### International Visits By Faculty / Students

- Dr. R. Rajendran visited United States of America. For International ¼ scale Tractor Student Design Competition
- Dr. A. Sai Balaji & Mr. K. Sathick Basha Visited Malaysia on behalf of M/s.Fricmart (P)Ltd, New Delhi to the company KESB Resources SDN, BHDS Shah Alam, Selangor to formulate brake pad to suit Malaysian terrain for PROTON car model and for installation of testing machines.

### Achievements of Staff :

- Mr. J. Mahashar Ali has scored more than 1.28 lakh views for his You tube video lecture on the course Engineering graphics.

### Achievements of Students

- A patent entitled, "Method of Disengagement and Engagement of Auxiliary Devices with Engine Drive Unit" is filed by Mr. Hari Krishnan B, Mr. P.J. Radhakrishnan, Mr. Hussam and Dr. R. Sathish Kumar ( Patent File No: E-2 / 1063/ 2017-CHE)
- Our students team comprised of Mr. J.K. Rohith, Mr. Wajjahath Habibullah, Mr. Ajay and Mr. Radhakrishnanis selected one among the top ten for their project proposal titled "**SMART INTRAVENOUS DRIPPER**", at the Design and Innovation contest funded by DST AND Texas Instrumentation (Make In India Initiative) at IIM , Bengaluru in June 2017.
- 11,000 engineering students participated over 650 engineering colleges and universities across INDIA .They were short listed for final round with fund of 5 Lakh and won cash prize of RS. 75000.

- Their start up named REKINDLE is incubating at IIMB with Rs 1.5 Crore seed fund and Rupees 2.0 Crore from DST. The total fund amount is **Rs. 3.5 Crore**

### Internship

No.	Programmes	Organisation	Name of the student	Month/Year
1	Global Academic Internship Programme (GAIP)(Confirmation received from the Organisation)	National University of Singapore (NUS) and Nanyang Technological University (NTU)	Mr. Sanan, Mr. Roshan, Mr. Thoufiq and Mr. Taha	July 2017
2	Internship	FESTO Global Production Centre at Bangalore	Riyaz Ahmed Hyder Imran Mohmmad Faisal Niranjan Christopher Venkata Sai Kumar Sai Krishna Praveen Kumar Taha Esa Bahaman	Jan2018
3.	Internship	Renaults Nissan India, Chennai.	Mohammed affan. A. R. Ziegen balg Sheik mohammed zubair	December 2017

### Developmental Activities

- The Board of Studies (BoS) meeting for the department of Mechanical Engineering was held on 18.12.2017 for the approval of III<sup>rd</sup>& IV<sup>th</sup> semester B.Tech - Mechanical Engg. Syllabus and I, II and III semester part time B.Tech - Mechanical Engg. syllabus

### Industry / Institute Collaboration

1. Training programs conducted for the employees of Mando Automotive India Ltd
2. Training programs conducted for the employees of Apollo Tyres Ltd.



## **Society Activities**

### **SAE Activities**

- SAE India Tier-I Event organized by Society of Automotive Engineers on 14 December 2017.
- Designed and manufactured an All-terrain vehicle and participated in BAJA 2018, during January 24-30 2018 at NATRiP test track, Pithampur, Indore, Madhya Pradesh.
- Fabrication of Tractor for SAEINDA southern section's Tractor Design Competition to be conducted during April 2018, Chennai.

### **ISHRAE Activities**

- Around five teams from our university represented for all India level quiz competition **AQUEST** held at VIT
- Two batches of students submitted their proposal to ISHRAE student Project grant
- Three of our students were selected to volunteer "REFCON'17" held at Chennai trade centre by ISHRAE Chennai chapter

### **MOUs Signed**

The Department has signed MoUs with the industries and research institutions for training, research, Project work and Consultancy

1. Mando Automotive India Ltd.
2. CADD Centre Training Services, Tambaram.

### **Extension Activity Conducted**

#### **Sports Activities**

- The department of Mechanical Engineering students are actively participating in all the events which are regularly organizing by the South Zone and All India Inter University tournaments in Foot Ball Men, Badminton (Men &Women), Ball Badminton (Men and Women), Kabaddi (Men), Volley Ball

(Men & Women), Basket Ball (Men & Women), Tennis Men and Athletics Men from the First Year onwards.

#### **Rotaract Club (RCBSACIST)**

- Rotaract Club volunteers donated 50 units of blood in the blood donation camp organized by Crescent Blood Donors
- Visited the Freedom Children's home near minjur and fulfilled their basic needs like providing cloths, food and etc

#### **Crescent Blood Donors (CBD)**

- Regular activities such as blood donation, traffic awareness and helping to traffic police.
- Old dress distribution to poor people during June 2017

#### **Important Visitors**

- Prof. Ahmed Mujahid Ahmad Zaid, Professor at National Defense University Malaysia visited the department on 20/07/2017.

## **DEPARTMENT OF AEROSPACE ENGINEERING**

### **Conferences / FDP/ Seminars / Workshops Attended:**

- Dr. Ashoke Ghosh attended an FDP at Frost & Sullivan titled “Emerging Technologies Disrupting the Future of Industries and Jobs”, on 22 June 2018, held at the Frost & Sullivan office in Chennai
- Dr. Ashoke Ghosh attended an International Conference on “Smart Cities with focus on Environmental challenges” and presented a paper “Envisioning Smart Cities of the Future”, held at ABES Engineering College, Ghaziabad, India.
- Dr. P.N. Kadiresh attended and presented a paper on “Spray Characteristics of Plug Type Swirl Injector”, International Conference on Aviation and Space Technology HCT- Dubai, UAE (6-7 February 2018)
- Mr.Nithya Mahottamananda attended International Workshop on Detonation Wave Engines on 12-13 March 2018 at Hindustan institute of technology & science, Chennai.

### **Papers Published/ Presented In Journals & Conferences**

National Conference	International Conference	National Journal	International Journal	Total
01	4	00	03	8

### **Details of Publication In National & International Journals & Conferences: (IEEE Format)**

#### **List of Publications in international Journals**

- Selvakumaran T and Kadiresh P.N, “Investigation of Intermittent Oscillations in Composite Propellant” , DOI:10.1002/prop.201700185, December 2017
- Selvakumaran T and Kadiresh P.N, “Investigation on parameters influence for intrinsic instability analysis of solid propellant (AP+HTPB+TDI) using computational image-processing technique” December 2017, DOI:10.1002/prop.201700185

- S.Karthikeyan “Classifying Malicious Nodes In Vanets Using Support Vector Machines With Modified Fading Memory” ISSN 1819-6608 Vol. 12, No. 1, January 2017

### List of International Conference

- Sri Nithya Mahottamananda Jayapal, Rafnaz Mohammed and Kadiresh PN, “Spray Characteristics of Plug Type Swirl Injector in the proceedings of International Conference on Aviation and Space Technology HCT- Dubai, UAE February 2018.
- Ashoke Ghosh, “Envisioning Smart Cities of the Future” in the proceedings of International conference on smart cities ,Ghaziabad, India,2018
- R.Karunanithi,“Synthesis and characterization of Al7150 alloy” Vol.45,2017,pp.4062-4072,<https://link.springer.com/article/10.1007/s11661-014-2337-7>,2018
- R. Karunanithi, “Synthesis and characterization of Ti-Ti alloy”, Materials Science&Engineering,vol.190,pp133-143, <https://www.sciencedirect.com/science/article/pii/S0921510714001573>,2018

### List of National Conference

- Mr.Karthikeyan, “Experimental study on effect of span wise injection of fluid on finite wing” in the proceedings of National Conference KCG College of technology, Chennai, April 2018.

### Details of Impact Factor of the Publication H-Index

No. listed in Intl.Database	Avg Citation Index	Range of Citation Index	Avg SJR	Range of Impact Factor	Average SNIP	h-index
4	0.845	0.13 - 1.69	0.355	0.116 – 1.260	0.718	1

### Sponsored Research (Ongoing)

S.No	Principal and Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1	PI - Dr.P.N.Kadiresh CO-PI - Sri NithyaMahottmannada	Aeronautical Research & Development Board, DRDO	Development of Hybrid Rocket Motor	9,79,300	Ongoing

## Special Research Laboratories Created

Hybrid Rocket Lab (DRDO Sponsored Facility)

## Major Equipment Purchased :

- Hybrid Rocket motor with Thrust stand
- Oven & Propellant mixer

## Patents (Obtained / Applied) :

- Design and fabrication of split die with sintering mechanism by Dr. R. Karunanidhi – Applied in April 2018.



## International Visits By Faculty / Students :




Dr. Ashoke Ghosh visited the following universities during Apr & May 2018:

- La Trobe University, Melbourne, Australia, on 30 Apr 2018
- Victoria University, Melbourne, Australia, on 2 May 2018
- RMIT University, Melbourne, Australia, on 4 May 2018

## Achievements of Students

Five students are RANK holders in GATE 2018 examinations

S.No	Name	GATE 2018 (All India Ranking)
1	 Mr. RAAHUL. V.S	21
2		226

	Mr. BALAJI. V	
3	 Mr. ARUN D NAYAK	344
4	 Mr. MIR ZUHAIR ALI. A	576
5	 Ms.Karpagam S	653

### Developmental Activities

Sl. no	Title	Name of the Faculty	Details of the development
1.	Design and fabrication of split die with sintering mechanism	Dr R Karunanithi	Applied for patent in April 2018
2.	Hybrid Rocket Lab	Dr. P.N. Kadiresh & Mr. Nithya Mahottamananda	Gaseous oxygen feed line, hybrid rocket motor, 50 kg capacity thrust stand.

### Industry / Institute Collaboration

- (a) Collaboration with ARK Solutions Pvt. Ltd., Chennai, for the design of UAV and MAV
- (b) MoU with Madras Flying Club for several activities

**MoUs Signed**

:

- (a) MOU Signed with ARK Solutions Pvt. Ltd, New Delhi in 9<sup>th</sup> April 2018
- (b) MoU with Madras Flying Club for several activities

**Important Visitors**

- Mr. Karthik Sundarraj – Manager MAV design from ARK Solutions Pvt. Ltd, Bangalore.

**Other Information**

- Dr. Ashoke Ghosh New Professor & Head joined the Department of Aerospace Engineering in March 2018.

## DEPARTMENT OF AUTOMOBILE ENGINEERING

### Interdisciplinary Programmes Conducted: BAJA, SUPRA

- A team of 25 students from Automobile and Mechanical students participated in BAJA SAEINDIA 2018, organized by SAE INDIA from 25.01.2018 to 28.01.2018 (4 days) at Pithampur, Indore.
- A Team of 25 students from Automobile and Mechanical students participated in (designing and fabricating SAE SUPRA vehicle) SAE SUPRA competition organized by Society of Automotive Engineers from Noida from 23.06.2017 to 03.07.2017.

### Conferences / FDP / Seminars / Workshops conducted:

- National level Technical Symposium “SHARYO” was Organized by Department of Automobile Engineering, The chief guest of honor was **Mr. A. R. Arvind**, Assistant General Manager, Project Planning, Ashok Leyland, Ennore.
- One-day workshop on “Two wheeler Diagnostics” was organised by Crescent society of Automobile Engineering, in association with Shabeel Motors, Chennai. The workshop included a session of practical experience of motorcycling in the city and discussion of this experience, and other relevant information. The workshop was held on 11th October 2017 at Shabeel Motors, Mudichur. This workshop was conducted to enhance understanding and issues that motorcyclists face on a daily basis.



**One Day Workshop on Two Wheeler Diagnostics**

**The workshop was held on 11th October 2017 at Shabeel Motors,**

**Mudichur.**



- One day Seminar on “Entrepreneurship” was organised by Crescent society of Automobile Engineering, in association with Shabeel Motors, Chennai. The seminar was held on 11th October 2017 at Shabeel Motors, Mudichur.
- Crescent Society of Automobile Engineers was inaugurated on 25.10.2017. The chief guest of honor was Mr. G. Ramesh, Plant head – Takata India Pvt. Ltd



**Crescent Society of Automobile Engineers – Automobile Faculty and students**

**Crescent Society of Automobile Engineers was inaugurated. Chief guest – Mr. G. Ramesh**



**Chief Guest Mr. G. Ramesh delivered lecture to Automobile Students and Faculty.**

### Conferences / FDP / Seminars / Workshops attended :

- Dr. K. Prabu, Assistant Professor, Automobile Engineering attended the Two days National workshop on Recent and future Trends in Automobile Engineering on 9<sup>th</sup> and 10<sup>th</sup> March 2018 in Department of Automobile Engineering, MIT Campus, Anna University.
- Mr. C. K. Arvinda Pandian, attended national level workshop on "Advanced Composite Materials- A Research Perspective" on 2nd and 3rd February 2018 at B. S. Abdur Rahman Crescent Institute of Science & Technology, Chennai.
- Dr. M. Subramanian, Dr. K. Prabu. Mr. V. Deepan, Mr. C. K. Arvinda Pandian, Mr. N. Rajmohan, Mr. C. Dineshkumar, Mr. Manu Joseph and Mr. N. Kamesh attended the International Conference on Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility Workshop from 19.07.2017 to 21.07.2017 held at B. S. Abdur Rahman Crescent University, .
- Dr. M. Subramanian, Professor & Head, Automobile-Participated two days hands on workshop on "OBE Software" Organized by B.S.Abdur Rahman Institute of Science and technology on 7.12.2017 & 8.12.2017
- Dr. M. Subramanian, Professor & Head, attended the conference on Road ahead for the Indian Automotive Industry Chennai on Monday, 10<sup>th</sup> April 2017 at ITC Grand Chola, Mount Road.

### Papers Published/ Presented In Journals & Conferences

National Conference	International Conference	National Journal	International Journal	Total
-	4	-	6	10

## **Details of Publication in National & International Journals Conferences: (IEEE format)**

### **INTERNATIONAL JOURNAL**

Roy Robin., V. Hariram and M. Subramanian, "Probabilistic Finite Element Analysis of a Heavy Duty Radiator under Internal Pressure Loading", Journal of Engineering Science and Technology, Vol. 12, No.9, pp.2438-2452, September 2017.

P. Robin Roy, V. Hariram and M. Subramanian, "Accelerating the Product Development of a Commercial Vehicle Radiator using Finite Element Analysis", International Journal of Vehicle structures & Systems, Vol.9, No.1, pp.7, 2017.

C. Dineshkumar and M. Subramanian, "Automotive Braking System for Passenger Vehicle to Enhance Safety", International Journal of pure and Applied Mathematics, Vol. 117, No.20, pp. 1011-1020, 2017

Natarajan Just Raj, R. Christu paul, S. Jenoris Muthiya and C. Dineshkumar, "Pollution Control in Gasoline Engine using Metal Catalytic Converter", International Journal of Pure and Applied Mathematics, Vol.119, No.7, pp. 1235-1242, 2018

V. Deepan, M. Subramanian and C. Dineshkumar, "Motorcycle Rider Fatigue Analyse: Results of an Online Survey", International Journal of Mechanical and Production Engineering Research and Development, Vol.8, No.2, pp. 2249-6890, 2018

C. Dineshkumar and M. Subramanian, "Experimental Investigation of Onboard Driver Condition Monitoring System for Passenger Vehicles", International Journal of Mechanical Engineering and Technology, Vol.9, No.6, pp. 304-311, 2018

C. Dineshkumar, M. Subramanian, S. Jenoris Muthiya and V. Deepan, "Health Monitoring System for Automobile Vehicles to Enhance Safety", International Journal of Vehicle structures & Systems, 2018

### **INTERNATIONAL CONFERENCE**

C. Dineshkumar and S.Jhasim, Mohammed Maseeullah, Mansoor Syed, "Cardiac Pulse Sensitive of On board Diagnosis Monitoring System for

Automobile”, Third International Conference on Advance in Industrial Engineering Applications, ICAIEA 2018, pp.4, Chennai, January 2018

V. Deepan, M. Fareeth Aslam, V. Mohan Raj and P. Jayesh Pradhyumna, “Design and Analysis of New Combined Braking System for Two Wheelers”, Third International Conference on Advance in Industrial Engineering Applications, ICAIEA 2018, pp.10, Anna University, Chennai, , January 2018

C. Dineshkumar, Mohammed shameer, Thariq Billal and R. Saravanan, “Automotive Braking System for Passenger Vehicle to Enhance Safety”, Third International Conference on Advance in Industrial Engineering Applications, ICAIEA 2018, pp.37, Anna University, Chennai, , January 3-5 2018

V. Deepan, Suhail Bilal, G. Deepa and M.S.Vignesh, “Semi Assisted Gyroscopic Stability System for Two Wheelers”, International Conference on frontiers in engineering, applied sciences and technology (FEAST 17), pp.33, 2017

**SPONSORED RESEARCH (ONGOING / APPLIED):**

S. No.	Principal and Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1.	Dr. K. Prabu, Automobile Engineering, Dr. P. D. Jeyakumar, Mechanical Engineering	SERB	A modern approach to improve the crash worthiness of a chassis mounted bus body structure for Indian roads	9,10,000	31 st July 2017 – Stage:1 peer review proposal sent for referring

**PATENTS APPLIED : 4**

Sr. No.	Applicant & Inventor	CBR No.	Reference Number /Application Type	Application Number	Title
1	Mr. V. Deepan	17578	ORDINARY APPLICATION	201741015956	Automated Supporting Wheels For Self Stabilization In Motorcycles
2	Mr. V. Deepan	17579	ORDINARY APPLICATION	201741015957	Pedal Acceleration And Modified Rear Brake Pedal For Motorcycle
3	Mr.C.Dineshkumar	31568	ORDINARY APPLICATION	201741035707	Automatic handbrake system using seatbelt for passenger vehicles.
4	Mr.C.Dineshkumar	31570	ORDINARY APPLICATION	201741035708	Safety ignition system for drivers

**ACHIEVEMENTS OF STUDENTS :****Participate in International Conference**

1. Third International conference on advances in industrial engineering applications at Anna University, Chennai., B. Tech Automobile III year student Mr. M. Fareeth Aslam, has participated and presented a paper "Design and analysis of new combined braking system for two wheelers" on January 3-5, 2018.
2. Third International conference on advances in industrial engineering applications, at Anna University, Chennai., B. Tech Automobile Final year students S. Jhasim, Mohammed Maseeullah, Mansoor Syed has participated and presented a paper "Cardiac Pulse Sensitive of Onboard Diagnosis Monitoring System for Automobile" January 3-5, 2018.
3. Third International Conference on Advance in Industrial Engineering Applications, ICAIEA 2018, at Anna University, Chennai., B. Tech Automobile Final year students Mohammed shameer, Thariq Billal , R. Saravanan has participated and presented a paper "Automotive Braking System for Passenger Vehicle to Enhance Safety" January 3-5, 2018.
4. International Conference on frontiers in engineering, applied sciences and technology (FEAST 17) , B. Tech Automobile Final year students Suhail Bilal, G. Deepak, M. S. Vignesh., has participated and presented a paper "Semi Assisted Gyroscopic stability system for Two Wheeler" March 31st & April 1st 2017.

## Physical Education

### BEST PHYSIQUE

**Mr. N.Vignesh** – IVB.Tech (Auto) won **Mr. Chennai Award in Best Physique Competition -2017** (75 kg Weight Category) organized by Chennai District Amateur Body Building Association held at Nehru Stadium, Chennai on 5<sup>th</sup>& 6<sup>th</sup> August-2017. Also won the Gold Medal in the State Level Body Building Competition held at Trichy on 24<sup>th</sup> Dec-2017 ; won the Bronze Medal in Senior State Level Competition held at Vellore on 10<sup>th</sup> Dec – 2017; and won Silver Medal in Senior State Level Body Building Competition held at Avadi, Chennai on 7<sup>th</sup> January-2018.

### KARATE

**Mr. T.Guru Ragvesh – I B.Tech (Auto)** won the gold Medal in 7<sup>th</sup> South Zone Championship -2017 (under 18 category) organized by Alan Thilak Shito-Ryu Inter National, Kanyakumari on 12<sup>th</sup> August-2017

### Placement

Final year Student Mr. Nehal Sanjay got placed in Anand Automotive Pvt. Ltd during BAJA event.

### MoUs SIGNED

MOU signed with Shabeel Honda - 24<sup>th</sup> September 2014 and renewed on 8<sup>th</sup> December 2017.

### Important Visitors

- **Mr. A. R. Arvind**, Assistant General Manager, Project Planning, Ashok Leyland, Ennore.
- **Mr. K. N. Balaji**, Senior Automotive Consultant, Former General Manager Brakes India Pvt Ltd
- **Mr. G. Ramesh**, Plant head – Takata India Pvt. Ltd
- **Dr. V. Hariram**, Professor, Department of Mechanical Engineering, Hindustan University.
- **Dr. S. Premnath**, Associate Professor, Department of Automobile Engineering, Sri Venkateswara College of Engineering, Kancheepuram Dist.,
- **Dr. J. Janci rani**, Professor, Department of Production Technology, Madras Institute of Technology.



- **Dr. G. Devaradjane**, Professor / Automobile Engg., MIT, Anna University
- **Mr. K. Sethubaskaran**, General Manager (Engines Division), Ford India Pvt. Ltd

**Other Information**

**Industry Visit**

- Automobile I year& II year students Industry visit to Ashok Leyland , Ennore on 05.04.2017.



- **Second year Automobile Engineering students Industry Visit to TAFE, on 7<sup>th</sup> November 2017.**



- **Second year Automobile Engineering students Industry visit to Rambal Limited on 28<sup>th</sup> March 2018.**

## DEPARTMENT OF POLYMER ENGINEERING

### Value Added Programmes Started

- In association with **Rubber Skill Development Council (RSDC) of India**, a Skill Development program is started for the benefit of final year students **July 2017**.
- Assessment for the value added program conducted by **Rubber Skill Development Council (RSDC)** was held on **24<sup>th</sup> May 2018**.

### Conferences / FDP / Seminars / Workshops Conducted

- Two days National Conference on "**Sustainable Clean Water Technology SCWT17**" was organized by polymer nanotechnology center in association with department of Physics, Chemistry and Life Sciences from 21<sup>st</sup> to 22<sup>nd</sup> September 2017.



- One day **National Level Symposium MACRON 2018** was conducted on **28<sup>th</sup> March 2018** and Mr.B.Ganesh, Team Leader – HR, Apollo Tyres Ltd, Chennai was the Chief guest.





