A.C.S. COLLEGE OF ENGINEERING
BENGALURU
(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi and Govt. of Karnataka)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NEWSLETTER

VOLUME – 1, ISSUE – 2   **ACADEMIC YEAR 2016-17**

Chief Patrons

Sri A.C. Shanmugam
Chairman, Moogambigai Charitable & Educational Trust
Rajarajeswari Group of Institutions

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 Vice Chairman,
Rajarajeswari Group of Institutions

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Mrs. Sunita chalageri
Dr. V. Mareeswari

Patrons

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Executive Director

Er. S. Jayabalan

 Special Officer, Rajarajeswari Group of Institutions

Dr. M.S. Murali

Principal, ACS College of Engineering

ABOUT CSE DEPARTMENT

• The department was established in the year 2009 with an intake of 60 students. It has well qualified and experienced Teaching and Supporting Staff .

• Our department is having total area of -- 1994 sq meters.

• The department has spacious classrooms and a well-equipped computer labs with 185 systems, 2 servers all in a networked environment with un- interrupted power supply.

• Our Department is having smart class room, seminar Hall, Departmental Library , R&D, Language Lab.

• The institution offers Wi-Fi enabled high-speed Internet(60mbps) facility.

• The department is NBA accreditated for 3 years (2016-2019) , NAAC accreditated for 5 years with 'A' Grade (2016-2021) and also ISO certified.

Short Term

GENERAL

• To strive hard to obtain accreditation for five years

• To get NAAC accreditation with A++

• To establish knowledge incubation centre with support by industry

ACADEMIC

• To achieve 100% result consistently

• To secure University ranks

• To take up R&D towards society relevant projects

• To organize national level technical events in association with CSI, ISTE

• To motivate the students to obtain fellowship and internship

STAFF

• To participate in more number of seminars, FDP's, workshops & conferences

• To get funding proposal in various Agencies to carry out research activities

• To present / publish more number of papers in reputed Journals and conference

Long Term Goals

- To obtain continuous improvement in the overall result of the department.

- To establish Research and Development Lab in Collaboration with Industry.

- To obtain project awards in National and International level.

- To encourage every faculty towards research leading to their Ph.D.

- To improve the campus recruitment for all the students in the industries.

- To adopt green computing for the existing system.

QUALITY POLICY

- Empower the stakeholders in the process of continuous improvement of the department
- Inculcate the importance of interdisciplinary research
- Progressively updating the practical implementations towards entrepreneurship

VISION

The vision of the Computer Science and engineering department is to provide excellence knowledge and enrich the problem solving skills of the students in the field of CSE with a focus to prepare the students for industry need, carry out research, recognized as innovative leader, responsible citizen and improve the environment

MISSION

M1. Prepare the students with strong fundamental concepts, analytical capability, programming and problem solving skills.

M2. Create an ambience of education through faculty training, self learning, sound academic practices and research endeavors.

M3: Provide opportunities to promote organizational and leadership skills in students through various extra- curricular and co-curricular events

M4: To make the students as for as possible industry ready to enhance their employability in the industries.

M5: To improve department industry collaboration through internship programme and interaction with professional society through seminar/workshops.

M6: Imbibe social awareness and responsibility in students to serve the society and protect environment

COURSES OFFERED

BE – Computer Science Engineering

- The Department of Computer Science and engineering was established in 2009 with an intake of 60

- Faculty cadre ratio -1:3:8 available- 1:3:8

- Foreman/supervisor : 1

- Instructor/Asst. instructor: 1 / lab

- Helper : 1 / lab

- Instructional area :More than 66 sq.m / Room

- Laboratory area :More than 660 sq.m

M.Tech – Software Engineering

- Started in 2014 with an intake of 18

- Faculty cadre ratio -1:1:1 available- 1:1:1

- Technical assistant: 1

- Instructional area :Two each 33 sq.m / Room

- Laboratory area :More than 66 sq.m each lab

ABOUT THE HOD

Dr.B.S.PRADEEP B.E, M.Tech, Ph.D, D.Sc
Professsor &Hod, Dept.of CSE
ACSCE, Bengaluru.