### Conferences / FDP / Seminars / Workshops attended

- Dr.S.Shamshath Begum and Mrs R Daulath Banu attended a the three-day training programme on **“ISO internal auditors”** training by M/s. TUV-SUD, organized by Faculty Training Academy & ISO office from 11<sup>th</sup> -13<sup>th</sup> December 2017 at BSACIST
- The following faculty members participated in two day Hands on Workshop on **“OBE Software”** by M/S IonCUDOS from 7<sup>th</sup> December 2017 to 8<sup>th</sup> December 2017 at BSACIST

- Mr Basanta Kumar Behera
  - Dr.S.Shamshath Begum
  - Mrs Shahitha Parveen
  - Mr D Murali Manohar
  - Mrs Sindhu K P
  - Mrs R Daulath Banu
- The following faculty members participated in 2 days National Conference on “**Recent Trends in Functional Materials**” organized by department of Physics,at BSACIST from 5<sup>th</sup> - 6<sup>th</sup> December 2017.
- Dr.S.Shamshath Begum
  - Mrs Shahitha Parveen
  - Mrs Sindhu K P
  - Mrs R Daulath Banu
- The following faculty members participated in two weeks faculty training program from 3<sup>rd</sup> November 2017 to 16<sup>th</sup> November 2017 on “**Nano instrumentation systems and Biomedical Nanotechnology**” organized by the department of electronics and instrumentation, BSACIST
- Dr.S.Shamshath Begum
  - Mrs Shahitha Parveen
  - Mrs Sindhu K P
  - Mrs R Daulath Banu
- The following faculty members of the department participated in one week Workshop on “**Strategies for innovative and quality research**” during 31<sup>st</sup> July - 5<sup>th</sup> August 2017 at BSACIST
- Mr Basanta Kumar Behera
  - Dr.S.Shamshath Begum
  - Mrs Shahitha Parveen
  - Mr D Murali Manohar
  - Mrs Sindhu K P
  - Mrs R Daulath Banu
- The following faculty members participated in the international conference on “**Advances in Design materials, Manufacturing and surface**”

**engineering”** for mobility (ADMMS 2017) at BSACIST during 19<sup>th</sup> - 21<sup>st</sup> July 2017.

- Dr.S.Shamshath Begum
  - Mrs Sindhu K P
- The following faculty members participated in one week faculty development program on **“Research methodology and data analysis using SPSS and AMOS”** organized by department of management studies, BSACIST from 13<sup>th</sup> to 19<sup>th</sup> July,2017.
- Dr.S.Shamshath Begum
  - Mrs Shahitha Parveen
  - Mrs Sindhu K P
  - Mrs R Daulath Banu

**Papers Published/ Presented In Journals & Conferences**

National Conference	International Conference	National Journal	International Journal	Total
-	2	-	1	3

**Details of Publication in National & International Journals &Conferences:  
International Journal**

- J.Shahitha Parveen, S.S.M Abdul Majeed, K.P.Sindhu and R.Daulath Banu, “High Performance poly (vinylidene fluoride – co – hexafluoropropylene) based electrospun polyelectrolyte for lithium-ion battery”, Materials Express, Vol 8, pp. 77-84, 2018.

**International Conference**

- J. Shahitha Parveen and S.S.M Abdul Majeed“Development of nanofibrous polyelectrolyte for lithium rechargeable batteries” Proceedings of International conference on Nanoscience and Nanotechnology (ICONN 2017) August 2017.
- K.P.Sindhu and S.S.M.Abdul Majeed “Electrochemical characteristics of polypyrrole based electrode and electrolyte for electrochemical double layer supercapacitor” Proceedings of Second International Conference on Electrochemical Science and Technology, ICONEST - 2017”, Indian Institute of Science, Bengaluru,August 2017

### 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

### Faculty Internships

- Mrs Sindhu K P had undergone three days training “**Train The Trainer (TTT)**” program organized by Rubber Skill Development Council from 21<sup>st</sup> to 23<sup>rd</sup> September 2017 at Hotel Vijaya Park, Chennai.

### Achievements of Students

#### Workshop/ Seminar/ Guest Lecture /Expo attended by students

- The following students of second year Polymer Engineering participated in two days training course on “**Compounding and testing of rubber products**” organized by Indian Rubber manufacturers research association at Hotel Vijay Park Chennai on 12<sup>th</sup> to 13<sup>th</sup> October 2017.
  - B.Harish Kumar
  - Mohammed Thaseen Ahamed
  - Azeez Taher
  - R.Gopinath
- B.Harish Kumar Mohammed Thaseen Ahamed of second year Polymer Engineering participated in three days exhibition and workshop on tyre “**Tyrexpo2017**” from 11<sup>th</sup> July 2017 to 13<sup>th</sup> July 2017 at Chennai Trade Center, Nandambakkam.
- Final year students attended a Guest lecture on “ Supply Chain Management Polymer Industry Perspective” by Mr.R.Stalin, Regional Manager - Marketing, Konkan Speciality Polyproducts Pvt Ltd, Chennai on 24.4.2018



- A Guest lecture on “Advanced Technology Chemicals used in Concrete Admixture and Waterproofing” by Mr.M.Manikandan, Forsoc Chemicals (India) Pvt Ltd, Chennai was organized on 23.3.2018 for students.



- A Guest lecture on “Emerging Technologies in Injection Moulding” by Mr.Padmanaba Bhat, Head – Marketing and Customer Care, Toshiba Machine (Chennai), Pvt Ltd was organized on 16.3.2018 for students.





### Sports Events attended by students

S.No.	Student Name	Event	Name of the Tournament	Date
1.	L.Mahesh - IV year, N.Gopinath - III year	Ball Badminton	Won the <b>Runners Up</b> Position 10th State Level Silver Jubilee Trophy Ball Badminton (Men)Tournament Finals, organized by the <b>Department of Physical Education, BSAR Crescent Institute of Science and Technology.</b>	24 <sup>th</sup> January 2018
2.	P.V.S.N. Jayalakshmi - III year	Women Team Ball Badminton	Secured the <b>Third Position</b> in 10th State Level Silver Jubilee Trophy Ball Badminton (Women) Tournament finals, organized by <b>Department of Physical education, BSAR Crescent Institute of Science and Technology.</b>	24 <sup>th</sup> January 2018
3.	P.V.S.N. Jayalakshmi - III year	Women Team Ball Badminton	<b>Represented Andhra Pradesh State and won the fourth Place in the Senior National Ball Badminton Championship-</b> 2018 organized by Ball Badminton Federation of India at Gurugram, Haryana State	5 <sup>th</sup> –9 <sup>th</sup> January 2018
4.	P.V.S.N. Jayalakshmi - III year	Women Team Ball Badminton	Participated and Won <b>Fourth Position in the Inter Collegiate Sportsfest - 2017</b> Tournaments Organised by IIT, Madras from in Shuttle Badminton (Women)	20 <sup>th</sup> & 24 <sup>th</sup> September - 2017
5.	P.V.S.N. Jayalakshmi - III year	Women Team Ball Badminton	Ball Badminton (Women) Team Participated and won the <b>Fourth Position in the All India State level SRM Founder's Trophy Ball Badminton Tournament -2017</b> Organised by SRM University , Potheri from	2 <sup>nd</sup> - 24 <sup>th</sup> August -2017

## Developmental Activities

**Oscillating Disk Rheometer (ODR)** for studying rubber curing characteristics was reconditioned in the rubber processing lab in the month of January, 2018.

## Industry / Institute Collaboration

### Industrial Visit:

Third and Final year students of Polymer Engineering visited **PolyHose**, on 3<sup>rd</sup> November, 2017.



Third and Final year students of Polymer Engineering visited **JKFenner India Limited, Sriperumbudur, Chennai** on 19<sup>th</sup> March 2018.



First year students of Polymer Engineering visited **JK Fenner India Limited**, Sriperumbudur, Chennai on 27<sup>th</sup> March 2018.

### **Inplant Training:**

- Following **3<sup>rd</sup> year** students of Polymer Engineering attended In plant training for two weeks from 26<sup>th</sup> December 2017 to 8<sup>th</sup> January 2017 at **“Motherson Automotive Technology and Engineering ”** Sri perumbudur.
  - Mohammed Ali Khan
  - Jaffer Sathick.J
- Following **3<sup>rd</sup> year** students of Polymer Engineering attended In plant training for two weeks from 7<sup>th</sup> July 2017 to 28<sup>th</sup> July 2017 at **“Arun Plasto Moulders India Pvt Ltd”** Sri perumbudur.
  - Harish Kumar.M.S
  - R. Gopinath
  - Mohammed Thaseen Ahamed
- Following Third year students of Polymer Engineering attended In Plant Training from 6<sup>th</sup> – 15<sup>th</sup> July 2017 at **“Motherson Automotive Technology and Engineering ”** Sri perumbudur
  - Chandrasekhar.C.R
  - Ramanathan.P.S
  - Vishwesh.L
- As a part of RSDC training, the department of polymer engineering arranged training on **“Specialized Training in Rubber Technology”** for Final year students at **Rubber training institute, Rubber Board, Kottayam, Kerala** from 2<sup>nd</sup> January 2018 to 6<sup>th</sup> January 2018.





- **Mr.Premnath, Head Technology- Engine Systems Solutions, JK Fenner (India) Limited, Mr.Srihari DGM-HR, JK Fenner (India) Limited and Mr.Sundar, JK Fenner (India) Limited**, visited the department to organize Inter-college Project Presentation competition titled “Fennovation **2018**” on the theme of “ **Polymer Engineering and its applications in Auto & Industrial**”on 1<sup>st</sup> February 2018. Following students participated in the first round.

Team No.	Team Members	Project Title
1	Faizal Ali .S Viswesh.L Ramanathan .P.S	Portable Instant Drinking Water Purifier
2	Karunagaran. M Someshwaran N.T	Polymer nanocomposite based energy storage system for hybrid electric vehicles <b>(Selected for second round)</b>
3	Nareendran R Mujahid I Mohammed Asmathdeen M	High Impact Thermoplastic elastomers (TPE) for Automobile and Industrial Application <b>(Selected for second round)</b>
4	Prashanth.J Taqib Abdur Rahman.S	Conducting Carbon Metal Nanocomposite from Yard Waste Leaves for Electrode and Capacitor Application
5	Mohammed Ibrahim.A	Fire Extinguishing Shell
6	Shadab Sabir Roshiny Jehan	Chemical Modification of PP for 3D Printing in Industrial Application

- As a part of corporate branding **Mr. Srihari, DGM-HR of JK-Fenner** visited the department of Polymer Engineering to interact with our students and to explore the possibility of internship and placement on 28<sup>th</sup> November 2017.
- With the guidance of Ms.K.Sindhu, Assitant Professor the final year students **Mr. M. Karunagaran and Mr. Someshwaran N.T**, received **First Prize with a cash ofRs.15000/- and trophy** for the project titled “**Polymer nanocomposite based energy storage system for hybrid electric vehicles**” on 27.03.18 held at **JK Fenner (India) Limited, Chennai**.



### **MoUs Signed**

- An Memorandum of Understanding (MoU) was made on April 22,2017, between the department of polymer engineering, BSAR Crescent Institute of science and technology and Rubber Skill Development

Council, functioning under National Skill Development Council of India. **Mr.Vinod T.Simon, Chairman, Rubber Skill Development Council** represented RSDC in the function.



### **Extension Activity Conducted**

Consultancy work is being carried out for various institutions and industries (Ka latex, Ford India Ltd, Rajalakshmi Engineering College, Emerald Resilient Tyre, PSG Coimbatore, Cummins college, Pune, SVCE-Chennai etc.) amounting **Rupees One Lakh.**

### **Important Visitors**

- **Mr.Premnath**, Head Technology- Engine Systems Solutions, JK Fenner (India) Limited
- **Mr.Srihari**, DGM-HR, JK Fenner (India) Limited
- **Mr.Sundar**, JK Fenner (India) Limited
- **Mr.Palaninathan**, JK Fenner (India) Limited
- **Mr.Vinod T.Simon**, Chairman, Rubber Skill Development council
- **Dr.Arun Kumar**, Vice president, R&D, POCL Enterprises Ltd., Chennai
- **Mr. Arul Selvan**, Assistant General Manager, L&T Technology Services, Chennai.
- **Mr. T. Veeraraghavan**, CEO, Abirami Industries, Gumudipoondi, Chennai.
- **Mr. Ramakrishnan**, Head-Compounding, Apollo Tyres, Oragadam, Chennai.

## Other Information

### Lectures Delivered by faculty

- Dr.S.S.M.Abdul Majeed, delivered a lecture in the National Conference on “**Recent Trends in Functional Materials**” organized by department of Physics, BSAR Crescent Institute of science and technology on 5th & 6th December 2017.
- Dr S.Shamshath Begum, delivered a lecture on “**Applications of Nanotechnology**” in a Two weeks FDP programme on “**Nano instrumentation systems and Biomedical nanotechnology**” organized by the department of electronics and instrumentation, BSAR Crescent Institute of Science and Technology on 3rd November 2017.
- **Dr.Bikash Chandra Chakraborty**, delivered a lecture in a Technical Symposium on the topic “**Air independent propulsion system based on fuel cell**”, on 17th March 2018 in the department of Chemical Engineering, , NIT Calicut .
- **Dr.Bikash Chandra Chakraborty**, delivered a lecture on the topic, “**Polymeric composites for marine applications**”, on 2nd February 2018 in a two days National Level Workshop on " **Advanced composite materials - A research perspective**" organized by the Department of Mechanical Engineering, BSAR Crescent Institute of Science and Technology.

### Papers Presented by Students:

- Final year students **C. R. Chandrasekar, Vijay Dhujan.A and V.Sangavi** presented paper titled “**Biocomposite based on PLA**” in “**PANSOPHY'17**”, National Level Student Technical Symposium organized by Department of Chemical Engineering, Sri Venkateswara College of Engineering, Chennai on 27<sup>th</sup> September 2017
- Final year students **R. Narendran and Faizal Ali .S** presented paper titled “**Polyelectrolyte for Lithium ion battery** ” in “**PANSOPHY'17**”, National Level Student Technical Symposium organized by Department of Chemical Engineering, Sri Venkateswara College of Engineering, Chennai on 27<sup>th</sup> September 2017.

- Final year students **C. R. Chandrasekar, Vijay Dhujan.A, R. Narendran and Faizal Ali** participated in the technical events of “**JETCHEM 2017**” National Level Technical Symposium organized by Department of Chemical Engineering, St Josephs College of Engineering on 9<sup>th</sup> September 2017.

**Students Placement Record: (Details of students passed out in May 2018)**

Sl. No.	Name	RRN	Placed in campus/Off campus/ Self employed/Higher Studies	Designation/Course Pursuing /Type of Self employment	Name of the organization/Name of The Institution
1.	CHANDRA SEKAR.C.R	140131601007	In campus	GET	Bhansali Engineering Polymers Ltd
2.	FELCIA CHARLOTTE. B.	140131601009		Team X mold - Member	X mold Polymers Ltd
3.	MUJAHID. I.	140131601023		GET	Bhansali Engineering Polymers Ltd
4.	NAREENDRAN. R.	140131601024		GET	Bhansali Engineering Polymers Ltd
5.	ROSHINY JEHAN	140131601027			Ismath Rubbers
6.	SOMESHWARAN. N. T.	140131601031		GET	Bhansali Engineering Polymers Ltd
7.	VISWESH. L.	140131601035		GET	Apollo Tyres Limited

## **DEPARTMENT OF MANAGEMENT STUDIES**

### **New Programmes Started**

BBA (Financial Services)

### **Training Programmes Offered**

Organized a Training programme on "Social Entrepreneurship" on 1st and 2nd of August 2017. Professor Razmi Chic, Director (Malaysian Academy of SME) & Director (Entrepreneurship Training, Research and Education), UiTM Mara was the principal trainer for this programme.

### **Conferences / FDP / Seminars / Workshops Conducted**

- Dr. Haider Yasmeen (Chairperson), Dr. N. Anuradha (Convener), Dr. Khalid Waheed and Mrs. N. Rajapriya (Coordinators) organized a one day regional seminar on "Case study writing and Case teaching methods" on 4th January, 2018.
- Dr. Haider Yasmeen (Convener), Dr. L. Aravindh Kumaran and Dr. S. Panboli (Coordinators) organized a National Conference on "Higher Education and Career Opportunities" on 10th October 2017. Around 200 delegates from other Institutions participated in the conference.
- Dr. Haider Yasmeen (Convener), Mr. V. Charlie Thomas and Mrs. J. Hemalatha (Coordinators) organized an MDP on Corporate Social Responsibility titled "Leveraging on CSR for Creating Shared Value" on 6th October, 2017.
- Dr. Haider Yasmeen (Convener) and Dr. Madhavi Karnam (Coordinator) organized a seminar on "Reminiscence - 2017 - Bridging the Industry - Academia Gap" on 23rd September 2017.
- Dr. Haider Yasmeen (Convener) and Dr. S. Panboli (Coordinator) organized a workshop on "Skill EXCEL" on 25th July 2017 & 27th July 2017.
- Dr. Haider Yasmeen (Convener), Dr. L. Aravindh Kumaran and Dr. S. Panboli (Coordinators) organized a Faculty Development Programme

(FDP) on “Research Methodology and Data analysis using SPSS and AMOS” from 13th to 19th of July 2017.

- Dr. S.K.G. Ganesh (Convener) and Mrs. T. Rocky Devi (Coordinator) organized a workshop on "Employability Skills required for managers" in association with Madras Management Association under students chapter on 10th April 2017.
- Dr. S.K.G. Ganesh (Convener), Dr. L. Aravindh Kumaran, Dr. Jamal Mohamed Zubair and Mrs. J. Hemalatha (Coordinators) organized a workshop on 'Entrepreneurship Orientation Programme' in association with NSIC TSC on 20th March 2017.
- Dr. S.K.G. Ganesh (Convener) and Mrs. T. Rocky Devi (Coordinator) organized a workshop on "Entrepreneurship and Soft Skills" in association with Madras Management Association under students chapter on 2nd March 2017.

#### **Conferences / FDP / Seminars / Workshops Attended**

- Dr. Haider Yasmeen attended the International Conference on “Sustainability and Business (SUSBUS 2018)”, organized by IIM, Calcutta, on 13<sup>th</sup> and 14<sup>th</sup> January 2018.
- Dr. Haider Yasmeen and Dr. L. Aravindh Kumaran attended the Conference on "OPS 4.0: Operations in a Digitally Disrupted World” organized by Crescent School of Business on 13<sup>th</sup> October 2017.
- All faculty members of the department attended the National Conference on “Higher Education and Career Opportunities” organized by Department of Management Studies, BSACIST on 10<sup>th</sup> October 2017.
- Dr. L. Aravindh Kumaran, Dr. S. Panboli, Mrs. N. Rajapriya and Mrs. T. Rocky Devi attended the 7th International Conference on “Social Science Research for Sustaining Business & Economy in Global Market” organized by Sri Sairam Institute of Management Studies on 20th & 21st September 2017.
- All faculty members of the department attended the Faculty Development Programme (FDP) on “Research Methodology and Data analysis using SPSS and AMOS” organized by Department of Management Studies, BSACIST from 13th to 19th July 2017.



- Dr. Haider Yasmeen, Mrs. N. Rajapriya and Mrs. T. Rocky Devi attended the One day HR Conclave, "Inspire 2017 - Current and Futuristic Practices in HR" organized by Crescent School of Business on 9th May 2017.
- All women faculty members of the department attended the workshop on "Capacity building of women in Higher Education" organized by Women Empowerment Cell, BSACIST on 1st April 2017.
- Dr. L. Aravindh Kumaran, Dr. Jamal Mohammed Zubair, Mrs. N. Rajapriya and Mrs. T. Rocky Devi attended the International Conference on "National Development through Innovations in Management, Science and Technology (Two days conference)" organized by Shastra University on 10 & 11 March 2017.

#### **Papers Published/ Presented In Journals & Conferences**

National Conference	International Conference	National Journal	International Journal	Total
1	19	-	31	51

#### **Details of publication in National & International Journals & Conferences: (IEEE Format)**

##### **International Journal:**

- Mahalakshmi T.N and N. Anuradha, "A gender Based Study on the Impact of Culture in investment decision making", Management Today, Vol. 8 No 1, pp. 53-56, 2018.
- Mahalakshmi T.N and N. Anuradha, "Factors affecting investment decisions making & investment Performance among individual investors", International Journal of Pure and Applied Mathematics, Vol. 118 No 18 pp. 1667-1675, 2018
- Mahalakshmi T.N and N. Anuradha, "Application of the theory of planned behaviour in online trading a conceptual study", Shanlax International Journal of Management, Vol. 5 No 2, pp. 135-139, 2018.
- Mahalakshmi T.N and N. Anuradha, "Gender based study on the Implications of Behavioral Biases in Investment Decision making",

International Journal on Global Business Management and Research, Vol. 7 (1), pp. 35-43, 2018.

- Amir Ahmad Dar and N. Anuradha, “An application of Taguchi L9 method in Black Scholes model for European call option”, International Journal of Entrepreneurship, Vol. 22 No 1, pp. 1-13, 2018
- Wasiullah Shaik Mohammed and Waheed Khalid, “Interest-free Microfinance in India: A Case Study of the Al-Khair Cooperative Credit Society”, Journal of King Abdulaziz University: Islamic Economics, Vol. 31 (1), pp. 47 – 66, 2018
- Nirmala Raghavan and S.Panboli, “Measuring Emotional Intelligence of School Children - A pilot Study”, International Journal of Research in Humanities, Arts and Literature, Vol. 6 No 1, pp. 207 – 217, 2018.
- Fathima Zarin and Haider Yasmeen, “Predictive policing in Tamil Nadu using R analytics”, Journal of Advanced Research in Dynamical and Control Systems, Vol. 15 (Special), pp. 337 – 340, 2017
- Amir Ahmad Dar and N. Anuradha, “Design of Experiment on Probability of Default”, International Journal of Pure and Applied Mathematics, Vol.118 No 10, pp. 303-315, 2017
- Amir Ahmad Dar and N. Anuradha, “Use of orthogonal arrays and design of experiment via Taguchi L9 method in probability of default”, Accounting, Vol.1, pp. 1 – 10, 2017.
- S. Thilagavathy and S. Panboli, “A study on identifying individual's ability to balance work and life - Special reference to Academicians”, Journal of Advanced Research in Dynamical and Control Systems, Vol. 15 (Special), pp. 994 – 950, 2017
- Raed Mohammed Ali Al-Daoar and Jamal Mohamed Zubair, “Understanding patient’s choice of hospital: An interpretive study”, Vol. 2 No 7, pp. 143 – 148, 2017.
- Takhellambam Rocky Devi and L. Aravindh Kumaran, “Academicians' Job burnout at Private University: An Empirical Study”, Journal of Advanced Research in Dynamical and Control Systems, Vol. 15 (Special), pp. 328-332, 2017
- Chandrika Srinivas, “A study on women consumers' preferences with special reference to retail stores”, International Research Journal of Business and Management, Vol. 10 No 8, pp. 2017.