Personal Details:
15+ years of Experience.
Industry: 3 year as Director of International R&D department at Linyi Top Network Company Ltd, Linyi City, Shanhong province, China.
12 year with various capacities in academics
68 number of publications in his credit involves patents, journals, Text books & Technical articles in various conferences in India and abroad.
He has visited countries like Malaysia, Singapore, Dubai, USA, Hongkong & china.
He has received many awards in India abroad including 2 gold medals.

Received award:

Sl No.	Year	Name of the award
1	2016	Taishan Industrial Expert
2	2015	2015-Top 10Technology Leaders from Kai fa qu Govt., Linyi city, China
		Outstanding International Cooperation
		Yimeng friendship award
3	2014	2014-TOP 10 Technology Leaders
		Qilu friendship award-2014
4	2013	2013 Annual innovation & Entrepreneurship Leading Talent
		Doctor of science CSE, Fortjones, California
		Outstanding testimony award from TCSiON, Bangalore
5	2012	Best Researcher Award from RRCE, Bangalore

FACULTY DETAILS

PARTICULARS	QUANTITY
TEACHING FACULTY	17
NON TEACHING FACULTY	12
COMPLETED Ph. D	5
PURSUING Ph. D	6

STUDENT DETAILS

PARTICULARS	QUANTITY
I –YEAR	60
II – YEAR	56
III – YEAR	28
IV - YEAR	34

PhD Applicants from the Dept. 2016-17

Sl No.	Name of the Faculty	Field	Guide
1	Mrs. Jyothi Metan		
2	Mrs. Sunita Chalageri	WSN	Dr. T. Senthil Kumaran
3	Mrs. Kavita Patil	WSN	Dr. T. Senthil Kumaran
4	Mr. Mahantesh Mathapati	WSN	Dr. T. Senthil Kumaran
5	Mrs. Usha	IOT	Dr. T. Senthil Kumaran
6	Mr.Krishna kumar		Dr. T. Senthil Kumaran
7	Mr.S.Vinoth kumar		Dr. S Bension Edwin raj

ACTIVITIES CONDUCTED IN THE DEPARTMENT-2016-17

Sl. No.	Event	Conduction date	Resource person
1	A Two days Industry workshop on Software Testing	27.03.2017 to 28.03.2017	Anantha Somayaji, Rtd. Advisory S/w Engg. Manager of IBM, Co-founder and CEO of by-UniQval Software Solutions Pvt. Ltd., Bengaluru
2	Expert Seminar on Finishing IT Placement Training Program	21.03.2017	Mr. K. Ravindra, Developer & Founder, Ekalavya Universys, Bengaluru
3	CSI Student chapter activity – CSI Day Technical Quiz, Logo Design, Typing master, Web designing, Debugging	6.03.2017	Dr. B.S. Pradeep Prof. & HoD, CSE Dr. T. Senthilkumaran, Assoc. Prof., CSE
4	CSI Professional Society activity-Technical talk on Phython in Today's world	28.02.2017	Mr. Nagesh Rao, CEO & Managing Director, Cyberplus Infotech Pvt. Ltd., Bengaluru
5	Industry Visit to Infosys, Mysore	5.11.2016	Infosys Authorities, Spark-Campus connect department, Mysore
6	Technical talk on IOT & its applications	27.10.2016	Mr. Yashwanth, Project Manager, Aruba-HPE, Bengaluru
7	CSI Professional Society activity- One day workshop on Cross Platform Mobile App Development	3.10.2016	Mr. G. S. Hanumantha Reddy, Technical Lead, Microsoft and Ankpro Technologies
8	CSI Professional Society activity-Technical talk on Web Mining	19.08.2016	Mr. Venkata Reddy P. S Technical Lead, Infosys, Bengaluru

- The Function Of Education Is To Teach One To Think Intensively And to think critically. Intelligence plus character- that is the goal of true education.
- The best preparation for tomorrow is doing your best today.