- S. Panboli co-authored a research paper titled “E-WOM: Do brand advocates 'good mouth' on Facebook” and published in Journal of Advanced Research in Dynamical and Control Systems, Vol. 15 (Special), pp. 359 – 364, 2018
- Amir Ahmad Dar and N. Anuradha, “One Period Binomial Model: The risk-neutral probability measure assumption and the state price deflator approach”, International Journal of Mathematics Trends and Technology, Vol. 46 No 4, pp. 246-255, 2017.
- Nirmala Raghavan and S. Panboli, “Effect of Yoga on coping styles: A conceptual Framework”, Journal of Advanced Research in Dynamical and Control Systems, Vol. 15 (Special), pp. 408 – 415, 2017 (Scopus: SJR – 0.136).
- Soundararajan Lakshminarayanan and L. Aravindh Kumaran, “A conceptual Review of Stakeholders Management in Information Technology Projects”, Journal of Advanced Research in Dynamical and Control Systems, Vol. 15 (Special), pp. 298 – 301, 2017
- S. Panboli co-authored a research paper titled, “Assessing Product Recommendations among Facebook Users through Technology Acceptance Model” published in Journal of Advanced Research in Dynamical and Control Systems, Vol. 15 (Special), pp. 124 – 130, 2017
- Rajapriya. N and L. Aravindh Kumaran, “An Empirical Study on impact of leadership styles on Nurses Turnover Intention”, Journal of Advanced Research in Dynamical and Control Systems, Vol. 15 (Special), pp. 436 - 440, 2017
- J. Hemalatha and L. Aravindh Kumaran, “Consumer Demographics and Retail Store Format Choice: An Empirical Study”, Journal of Advanced Research in Dynamical and Control Systems, Vol. 15 (Special), pp. 315 – 320, 2017
- C. Revathy and M. Jamal Mohamed Zubair, “Social networking sites (SNS) and its impact on exploratory buying behavior of sports utility”, Journal of Advanced Research in Dynamical and Control Systems, Vol. 15 (Special), pp. 302 – 307, 2017
- Rupel Nargunam and Anuradha, N., “Market efficiency of gold exchange-traded funds in India”, Financial Innovation, Vol. 3 No 14, 2017.

- S. Panboli co-authored a research paper titled, “Assessing Product Recommendations among Facebook Users through Technology Acceptance Model” and published in Journal of Advanced Research in Dynamical and Control Systems, Vol. 15 (Special), pp. 337 – 340, 2017
- Raed Mohammed Ali Aldaoar and M. Jamal Mohamed Zubair, “A Critical Review of the Service Quality and its Measurement in Indian Health Care Sector”, International Journal of Business and Management Invention, Vol. 6 No 8, pp. 76 – 87, 2017
- C. Revathy and M. Jamal Mohamed Zubair, “The parameters influencing consumer decision making in sports utility vehicle launch event attendance”, International Journal of Science, Engineering and Management, Vol. 2 No 9, pp. 35-38, 2017.
- J. Hemalatha, L. Aravindh Kumaran and V. Vijay Anand, “Store Format Choice in the Indian Grocery Retail Market - An Empirical Study”, International Journal of Economic Research, Vol. 14 No 10, pp. 461-476, 2017
- Sufia Kamal Laskar and N. Anuradha, “Substantive Incubation for Growth and its ICT Impact on MSME”, International Business Management, Vol. 11, pp. 232-236, 2017
- Rajapriya and L. Aravindh Kumaran “Employer Branding and Nurses Retention: Theoretical Framework”, International Journal of Economic Research, Vol. 14 No10, pp. 453-460, 2017
- Takhellambam Rocky Devi and L. Aravindh Kumaran, “A framework on Job Burnout: An Intensive Review”, International Journal of Economic Research, Vol. 14 No10, pp. 443-451, 2017.
- Amir Ahmad Dar and N. Anuradha, “Option Pricing Using Monte Carlo Simulation”, British Journal of Economics, Finance and Management Sciences, Vol. 13 No2, pp. 53-81, 2017.

### **International Conference**

- T.N.Mahalakshmi and N.Anuradha “A Gender Based Study on the Impact of Culture in Investment Decision Making” in the proceedings of International Conference on 5S Strategy, System and Service for Sustainability and Scalability of Business , Pondicherry, 2018.

- Fathima Zarin and Haider Yasmeen “Combining Descriptive and Analytical Approach to build a Model Focused on Student Employability” in the proceedings of International Conference on Economic Transformation with Chennai,2018 **(Won 'Best Paper Award')**.
- Amitha Babu and Haider Yasmeen “An upshot of creating shared value: A case study on Equitas Small Finance Bank” in the proceedings of International Conference on Sustainability and Business (SUSBUS 2018), IIM, Calcutta, 2018.
- Fathima Zarin and Dr. Haider Yasmeen presented a paper titled “Predictive policing in Tamil Nadu using R analytics” in the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) Chennai,2017 **(Won 'Best Paper Award')**.
- Amir Ahmad Dar and N. Anuradha presented a paper titled “Value at risk using statistical methods”, International Conference on applied science, engineering, technology and management, Hyderabad, 2017.
- Raed Mohammed Ali Abdo Al-Daoar and M. Jamal Mohamed Zubair presented a paper titled “Service quality and its impact on Patience choice and loyalty” in the International conference on innovation and sustainability in business and management,Chennai, 2017.
- S. Thilagavathy and S. Panboli presented a paper titled “A study on identifying individual's ability to balance work and life - Special reference to Academicians” in the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) Chennai ,2017 **(Won 'Best Paper Award')**.
- S. Panboli co-authored a research paper titled “E-WOM: Do brand advocates 'good mouth' on Facebook” for presentation in the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) Chennai, 2017.
- S. Panboli co-authored a research paper titled, “Assessing Product Recommendations among Facebook Users through Technology Acceptance Model” for presentation in the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) Chennai, 2017.

- Nirmala Raghavan and S. Panboli presented a paper titled “Effect of Yoga on coping styles: A conceptual Framework” in the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) Chennai, 2017 **(Won 'Best Paper Award')**.
- Takhellambam Rocky Devi and L. Aravindh Kumaran presented a paper titled “Academicians' Job burnout at Private University: An Empirical Study” in the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) Chennai, 2017.
- Soundararajan Lakshminarayanan and L. Aravindh Kumaran presented a paper titled “A conceptual Review of Stakeholders Management in Information Technology Projects” in the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) Chennai, 2017.
- Rajapriya. N and Dr. L. Aravindh Kumaran presented a paper titled “An Empirical Study on impact of leadership styles on Nurses Turnover Intention” in the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) Chennai, 2017.
- Hemalatha, J and Aravindh Kumaran, L. presented a paper titled “Consumer Demographics and Retail Store Format Choice: An Empirical Study” in the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) Chennai, 2017.
- Revathy, C. and Jamal Mohamed Zubair, M presented a paper titled “Social networking sites (SNS) and its impact on exploratory buying behavior of sports utility” in the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) Chennai, 2017.
- Panboli, S. co-authored a research paper titled, “Assessing Product Recommendations among Facebook Users through Technology Acceptance Model” for presentation in the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) Chennai, 2017.
- Rajapriya, N and Aravindh Kumaran, L. presented a paper titled “Employer Branding and Nurses Retention: Theoretical Framework” in the International

Conference on National Development through Innovations in Management, Science and Technology, Thanjavur, 2017.

- Takhellambam Rocky Devi and L. Aravindh Kumaran presented a paper titled “A framework on Job Burnout: An Intensive Review” in the International Conference on National Development through Innovations in Management, Science and Technology, Thanjavur, 2017.
- Syed Azamussan, L. Aravindh Kumaran presented a paper titled “The Antecedents of Online Customer Loyalty: A Conceptual Framework” in the NASMMEI Summer Marketing Conference on Creating Customer Value Indian Institute of Management, Indore, 2017.

### National Conference

Amir Ahmad Dar and N. Anuradha presented a paper titled “Effects of parameters on Black Scholes Model for European put option using Taguchi L27 method” in the National Conference on Recent trends in mathematics and its applications Chennai, 2018.

### Details of Impact Factor Of The Publication H-Index

A) Range	0.253 – 0.1
B) Average	0.159
C) H-Index	7.7
D) No. In Scopus	19

### Sponsored Research (Ongoing / Applied /Completed)

Dr. Haider Yasmeen, Prof. and Head carried out an industry consultancy on Corporate Social Responsibility for M/s. GGS Infotech, Chennai for an amount of Rs. 50,000/-. An MDP was also organized as a part of consultancy assignment.

S.No.	Principal Investigator	Funding Agency	Project Title	Amount (Rs)	Status
1.	Dr. Haider Yasmeen, Prof. and Head	M/s. GGS Infotech, Chennai	“Leveraging on CSR for Creating Shared Value	50,000/-	Completed



### **International visits by Faculty / Students**

Dr. Haider Yasmeen/Prof and Head, was deputed to visit UiTM, Mara on a four day business trip from 9<sup>th</sup> July to 12<sup>th</sup> July 2018 to explore possibilities of joint collaboration.

### **Faculty Internships**

Mr. Charlie Thomas, Assistant Professor (Senior Grade) underwent an industry internship at Procon Instrumentation Pvt. Ltd. from 25<sup>th</sup> May to 30<sup>th</sup> may 2017.

### **Achievements of Staff**

Dr. Haider Yasmeen, Prof. and Head has **won two best paper awards** in International Conference for Paper presentation as listed below

- Fathima Zarin and Dr. Haider Yasmeen received the **best paper award** for the paper titled “Combining Descriptive and Analytical Approach to build a Model Focused on Student Employability” during the International Conference on Economic Transformation with Inclusive Growth organized by Rajalakshmi Engineering College, 2018.
- Fathima Zarin and Dr. Haider Yasmeen received the **best paper award** for the paper titled “Predictive policing in Tamil Nadu using R analytics” during the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) organized by Sri Sairam Institute of Management Studies, 2017.
- Dr. S. Panboli, Associate Professor has **won two best paper awards** in International Conference for Paper presentation as listed below
- S. Thilagavathy and S. Panboli received the **best paper award** for the paper titled “A study on identifying individual's ability to balance work and life - Special reference to Academicians” during the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) organized by Sri Sairam Institute of Management Studies, 2017.

- Nirmala Raghavan and S. Panboli received the **best paper award** for the paper titled “Effect of Yoga on coping styles: A conceptual Framework” during the 7th International Conference on social science research for sustaining business and economy in Global market (ICSRSBEGM - 17) organized by Sri Sairam Institute of Management Studies, 2017.

### **Achievements of Students**

- Runner Up (M) and third place (F) in 10th State Level Silver Jubilee Trophy Ball Badminton Tournament, Chennai, 2018.
- Overall runner in Ethoz, Annual Level Management Meet, Sri Ramachandra University, Chennai, 2017.
- A group of students won second prize in Business Plan, National Level Management Fest, SSN School of Management, Chennai, 2017.
- A group of students won second Prize in Ad-Zap, National Level Student Convention, Tagore Engineering College, Chennai, 2017.
- A group of students won first place in Business Plan, National Level Management Meet, Sastra University, Chennai, 2017.
- A student won 2nd place in Business Plan, E- Square, Ethiraj College for Women , Chennai, 2017 (M).
- Won third place representing Tamil Nadu State in Senior National Ball Badminton Championship, Haryana, 2017 (F).
- Won third place in Basket Ball, Indian Institute of Technology Madras, Chennai, 2017.

### **Industry / Institute Collaboration**

- Participated in “Bridge 2018 – The Future of Work”, organized by ICT Academy at ITC Grand Chola on 28<sup>th</sup> March 2018.
- Six industry experts handled a total of eight full courses for the present final year students of MBA in trimesters 4 and 5.
- A total of six industry visits were organized for the first and second year students of MBA to Woory Automotives India Pvt. Ltd. (18.03.2017 & 01.04.2017), BHEL, Ranipet (09.09.2017 & 16.09.2017), Hatsun Agro Products Ltd. (08.11.2017 & 09.12.2017), TI Metal Forming (16.12.2017),

Fortune Select Grand (09.01.2018) and Rane NSK Steering Systems Pvt. Ltd. (19.01.2018).



### **Society Activities**

Joy of giving – DAAN UTSAV for Canteen Staffs was organized by the Human Resource Development Club of the department

### **Extension Activity Conducted**

All the events conducted by the school have been listed under Conferences / FDP / Seminars / Workshops conducted section.

### **Important Visitors**

- Professor Razmi Chic, Director (Malaysian Academy of SME) & Director (Entrepreneurship Training, Research and Education), UiTM Mara visited and was the resource person for the training programme on “Social Entrepreneurship”.
- Mr. Kalyana Sundaram, IAS Officer (Retd.), Director - Excell Career IAS Academy visited and was the resource person for the National Conference on “Higher Education and Career Opportunities”.

### **Any Other Information**

- Dr. Haider Yasmeen has received MHRD grant to organize “Vice Chancellor’s Training Programme for University Administration and Management” from July 30<sup>th</sup> to August 2<sup>nd</sup> 2018. The Center for Leadership, Department of Management Studies, Crescent School of Business will be hosting the training programme. The training programme is intended for Vice Chancellors and prospective Vice Chancellors across the globe.

## **CRESCENT SCHOOL OF ARCHITECTURE**

### **New Programmes Started**

B.Des Interior Architecture

### **Value Added Programmes Started**

Skill development & Allied design studio

### **Conferences / FDP / Seminars / Workshops Conducted - 14**

- I. Bamboo workshop conducted in our institution.
- II. Presentation workshop has been conducted by Ar.Chibi
- III. Conducted a seminar on “conceptualisation in architecture” by Ar.Nandha devi .
- IV. Seminar on the topic “Role of roads in urban area” by Ar.Kavitha Selvaraj from CRN architects.
- V. Paper recycling workshop by Ar.Deepa.
- VI. Seminar on "Design pedagogy" by Ar. Jinu.
- VII. All about design “by Prof.N Althaf Ahmed, Director, MEASI Academy of Architecture on 9<sup>th</sup>February 2017.
- VIII. “Urban development culture landscape heritage and ecology on water front” by Ar.Laura Verdelli from Austria on 2<sup>nd</sup>March 2017.
- IX. “Earth sake” by Dr.Sultan Ahamed Ismail on 10<sup>th</sup>March 2017.
- X. “HVAC System” by Mr.Seshadri on 9<sup>th</sup> September 2016 for third years (batch 2014-2019).
- XI. “Entrepreneurship for architects” by Mr.Bhupesh Nagaraj , Executive director India project development pvt ltd
- XII. Workshop on painting and sculpture by Artist Prabhakaran (batch 2016-2021)
- XIII. Two days Workshop on model making by Artist Manoharan (batch 2016-2021)
- XIV. Seminar on “Steel Structures” by Mr.Samsudeen from Thaj Engineering.

## Conferences / FDP / Seminars / Workshops Attended – 04

- I. Ar.Jansi and Ar.Praveen attended 5 days, national level faculty development program on “Architectural design pedagogy” held in Thiagaraja college of Engineering, Madurai in December-2017
- II. Ar.Kokila and Ar.Ramya attended 5 days, faculty development program on “Value based Management” held in Sathyabama University. September-2017
- III. Ar.Ramya has attended a conference held in Sathyabama university- ICSTBE 2017.
- IV. Ar.Milan and Ar.Ramani has attended workshop held by IGBC. July 2017
- V. Ar.Archana and Ar.Saritha has attended GRIHA workshop in October 2017.

## Papers Published/ Presented In Journals & Conferences

National Conference	International Conference	National Journal	International Journal	Total
01	06	05	-	13

- Ar. Sathya and Ar. Milan on “Addressing changing culture context through Architectural study with an example, Thanjavur”.
- Ar. Salman and Ar. Praveen on “Use of social networking tools in architectural education as a part of digital pedagogy”.
- Ar. Syed Ali fathima and Ar. Aarthy on “The role of Gathering spaces in a society: Humanizing the inhuman.”
- Ar. Diwari and Ar. Vijay on “Architecture as a social art in the age of network society: virtual spaces”.
- Ar.Rekha and Er.Vinu on “Advantages of using effective technological tools for students education”.
- Ar. Kokila and Ar. Ramya have published their research abstract & presented their paper on “Sustainable tall buildings” in *ICSTBE-2018* conducted by *Sathyabama university*.

Paper selected for Publication in the International conference to be held in Nagpur- in March 2018

“PARADOX TO PARADIGM Architecture in the age of Network society - An international conference“ by SMT.Manoramabai mundle college of architecture – Nagpur. In which 6 research papers have been shortlisted and submitted for publication by faculties of Crescent School of Architecture.

S. No	Author	Paper Title	Name of the Conference	Place	Date
1.	Ar. Salman	“Use of Social networking tools in Architecture education as a part of Digital Pedagogy”	“PARADOX TO PARADIGM”, 2018.	Nagpur	March 2018
2.	Ar. Sathya & Ar. Milan Shamili	“Addressing changing culture context through Architectural study with an example, Thanjavur”	“PARADOX TO PARADIGM”, 2018.	Nagpur	March 2018

### Major Equipment Purchased

CNC Cutting machine

### International visits by Faculty / Students

- Visit to Malaysia by Dean- Crescent School of Architecture Prof. G.Jayalakshmi for collaboration with UiTM Mara Malaysia.
- As a part of Student exchange Programme, Students from at UiTM Maura, Malaysia took part in Joint studio programme which was conducted in Crescent School of Architecture.
- As a part of Student exchange Programme, Students from Crescent School of Architecture attended 8 days joint studio programme at UiTM Maura, Malaysia.

### Achievements of Staff

Ar. Ramani and Ar. Milan Shamili have cleared **IGBC AP** certificate.

### Achievements of Students

- Lake restoration project have been taken up as studio project.

- Two of our students participated in **IGBC Green Building design competition 2017**- got Jury commendation.
- Students from Crescent School of Architecture have attended **ZONASA'17** in SRM, Ramapuram.

### **Developmental Activities**

- Infrastructure has been done for architecture department office area interiors.
- Library books has been purchased
- Photography and movie club has been insisted.

### **Industry / Institute Collaboration**

Collaboration with **UiTM Mara Malaysia** for student exchange program.

### **Society Activities**

- Paper recycling workshop.
- Free Model Making Workshop conducted for 12<sup>th</sup> standard students by CSA
- Free 3D software training class conducted for 12<sup>th</sup> standard students by CSA

### **Mous Signed**

- **PLDC- Professional Lighting Design convention**. It is a platform to learn about the latest developments in lighting design.
- Crescent School of Architecture has signed an agreement with E4U who are LEED partners to train our students and prepare them for taking up LEED certification examination.

### **Important Visitors**

- Dr.Sultan ahamed Ismail – Earth sake seminar.
- Ar. Laura Verdelli (International Speaker) from France.
- Ar.Deepa – paper recycling workshop
- Prof. N Althaf Ahmed, Director ,MEASI Academy of Architecture - All about design seminar.



- “Architectural works” by Ar.Krishna Misra, New York on 29th March, 2018.
- “Architectural works” by Ar. Mujib & Ar. Lalita on 26 March, 2018
- “Approach to design” by Ar. Dhanasekaran on 01st March, 2018

### **Other Information**

- **Crescent Canteen Retrofit project** was identified as one of the best projects of the year 2016-2017 by **INDIAN INSTITUTE OF ARCHITECTS (IIA)**. It was published in the IIA book **ARCHITECTURAL FOOTPRINTS - volume 03, 2017**. Competition projects have been introduced as studio projects
- Consultancy cell has been set up for school. Design festo’17- Crescent School of Architecture.
- Design festo’18 was conducted in Crescent School of Architecture.
- Crescent School of Architecture was recently visited by Council of Architecture Expert committee for the Inspection. This Inspection was conducted for the Extension for the approval of the Intake in Crescent School of Architecture.

### **Students Highlights**

- Mr. Ulfath (Batch 2013- 18) Shortlisted in Competition on reinventing Gwalior
- CSA got overall 2<sup>nd</sup> place in SRM FAB fest at SRM University

## **SCHOOL OF PHYSICAL & CHEMICAL SCIENCES**

➤ **Dept. of Physics**

➤ **Dept. of Chemistry**

## DEPARTMENT OF PHYSICS

### Conferences / FDP / Seminars / Workshops Conducted

National Conference on Recent Trends in Functional Materials during Dec 7-8, 2017.

### Conferences / FDP / Seminars / Workshops Attended

- Dr. U. Majitha Parvin attended One week Faculty Development Program on “Research methodology and Data Analysis” organized by Department of Management Studies, B.S. Abdur Rahman University held during July 13-19<sup>th</sup>, 2017.
- Dr. M. Mohamed Shiek Sirajuddeen attended ISO auditors training programme conducted by M/s. TUV SUD, Southasia Ltd. During Dec 11-13, 2017.
- Dr. M. Basheer Ahamed attended ISO auditors training programme conducted by M/s. TUV SUD, Southasia Ltd. During Dec 11-13, 2017.

### Papers Published/ Presented In Journals & Conferences

National Conference	International Conference	National Journal	International Journal	Total
3	12	--	29	44

### Details of Publication in National & International Journals & Conferences: (IEEE Format)

#### International Journal:

1. Kalim Deshmukh, **M. Basheer Ahamed**, K. K. Sadasivuni, D. Ponnamma, R. R. Deshmukh, A. M. Trimukhe, S. K. K. Pasha, A. R. Polu, M. A. A. AlMaadeed and K. Chidambaram, “Solution processed white graphene reinforced ferroelectric polymer nanocomposites with improved thermal conductivity and dielectric properties for electronic encapsulation,” J. Polym. Res. 24:27 (2017).

2. Kalim Deshmukh, **M. Basheer Ahamed**, K. K. Sadasivuni, D. Ponnamma, M. A. A. AlMaadeed, S. K. K. Pasha, R. R. Deshmukh and K. Chidambaram, "Graphene oxide reinforced poly (4-styrenesulfonic acid)/polyvinyl alcohol blend composites with enhanced dielectric properties for portable and flexible electronics," Mater. Chem. Phys. Pp 186:188 ,2017.
3. Kalim Deshmukh, **M. Basheer Ahamed**, K. K. Sadasivuni, D. Ponnamma, M. A. A. AlMaadeed, R. R. Deshmukh, S. K. K. Pasha, A. R. Polu, and K. Chidambaram, "Fumed SiO<sub>2</sub> nanoparticle reinforced biopolymer blend nanocomposites with high dielectric constant and low dielectric loss for flexible organic electronics," J. Appl. Polym. Sci. Vol 134 No 5 pp 44427 2017.
4. Kalim Deshmukh, **M. Basheer Ahamed**, R. R. Deshmukh, K. K. Sadasivuni, D. Ponnamma, S. K. K. Pasha, M. A. A. AlMaadeed, A. R. Polu and K. Chidambaram, "Eeonomer 200F®: A high performance nanofiller for polymer reinforcement-Investigation of the structure, morphology and dielectric properties of polyvinyl alcohol/Eeonomer 200F® nanocomposites for embedded capacitor applications," J. Electron. Mater. Vol 46:2406 ,2017.
5. Kalim Deshmukh, **M. Basheer Ahamed**, R. R. Deshmukh, S. K. K. Pasha, K. Sadasivuni, A. R. Polu, D. Ponnamma, M. A. A. AlMaadeed and K. Chidambaram, "Newly developed biodegradable polymer nanocomposites of cellulose acetate and Al<sub>2</sub>O<sub>3</sub> nanoparticles with enhanced dielectric performance for embedded passive applications," J. Mater. Sci: Mater. Electron. Vol 28 pp 973 2017.
6. M. K. Mohanapriya, Kalim Deshmukh, K. Chidambaram, **M. Basheer Ahamed**, K. K. Sadasivuni, D. Ponnamma, M. A. A. AlMaadeed, R. R. Deshmukh and S. K. K. Pasha, "Polyvinyl alcohol (PVA)/Polystyrene sulfonic acid (PSSA)/carbon black nanocomposites for flexible energy storage device applications," J. Mater. Sci: Mater. Electron, DOI: 10.1007/s10854-016-6287-2, 2017.
7. G. J. Thangamani, Kalim Deshmukh, K. K. Sadasivuni, K. Chidambaram, M. **Basheer Ahamed**, D. Ponnamma, M. A. A. AlMaadeed and S. K. K. Pasha, "Recent advances in electrochemical biosensors and gas sensors based on graphene and carbon nanotubes (CNT): A review," Adv. Mater. Lett. 8:196 (2017).

8. Aqib Muzaffar, **M. Basheer Ahamed**, Kalim Deshmukh, Mohammed Faisal, and S.K. Khadheer Pasha, "Enhanced electromagnetic absorption in NiO and BaTiO<sub>3</sub> based polyvinylidene fluoride nanocomposites", *Materials Letters* 218: 217-220 (2018).
9. Kalim Deshmukh, Sowmya Sankaran, **M Basheer Ahamed**, SK Khadheer Pasha, Kishor Kumar Sadasivuni, Deepalekshmi Ponnamma, Mariam Al-Ali Almaadeed and K Chidambaram, "Studies on the Electrical Properties of Graphene Oxide-Reinforced Poly (4-Styrene Sulfonic Acid) and Polyvinyl Alcohol Blend Composites", *International Journal of Nanoscience*, 17, 1760005 (2018).
10. Gounder J. Thangamani, Kalim Deshmukh, K. Chidambaram, **M. Basheer Ahamed**, Kishor Kumar Sadasivuni, Deepalekshmi Ponnamm, Muhammad Faisal, N. Arunai Nambiraj and S. K. Khadheer Pasha, "Influence of CuO nanoparticles and graphene nanoplatelets on the sensing behaviour of poly(vinyl alcohol) nanocomposites for the detection of ethanol and propanol vapors", *Journal of Materials Science: Materials in Electronics* 29(6): 5186 – 5205 (2018).
11. Kalim Deshmukha , M. Basheer Ahamed , Sowmya Sankaran , S. K. Khadheer Pasha , Kishor Kumar Sadasivuni , Deepalekshmi Ponnamma and Mariam Al-Ali Almaadeed, "Studies on the Mechanical, Morphological and Electrical Properties of Highly Dispersible Graphene Oxide Reinforced Polypyrrole and Polyvinylalcohol Blend Composites", *Materials Today: Proceedings* Vol 5, pp 8744–8752 (2018).
12. R .G Geethu Mani and M. Basheer Ahamed, "Energy transfer studies for the liquid and solid state materials of Rhodamine B and Styryl 7 Dye", *Optik-International Journal for Light and Electron Optics* 154, 566-575 (2018).
13. S.Fathoor Rabbani and I.B.Shameem Banu, "An ab-initio calculation of half-metallic ferromagnetism in vanadium doped ZnS", *J. Alloys Compd.*, 695 (2017) 3131-3138.
14. Sathiya Priya, I. B. Shameem Banu and Zulaikha Mohammed, "Effect of novel (Gd, Cu) substitution on the electrical properties and magnetoelectric coupling of bismuth ferrite ceramics", *J Mater Sci: Mater Electron*, 10854-017-6567-5 (2017).

15. Anthuvan John Peter, I. B. Shameem Banu, "Synthesis and luminescence properties of  $\text{NaLa}(\text{WO}_4)_2:\text{Eu}^{3+}$  phosphors for white LED applications", *J Mater Sci: Mater Electron*, DOI 10.1007/s10854-017-6507-4 2017.
16. Ikram un Nabi Lone, M.Mohamed Sheik Sirajuddeen, I.B.Shameem Banu, and S.Sathik Basha, "Structural, elastic and magnetic properties of Mn and Sb doped chromium nitride- An *ab-initio* study", *Journal of Materials chemistry and Physics*, 192, 291-298, 2017.
17. I.B. Shameem Banu and S. Divya Lakshmi, "Simultaneous enhancement of room temperature multiferroic properties of  $\text{BiFeO}_3$  by Nd doping at Bi site and Co doping at Fe site", *J Mater Sci: Mater Electron Vol 28* pp 16044–1605, 2017.
18. Ikram un Nabi Lone and M.Mohamed Sheik Sirajuddeen, "Half metallic ferromagnetism in zinc and gallium doped chromium phosphide -First principles calculation", *Journal of Materials chemistry and Physics*, Vol 203, pp 65-72, 2017.
19. Suresh Kumar M., Vijayaraghavan G. V and Krishnan S, "Growth, Structural and Mechanical Studies of Solution Grown Strontium Phthalate Single Crystals", *International Journal of Advanced Trends in Engineering and Technology (IJATET)*, Vol 2, No 1, pp 6-10, 2017.
20. Suresh Kumar M, Krishnan S and Vijayaraghavan G. V, "Growth, Structural and Mechanical Studies of ThioureaPhthalic Acid (TPA) Single Crystals by X-ray Powder Diffraction and Vicker's Microhardness Testing", *International Journal of Engineering Sciences & Research Technology*, DOI: 10.5281/zenodo.834548 2017.
21. A.Chithra and I.Raja Mohamed, "Synchronization and chaotic communication in nonlinear circuits with nonlinear coupling", *Journal of Computational Electronics*, Vol 16, pp 241-247, 2018.
22. A.Chithra, I. Raja Mohamed and R. Rizwana, "Observation of chaotic and strange nonchaotic attractors in a simple multi-scroll system", *Journal of Computational Electronics*, Vol 17, pp 51–60 2018.
23. P.Komalavalli and I. B. Shameem Banu, "Enhanced room temperature multiferroic properties of nickel ferrite and lithium niobate nanocomposite", *Journal of Materials Science: Materials in Electronics*, vol. 29, pp. 3980-3984, (2018).

24. Kalim Deshmukh, **M. Basheer Ahamed**, R. R. Deshmukh, S. K. K. Pasha, K. K. Sadasivuni, D. Ponnamma, M. A. A. AlMaadeed, "Striking multiple synergies in novel three-phase fluoropolymer nanocomposites by combining titanium dioxide and graphene oxide as hybrid fillers," J. Mater. Sci: Mater. Electron. Vol 28: pp 559 2017.
25. K. D. Sathapathy, Kalim Deshmukh, **M. Basheer Ahamed**, K. K. Sadasivuni, D. Ponnamma, S. K. K. Pasha, M. A. A. AlMaadeed and J. Ahmad, "High-quality factor poly(vinylidene fluoride) based novel nanocomposites filled with graphene nanoplatelets and vanadium pentoxide for high-Q capacitor applications," Adv. Mater. Lett. 8: 288 2017.
26. Ikram Un Nabi Lone and M. Mohamed Sheik Sirajuddeen, "Half metallic ferromagnetism in gallium and zinc doped chromium phosphide: First principles calculations", Mater. Chem. Phys. Vol 203, pp 65-72 2018.
27. P. Komalavalli and I. B. Shameem Banu, "Enhanced room temperature multiferroic properties of nickel ferrite and lithium niobate nanocomposite", Journal of Materials Science: Materials in Electronics, Vol 29, pp 3980-3984, 2018.
28. R. Rizwana and I. Raja Mohamed, "Strange nonchaotic dynamics of parametrically enhanced MLC circuit", Journal of Computational Electronics, DOI 10.1007/s10825-018-1185-x, Vol 13, 2018.
29. M. Vijayajayanthi, T. Kanna, K. Murali and M. Lakshmanan, "Harnessing energy-sharing collisions of Manakov solitons to implement universal NOR and OR logic gates", Physical Review Vol 97, 060201(R), 2018.

#### **International Conference:**

1. Sowmya Sankarana, M. Basheer Ahamed, Kalim Deshmukh, Muhammad Faisal, S. K. Khadheer Pasha, Kishor Kumar Sadasivuni and Deepalekshmi Ponnamma, "Eco-Friendly Electromagnetic Interference Shielding Materials from Hexagonal Boron Nitride Nanoparticle Reinforced Ferroelectric Polymer Nanocomposites" , International Symposium on Nanomaterials for Clean energy and Health Applications, Coimbatore Institute of Technology December 2017,
2. Aqib Muzaffar, M. Basheer Ahamed, Kalim Deshmukh, Mohammed Faisal and S. K. Khadheer Pasha, "Enhanced Electromagnetic Absorption in Nickel

Oxide and Barium Titanate based Polyvinylidene fluoride Nanocomposites". International Symposium on Nanomaterials for Clean energy and Health Applications, Coimbatore Institute of Technology, December 2017,.

3. Kalim Deshmukh, Sowmya Sankaran, M. Basheer Ahamed, S. K. Khadheer Pasha, Kishor Kumar Sadasivuni, Deepalekshmi Ponnamma, Mariam Al-Ali AlMaadeed and K. Chidambaram, "Studies on the mechanical, morphological and electrical properties of highly dispersible graphene oxide reinforced polypyrrole and polyvinyl alcohol blend composites," in the proceedings of "International Conference on Recent Advances in Material Chemistry (ICRAMC), February 2017, Chennai , India.
4. Sowmya Sankaran, Kalim Deshmukh, M. Basheer Ahamed, S. K. Khadheer Pasha, Kishor Kumar Sadasivuni, Deepalekshmi Ponnamma, Mariam Al-Ali AlMaadeed and K. Chidambaram, "Thermal, Morphological and Electrical Properties of Hexagonal Boron Nitride Nanoparticle Filled Ferroelectric Polymer Nanocomposites," in the proceedings of "International Conference on Recent Advances in Material Chemistry (ICRAMC), Chennai ,February 2017,
- 5.I. B. Shameem Banu, Divya Lakshmi. S, Shahanaz Kossar and Noor Aman Ahrar Mundari, "Substitution driven optical and magnetic properties of neodymium and nickel doped BiFeO<sub>3</sub> ceramics for spintronics applications," in the proceedings of IEEE International Conference RTECC '18, Chennai, March 2018.
- 6.P. Komalavalli and I. B. Shameem Banu, "Investigation of multiferroic properties in nickel ferrite-barium titanate nanocomposites at room temperature," in the proceedings of IEEE International Conference RTECC '18, Chennai, March 2018.
7. Keerthana Muthusamy, Aqib Muzaffar, M. Basher Ahamed, Structural, "Optical and Thermal Properties of Fe(NO<sub>3</sub>)<sub>2</sub> -NiO Nanocomposites" for Photocatalytic Properties in the proceedings of International conference on recent trends in science and technology, Chennai , April 2018.
8. Sowmya Sankarana, M. Basheer Ahamed, Kalim Deshmukh, Muhammad Faisal, S. K. Khadheer Pasha, Kishor Kumar Sadasivuni and Deepalekshmi Ponnamma, Eco-Friendly Electromagnetic Interference Shielding Materials from Hexagonal Boron Nitride Nanoparticle Reinforced Ferroelectric Polymer Nanocomposites in the proceedings of International Symposium on



Nanomaterials for Clean energy and Health Applications, Coimbatore Institute of Technology, December 2017.

9. Aqib Muzaffar, M. Basheer Ahamed, Kalim Deshmukh, Mohammed Faisal and S. K. Khadheer Pasha, Enhanced Electromagnetic Absorption in Nickel Oxide and Barium Titanate based Polyvinylidene fluoride Nanocomposites. International Symposium on Nanomaterials for Clean energy and Health Applications, Coimbatore Institute of Technology, December 2017.
10. M. Vijayalakshmi, U. Majitha Parvin and S. K. Rani "Synthesis and Characterization of Terbium doped ZnO nanoparticles for photocatalytic degradation of Congo Red dye" in the proceedings of International Conference on Recent trends in Science and Technology college, Chennai April 2018.
11. M. Vijayalakshmi, U. Majitha Parvin and S. K. Rani "Study of photocatalytic degradation of Crystal violet dye using Tb doped ZnO nanoparticles" in the proceedings of International Conference on Innovations & Discoveries in Science, Engineering and Technology (ICIDSET-18) Chennai April 2018.
12. Tawfiq Basha, Raja Mohamed I and A. Chithra, "Design and study of Memristor based Non Autonomous Chua's circuit", IEEE digital xplore - 2018, ISBN: 978-1-5386-3476-9/18

#### **National Conference:**

- **Dr. G.V. Vijayaraghavan** presented a paper titled "Enhanced Energy Transfer between Co-dopants Phloxine-B and Borax Carmine with Addition of Silver Nanoparticles" at the National Conference on Advances in Materials and Manufacturing Techniques (NCAMMT- 2017), Department of Mechanical Engineering, SRM University, Chennai, during March 24-25, 2017.
- **Dr. U. Majitha Parvin** presented a paper titled " Investigation of third order optical nonlinearity of Cr doped TiO<sub>2</sub> nanoparticles by Z-scan technique" in the National conference in Recent Trends in functional materials (NCRTFM-2017), Department of Physics, B.S. Abdur Rahman Crescent Institute of Science and Technology during Dec 5-6, 2017.
- **Dr. U. Majitha Parvin** presented a paper entitled "Synthesis And Photocatalytic Activities of Pure and Rare Earth Doped ZnO Nanoparticles for Degradation Of Crystal Violet Dye" in National Symposium on Sustainable

Energy conversion & Storage materials organized by Sathyabama University, Chennai during Apr 26-27, 2018.

### Details of Impact Factor Of The Publication

- A) Range - 1.46 to 3.13
- B) Average – 2.02
- C) H-Index - 17
- D) No. In Scopus: 21

### Sponsored Research (Ongoing / Applied)

S.No	Principle Investigator	Funding Agency	Project title	Amount (Rs.)	Status
1	Dr. M. Basheer Ahamed	DST-SERB	Development of Graphene and Metal Nanoparticles Reinforced Flexible Polymer nanocomposites for Effective Electromagnetic Interference (EMI) Shielding Applications	28,01,000	Ongoing
2	Dr. Vijayajayanthi Young Scientist fellow	DST-SERB	Construction of optical logic gate using soliton collision and study of electrical soliton in nonlinear transmission line.	32.44,000	Ongoing
3	Dr. I.B.Shameem Banu	DST-SERB	Investigation of Multiferroic properties of rare earth and transition metal doped Bismuth Ferrite for functional applications	23,55,300/-	Ongoing
4	Principal Investigator: P.Komalavalli Mentor Dr.I.B.SHAMEEM BANU Professor of Physics BSA crescent univ.	DST-WOS-A WOMEN SCIENTIST PROJECT	Synthesis and Characterisation of multiferroic nano composite for functional applications	17,79,000/-	Ongoing

### Book Published

1. D. Ponnamma, M. M. Chamakh, Kalim Deshmukh, M.**BasheerAhamed**, E. Alper, P. Sharma, M. A. A. AIMaadeed, "Ceramic based polymer nanocomposites as piezoelectric materials," in the Book "Smart polymer nanocomposites", Edited by D. Ponnamma, K. K. Sadasivuni, J. J. Cabibihan, M. A. A. AIMaadeed, Springer International Publications AG (2017).

2. KalimDeshmukh, Sowmya Sankaran, M. **BasheerAhamed**,K. K. Sadasivuni, S. K. K. Pasha, D. Ponnamma, P. S. Rama Sreekanth, K. Chidambaram, “Dielectric spectroscopy”, in the Book “Instrumental techniques to the characterizations of nanomaterials”, Edited by S. Thomas, R. K. Mishra, R. Thomas, A. K. Zachariah, Elsevier Publications (2017).
3. Kalim Deshmukh, **M. Basheer Ahamed**, R. R. Deshmukh, S. K. K. Pasha P. R. Bhagat, K. Chidambaram, “Biopolymer composites with high dielectric performance: Interface engineering”, in the Book “Biopolymer composites in electronics”, Edited by K. K. Sadasivuni, D. Ponnamma, J. Kim, J. J. Cabibihan, M. A. A. AlMaadeed, Elsevier Publications (2017).

### **Achievements of Staff**

- Dr. U. Majitha Parvin, AP (Sel. Gr.) completed Online Certification course on “**Solid State Physics**” offered by NPTEL and came as Topper (Top 2%) during Jul-Oct 2017.
- Dr. U. Majitha Parvin, AP (Sel. Gr.) Secured Gold medal (91%) in the Online Certification course “**Lasers: Fundamentals and Applications**” offered by NPTEL during Jul-Oct 2017.
- Dr. U. Majitha Parvin, AP (Sel. Gr.) completed Online Certification course on “**Fiber Optics**” conducted by NPTEL Online Certification (IIT, Roorkee) and came as Topper (Top 2%) during Jan-Mar 2017.

### **Society Activities**

- Department of Physics organised **One day Awareness Programme in Careers in Physics** for B.Sc. Physics students on 6/03/ 2018.

## DEPARTMENT OF CHEMISTRY

### Interdisciplinary Programmes Conducted

Two days National Conference on Sustainable Clean Water Technology (SCWT2017) organized by the Department of Polymer Engineering, Chemistry and Civil Engineering and School of Life Sciences during 21<sup>st</sup> and 22<sup>nd</sup> August 2017.

### Conferences / FDP / Seminars / Workshops conducted

- Awareness Programme on Careers in Chemistry for the Final year B.Sc. Chemistry students on 27<sup>th</sup> February 2018
- Two day Lecture Workshop On “Chemistry And Its New Dimensions” In Collaboration With Indian Academy Of Sciences, Bengaluru, Indian National Science Academy, New Delhi & The National Academy Of Sciences India, Allahabad organized during 28-29 August 2017.

### Conferences / FDP / Seminars / Workshops attended by faculty members<sup>25</sup>

### Papers Published/ Presented In Journals & Conferences

National Conference	international Conference	National Journal	international Journal	Total
5	12	-	11	28

### Details of Publication in National & International Journals & Conferences:

#### International Journal:

1. M. Vadivelu, A. A. Raheem, S. Sugirdha, G. Bhaskar, K. Karthikeyan, and C. Praveen, “Gold catalyzed synthesis of tetrahydropyrimidines and octahydroquinazolines under ball milling conditions and evaluation of anticonvulsant potency” *Arkivoc*, part iii, pp 90-101.2018
2. R. Meenakshi, K.Shakeela, S. Kutti Rani and G. Ranga Rao, “Oxidation of Aniline to Nitrobenzene Catalysed by 1-Butyl-3- methyl imidazolium phosphotungstate Hybrid Material Using m-chloroperbenzoic Acid as an Oxidant”, *Catal Lett* 148, pp 246–257.2018,

3. R. S. Nathiya, S. Perumal, M. Vajjiravel and V. Raj "Expired drugs: Environmentally safe inhibitors for aluminium corrosion in 1M H<sub>2</sub>SO<sub>4</sub>" Journal of Bio and Tribo Corrosion, vol 4: No 4, pp 1-13.2018
4. S. Sathish Kumar, M. Fazeela, S. Saroj Kumar, S. Kulandaisamy, S. Mahasampath Gowri, S. Hemalatha and K.K.Balasubramanian, "Synthesis, Characterization, in vitro and in silico studies of 4-(2'-Hydroxybenzoyl) and 4-(2'-Hydroxynaphthoyl)-thiabenzene-1-methyl-1-oxide" Synthetic Communications (in press 10.1080/00397911.2017.1411950).
5. M. Vadivelu, S.Sugirdha, P.Dheen Kumar, Y. Arun, K. Karthikeyan and C. Praveen, "Solvent-free implementation of two dissimilar reactions using recyclable CuO nanoparticles under ball-milling conditions: Synthesis of new oxindole-triazole pharmacophores", Green Chemistry, 2017, Green Chemistry, Vol-19, pp 3601-3610.2017
6. M.Malathi, J.Herbert Mabel and R. Rajendran and N. Gowrishankar, "Ni-P Composite Plating on Piston Ring for Improved Wear Performance" SAE Technical Paper, Vol 28 pp 1977, 2017.
7. Devaraj Somasundaram, Kalpattu K.Balasubramanian, Shanmugasundaram Bhagavathy, "Tunable stereoselectivity in the synthesis of  $\alpha$ - and  $\beta$ -aryl glycosides using 1,2- $\alpha$ -anhydrosugars as glycosyl donors" Carbohydrate Research, No 449, pp 95-102.2017
8. M. P. Kesavan, S. Ayyanaar, K. Karthikeyan, G. Rajagopal, P. Athappan and J. Rajesh, "DNA interaction and cleavage studies of ancillary chiral ligand and N,N-donor ligands coordinated platinum(II) complexes", Applied Organometallic Chemistry, e3868, Vol.31, No12, pp 1-12.2017
9. Elumalai Marimuthu and Vajjiravel Murugesan "Influence of ultrasonic condition on phase transfer catalysed polymerization of methyl methacrylate in two phase system-a kinetic study" Ultrasonics Sonochemistry, No 38, pp 560-569.2017
10. Vajjiravel Murugesan, Elumalai Marimuthu, K. S. Yoganand and M. J. Umapathy, "Multi-site transfer catalysed radical polymerization of methyl methacrylate in mixed aqueous-organic medium: a kinetic study" Int. J. Ind. Chem (DOI: 10.1007/s40090-017-0125-0)2017

11. Mariadoss Asha Jhonsi and Arunkumar Kathiravan, "Photoinduced interaction of arylamine dye with carbon quantum dots ensued from *Centella asiatica*" *Journal of Luminescence*, No 192, pp 321–327.