RESEARCH PUBLICATION

Sl.No.	Title of the paper	Publication	Year of Publication	Authors Name
1	A Survey on usage of FMRI technique in BCI	International journal IJANA, ISSN: 0975-0282,Special issue	May-2016	Dr B S Pradeep
2	Weather Prediction by mass neural networks through am inteharted model approach	International journal IJRTER, ISSN:2455-1457, volume 02,issue 03 Pages: 6-13	May-2016	Dr B S Pradeep
3	Integrated Cluster-based Rule Induction Mining of Temporal Data for Time-Series Analysis	Indian Journal of Science and Technology Vol 9(47), pp 1-8.	Dec-2016	Dr T.Senthil Kumar
4	Dynamically Miticating Flooding Overhead and Automatic Repairing for Mobile Ad Hoc Networks	International journal ASIAN JOURNAL OF APPLIED SCIENCES (ISSN: 2321 - 0893) Volume 4, Issues 4, pp1-8	Aug-2016	Dr T.Senthil Kumaran
5	Optimizing Text To Speech Converter	International journal ISSN (Online): 2320-9801,IJIRCCE Volume 4, Issues 8, pp 14940 - 14945	Aug-2016	Dr T.Senthil Kumaran
6	An Innovative Design Approach to Control over Ad Hoc Networks	Circuits and Systems, Vol 7, Issue 6, pp 971-982	May-2016	Dr T.Senthil Kumar
7	Effort Estimation of Software Projects With Optimized Coefficients Using Soft Computing Technique	IEEE Conference on Emerging Devices and Smart Systems organized	March 2017	**Dr. D. Siva kumar**
8	Energy Conservation Reliable Routing Protocol in Wireless Sensor Networks	International Journal of Computer Information Systems,Vol.12,No5,November 2016,ISSN 2229 5208,Page 138:197	Nov 2016	Dr.Mareeswari V
9	Fraud Prevention on Credit Card Application Using Hybrid Swarm Optimization Method	International Journal of Emerging research in Management &technology ISSN:2278-9359 vol-	May 2016	Dr.Mareeswari V

RESEARCH PUBLICATION

Sl. No.	Title of the paper	Publication	Year of Publication	Authors Name
1 0	A Survey on Different Sybil Attacks and Defense Mechanisms	International Journal of Computer Information Systems,Vol.12,No5,November 2016,ISSN 2229 5208,Page No:117-122	Nov 2016	Mrs. Kavita K. Patil
11	Sensor-Cloud": Offering Useful Data Reliably to Mobile Cloud From Wireless Sensor Network	International Journal of Computer Sciences & Engineering, Volume - 4,Issue-5, May 2016, ISSN :2347-2693,Page No:135-138	May 2016	Mrs. Kavita K. Patil
12	Request authentication using shared keys for Secured Data Aggregation in Sensor Network	Software Engineering Trends and Techniques in Intelligent Systems. CSOC 2017. Advances in Intelligent Systems and Computing, vol 575. Springer, Cham doi: 10.1007/978-3-319-57141- 6_3	Apr-2017	Mrs. Jyoti Metan
13	Sensor-Cloud": Offering Useful Data Reliably to Mobile Cloud From Wireless Sensor Network	International Journal of Computer Sciences & Engineering, Volume - 4,Issue-5,May 2016,ISSN :2347-2693,Page No:135-138	May 2016	Mrs. Jyoti Metan
14	Secure Data Aggregation Technique for WSN in the presence of Collusion Attack	International Journal of Computer Information Systems,Vol.12,No5,November 2016,ISSN 2229 5208,Page No:112-197	Nov 2016	Mr. Mahantesh mathapati
15	Sensor Cloud: Offering Udeful Data Relaible to Mobile Cloud from wireless Sensor Network	International Journal of Computer Sciences & Engineering, Volume - 4,Issue-5,May 2016,ISSN :2347-2693,Page No:135-138	May 2016	Mr. Mahantesh mathapati
16	A Survey on Congestion in Wireless Multimedia Sensor Networks	International Journal of Computer Sciences & Engineering, Volume - 4,Special Issue-3,May 2016,ISSN :2347-2693,Page No:126-130	May 2016	Mr. Panchaxari Mamadapur
17	Energy Conservation Reliable Routing Protocol in Wireless Sensor Networks	International Journal of Computer Information Systems,Vol.12,No5,November 2016,ISSN 2229 5208,Page 138:197	Nov 2016	Mrs. Sunita Chalageri
18	A Distributive Polling Based Mobile Data Gathering in WSN	International Journal of Emerging research in Management &technology ISSN:2278-9359 vol-5,issue-5	May 2016	Mrs. Sunita Chalageri
19	Cloud Security assessment model for Infrastructure as a service (IAAS) Clouds	International Journal of Emerging research in Management & technology ISSN:2279-9463 vol-5,issue-5 , Jun-2016	Jun-2016	Mr. S.Vinothkumar

ABOUT RESEARCH SCHOLAR

List of staff registered/pursuing Ph. D at various universities

Sl. No.	Name	Center of Registration / University	Date of registration	Guide name	Reserch topic
1	Mrs. Jyohi Metan	VTU Belgaum	Nov 2013	Dr. K N N Narashimha Murthy	Wireless Senssor Networks
2	Mrs. Kavitha Patil	VTU Belgaum	Nov 2015	Dr. Senthil Kumaran T	Congestion control in Wireless Senssor Networks
3	Mr. Mahantesh Mathapathi	VTU Belgaum	Nov 2015	Dr. Senthil Kumaran T	Mobile Wireless Senssor Networks
4	Mrs. Sunitha Patil	VTU Belgaum	Nov 2015	Dr. Senthil Kumaran T	Mobile Congestion control in Wireless Senssor Networks
5	Mr.Krishna kumar	VTU Belgaum		Dr. Senthil Kumaran T	
6	Mr.S.Vinoth kumar	VTU Belgaum		Dr. S Bension Edwin raj	A modernized crypto graphical algorithm for cloud security based on dynamic key management.

STUDENT ACHIEVEMENTS

Sl.No.	Name	Event	Sem
1	Varsha K	Project Based Training Program on CCNA – Routing & switching	5th Sem
2	Varsha K	Internship Program on CCNA – Routing & switching	5th Sem
3	Divyashree S	Training Program on CCNA – Routing & switching	5th Sem
4	Divyashree S	Internship Program on CCNA – Routing & switching	5th Sem
5	Varsha K	VTU theory exam topper , ACSCE	5th Sem
6	Divyashree S	1st place 400 Meters running, Annual sports meet 2016, ACSCE	6th Sem
7	Varsha K	Role of industry and institute interaction make in india	6th Sem
8	Rakesh Kumar	NPTEL online course	6th Sem
9	Varsha K	VTU theory exam topper , ACSCE	5th Sem
11	Divyashree S	Inter collegiat mini project exhibition, Reva University	6th Sem
12	Rakesh Kumar	Bug master, Nation level technical symposium, RRCE	6th Sem
13	Manoj K S	Bug master, Nation level technical symposium, RRCE	6th Sem
14	Divyashree S	Role of industry and institute interaction make in india	6th Sem
15	Tanush Acharya	Role of industry and institute interaction make in india	6th Sem
16	Veena	Winner, dumb charades, PRAXIS, 2K15, ACSCE	6th Sem
17	Rajath Kumar	Android application to track gears using IoT, KSCST	8th Sem
18	Mubeena Taj	Workshop, App design prototyping, iOS finishing school workshop C/o VTU, Nagarabhavi	8th Sem
19	Shalini	2nd place throwball, chairman's trophy sports meet RRGI	8th Sem

ACADEMIC ACHIEVEMENTS – MOU

List of MOU's

S.NO	Name Of the Company	Signed On	Validity
1	SEED InfoTech Limited	16/09/2013	3 year
1	DATA GRID TECHNOLOGEIES PVT LTD	03/04/2014	Life time
2	CMS IT SERVICES	05/11/2015	5 years
3	EDUWIZE	16-03-2016	5 years