### **International Conference**

1. M. Chandru, R. Meenakshi, Mr. M. Sundar, S. Kutti Rani, D. Easwaramoorthy and I.Mohammed Bilal "Vanadium substituted polyoxometalates its hybrid materials - effects of alkyl chain on dye removal" in the proceedings of International Conference on Emerging Trends in Nanoworld (ICENT -2017) February 2017.
2. Mr. Radhakrishnan Mohan Raj, Kalpattu K. Balasubramanian and. Deivanayagam Easwaramoorthy presented a paper entitled "Diels-Alder trapping of in sites generated dienes from 3,4-dihydro 2H-pyran with p-quinone catalysed by p-toluenesulfonic acid" in the proceedings of International Conference on Emerging Trends in Nanoworld (ICETN-2017) ,February 2017.
3. Ms. R. Saai Harini, Ms. D. Revathi, Ms. D. Tamilarasi and D. Easwaramoorthy presented a paper entitled "Photo bleaching of organic dyes using nano bismuth titanate" in the proceedings of International Conference on Emerging Trends in Nanoworld (ICETN-2017) February 2017.
4. Ms. R. Sasikala, Dr. S. Kutti Rani, Dr. K. Karthikeyan, Dr. D. Easwaramoorthy and Dr. I. Mohamed Bilal presented a paper entitled "Cerium loaded CuO nanoparticles as heterogeneous catalyst for the synthesis of 1,2,3-triazoles under ultrasonification" in the proceedings of International Conference on Emerging Trends in Nanoworld (ICETN-2017) February 2017.
5. Ms. M. Deviga and Dr. Noor Aman presented a paper entitled on "Synthesis of visible light active photocatalysts for efficient organic transformations " in the proceedings of International Conference on Innovative Research in Engineering, Science and Technology 2017 in Eternal University, Himachal Pradesh, April, 2017.
6. Mr. V. Srinivasan and Dr. M. Asha Jhonsi "AIE nanodots ensued from pyrene Schiff and its indispensable applications" in the proceedings of international Conference on Frontier Areas in Chemical Technologies-2017 Karaikudi, July 2017.

7. M. Elumalai and Vajjiravel Murugesan presented a paper entitled "Performance of phase transfer catalysts on radical polymerization of alkyl methacrylate (RMA) in two phase system - a kinetic study" in the international Conference on Frontier Areas in Chemical Technologies-2017 (FACTs-2017) organized by Department of Industrial Chemistry, Alagappa University, Karaikudi , July 2017.
8. J. Paulraj, Dr. Vajjiravel Murugesan and J. Elangovan presented a paper entitled "CuO nanoparticles catalysed synthesis of 1,2,3-triazoles in two phase system – a kinetic study" in the international Conference on Frontier Areas in Chemical Technologies-2017 (FACTs-2017) ,Alagappa University, Karaikudi July 2017.
9. Mr. M. Vadivel, Ms. S. Sugirdha and K. Karthikeyan "TEMPO promoted organo catalysed synthesis of 2-nitro-3-arylimidazo-[1,2a]-pyridines molar solvent free conditions" in the proceedings of International Conference on Frontier Areas in Chemical Technologies-2017 (FACTs-2017), Alagappa University, Karaikudi ,July 2017.
10. D. Gangaprasad, J. Paul Raj, K. Karthikeyan and. J. Elangovan presented a paper entitled "TEMPO promoted oxidative azide-olefin cycloaddition for the synthesis of 1,2,3-triazoles in water" in the international Conference on Frontier Areas in Chemical Technologies-2017 (FACTs-2017),Alagappa University, Karaikudi July 2017.
11. Bharatraj K. and Vajjiravel Murugesan "Design, synthesis and characterization of novel acceptor materials for solar cell applications" in the proceedings of international Conference on Frontier Areas in Chemical Technologies-2017 (FACTs-2017) , Alagappa University, Karaikudi July 2017.
12. Malathi M., J. Herbert Mabel and R. Rajendran "Ni-P Composite Plating on Piston ring for improved wear performance" in the proceedings of SAE international conference on advances in design, materials, manufacturing and surface engineering for mobility (ADMMS 2017), Chennai, July 2017.

### **National Conference**

1. S. Kutti Rani and R. Sasikala "UV light active Erbium loaded CuO as an excellent photocatalyst for the Degradation of Trypan Blue Dyes" in the

proceedings of Recent Advances in Material Science (RAMS 2017) at Immaculate College for Women January 2017.

2. S. Kutti Rani and R. Sasikala “Erbium loaded CuO nanoparticles as heterogeneous catalyst for synthesis of 1,2,3-triazoles under ultrasonification” in the proceedings of Recent Advances in Chemical and Environmental Research, TN, January 2017.
3. Bharatraj K., Elumalai M. and Vajjiravel Murugesan “Novel metal free super acid catalysed polymerization reaction of isatine with linear aromatic hydrocarbons for optoelectronic applications in the proceedings of Fifth National Conference on Advanced Functional Materials and Applications (NCAFMA- 2017) TN, March 2017.
4. Bharatraj K. and Vajjiravel Murugesan presented “Synthesis of donor acceptor polymers using super acid as catalysts” in the proceedings of 21<sup>st</sup> CRSI National Symposium in Chemistry (CRSI-NSC-21), CSIR-IICT, Hyderabad, July 2017.
5. Mr. Elumalai M. and Dr. Vajjiravel Murugesan “Influences on the rate of polymerization of acrylonitrile by phase transfer catalysts” in the proceedings of 21<sup>st</sup> CRSI National Symposium in Chemistry (CRSI-NSC-21) CSIR-IICT, Hyderabad, July 2017.

### Sponsored Research (Ongoing / Applied)

S.No.	Principal and Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
	PI. Dr.P.T.Perumal Co-PI. Dr.K.Karthikeyan	CSIR	Design, Synthesis and QSAR Studies of Novel Heterocyclic Analogues of Bioactive Molecules as Therapeutic Agents for Neglected Diseases		Applied
	PI. Dr.D.Easwaramoorthy Co-PI Dr. J.Herbert Mabel Dr. Hemalatha	DST-SERB-EMR	Synthesis and characterization of antimicrobial agents against methicillin-resistant Staphylococcus aureus (MRSA)		Applied
	PI. Dr. M. Asha Jhonsi	DST-SERB-ECRA	Rationally designed Hybrid AIEgens for bioimaging applications		Applied
	PI. Dr. Revathi Purushothaman	DST-SERB-EMR	Amine enriched hypercross-linked		Applied



			transition metal incorporated polyimides for selective sprption of CO <sub>2</sub> at low temperature		
	Pl. Dr.Bhagavathy Shanmugasundaram	DST-SERB-EMR	Studies on stereoselective ring opening of 1,2-anhydrosugars by isocyanates, enamines, aminoacids and nucleobases - Application to synthesis of glycosidase inhibitors and Gliflozin based anti-diabetic drug		Applied

### Book Published

M. Asha Jhonsi, "Carbon Quantum dots for Bioimaging" In the book "Nano-Bioimaging", ISBN 978-953-51-5886-8.

### Achievements of Students

<b>Science Academies' Summer Research Fellowship Programme for Students and Teachers 2018</b> (Serial No. 32 & 57 in the link: <a href="http://web-japps.ias.ac.in:8080/fellowship2018/lists/selectedList.jsp">http://web-japps.ias.ac.in:8080/fellowship2018/lists/selectedList.jsp</a> )			
CHES2253	Bavithra, Ms V. I M.Sc. Chemistry	B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai	Saha, Dr. Binoy K. Pondicherry Univ., Puducherry
CHES2120	Deepthi, Ms J. I M.Sc. Chemistry	B.S. Abdur Rahman Crescent University, Chennai	Mandal, Dr. Sukhendu, IISER, Thiruvananthapuram

### Industry / Institute Collaboration

<b>CHC7104 Internship (1 Credit compulsory course) in the following Institute/ Industries.</b>			
160522601001	Ayisha Begum F	Development of new strategy for the synthesis of heterocyclic compounds via radical process	Department of Chemistry, IIT Madras, Chennai 600036
160522601002	Mohammed Haneef A	Coating of piston ring with nickel by electroless plating	Materials Research Division, I.P. Rings, D11/12 Industrial Estate, Maraimalai Nagar 603102
160522601003	Muthumanickam A	Waste water management	Alathur API Unit, Orchid Pharma Ltd. SIDCO Industrial Estate, Old Mahabalipuram Road,

			Alathur, thiruporur 603110
160522601004	Rakesh N	Analysis of pharma samples by HPLC, GC	Analytical R&D, Hospira Health Care Ltd., Old Mahabalipuram Road Shozlinganallur, Chennai 600119

<b>CHC7201 Project Phase-II in Industry</b>			
160522601002	Mohammed Haneef A	Coating of piston ring with nickel by electroless plating	Materials Research Division, I.P. Rings, D11/12 Industrial Estate, Maraimalai Nagar 603102

### Society Activities

Awareness Programme on Careers in Chemistry for the Final year B.Sc. Chemistry students on 27<sup>th</sup> February 2018 under the Alkemia Society.

### Important Visitors

Visited our department and delivered lectures

- Dr. P. Shanmugam, Sr. Principal Scientist, Environmental Technology, CSIR Central Leather Research Institute, Adyar, Chennai 600020.
- Dr. S. Thennarasu, Sr. Principal Scientist, Head, Organic & Bio-organic Chemistry, CSIR-Central Leather Research Institute, Adyar, Chennai 600020.
- Dr. Chittaranjan Sinha, Professor, Department of Chemistry, Jadavpur University, Raja S.C. Mallick Road, Kolkata 700032.
- Dr. A. Vijay Kumar, Assistant Professor of Chemistry, Institute of Chemical Technology, Nathalal Parekh Marg, Matunga, Mumbai 400019.

### Other Information

Ms. R. Sasikala and Mr. L. Kanniappan defended their Ph.D. viva-voce on 20.09.2017 & 03.10.2017 respectively.

Mr. R. Jayaprakash and D. Gangaprasad submitted their Ph.D. thesis.

## **SCHOOL OF LIFE SCIENCE**

### **New Programmes started**

B.Sc (Biotechnology), M.Tech (Biotechnology)

### **Value Added Programmes started**

Biotech Innovation and Entrepreneurship course was offered to final year B.Tech students by University of Missouri, USA

### **Training Programmes offered**

Special coaching for the NET and GATE classes for B.Tech Biotechnology students



### **Interdisciplinary Programmes Conducted**

One Day workshop on Electro-Chemo-Therapy for effective cancer treatment jointly organized in association with Department of EEE & Purdue University



### **Conferences / FDP / Seminars / Workshops Conducted**

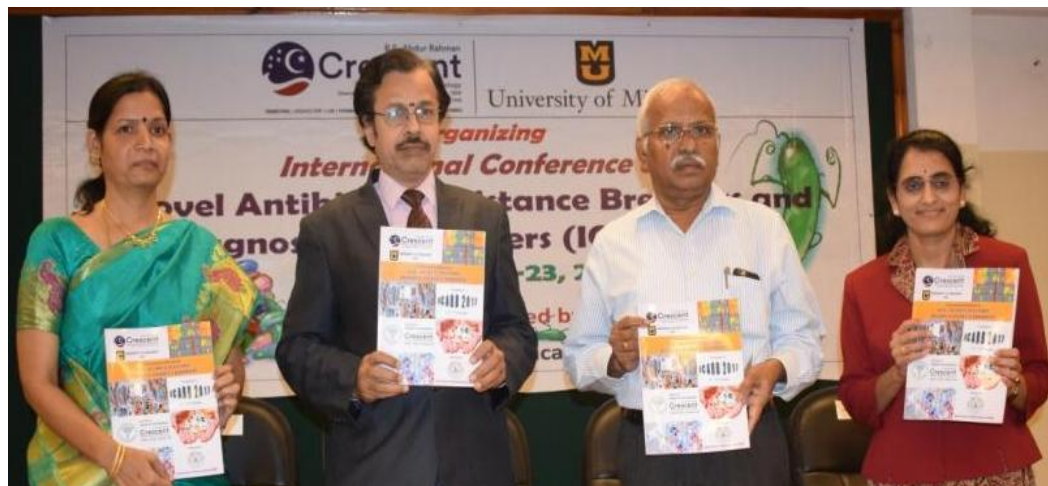
#### **Conferences:**

#### **International Conferences Organized**

International conference on innovations in **pharmaceutical and biological research: discovering novel approaches** conducted in association with **Society of Pharmaceutical education and research (SPER)** on 23-24, February, 2018



International conference on **Antimicrobial resistance breakers and diagnostic biomarkers (ICARB 2017)** was sponsored by **ICMR** and organized in association with **university of Missouri** on 22-23, December, 2017





## Workshops Organized

Workshop on “Unix For Biologists” was organized on 22- 24, January, **2018**



TN-EDI sponsored Workshop on Challenges and Opportunities for Bio-Tech Entrepreneurship was organized on 4-5, January, **2018**



One week Summer School on “Rational Approaches towards Protein Engineering and Design” RATPED 2017 from July 10th to July 15<sup>th</sup>, **2017**

## Seminars

- Special seminar was organized in association with Australian consulate Chennai on Recent advances in biotechnology by Dr Susan Cossetto from the Australian National University on April, 6, 2018
- Seminar for research supervisors on Good, the bad and the ugliness of research supervision by Prof. Jaipaul Singh, University of Central Lancashire, UK on February, 21, 2018
- Special seminar for research scholars on Tips for Research presentation and writing manuscripts by Prof. Jaipaul Singh, University of Central Lancashire, UK on February, 21, 2018
- Special seminar on International collaborative research in biotechnology by Prof. Jaipaul Singh, University of Central Lancashire, UK on September, 25, 2017
- DBT sponsored free popular lectures in biotechnology was conducted for school and college students on August, 2, 2017



## Conferences / FDP / Seminars / Workshops Attended

### Invited talks delivered in conferences

Dr. S. Hemalatha delivered invited talk in AICTE sponsored National conference on Challenges and opportunities in green Nano Technology, Held on 25-1-2018, at Vels University, Chennai



Dr. S. Hemalatha delivered invited talk in National conference on "Nanotechnology in Medicine" organized by Chettinad Hospital and Research Institute 8<sup>th</sup> and 9<sup>th</sup> September 2017.

Dr. S. Hemalatha delivered invited lecture in refresher course for university and college teachers in Life Sciences on 10, July, 2017 organized by UGC-HRDC-Bharathiar University, Coimbatore



#### **Invited talks delivered in workshops**

Dr. M.S. Shahul Hameed delivered guest Lecture in Two Day Computational Hands-on and Wet lab Demo Workshop on "Genome Editing Tool - CRISPR-CAS9" organised by VIGNAN University, Guntur, Andhra Pradesh from 12th to 13th July 2018

Dr. M.S. Shahul Hameed delivered guest Lecture in the One Week Hands-on Workshop on "Protein NMR: From Data to Structure" organised by Wisecorner Laboratories Pvt Ltd from 25th June to 30th June 2018

Dr. M.S. Shahul Hameed delivered guest Lecture in the two Day Computational Workshop on "Mass Spectrometry based Proteomics Data Analysis" organised by Wisecorner Laboratories Pvt Ltd from 9th - 10th June 2018



Dr. M.S. Shahul Hameed delivered guest Lecture in the two Day Computational Workshop on "Protein Structure based Drug Design" organised by Wisecorner Laboratories Pvt Ltd from 2nd - 3rd June 2018

Dr. M.S. Shahul Hameed delivered guest Lecture in the two Day Computational Workshop on "Next Generation Sequencing Data Analysis" organised by WISECORNER LABORATORIES PVT LTD from 17th - 18th May 2018

Dr. M.S. Shahul Hameed delivered guest Lecture in the One Day Wet lab hands-on Workshop on "Genome Editing Tool - CRISPR/CAS9" organised by WISECORNER LABORATORIES PVT LTD on 29th April 2018

Dr. M.S. Shahul Hameed delivered guest Lecture in the One Day Computational Workshop "UNIX for Biologists" organised by WISECORNER LABORATORIES PVT LTD on 8th April 2018

Dr. M.S. Shahul Hameed delivered guest Lecture in the One Day Computational Workshop on "Genome Editing Tool - CRISPR/CAS9" organised by WISECORNER LABORATORIES PVT LTD on 7th April 2018

Dr. Neesar Ahmed delivered invited talk in Immunoassay techniques workshop held at Prince Shri Venkateshwara college of Arts and Science, Chennai on February, 13, 2018

Dr. M.S. Shahul Hameed delivered guest Lecture in the One Day Workshop on 4-R Approaches in Pharmacology and Toxicology, SRM University on 4th, August 2017

#### **Invited talks delivered in seminars**

- Dr. M.S. Shahul Hameed delivered guest Lecture on "Protein NMR as a powerful tool for Drug Discovery" organised by Chalapathi Institute of Pharmaceutical Sciences, Guntur, AP on 10th July 2018
- Dr. M.S. Shahul Hameed delivered guest Lecture on Statistical Analysis of Genomic Data organised by Wisecorner Laboratories Pvt Ltd from 23rd June till July 4th 2018



- Dr. M.S. Shahul Hameed delivered guest Lecture on CRISPR-CAS9 Genome Editing Tool organised by Wisecorner Laboratories Pvt Ltd from 8th June till 22nd June 2018.
- Dr. G. Harish delivered invited talk on Scholarship and Fellowship opportunities for young researchers in India at Azyme Biosciences, Bangalore on 13th January, 2018
- Dr. S. Hemalatha was invited among 20 researchers from India for The UK-India Newton-Bhabha Fund Researcher Links Workshop on working at the chemistry-microbiology interface to develop new antibiotics for tackling antimicrobial resistance and resistant TB, TB research institute, Bangalore

### Faculty Development Programme

Dr.Vimal kumar attended faculty development programme on ‘Steam cell characterization and advances in its Research and Applications’ from 27<sup>th</sup> November to 8<sup>th</sup> December, 2017 at Sri Venkateswara College of Engineering, Sriperumbudur.