ACADEMIC ACTIVITIES – INDUSTRIAL VISIT

INDUSTRIAL VISIT - TCS BANGALORE

SI No	EVENT	TOPIC	DATE	RESOURCE PERSON	TARGET AUDIENCE
1	INDUSTRIA L VISIT	TCS PROJECTS AND SOFTWARE DEVELOPMENT	21-05-2015	ADARSH K BABU TCS SJM TOWERS ANAND RAO CIRCLE,SHESHADRI ROAD, BANGALORE	Students, Dept of CSE, ACSCE

ACADEMIC ACTIVITIES – INDUSTRIAL VISIT

Student Toppers

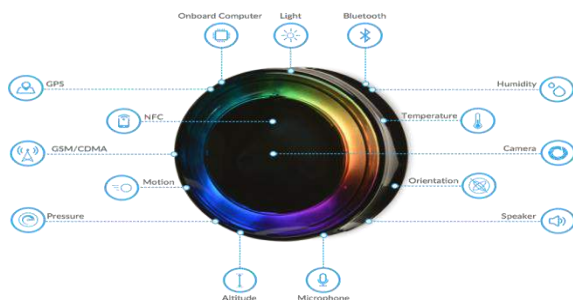| NAME		BATCH
	Akash Dalmia	2015-2016
	Roja	2014 - 2015
	Sangeetha D	2013 - 2014
	yashashwini	2012 - 2013

The MATRIX

The MATRIX

- The MATRIX is an all-inclusive hardware device that connects to the GPIO(General purpose Input output) pins on the Raspberry Pi and provides a means for any developer around the world to start making machine learning, computer vision, and Internet of Things applications within minutes," explains Rodolfo Saccoman, CEO of AdMobilize, the company behind the MATRIX. "We see it as being a building block for the democratisation of IoT and AI. Just as how the iPhone created an all-in-one hardware device that allowed developers to unleash their creativity and build amazing apps, which in turn revolutionised the world, we see the MATRIX Creator doing the same thing for a multitude of industries such as smart homes, intelligent buildings, robotics, security, industrial control, smart retail, drones, custom maker projects, and many more.

- Introducing the matrix, powerful and beautifully designed with 15 sensors and one little device an amazing platform to build endless

- IoT applications. First we had the internet then we had mobiles and now it's internet of things is the most important revolution in technology. Anything in the physical environment can be connected to the online grid, now how do we do that in a way that is really intuitive what the Smartphone did for mobile, Matrix would do for internet of thing. It's really simple to be part of this revolution, first get your matrix then pair with your Smartphone then you login and add apps. Empowered with 15 sensors capable of processing audio, detecting human emotions and responding to stimuli.

- The matrix is breaking new ground on the convergence of the physical and online worlds. Matrix is the perfect marriage of form and function. One unifying platform powered by global creators. It mainly focuses to create a platform that allows one powerful little device with 15 sensors which gives 32,000 possible sensor combinations and allow developers around the globe to create hundreds of thousands of applications. For users it's the simplicity of one device able to do hundreds of things at the same time.

OOHO-EDIBLE WATER BOTTLE

- An 'edible water bottle' that hopes to replace the millions of plastic bottles thrown away every year has raised over £500,000 in a crowdfunding campaign.

- The water ball, named "Ooho!" is a biodegradable and natural membrane which can be fully swallowed and digested, as well as hydrating people in the same way as drinking water.The product is made from a seaweed extract and is tasteless, although flavours can be added to it.

- Skipping Rocks Lab, the company behind it, was founded by three London-based design students, and aims to make a series of sustainable projects of which Ooho! is the first.

- It plans to trial the use of the balls this year and introduce them at major events such as marathons and music festivals.

- Skipping Rocks Lab says the material is cheaper than producing a plastic water bottle. To create the balls, a block of ice is dipped in a solution of calcium chloride and brown algae, and the membrane forms around it. A layer can be peeled off to keep the exterior clean for consumption.

- A campaign on crowdfunding site CrowdCube has raised £582,000, with investments spiking since images of the Ooho! balls went viral. More than 500 people have invested in the project.

- Millions of plastic bottles are thrown away in the UK every year, and ministers at one point considered a plastic bottle charge to clamp down on the numbers being thrown away, filling up landfills and entering the sea.