### Papers Published/ Presented In Journals & Conferences

National conferences	International conferences	National journals	International Journals	Total
9	47	-	16	72

### Details Of Publication In National & International Journals & Conferences:

#### International Journal:

1. Ubaid Rasool, Saroj Kumar Sah and S. Hemalatha ‘Growth inhibitory effect of oven dried copper nanoparticles (cupns) on drug resistant clinical isolates’ Ira.J.Mat. Sci. Eng. Vol 15 2018
2. Kosuru RY, Roy A and Bera S. “Gallic acid and gallates in human diseases: does mitochondria holds the key to success”. Molecular Nutrition and Food Research Mol Nutr Food Res. ; Vol 62 No 1.January 2018

3. Karthikeyan Ramalingam and Valerie A. Lee “Antibiofilm activity of an EDTA-containing nanoemulsion on multidrug-resistant *Acinetobacter baumannii*, Artificial Cells”, Nanomedicine, and Biotechnology, 2018
4. Saravanan S, Abdul Nasar Kalanthoden, R. Karthikayan, M. Kavitha and S. Kutti Rani “Improvement of Invertase Synthesis by the Mutant *Saccharomyces cerevisiae* through UV Mutagenesis. Universal Journal of Microbiology Research, vol 5: pp 17 – 21, 2017.
5. McCall, MN, M. Kim, M. Adil, A.H. Patil, Y.Lu,C. J. Mitchell,PL-Rojas, J. Xu,1 M. Kumar,V. L. Dawson,T.M. Dawson, A. S. Baras, Avi Z. R.,D. E. Arking, K. H. Burns,A.Pandey, and M. K. Halushka, “Toward the human cellular microRNAome, Genome research, Vol 27 No 10 pp 1769-1781,2017.
6. Baradan R and Hollander JM, Das S “Mitochondrial miRNAs in Diabetes: Just the Tip of the Iceberg” Canadian Journal of Physiology and Pharmacology, 2017, Vol 95 No 10 pp 1156-1162.
7. Khan, M.S., Akther, T. and Hemalatha, S. “Impact of Panchagavya on *Oryza sativa* L. grown Under Saline Stress” J Plant Growth Regul. Vol 36 No 3 pp 702-713 2017
8. Fazeela Mahaboob Begum S M and S. Hemalatha. “Characterisation, *In Silico* and *In Vitro* Determination Of Antidiabetic And Anti Inflammatory Potential Of Ethanolic Extract Of *Sargassum Wightii*.” AJPCR Vol 10, No 4, 2017
9. Fazeela Mahaboob Begum SM, S.Priyaa and S. Hemalatha. “*In vitro* and *In silico* analysis of the anti oxidant and angiogenic potential of *Padina tetrastomatica*” International Journal of PharmTech Research i Vol. 10, No 2, 2017.
10. Fazeela Mehaboob Begum SM, Zakia Fathima S, Priya S, Sundararajan R and Hemalatha “SScreening Indian Medicinal Plants to Control Diabetes – An In silico and In vitro Approach”, Gen Med (Los Angeles), 5:2 DOI: 10.4172/2327-5146.10002892017
11. U Rasool and S Hemalatha, Diversified role and applications of marine actinomycetes in the field of biology. World Scientific News vol 74, pp 1-14.2017
12. Tahira Akther, Mohd Shahanbaj Khan and S. Hemalatha, “Extraction of Flavonoids from various Parts of *Couroupita guianensis* and Its Efficacy

Against Pathogenic Bacteria” Asian J Pharm.Clin.Res Vol 10 No 4 pp 354-3582017

13. Khazaei S, Abdul Hamid R, Ramachandran V, Mohd Esa N, Pandurangan AK, Danazadeh F, Ismail P. “Cytotoxicity and Proapoptotic Effects of *Allium atroviolaceum* Flower Extract by Modulating Cell Cycle Arrest and Caspase-Dependent and p53-Independent Pathway in Breast Cancer Cell Lines”. Evid Based Complement Alternat Med: 1468957. 2017.
14. Begum SMFM, Priya S, Sundararajan R, Hemalatha S. “Novel anticancerous compounds from *Sargassum wightii*: In silico and in vitro approaches to test the antiproliferative efficacy” J Adv Pharm Edu Res Vol 7 No3 pp 272-277. 2017;
15. S. Saravanan, Abdul Nasar Kalanthoden, R. Karthikayan, M. Kavitha and S. Kutti Rani “Improvement of Invertase Synthesis by the Mutant *Saccharomyces cerevisiae* through UV Mutagenesis. Universal Journal of Microbiology Research, Vol 5 pp 17 - 24. doi: 10.13189/ujmr.2017.050201.
16. Kumar V, De Beuckelaer A, McCaffrey J, McCruddeen C, Kirschman, J Vavover, Daryll, Van Hoecke L, Roose K, Deswarte K, De Geest B, Santangelo P, Grooten J, McCarthy H and De Koker S. Advanced Healthmaterials. Jul; Vol 6 No13. Doi: 10.1002/adhm.201601412,2017

#### **International conferences:**

1. Ubaid Rasool and S. Hemalatha, “Copper and iron nanoparticles (CuNPs and INPs): Actinomycete assisted synthesis”, Characterization and biological applications in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches, Chennai, February 2018
2. Tahira Akther and S. Hemalatha “Mycosynthesis of silver nanoparticles from endophytic fungi isolated from medicinal plants to control MDR bacterial pathogens”, in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches, Chennai, February 2018

3. Mohd Shahanbaj Khan and S. Hemalatha “Influence of signaling molecule in rice seedlings grown under saline stress” in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches, Chennai, February 2018
4. Sathyapriyan, M, Subashree, V.K, C. Tahrini and S. Hemalatha “Application of biotechnology to enhance the Shelf Life of fruits and vegetables” in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches, Chennai, February 2018
5. Saroj Kumar S, Jagjot Singh Kainth, Zahra Afrasiabi, Anandhi Upendran and S. Hemalatha “Antimicrobial Peptides to Overcome Multi Drug Resistant *E.coli* by Inhibiting B-Lactamase” in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches, Chennai, February 2018
6. Rumelee Das and S. Hemalatha “Predicting genes in prokaryotes by *in silico* approaches” in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches, Chennai, February, 2018
7. Rumelee Das and S. Hemalatha, “Advantage of using T-Coffee for the ability to use different methods and data type for executing multiple sequence alignment” “7<sup>th</sup> Annual International conference on Innovations in pharmaceutical and biological research: discovering novel approaches Chennai, February 2018
8. Rubina Banu and S. Hemalatha, “Study of Various Neural Drug Interactions with Asparagine Endopeptidase in Parkinson’s disease”. In the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches, Chennai, February, 2018
9. Rubeena Banu, Mohd shahanbaj khan and S.Hemalatha “Screening the efficacy of Bioformulation against cancer, microbial growth and Stress” in the proceedings

of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches Chennai, February 2018

10. Rohini Baradan, Tahira Akther and S. Hemalatha, "Green nano particles synthesized from *Nigella sativa* seeds as potential antidiabetic agent" in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches Chennai, February, 2018
11. Jagjot Singh Kainth, Priya, Raghuraman Kannan, Zahra Afrasiabi Anandhi Upendran and S. Hemalatha "Evaluation of Antimicrobial Peptide Gold Nanoconjugates for Treating Drug Resistant *E.coli*n" in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches Chennai, February 2018
12. Prasanthi Mohan and S. Hemalatha "Identification of plant compounds targeting BACE1 to control Alzheimer's disease" in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches Chennai, February 2018
13. Nehavarshini.V and S. Hemalatha, "Applications of "chlorop" to detect chloroplast transit peptides" in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches, Chennai February 2018.
14. Naheetha Fathima, Mohammed Umar, Haji Sheik Mohammed and S. Hemalatha, "Isolation, identification and characterization of microorganisms associated with concrete deterioration" in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches Chennai February 2018
15. MahaLakshmi R and S. Hemalatha "Computational approaches to predict functional and evolutionary relationship of gene families" in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches Chennai, February 2018

16. J. Indumathy, Tahira Akther and S. Hemalatha, Natural way of increasing fecundity by utilizing *Euphorbia hirta*. In the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches Chennai, February 2018
17. S. M. Fazeela Mahaboob Begum and S. Hemalatha, "Seaweed extract inhibits cell invasion, colonization, proliferation and metastasis to control lung cancer". In the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches Chennai, February 2018
18. Farheen Farzana Fathima K. A., Tahira Akther and S. Hemalatha "Nanoparticles synthesized from endophytic fungi suppress cancer" in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches Chennai, February 2018
19. Charumathi, Tahira Akther and S. Hemalatha, "Synthesis of nanoparticles to suppress the food borne pathogens" in the proceedings of International conference on Innovations in pharmaceutical and biological research: discovering novel approaches Chennai, February 2018
20. Saroj Kumar S, Ubaid Rasool, B. Shanthi and S. Hemalatha "Molecular detection of QnrAm and AmpC genes in Extended Spectrum Beta-Lactamase (ESBL) Producing Clinical Isolates of *Pseudomonas*, *Proteus* and *Acinetobacter*". In the proceedings of International Conference on Novel Antibiotic Resistance Breakers and Diagnostic Biomarkers (ICARB-2017), Chennai, December 22-23, 2017
21. Tahira Akther and S. Hemalatha "Green Synthesis, characterization and bactericidal potential of flower shaped silver nanoparticles from endophytic fungi" in the proceedings of International Conference on Novel Antibiotic Resistance Breakers and Diagnostic Biomarkers (ICARB-2017), Chennai, December 2017

22. S. Priya and S. Hemalatha, "Peptidomimetics Based Inhibitor design for HIV-1 Gp120 Attachment Protein" International Conference on Novel Antibiotic Resistance Breakers and Diagnostic Biomarkers (ICARB-2017), Chennai, December, 2017
23. Ubaid Rasool, Saroj Kumar Sah and S. Hemalatha "Green nano particles suppress the growth and biofilm formation in drugresistant pathogenic bacteria". In the proceedings of International Conference on Novel Antibiotic Resistance Breakers and Diagnostic Biomarkers ,Chennai, December 2017
24. S. M. Fazeela Mahaboob Begum and S.Hemalatha "Marine algal extract induces apoptosis in cancer cells - an *in vitro* and *in vivo* approach" in the proceedings of International Conference on Novel Antibiotic Resistance Breakers and Diagnostic Biomarkers ,Chennai,December 2017
25. Mohamed Adil A.A, Anandraj vaithy, Sateesh kumar, Shazia Jamal and Neesar Ahmed "Differential Expression of Helios and Neuropilin1 along with FOXP3 as Diagnostic Markers of Tregs in HNSCC Patients" in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai, December, 2017,
26. Logesh R, Anil Kumar B, Shazia Jamal and Neesar Ahmed. "LPS purified from Salmonella typhi sensitize RBC at hemagglutinin concentration to undergo complete hemolysis on addition of glycoprotein Jacalin" in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, 22-23, Chennai, December, 2017
27. Lavanya V1, Mohamed Adil AA1, Neesar Ahmed1 and Shazia Jamal "Effect of Jacalin, a Plant Food Lectin on the Proliferation and Cytokine Production of Peripheral Blood Mononuclear Cells (PBMCs)" in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai , December, 2017,
28. Shahul Hameed. M.S and Sarfaraz Alam Khan. A "Development of an Integrated Computational approach to design Stable Biofuel Enzymes in the proceedings of

International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai, December, 2017,

29. Rekha Yamini.K, Mohd Ashique, and Soumen Bera “Metabolic reprogramming in the drug resistant *P. aeruginosa* by polyphenols: Examining the possibilities in adjuvant therapy with antibiotics “in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers Chennai, December, 2017.
30. Mashihur Rahman and Md. Khurshid Alam Khan “Natural compounds as potential inhibitors against new-delhi metallo-  $\beta$ -lactamase-1 (ndm-1): a molecular docking study” in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai ,December, 2017,
31. Mohd. Hashim Khan and Karthikeyan Ramalingam “Ecofriendly green synthesis and characterization of silver nanoparticles as nanoantibiotic against drug resistant human pathogen” n the proceedings of International Conference on Novel Antibiotic Resistance Breakers and Diagnostic Biomarkers (ICARB-2017), Chennai, December, 2017
32. Farhana Fathima M, Neesar Ahmed and Shazia Jamal “Purification and Functional Characterization of Lectin from Edible Mushroom” in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai ,December, 2017
33. Shahul Hameed M.S and Shifana Fathima “Development of a Non alcoholic Digestif Drink to fight Obesity in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai December, 2017
34. Shahul Hameed M.S and Mohammed Faheem “Design and development of inhibitors of s100a4 protein interactions involved in cancer progression



International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers”, SLS, BSACIST, Chennai in association with University of Missouri USA 22-23, December, 2017

35. Shahul Hameed M.S and Ashwini V “Development of an Economic kit to detect and degrade Pesticides in Milk” in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai December, 2017
36. Syed AsfarLathi and Sudarkodi Sukumar “An in silico analysis of the TNF super family” in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai December, 2017
37. Adithya.S.G and Sudarkodi Sukumar “Exploration of the significance of lipid metabolism gene alterations in pan cancer studies” in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai ,December, 2017
38. A.Janani, Fathima Sameena and M, M. K. Sangeetha “Antioxidant property of a polyherbal formulation” International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai,December, 2017
39. Amrutha Balaji “Tumor targeting bacterial therapy with Salmonella typhimurium” in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai December, 2017
40. Rishivanth.S and Md. Khurshid Alam Khan “Efficacy of garlic essential oil against common human pathogens” in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnosti Markers Chennai December, 2017
41. Rukaiya Khasamwala and Mohammed Khurshid Alam Khan B “Prevalence and concentrations of ampicillin resistant bacteria in waste water” from two different

parts of Chennai in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers Chennai December, 2017

42. Samrin Abdul Sathar and Mohammed Khurshid Alam Khan “Isolation and characterization of ampicillin resistant bacteria from waste water and detection of betalactamase production” in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai December, 2017
43. Hafeez, Lavanya V, Neesar Ahmed and Shazia Jamal  
“Immunomodulatory effect of Jacalin on M1 and M2 phenotypic response in PBM C” the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai December, 2017
44. Ramya. R, Mashihur Rahman And Md. Khurshid Alam Khan “Antimicrobial and antiquorum sensing activity of selected medicinal plants of south India” in the proceedings of International Conference on Novel Antibiotic Resistance Breakers & Diagnostic Markers, Chennai December, 2017
45. Mohammad Waseem, S Hemalatha, Mohammad Kashif and Suhel Parvez  
“Melatonin modulates permeability transition pore and 5-hydroxydecanoate induced  $K_{ATP}$  channel inhibition in isolated brain mitochondria” in the proceedings of International Conference on Novel Antibiotic Resistance Breakers and Diagnostic Biomarkers Chennai, December, 2017
46. Tahira Akther and S. Hemalatha A Facile and Rapid Method for Green Synthesis and Characterization of Silver Nanoparticles from Endophytic Fungi to Control Pathogenic Microbes” International Symposium on NANOMATERIALS FOR CLEAN ENERGY AND HEALTH APPLICATIONS, CIT, Coimbatore 6-8, December, 2017
47. L. Mittal, V. Raman, IG Camarillo, S. Hemalatha, and R. Sundararajan  
“Electrochemotherapy using Veliparib for Effective Triple Negative Breast Cancer

Treatment” in the proceedings of IEEE Conference on electrical insulation and dielectric phenomena, Fort Worth, Texas, USA, October 2017

**National conferences:**

1. Tahira Akther and S. Hemalatha, Presented a paper on “Mycosynthesis of Nano-silver from endophytic fungi isolated from medicinal plants and its applications against Human pathogens” in three days 13<sup>th</sup> session of Jammu and Kashmir Science Congress held at Kashmir University, April 2-4, 2018
2. Ubaid Rasool and S. Hemalatha. “Marine endophytic actinomycetes assist in iron oxide nanoparticles synthesis which possess antioxidant and anticancer activity” Two-days National seminar, RAMT for REBHSA organized by Department of Microbiology, Periyar University, Selam, on 24 - 25 January, 2018
3. Tahira Akther and S. Hemalatha, Presented a paper on “Mycosynthesis of silver nanoparticles and study of its antibacterial activity and prevention of biofilm” in the National seminar on “Recent Advances in Microbial Technology for Renewable Energy, Bioremediation, Health and sustainable Agriculture held at Department of Microbiology, Periyar University, January 24-25, 2018
4. Ubaid Rasool and S. Hemalatha. Marine endophytic actinomycetes assist in iron oxide nanoparticles synthesis which possesses antioxidant and anticancer activity. One-day seminar on Challenges and Opportunities in Green Nanotechnology, Department of Pharmacognosy, VISTAS on 25th Jan, 2018.
5. S. Hemalatha, “Synthesis, characterization and applications of green nano particles from various biological sources”, One-day seminar on Challenges and Opportunities in Green Nanotechnology organized by Department of Pharmacognosy, VISTAS on 25th Jan, 2018. (invited talk)
6. Tahira Akhtar, Mohd. Shahanbaj Khan and S. Hemalatha, Antibacterial and Anti-oxidant activity of green nanoparticles synthesized from *Couroupita*

guianensis, National conference on "Recent Trends In Functional Materials December, 4-5, 2017

7. Tahira Akther and S. Hemalatha, Green synthesis and characterization of silver nanoparticles from endophytic fungi to control pathogenic microbes National Conference on Nanotechnology in Medicine (NCNM-2017), Chettinad university, Chennai, 8th-9th September, 2017
8. S. Hemalatha, Myconanoparticles: synthesis, characterization and their applications in medicine. National Conference on Nanotechnology in Medicine (NCNM-2017), Chettinad university, Chennai (Invited talk). 8<sup>th</sup>-9<sup>th</sup> September, 2017
9. Mohd Shahanbaj Khan and S. Hemalatha, Autophagy and Programmed Cell Death are Critical to Drought Tolerance in Rice for Sustainable Agriculture. National conference on biotechnology and sustainable agriculture, Hindustan University, Chennai August, 24, 2017

#### Details of Impact Factor Of The Publication H-Index: 10:00

A) Range B) Average C) H-Index D) No. In Scopus

#### Sponsored Research (Ongoing)

S N	TITLE OF THE PROJECT	NAME OF THE PRINCIPAL INVESTIGATOR	FUNDING AGENCY	PERIOD	GRANTS SANCTIONED (RS.)
1	GPX-1, gene polymorphisms and mitochondrial Ros signaling in cancer risk	Dr. Soumen Bera	SERB - DST	2014-17	24,70,000
2	Identifying the molecular basis of peroxidase activity of Peroxiredoxin 6 - An approach for designing Antioxidant Peptides and Inhibitors	Dr. Md Khurshid Alam Khan	SERB - Startup Research Grant	2014-17	14,30,000
3	To Study the Effect of Diclofenac and Osmolytes on Protein Stability in Renal Dysfunction	Dr. Shazia Jamal	DST - SERB	2014-17	13,60,000
4	Antioxidant gene polymorphisms and mitochondrial Ros signaling in cancer risk	Dr. Soumen Bera	DBT	2015-18	24,75,000

5	Synthesis of antimicrobial nanoemulsions for the treatment of multi-drug resistant ESKAPE pathogens	Dr. R. Karthikeyan	SERB	2015-18	23,28,000
6	Immunosuppressive cells within inflammatory Tumor Microenvironment	Dr. Neesar Ahmed	SERB	2015-18	22,66,000
7	Antimicrobial Efficacy and Mechanisms of Whole Plant Extract of <i>Acacia Arabica</i> with Triphala on Biofilm Forming Cariogenic Microorganisms	Dr. R. Karthikeyan	AYUSH-EMR Research Project	2016-19	33,00,000
				<b>Total</b>	<b>1,56,29,000</b>

### Sponsored Research (Applied )

S. No	Name of the Principal Investigator	Project Title/Proposal Title	Year Submitted	Funding Agency	Amount in lakhs
1	Dr.S.Hemalatha, Dr. M. K. Sangeetha Ms. S. Ranjani	Crescent Technology Enabling Center	May 2018	Technology Enabling center- Department of Science & Technology	430 lakhs
2	Dr.S.Hemalatha Dr. M.K. Sangeetha	Novel green myco nano formulations target mitochondria to control cancer	June 2018	DBT- BioCARE-	40 Lakhs
3	Dr.S.Hemalatha Ms. S.M Fazeela Mehboob Begum	Screening the novel bioactives from marine brown algae <i>Sargassum wightii</i> for the antioxidant, anticancer, antimetastatic and antiinflammatory activities	June 2018	DBT- BioCARE-	39.65 lakhs
4	Ms. S. Ranjani Dr.S.Hemalatha	Novel Green Nanoparticles to control Multidrug Resistant (MRSA) Clinical Mastitis	June 2018	DBT- BioCARE-	60 Lakhs
5	Dr.S.Hemalatha Dr. M.K. Sangeetha	Synthesis and characterization novel Nicotinamide derivatives: Efficacy in controlling human bacterial pathogens and plant fungal pathogens	June 2018	Core Research Grant- SERB	30 lakhs
6	Dr.R.Karthikeyan Ramalingam	Synthesis of Antimicrobial Nanoemulsions for the treatment of drug resistant microbial keratitis pathogens	June 2018	DST- SERB	33 lakhs
7	Dr.S.Hemalatha Ms. S.M Fazeela Mehboob Begum	Screening the novel bioactives from marine brown algae <i>Sargassum wightii</i> for the antioxidant, anticancer, antimetastatic and antiinflammatory activities	June 2018	DBT- BioCARE-	39.65 lakhs
8	Dr.S.Hemalatha Ms. S. Ranjani	Novel Green Nanoparticles to control Multidrug Resistant (MRSA) Clinical Mastitis	June 2018	DBT- BioCARE-	60 Lakhs
9	Dr. S. Hemalatha Dr. V. Maroudam, CisGEN Biotech Pvt Ltd.,	Green nanoparticles as antibiotic resistance breaker for the effective treatment for clinical mastitis in Indian livestock	May 2018	BIRAC- Grand challenges in India-AMR	69 Lakhs

10	Dr. S. Hemalatha Dr. Manish K Pandey (ICRISAT) Dr. V. M. Sankaran & Dr. Vennila (TANUVAS)	Mission Programme on Biotech-Krishi Innovation Science Application Network (Biotech-KISAN) India's Farmers Partner with Indian and Global Best in Science for India's Future	May 2018	DBT	60 lakhs/Year
11	Dr.P.Ashok Kumar Pandurangan	Mechanistic Antitumour activity of vernodalin isolates from centratherum anthelmintium on colorectal cancer cells	March-2018	TARE- SERB	7.5 lakhs
12	Dr. S. Hemalatha	Crescent Biotech Incubator	March, 2018	BIRAC	1.5 Crores
13	Dr.Soumen Bera	Mitochondrial iron homeostasis and redox imbalance in endometriosis associated ovarian cancers: Implications in identifying therapeutic targets	May- 2018	DBT	45.60 lakhs
14	Dr.Soumen Bera	Identifying Mitochondrial GPx1 as tumor promoter; Role in metabolic reprogramming and mitochondrial biogenesis	June 2018	SERB	37 Lakhs
15	Dr.Khurshid Alam Khan	Investigating the effect of different ratio of urea and polyamines on ZAG protein- An approach to understand sperm immobility in male infertility.	July 2018	DBT- call for Proposal reproductive biology	DBT- LOI submitted -
16	Dr.Khurshid Alam Khan	Probing the effect of changes in flexibility and hydrophobicity of loop 3 in NDM-1 catalysis	July 2018	DST-CORE Research Grant	29.5 lacs
17	Dr.Neesar Ahmed	Targeting cav-1 expression on tumor stromal and cancer cells within inflammatory tumour microenvironment	July 2018	DST- SERB	38 lakhs
18	Dr.Shazia Jamal	Biophysical analysis of Caveolin-1 variant found in various cancers	July 2018	DST- SERB	30 Lakhs
19	Dr.M.Wasima	A study on the cross talk of soil prokaryotes with bacteria and their influence on plant growth	April- 2018	TARE- SERB	15 Lakhs
20	Dr.Sudarkodi Sukumar	Elucidating the action mechanism of the new anti- tuberculosis drug, delamanid and assessing its response in major Indian <i>Mycobacterium Tuberculosis</i> lineage	April- 2018	TARE- SERB	15 Lakhs
21	Dr.Sudarkodi Sukumar	Deciphering novel host- pathogens interactions mechanisms of <i>Mycobacterium Tuberculosis</i>	June 2018	DBT Biocare	46 Lakhs
22	Dr.Gulsaz Shamim	Metabolic engineering of microbial cells for the production of lac resin constituents	June 2018	DBT BioCARE	40 lakhs
23	Dr. S. Hemalatha Dr. C. Tharini Dr. Auvai	Effect of Yoga on premenstrual symptoms and anemia among female students	31.10.2017	DST	28 Lakhs
24	Dr. S. Hemalatha Dr. Bora (UK) Dr. Manish K Pandey (ICRISAT)	Identification of linked genetic markers for salinity tolerance using genetic mapping and genome-wide association study	23.10.2017	Pulses and Oilseeds Research BBSR, UK	30 Lakhs
25	Dr. Mohammad	Fabrication of a novel self-	30.9.2017	DBT	25 Lakhs

	Ashfaq	administered polymeric microneedle patches based delivery system for intradermal application			
26	Dr. Karthikeyan Dr. Manikandan Ramar, University of Madras	Synthesis of antimicrobial nanoemulsions for the treatment of drug resistant microbial keratitis pathogens	15.9.2017	DBT	42.68 Lakhs
27	Dr. Wasima. M (BSACU, PI)	Catalogue Endophytic diversity and the efficacy of the herbal plant Hibiscus	30.8.2017	DBT	20 lakhs
28	Dr. S. Hemalatha Dr. D. Easwaramoorthy Dr. Herbert Mabel	Synthesis and characterization of antimicrobial agents against methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	31.7.2017	DST-SERB	19.24 Lakhs
29	Dr. Neesar Ahmed	Targeting Caveolae of stromal and cancer cells in Tumor Microenvironment	30.7.2017	CSIR	15 Lakhs

### Special Research Laboratories Created

UG lab I

UG lab II

UG lab III

### Major Equipment Purchased:

Autoclave (100Ltr) - 01 No

Bioreactor/Fermentor-01 No

### Book Published:

Karthikeyan Ramalingam Bennett Amaechi, 2018. Phytochemicals- their therapeutic potential against dental caries, editors Kamalan and Krishnamurthy, MIT in computational Techniques for Dental Image Analysis.

### Patents Applied:

1. Tahira Akhter and S. Hemalatha, Green nano particles as novel antibiotic resistance breakers (Application number 201741038842)
2. Tahira Akhter and S. Hemalatha, Endophytic nano particles as an alternative to antibiotics to control Pathogenic bacteria (Application number 201741038843)
3. Tahira Akhter and S. Hemalatha, Endophytic nano particles suppress biofilm formation in human pathogens (Application number 201741038645)

4. Tahira Akhter and S. Hemalatha, Myconano- particles suppress the colonization of plant pathogenic fungi (Application number 201741038646)
5. S. M. Fazeela mehboob Begum and S. Hemalatha, Novel akt inhibitor to control lung cancer (Application number 201741037941)
6. S. M. Fazeela mehboob Begum and S. Hemalatha, Novel p13k and akt inhibitor that can control different types of cancer (Application number 20174103794)
7. Mohd. Shahanabaj khan and S. Hemalatha, New Chemo Priming compound to protect plants grown under saline stress.
8. Mohd. Shahanabaj khan and S. Hemalatha, Novel bio priming compounds help to cope up with water stress
9. Mohd. Shahanabaj khan and S. Hemalatha, Novel autophagy modulators enhance growth and development of plants under abiotic stress conditions
10. Mohd. Shahanabaj khan and S. Hemalatha, Novel methods for isolation of bio-priming compounds to enhance the plant growth
11. S. Priya and S. Hemalatha, Novel compound that inhibits ZIKA virus entry (Application number 201841002981)
12. S. Priya and S. Hemalatha, Novel Inhibitor targets ZIKA virus envelope protein to control replication (Application number 201841002982)
13. S. Priya and S. Hemalatha, Entry Inhibitor: A new class of ZIKA virus drug candidate (Application number 201841002983)
14. S. Priya and S. Hemalatha, Design and Synthesis of novel ZIKA virus Entry Inhibitors (Application number 201841002984)



15. S. Priya and S. Hemalatha, Antiflaviviral inhibitor in the Treatment and Prevention of ZIKA viral Infection (Application number 2018410029825)
16. S. Priya and S. Hemalatha, ZIKA entry inhibitor : a new generation of antiflavivirus drugs (Application number 201841002986)
17. S. Priya and S. Hemalatha, Structure-based design of non-peptide inhibitors specific for the ZIKA virus (Application number 201841002987)
18. S. Priya and S. Hemalatha, Novel compounds with Anti flaviviral properties (Application number 201841002988)
19. M. Sathyapriyan and S. Hemalatha, BSP-PS, a novel packing system to enhance the shelf life of bananas

#### **International Visits By Faculty / Students:**

##### **Faculty**

Dr. R. Karthikeyan

- Through Erasmus fund delivered one week course in University of Nottingham in September 2017
- Through Erasmus fund delivered invited talk in University of Nottingham in September 2017. Through Erasmus fund delivered three day workshop in University of Nottingham in September 2017.

Dr. Shahul Hameed:

Through Erasmus fund delivered one week course in University of Nottingham in September 2017

##### **Students**

Mr. Adil Mohamed has carried out his final year project in University of Malaysia, Malaysia from January to June 2018 in a collaborative project between Dr. S. Hemalatha and Dr. Tengku Ain Kamalden,

## Achievements of Staff

Dr. S. Hemalatha	<ul style="list-style-type: none"> <li>● Delivered invited talk in AICTE sponsored National seminar on Challenges and opportunities in green Nano Technology, Held on 25, 1, 2018, Vels University, Chennai</li> <li>● Selected among 20 researchers from India for The UK-India Newton-Bhabha Fund Researcher Links Workshop on working at the chemistry-microbiology interface to develop new antibiotics for tackling antimicrobial resistance and resistant TB</li> <li>● Fellow-Society of Pharmaceutical and educational research (SPER)</li> <li>● President SPER-TN- Chapter.</li> <li>● Reviewer in Journals of Acta Physiologiae Plantarum, Natural Product Research, Plant Growth Regulation, Archives of Agronomy and soil science, Plant methods, Bioinformatics, Proteomics, International, Journal of Food, Agriculture and Veterinary Sciences, Indian Journal of Fundamental and Applied Life Sciences, Indian Journal of Plant Sciences CIBTech Journal of Biotechnology, CIBTech Journal of Bio-Protocols, CIBTech Journal of Microbiology</li> </ul>
Dr. R. Karthikeyan	<ul style="list-style-type: none"> <li>● Through Erasmus fund delivered one week course in University of Nottingham in September 2017</li> <li>● Through Erasmus fund delivered invited talk in University of Nottingham in September 2017. Through Erasmus fund delivered three day workshop in University of Nottingham in September 2017.</li> <li>● Reviewer for Process Biochemistry, Journal of dental research Archives of oral biology, International Journal of Nanomedicine, Caries Research, Clinical Microbiology: Open Access, International journal of biology and biological sciences, Journal of medicine and medical Sciences, International Research journal of Biotechnology, Journal of Bioremediation &amp; Biodegradation.</li> </ul>
Dr. P. Ashok	<ul style="list-style-type: none"> <li>● Selected as Vice-President for Society for Phytopharmacology</li> </ul>

Kumar	<p>and Research-India, Vishakapattanam, India.</p> <ul style="list-style-type: none"> <li>● Reviewer for the following journals: Journal of Experimental &amp; Clinical Cancer Research, Future oncology, Drug Design Development and Therapy, OncoTargets and Therapy, Human and Experimental Toxicology and Journal of Natural Agents and Molecular Therapeutics</li> </ul>
Dr. Soumen Bera	<ul style="list-style-type: none"> <li>● Reviewer for Journals : The International Journal of Biochemistry &amp; Cell Biology, Tumor Biology, Environmental Science &amp; Technology</li> <li>● Encouraged students of his class and established Roof top herbal organic garden</li> </ul>
Dr. Shahul Hameed	<ul style="list-style-type: none"> <li>● Delivered invited talk on Workshop on 4-R approaches in Pharmacology and Toxicology" held on August 4, 2017 at Department of Pharmacology, SRM University</li> <li>● Through Erasmus fund delivered one week course in University of Nottingham in September 2017</li> </ul>
Dr. Shahanabaj Khan	<ul style="list-style-type: none"> <li>● 1st prize for Oral presentation in "National level conference on biotechnological advances towards sustainable agriculture and environment" Organized by Hindustan College of Arts and science, Chennai, India, On 24th August 2017.</li> </ul>
Dr. G. Harish	<ul style="list-style-type: none"> <li>● Delivered invited talk on Scholarship and Fellowship opportunities for young researchers in India" in Azyme Biosciences, Bengaluru on 13th January 2018.</li> </ul>

### Achievements of Students

Vinodhini .S	Won "Best Revolutionary project award" in 'Sarvashastra 2017' organized by MGR University
Sugirdhana .P	Won Best Science & Technology project award in 'Sarvashastra 2017' organized by MGR University
Mohammed Faheem	Won PECOFES 2017-spell Bee won
Ms. Zakia Fathima	DBT sponsored Biotech Industrial Training Programme (BITP) with BCIL fellowship.

B. Famidha	Won second prize in poster presentation in National conference on applications of Green Technologies for separations of Bio-products, Sree Sastha Institute of Engg. & Technology September 2-3, 2015
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### Developmental Activities

- GATE CSIR coaching
- Plagiarism Campaign
- 3 new UG labs constructed
- Journal club for UG

### Industry / Institute Collaboration

Name of the industry	Outcomes of the Industrial collaborations
1. Xinovem	<ul style="list-style-type: none"> <li>• Mou signed</li> <li>• 2 research projects were submitted to ICMR and DST</li> <li>• Areas of collaboration: Bioinformatics, drug designing</li> <li>• 5 joint research manuscripts are communicated</li> </ul>
2. Pentagrit	<ul style="list-style-type: none"> <li>• A new tissue based screening technology was developed to test the efficacy of bioactive compounds from sea weed sponsored research grant for Ph.D research scholar Fazeela</li> <li>• Collaborative research in molecular drug screening by using novel tissue chip technology</li> <li>• Divij Kinger II year B.Tech student was selected to undergo Entrepreneurship training and International market analysis.</li> <li>• One joint research article communicated</li> <li>• Mr. Benin CEO of Pentagrit is serving as member board of studies</li> </ul>
4. Medall	<ul style="list-style-type: none"> <li>• Industrial visit for our students</li> <li>• 1 joint research project submitted to DBT</li> <li>• Planning to offer joint DMLT course to undergraduate students</li> </ul>
5. Hi rise Food Tech laboratories	<ul style="list-style-type: none"> <li>• Collaborative research in food microbiology</li> <li>• teaching course in food biotechnology</li> </ul>
7. Aaranya biosciences	<ul style="list-style-type: none"> <li>• Collaborative research on phytomedicine, and NGS are initiated</li> <li>• Planning to submit industry university grants</li> </ul>
8. Geomarine biosciences	<ul style="list-style-type: none"> <li>• Collaborative research in food microbiology</li> </ul>
9. Biozone	<ul style="list-style-type: none"> <li>• Interested to offer paid internships, training</li> <li>• Signed MOU</li> </ul>

10. Protivea	<ul style="list-style-type: none"> <li>• Willing to be a patent consultant</li> <li>• training in business skills</li> </ul>
11. Xcode	<ul style="list-style-type: none"> <li>• Joint research collaboration in nutrigenomics</li> <li>• Dr. Saleem is serving as member board of studies and willing to be an adjunct professor</li> </ul>
12. Bioklone	<ul style="list-style-type: none"> <li>• Dr. Rajeshwari is serving as member board of studies</li> </ul>

## Society Activities

### ➤ SPER-Tamilnadu Chapter

All the students are members in Society for Pharmaceutical education and Research and international conference was organized during February, 2018

### ➤ Biotech students Association

Undergraduate research symposium was conducted in March 2018

Exon 2018 was conducted in March 2018



## Mous Signed



**University of Nottingham, UK:**

MOU was signed on 22. 12. 2017

**University of Malaya, Malaysia:** MOU was signed on 12.12. 2017

**University of Central Lancashire, UK :**MOU was signed on February 2018

**MOU was signed with Cheria hospital,Chennai on April, 2018**

**Extension Activity Conducted :**

**DBT sponsored free popular lectures in biotechnology** was conducted for school and college students on August, 2, 2017

**Important Visitors**

- 1.Dr.Christopher Taylor Bary,University of Newyork , USA
- 2.Dr.Jaipaul Singh, University of central Lancashire,UK
- 3.Loick Royant,CEO,Leory Biotech, France
- 4.Kamalinder.K.Singh,University of central Lancashire,UK

**Other Information**

**START-UP COMPANY**



**Faheem**  
(Inventor)



*Biotechnology based start-up company  
primarily focused on the emerging trends  
in biological research*

**1, Start up  
company by  
B.Tech student  
(2014-18)**

## 2. Students selected for Admission in Universities from abroad

### HIGHER STUDIES IN FOREIGN UNIVERSITIES



Amrutha.B



NORTHWESTERN  
UNIVERSITY

USA



Rohini.B



McGill  
UNIVERSITY

Canada



Amrutha.E



MASSEY  
UNIVERSITY

New Zealand

## 3. GATE qualified students

### GATE 2018 QUALIFIERS



Aadhirai



Vinodhini



Ashwini

## **SCHOOL OF ARABIC AND ISLAMIC STUDIES**

### **Conferences / FDP / Seminars / Workshops Conducted**

<b>S. No</b>	<b>Name of the Seminar/ Conference/ Workshops</b>	<b>Organized by</b>	<b>Month and Year</b>	<b>Resource Person</b>
1.	One Day workshop on “Personality Development in the perspective of Islam”	School of Arabic and Islamic Studies	25 <sup>th</sup> August 2017	Mr. Umar Sheriff E, Academic Director, AlFajr International School, Chennai

### **Conferences / FDP / Seminars / Workshops Attended**

#### **Papers Presented in International /National Conference:**

1. Dr. P.S. Syed Masood Jamali “A Study on Derivation of Shariah rulings for Modern medical issues” in the proceedings of International conference on **‘Role of Islamic Jurisprudence in dealing with contemporary issues’**Trichy,India,October 2017.
2. Dr. P.S. Syed Masood Jamali and Dr.S.Abdus Samad “Difference in the opinion and unity in the objective” in the proceedings of **‘How the Differences of opinion lead to division in the community?’**Chennai, India,November 2017.
3. Dr. S. Abdus Samad,‘The Multifaceted Personality of The Prophet Mohammed (Peace Be Upon Him)’ UGC Sponsored One Day National Colloquium organized by Department of Arabic, Tirunelveli,India,December 2017



**Workshop:**

	Depart ment	Name of the Faculty Member	Conference Title	Month and year of Conference
1.	School of Arabic and Islamic Studies	Mr. A. Abdul Hai Nadwi	Acted as a resource person in One Day National Workshop on “ <b>Comprehending and Classifying the commentaries of the Holy Quran</b> ”, Organized by Sadakathullah Appa College (Autonomous), Tirunelveli.	5 <sup>th</sup> October 2017

**Papers Published/ Presented In Journals & Conferences**

(Total Numbers Only)

National Conference	International Conference	National Journal	International Journal	Total
<b>3</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>9</b>

**Details of Publication in National & International Journals & Conferences: (IEEE Format)****International Journal:**

1. P.S. Syed Masood Jamali, “A study on derivation of Shariah rulings related to Modern medical issues”, Jamal Academic Research Journal: An Interdisciplinary, Vol:10, NoNo: 1, pp: 12-23, October 2017.
2. Mohamed Ashraf, Abdul Hai A and Syed Masood, “Modern Techniques for Teaching Arabic for Non-Arabs: A Role played by Bukhari Aalim Arabic College in developing the techniques”, Majalla al-Aasima (Refereed Research Journal), Vol.No:9, pp: 183-188, December 2017.
3. S. Abdus Samad, “Artistic beauty in the style of Quranic stories”, Majalla al-Aasima (Refereed Research Journal), Vol.No:9, pp: 107-110, December 2017.

4. Khalid Waheed, "Interest-free Microfinance in India: A Case Study of the Al-Khair Cooperative Credit Society", Journal of King Abdulaziz University: Islamic Economics (KAUJIE), Jeddah, KSA: Vol. 31, No. 1, pp 47-66, January 2018.
5. P.S. Syed Masood Jamali and A.M. Ali Ibrahim Jamali, "A Critical Review of John Adair's 'The Leadership of Muhammad'", Sri Lankan Journal of Arabic and Islamic Studies (SLJAIS), South Eastern University of Sri Lanka, Vol.No:1, Issue No:2, pp: 76-90, May 2018.
6. P.S. Syed Masood Jamali and A.M. Ali Ibrahim Jamali, "Leadership in the Perspective of Islam", Tilmeez International Arabic Journal, Vol.No:1, NoNo:5, pp: 84-96, May 2018.

### **Achievements of Staff**

- ❖ Mr. S. Abdus Samad, AP – SAIS, received the Ph.D degree in April 2017.
- ❖ Ph.D research thesis of Mr. S.A. Usman Ali, Research Scholar under the supervision of Dr. P.S. Syed Masood Jamali has been approved and completed his Viva Voce.
- ❖ Mr. A.M. Ali Ibrahim, AP – SAIS, has been selected as the Editorial Board member in Nova Journal of Arabic Studies, Nova Publishers, Canada.
- ❖ Mr. A. Abdul Hai, AP – SAIS, has submitted his Ph.D thesis in the University of Madras.

### **Achievements of Students**

<b>S.No.</b>	<b>Name of the Students</b>	<b>Class &amp; Section</b>	<b>Title of the Award, Issuing Institution or Organization , venue and date</b>
1.	Mohamed Nasar .A	B.A.I.S. III year	Won the First prize in Arabic Oratorical competition in the "SOUL - 2017" organized by Hindustan College of Arts and Science, Chennai.
2.	Niyazudeen. S	B.A.I.S.	Won the Second prize in Arabic

		III year	Oratorical competition in the “SOUL - 2017” organized by Hindustan College of Arts and Science, Chennai.
3.	Mohamed Rifai. H	B.A.I.S. II year	Won the Third prize in Arabic Oratorical competition in the “SOUL - 2017” organized by Hindustan College of Arts and Science, Chennai.
4.	Mohammed Dawood Ansari	B.A.I.S. II year	Won the First prize in Arabic Essay Writing competition in the “SOUL – 2017” organized by Hindustan College of Arts and Science, Chennai.
5.	Niyazudeen. S	B.A.I.S. III year	Won the Third prize in State Level Oratorical Completion organized by Muslim Students Forum, Chennai.

### Developmental Activities

- Revamped the syllabus and curriculum of B.A. Islamic Studies and M.A. Islamic Studies

### 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. Once in a semester, after scrutinizing the application received from the needy students, scholarships and medical aids are dispersed.

### **Extension Activity Conducted**

- Dr. P.S. Syed Masood Jamali, Dean – SAIS was the External examiner in Viva Voce Examination of two Ph.D Scholars in the University of Madras and one Ph.D scholar in Bharathidasan University.
- Mr. A. Abdul Hai Nadwi was a Resource person in the workshop on **'Comprehending and Classifying the commentaries of the Holy Quran'** on 5<sup>th</sup> October, 2017 at Sadakathullah Appa College, Tirunelveli.

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

- **Social Sciences & Humanities**
- **Department of English**
- **Department of Commerce**

## **DEPARTMENT OF SOCIAL SCIENCES & HUMANITIES**

### **New Programmes Started:**

Tamil and German Language Courses were introduced in the academic year 2017-18 for the B.Tech, B.Com and B.Sc Biotech programmes. .

### **Conferences / FDP / Seminars / Workshops Conducted: 1**

### **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>
3	4	0	4	11

### **Details of Publication in National & International Journals & Conferences:**

#### **INTERNATIONAL JOURNAL – LIST OF PUBLICATIONS**

1. Devi P, “Menstrual Hygiene: Knowledge and Practices among adolescents in rural Areas”, International Journal of Research in Economics and Social Sciences (IJRESS), Vol. No. 7, NoNo. 5, pp. 251-264, June 2017
2. Devi P, “Antenatal Care Practices and outcome of Adolescent Pregnancy in Rural Tamil Nadu”, International Journal of Research in Economics and Social Sciences (IJRESS), Vol. 7, No. 5, pp. 212-222, July 2017.
3. Muhammed Jamsheer T.P, “Demonetized Monetary system and Digital Economy: An analysis with Reference to the Indian Economy”, International Journal on Global Business Management (ISSN - 2278 8425) ( UGC - Recognized), Vol. No. 7, NoNo. 1, February 2018.
4. Muhammed Jamsheer T.P, “Unequal Growth Trajectories: A Brief analysis of Growth Experience among Indian States”, International Journal on

### **INTERNATIONAL CONFERENCE**

1. Muhammed Jamsheer T.P, "Inclusive Higher Education and Migration in India: Issues and Challenges", Proceedings of International Conference on Economic Growth and Sustainable Development: Emerging Trends, ISBN No. 9789383302260, 10 and 11 November 2017.
2. Muhammed Jamsheer T.P, "Demonetized Monetary system and Digital Economy: An analysis with Reference to the Indian Economy", Proceedings of International Conference on Economic Transformation with Inclusive Growth, at Rajalakshmi Engineering College, Chennai, January 2018.
3. Muhammed Jamsheer T.P, "Unequal Growth Trajectories: A Brief analysis of Growth Experience among Indian states", Proceedings of International Conference on Economic Transformation with Inclusive Growth , at Rajalakshmi Engineering College, Chennai, January 2018.
4. Muhammed Jamsheer T.P, "Need of Inclusive Growth Policies: Un-exclusive Development Experience in India", Proceedings of the international conference on Emerging Trends in Commerce, Management, Economics, Computer Science and Microbiology (ICETCMECM 2018) at Tagore College of Arts and Science, Chennai-44, February 2018.

### **NATIONAL CONFERENCE**

1. Muhammed Jamsheer T.P, "Currency Extinguishes, Repercussions and its impact on the Cash based economy", Proceedings of the National conference on Cashless India and Financial Inclusion: Challenges and Benefit, 20 and 21 September, 2017.

2. Hussain, Moon Moon, “An Overview of the Public Policy and Social Protection for the Aged Community in India”, Proceedings of the National conference on Elder Abuse and Social Exclusion, January 2018.
3. Devi, P., “Health Status, Family Relation and Living Conditions of Elderly People in Rural Areas of Tamil Nadu”, Proceedings of the National conference on Elder Abuse and Social Exclusion, January 2018.

### **Sponsored Research (Ongoing / Applied)**

<b>S.No.</b>	<b>Principal And Co-Principal Investigators</b>	<b>Funding Agencies</b>	<b>Project Title</b>	<b>Amount (Rs)</b>	<b>Status</b>
1.	Dr. P Devi	ICSSR, Hyderabad	Maternal and Child Care practices Among Irulas adolescent Mothers of Nilgiri District of Tamil Nadu	1.47,500	Under Review
2.	Dr. P Devi	ICSSR, New Delhi	Reproductive Health Practices of Marginalised Adolescent Mothers in Rural Tamil Nadu	4,90,500	Under Review
3.	Dr. Moon Moon Hussain	ICSSR, New Delhi	Growth, Pattern and Determinants Of Public Expenditure in Tamil Nadu	4,56,900	Under Review

### **Achievements of Staff:**

Dr. Muhammed Jamsheer TP awarded Ph. D Degree on January 2018 from Hyderabad University ,Dr.Anees awarded Ph.D Degree on 21.5.2018 from English and Foreign languages University and Mr.Noushad.C submitted Ph.d Thesis at Pondicherry Central University on May 2018.

### **Extension Activity Conducted:**

The School organized a guest lecture on “Transforming Indians to Transform India” on 24/8/2017. The lecture was delivered by Mr. Ananta Kumar Giri, PhD, Professor, Madras Institute of Development Studies, Chennai.



**Important Visitors:**

Mr. Ananta Kumar Giri, PhD, Professor, Madras Institute of Development Studies, Chennai visited to deliver a guest lecture on “Transforming Indians to Transform India” on 24/8/2017.

**Other Information:**

The school conducted a one day workshop on “Mental Health and Stress Management for Teachers” on 7/3/2018. There was an overwhelming response for the workshop.

**CHAPTER IN EDITED BOOK**

1. Hussain Moon Moon, “Green Economy: A Tool for Transitioning to Sustainable Development”, Cleanliness As Godliness, Shanlax Publications, ISBN: 978-93-86537-26-3, March 2017.
2. Devi P, “Importance of Sanitation- An Overview” Cleanliness As Godliness, Shanlax Publications, ISBN: 978-93-86537-26-3, March 2017.
3. Muhammed Jamsheer T.P, “Currency Extinguishes, Repurcussions and its impact on the Cash based economy” Cashless India and Financial Inclusion: Challenges and Benefit, Shakti Publishers, ISBN: 978-93-81899-80-9, September 2017.

## **DEPARTMENT OF ENGLISH**

### **Training Programmes Offered**

- Dr.Revathi Viswanathan, offered training on 'Virtual Learning' in the National workshop conducted for teachers of Engineering and Arts and Science colleges teachers of various institutions across the country.
- Dr.Shahin Sultana organized training for teachers of the department, who serve as speaking examiners for Business English Certificate Examination conducted every year in the institution.

### **Conferences / FDP / Seminars / Workshops Conducted**

Dr.Revathi Viswanathan, conducted a Two-day ICSSR-Sponsored National workshop on 'Virtual learning' in February 2017.

### **Conferences / Seminars Attended**

National Conference	International Conference	Total
3	6	9

FDP/Workshops attended by the staff members -- 12

### **Papers Published/ Presented In Journals**

National Journal	International Journal	Total
2	4	6

Details of Publication in National & International Journals & Conferences: (IEEE Format)

#### **International Journal:**

- Vijayakumar, S. "Improving Content and Form in writing". International Journal of Advanced Research". 603-613. 5 (6). DOI URL: <http://dx.doi.org/10.21474/IJAR01/4456>, 2017

- Vijayakumar.S and Sathikulameen.Development of Multimedia Courseware for Second Language Acquisition. International Journal of Interdisciplinary and Multidisciplinary Studies (IJIMS), Vol 4, No.3,328-337,2017
- .H. Sofia , “Mixed Ability Teaching’ International Journal of Trend in Research and Development (ISSN: 2394-9333), Special Issue ICART-17, August 2017

**National Journal:**

- Ahmad .N and Sultana.S. “Learners Culture &Target Language: Language Transition from Literature. *Language” in India*,Vol.9,pp.40-49.2017
- Sofia, H. “Collaborative Web Tools for Learning English at the Tertiary Level”,*The Journal of English Language Teaching(India)*, Vol - LX, No.2, pp14-24, 2018
- Catherine Annapushpam (2018). “Video Recordings of Oral Presentations and Edmodo App to Enhance Presentation Skills of Students”, *Language in India*. ISSN 1930-2940 18:6pp 110-118 June 2018

**Sponsored Research (Ongoing / Applied)**

S.No.	Principal And Co-Principal Investigators	Funding Agencies	Project Title	Amount (Rs)	Status
1.	Revathi Viswanathan	Indian Council of Social Science Research(ICSSR)	Virtual Learning	1 Lakh	Completed

**a. Book Published**

Dr.Revathi Viswanathan published ‘Technology Enhanced Language Teaching and Training in the Digital Era’ published *Kindle publishers* (Amazon, India & UK) in July 2017.

**b. Book Chapters**

Viswanathan.R (2017).Effectiveness of Teacher Training in Using Latest Technologies: “A Study.of Encyclopedia of Information Science and Technology” Fourth Edition.IGI Global Publications, Pennsylvania.USA. ISBN 13: 9781522522553.

Islam,M.S.(2017). Representation of Religious Fundamentalism in Hanif Kureishi's *My Son the Fanatic*. *Advances in English Studies, Women Empowerment, Business,*

*Humanities & Social Sciences*.Ed. Dr. Rathnakar D.Bala. Ibrahimpatnam: IMRF International Publishing House, : Page No. 35-38. Print. (**ISBN 978-93-86435-25-5**)

Islam,M.S.(2017). "Torn Country Afghanistan and the Taliban in Khaled Hossein's *The Kite Runner*" *Progress in English Studies and Women Empowerment*. Ed.Rathnakar

D.B, Suresh Samson D & Mrinalini B. Chavan. Ibrahimpatnam: IMRF InternationalPublishing House, : Page No. 33-36. Print. (**ISBN 978-93-86435-10-1**)

Islam,M.S.(2017). Patriarchal Domination, Gender and the Social Change in Contemporary Turkey in Orhan Pamuk's *Snow*.

*Progress in English Studies and Women Empowerment*.Ed.Rathnakar D.B, Suresh Samson D & Mrinalini B. Chavan. Ibrahimpatnam: IMRFInternational Publishing House, : Page No. 59-62 Print. (**ISBN 978-93-86435-10-1**)

### **Achievements of Staff**

Mr. S. Vijayakumar was provisionally qualified to receive the degree, Doctor of Philosophy in December 2017.

### **Courses done by staff members**

- Dr. Revathi Viswanathan- Completed a four week course in "Using Virtual Scenarios to Create Effective Learning" conducted by the University of London through 'Future Learn' in June 2018.

- Dr.H. Sofia completed a five week online course in Coursera titled “Teaching Character and Creating Positive Classrooms” conducted by Relay Graduate School of Education during the period 13.2.17-22.3.2017.
- Completed a two week on line course , ‘Why Research Matters?’ in Future Learn conducted by Deakin University and Griffith University, Australia from 1st to 15th March 2018.
- Dr.S.Vijayakumar, completed the following online courses during the period 2017-2018
- Completed a two week online course on “Introduction to Learning and Teaching in Higher Education” offered by Sydney University through future learn in April- 2017.
- Completed a three week online course on “Educational Design in Higher Education” offered by Sydney University through future learn in April- 2017.
- Completed an eight week online course on “Developing your Research Project” offered by university of Southampton through Coursera in June-2017.
- Completed an online course on “communicating complex Information” offered by Purdue University through Coursera in June - 2017.
- Completed a five week online course on blended learning essentials offered by University of Leeds through future learn in December-17 to Jan-2018.

### **Mrs. Catherin Annapushpam**

- Completed a four-week course on “English as a Medium of Instruction” offered by University of Southampton on Future Learn in January 2018.
- Completed a course on “Plagues, Witches and War: The Worlds of Historical Fiction” offered by University of Virginia on Coursera in September 2017.

### **Society Activities**

Dr.P.Rathna, Staff in charge of the Literary Club, Coordinated the events of Literary Day, an intra collegiate literary event and Litrapture, an inter collegiate literary event.

### **Extension Activity Conducted/Attended**

#### **Dr.Revathi Viswanathan, --**

- Presented her views in the panel discussion on “Project based language teaching and learning” in the National Conference on New Perspectives in English Language Teaching’ on 30th and 31st March 2017.
- Presented and participated in the International Symposium conducted by IATEFL and ELTAI BESIG in June 2017.
- Participated in the workshop conducted by TCS Bangalore in July 2017.

#### **Dr.P. Rathna**

- Delivered a lecture on “Soft Skills” in a workshop on “Problem Solving and Soft skills” organised by the Computer Applications Department on 7<sup>th</sup> March 2017.
- Delivered a key note address on “Educational Status of Women” in a two day state level seminar on “Women as a Prestigious Community” organised by Crescent College of Education, Madurai, on 10.03.2017.

#### **Dr. H. Sofia**

- Chaired sessions in the International Conference on ‘Active vs Reactive Texts: Literature, Language, Criticism, Theory and Translation organized by the Department of English, N.G.M.College, Pollachi, 4th and 5th August 2017.

### **Other Information**

- The Business English Certificate Course examination was conducted by the English department in collaboration with the exam cell in November 2017.
- Mrs. Catherine Annapushpam & Dr.S.Vijayakumar have initiated ‘Editing and Proofreading Services’ for Ph.D scholars of the host institution and other institutions.

**c. International Conference Committee :**

<b>S.No</b>	<b>Name of the Faculty</b>	<b>Name of the Committee</b>
1	Dr.Revathi Viswanathan	Serving as Selection Committee member for selecting Papers for WORLD CALL2018

**Editorial Board:**

<b>S.No.</b>	<b>Name of the Faculty</b>	<b>Name of the Editorial Board</b>
1.	Dr.Revathi Viswanathan	<ul style="list-style-type: none"> <li>➤ Editorial committee for IJCALLT (International Journal) since 2011.</li> <li>➤ Editorial Committee member for Handbook of Research on Individual Differences in Computer Assisted Language Learning (since 2014)</li> </ul>
2	Dr.Mrs.Shahin Sultana	<ul style="list-style-type: none"> <li>➤ Academic Editor for the National Journal, 'The Asian ESP Journal'.</li> <li>➤ Member of Editorial Board- 'Online International Peer Reviewed Periodical Journal'.</li> <li>➤ Member of the editorial board of the online International Journal ESP World.</li> <li>➤ Member of the editorial board of the International journal- TESOL</li> </ul>
3.	Dr.P.Rathna	<ul style="list-style-type: none"> <li>➤ Serving as an Editorial board member of International Journal of English and Literature since 2014</li> <li>➤ Editorial board member of International Journal on Studies in English Language and Literature since 2017.</li> </ul>

## **DEPARTMENT OF COMMERCE**

### **New Programmes Started**

B.Com (General) and B.Com (Accounts and Finance)

**Conferences / FDP / Seminars / Workshops Attended: 1**

**Papers Published/ Presented In Journals & Conferences: 9**

National Conference	International Conference	National Journal	International Journal	Total
3	1	3	9	16

### **Details of Publication in National & International Journals & Conferences:**

#### **International Journal: (UGC Listed)**

- [1] A. Rahman, "Role of Personal Value in Investment Decision, "*International Journal of Computer & Mathematical Science*", vol. 7, no 1, 2018
- [2] Rengarajan. V, Kogila. N, and et al., "A study on Customer (Passenger) Satisfaction in Transportation Industry - Case of Southern Railways," *International Journal of Pure and Applied Mathematics*, vol. 119, no.10 Special Issue, pp. 1493-1513, 2018.
- [3] Rengarajan. V, Vijayanand. V, Kogila. N, and et al., "A Comparative Study on Awareness and Usage of Digital Payments Among Customers of Private and Public Sector Banks in the Region of Thanjavur and Kumbakonam" *International Journal of Pure and Applied Mathematics*, vol. 119, no.10 Special Issue, pp. 1515-1528, 2018.
- [4] Nirmala.S.S., Dhivya. M, and et al., "Public opinion on the E-Governance in Madurai District - A Study," *International Journal of Pure and Applied Mathematics*, vol. 119, no.10 Special Issue, pp. 1481-1492, 2018.
- [5] Natarajan. R, Porkodi. T, and et al. "A Study on Consumer Awareness on Consumer Rights in Dindigul District," *International Journal of Pure and Applied Mathematics*, vol. 119, No.10 Special Issue, pp. 1529-1540, 2018.



- [6] Sankararaman. G and Nirmala. S.S., and et al., "A Study on Performance of Select Commodities due to Demonetisation, " International Journal of Pure and Applied Mathematics, vol. 119, No.10, pp 1541-1551, 2018.
- [7] Porkodi. T, "A Study on Consumer Satisfaction and Preference of Colour TV Brands in Tambaram Town.," International Journal of Commerce, Vol. 6, No.4 pp 120-127, 2018.
- [8] Nirmala. S.S "Buying Behaviour of Urban Women in Trichy District - A Study with Special Reference to Consumer Durables," International Journal of Commerce, Vol. 6, No.4 pp 93-101, 2018.
- [9] Kogila. N, "Trust in E-Commerce: Evaluating the Impact of Third Party Seals," International Journal of Commerce, Vol. 6, No 4, pp. 176-181, 2018.

### **International Conference**

- [1] A. Rahman, "International Conference on Science, Technology & Management (ICSTM-2018)", "in The Institution of Engineers India, Visvesvaraya Bhawan, Telangana, Hyderabad, 2018

### **National Conference**

- [1] Porkodi. T, "National Seminar on Consumer Inclusion and Justices – A Paradigm Shift in Digital Era "in Bharathidasan Government College for Women (Autonomous), Puducherry, 2018.
- [2] Kogila. N, "National Seminar on Consumer Inclusion and Justices – A Paradigm Shift in Digital Era "in Bharathidasan Government College for Women (Autonomous), Puducherry, 2018.
- [3] Nirmala. S.S, "National Seminar on Consumer Inclusion and Justices – A Paradigm Shift in Digital Era "in Bharathidasan Government College for Women (Autonomous), Puducherry, 2018.

### **Details of Impact Factor Of The Publication H-Index**

<b>Range</b>	<b>Average</b>	<b>H-Index</b>	<b>No. In Scopus</b>
0.325 - 3.017	1.503	5	6

### **International Visits By Faculty / Student: Yes**

Faculty named Dr. Afzalur Rahman visited Nepal for the purpose of collaboration with educational consultant

### **Guest Lectures Organized**

Guest Lecture on “Career Opportunities for Commerce Graduates” delivered by Mr. C.A. Vijay Stephen, Managing Partner, A. John Moris & Co., Chennai.



Guest Lecture by Dr. Nazrul Islam, Professor and Dean School of Business, Uttara University, Bangladesh



Guest Lecture on “Financial Planning and Capital Market Opportunities” by. Dr.R. Kasilingam, MBA; MCA; BL; ML; ICWA; ACS; MPHIL; PHD. SEBI- Professor, Professor of Management Sciences, Nodal Officer- RTI And CPGRAMS Pondicherry University 11.08.2018



### **Achievements of Students**

Students of Department of Commerce got several prizes and medals in sports. They have also represented our institution in National Level.



### **Society Activities**

Students are involved in NSS.

### **Important Visitors**

Ms. Latha Rajan, Director, MaFoi Consultancy.

Commerce Clubs was inaugurated on 24-10-2017, valuable and motivational speech was given by Ms. Hemalatha Rajan, Director, MaFoi Consultancy, Chennai. and Mr.C.A.John Moris, Managing Partner, A.JohnMoris& Co., Chennai.





## **CRESCENT SCHOOL OF PHARMACY**

### **New Programmes Started**

B. Pharm.

### **Conferences / FDP / Seminars / Workshops Conducted**

Coordinated the IPA National Convention 2017-18 with the Indian Pharmaceutical Association (Tamilnadu State Branch) on 10<sup>th</sup> & 11<sup>th</sup> February 2018.

### **Conferences / FDP / Seminars / Workshops Attended: 08**

### **Papers Published/ Presented In Journals & Conferences (Total Numbers Only)**

National Conference	International Conference	National Journal	International Journal	Total
06	--	--	--	06

### **Details of Publication In National & International Journals & Conferences: (IEEE Format)**

#### **National Conference:**

- S.M. Shahhedha presented poster in the National Level Seminar on Pharmacy Practice and Clinical Pharmacology at Sree Vidyanikethan College of Pharmacy, Tirupati , November 2017
- S.M. Shahhedha had an Oral presentation in the National Level Seminar on Current Trends in Pharmaceutical Sciences, Sri Venkateswara College of Pharmacy, Chittoor ,September 2017.
- S.M. Shaheedha made an Oral presentation in the National Level Seminar on Clinical Research, Pharmacovigilance & Medical Writing, Annamacharya College of Pharmacy, Rajampet ,December 2017
- Y. Ismail presented poster in the National Level Seminar on Pharmacy practice and Clinical Pharmacology at Sree Vidyanikethan College of Pharmacy, Tirupati November 2017

- Y. Ismail presented poster in the National Level Seminar on Clinical Research, Pharmacovigilance & Medical Writing, Annamacharya College of Pharmacy, Rajampet ,December 2017
- Mr. Mohammad Habeeb presented poster in the National Level Seminar on Pharmacy Practice and Clinical Pharmacology at Sree Vidyanikethan College of Pharmacy, Tirupati ,November 2017

### **Important Visitors**

- Dr. B. Suresh, President, Pharmacy Council of India
- Prof. K. Chinnasamy, President, Tamilnadu State Pharmacy Council
- Dr. Vadlamudi V. Rao, President, Common Wealth Pharmaceutical Association
- Prof. T.V. Narayana, President, Indian Pharmaceutical Association
- Mr. J. Jayaseelan, President, IPA(Industrial Pharmacy Division)

## CRESCENT SCHOOL OF LAW

To translate the above vision the Crescent School of Law came into existence with a mission to spread quality legal education. Quest for quality in legal education is the cry of the day and the Crescent School of Law has taken the same as its mission.

The School was inaugurated by Hon'ble Former Judge of Supreme Court of India Justice F.M. Ibrahim Khalifullah on 20th September of 2017. The other dignitaries present in the occasion were Mr. Justice K .M. Basha and Justice Akbar Ali the retired Judges of the High Court of Madras including the Hon'ble Vice Chancellor and the Chairman of our Institution Mr. Janab Abdul Khader Buhari. It was a grand function and was witnessed by large number of advocates educationalists, judges and parents.

The School has a sanctioned strength of 120 students each in both streams of B.B.A.LL.B(HONS) and B.Com .LL.B(HONS) with the total strength of 240. The present strength of the School B.B.A.LL.B is 33 and B.Com LL.B is 19. The classes commenced for First Semester on 23rd August 2017 with 4 core professors for handling Law subjects of which 2 are PhD holders.

The School is spread in a sprawling campus of amidst picturesque environs on Chennai-Trichy Highway at Vandalur, Chennai 600048. The School has well ventilated furnished classrooms .The Institute maintains a very good library with a rich collection of books and subscribes a good number of standard journals (National and International). The staff members of the Institute are well qualified and sufficiently experienced.

In order to provide justice to the common people and to create awareness among the people to get their justice as per the guidance of Bar Council of India , School of Law has established Legal Aid Clinic under the Supervision of Dr. P.V.N.Sarma.(Professor, School of Law).The legal aid clinic will be opened during 9.00 am to 4.00 pm in all working days and also there is a Proposal to conduct Legal Aid Programme in the nearest villages in collaboration with the Legal Aid

Authorities. This is with the view to fulfill the spirit of the Preamble of our Constitution which guarantees Social, Economic and Political Justice to all people irrespective of caste , creed , religion , race , place of birth and so on so forth.

The School is having a Moot Court society to train the students to participate in Moot Court Competitions and to train them in Court Skill and Deliberation. As a maiden attempt, our first year students Sujan and Showkiya were sent to participate in the state level moot court competition conducted by the Bar Association of the Madurai Bench of the Madras High court in the month of April 2018 and they were adjudged as the young participant of the competition by giving a certificate of appreciation.

The Crescent School of law conducted the International women's day. It was a good session and the students expressed their ideas to arrest the crimes against women.

In order to provide legal skill and art a lecture class was conducted 11.04.2018 and Senior Advocate of Supreme Court of India Mr.Sirajudeen, was the speaker.

Our School of Law with a humble start crawling as a baby in this great Institution.



## **ESTATE OFFICE FACILITY MANAGEMENT**

### **Project:**

1. Green Building EDGE certificate received for New Staff quarters and New Ladies Hostel on 06.06.2018
2. First and Third floor of New Architecture Block was handed over on 24.7.2017
3. School of Law & Commerce department handed over on July 2017
4. The 4<sup>th</sup> & 5<sup>th</sup> floor of New Crescent School of Architecture was handed over
5. Ladies Hostel Phase 2 structural work was completed
6. The Interior finishing works of 7<sup>th</sup> floor in School of Mechanical Science block was completed

### **Maintenance and Renovation:**

1. 25 years old toilets renovated in Main block Ground, First & Second floor
2. 25 years old toilets renovated in Science block Ground, First & Second floor
3. 13 years old toilets renovated in Auditorium Ground floor Gents & Ladies Toilet and 1<sup>st</sup> floor Gents toilet.
4. 52 Nos Old toilets renovated in Men's Hostel A, C, D block
5. Placement office minimum renovation work carried out
6. 5m<sup>3</sup> Water treatment plant installed in Life science block to cater to Life Science, Aero Block, Science block toilets.
7. Electrical Power contracted demand from TANGEDCO enhanced to 1200 KVA from 850KVA
8. 100Nos student Dual desk purchased for New Architecture Block
9. Crescent Institute of Science & Technology LED signage installed in GST Road above service complex and above Life science Block
10. Registrar Villa renovated as Guest House
11. New Bio-gas plant of 50m<sup>3</sup> capacity installed and commissioned in Ladies Hostel
12. Women's Medical Hall renovation work carried out
13. Old buildings painted with new colour codes.

14. Additional CCTV cameras installed in ABCD , Main Block & PG Block in Men's Hostel
15. Halal certificate for hostel mess and Main Canteen operations & process obtained from Halal India
16. RO Plants of 50LPH capacity 2 Nos installed in New Architecture Block
17. Our Institute participated in MHRD Swachta Ranking 2017 for Higher Educational Institutions on 24.08.2017 and awarded 96% marks by the AICTE expert verification committee