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

Chief Patrons

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

Sri A.C.S ArunKumar
 Vice Chairman,
Rajarajeswari Group of Institutions

Patrons

Dr. S. Vijayanand
Executive Director

Er. S. Jayabalan
Special Officer
Rajarajeswari Group of Institutions

Dr. M.S. Murali
Principal, ACS College of Engineering

Editors
Mrs. Sunita chalageri
Mr. Vinoth Kumar

ABOUT CSE DEPARTMENT

- The department was established in the year 2009 with an intake of 120 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 Goals

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

STUDENT DETAILS

PARTICULARS	QUANTITY
TEACHING FACULTY	11
NON TEACHING FACULTY	12
COMPLETED Ph. D	5
PURSUING Ph. D	6

PARTICULARS	QUANTITY
I –YEAR	77
II – YEAR	52
III – YEAR	46
IV - YEAR	26

PhD Applicants from the Dept. 2017-18

Sl No.	Name of the Faculty	Field	Guide
1	Mrs. Jyoti Metan	Networking	Dr.K.N.Narasimha murthi
2	Mrs. Sunita Chalageri	WSN	Dr. T. Senthil Kumaran
3	Mrs. Kavita Patil	WSN	Dr. T. Senthil Kumaran
4	Mr.Krishna kumar	WSN	Dr. T. Senthil Kumaran
5	Mr.S.Vinoth kumar	Cloud computing	Dr. S Bension Edwin raj
6	Prasad A Y	Networking	Dr. R. Balakirshna

ACTIVITIES CONDUCTED IN THE DEPARTMENT-2017-18 EVEN SEM

Sl. No	Event	Conduction date	Resource person		
1	Technical Seminar on 'Bigdata Analytics'	8.02.2018	Prof. Dr. Gurudeep S. Hura, Chair, Dept. of Mathematics and Computer Science, University of Maryland Esternshore, Maryland, USA		
2	One day guest lecture on 'Guiding principles for Excel, Navigation, Excel formulas, precedence', 'Building a database on your own & Operations to be performed on database', 'Computer graphics fundamentals and Open GL, programs'.	17.02.2018	Mr.Akash Dhalmiya, Associate Software Engineer, Oracle India Pvt. Ltd. Bengaluru Mr. Mohan N, Business consulting profession, CEB, Bengaluru Mr. Manjunath, Planetsurf creations Pvt. Ltd. Bengaluru		
3	One day guest lecture on 'Subtotal functions/Filtering/sorting and Basic character types', 'Classification of commands and ER diagrams with building tables from ER diagrams',	24.02.2018	Mr.Akash Dhalmiya, Associate Software Engineer, Oracle India Pvt. Ltd. Bengaluru Mr. Mohan N, Business consulting profession, CEB, Bengaluru Mr. Manjunath, Planetsurf creations Pvt. Ltd. Bengaluru		
4	One day guest lecture '3D formula and concatenation of strings', 'Building relationship tables, Creating Table using, Structured Query Language', 'Cpp code to graphics conversion, Projects review, debugging errors with source codes, and demonstration'.	10.03.2018	Mr.Akash Dhalmiya, Associate Software Engineer, Oracle India Pvt. Ltd. Bengaluru Mr. Mohan N, Business consulting profession, CEB, Bengaluru Mr. Manjunath, Planetsurf creations Pvt. Ltd. Bengaluru		
5	One day guest lecture 'Lab view on 3D formula execution, creation of 8x8 matrix and worksheet movement', 'Limiting rows in select statements, Relational operators, clauses and multiple clauses'.	24.03.2018	Mr.Akash Dhalmiya, Associate Software Engineer, Oracle India Pvt. Ltd. Bengaluru Mr. Mohan N, Business consulting profession, CEB, Bengaluru Mr. Manjunath, Planetsurf creations Pvt. Ltd. Bengaluru		
6	Technical Talk on 'Data Analytics using Excel & R'	28.3.2018	Mr. S. Venugopal, A Passionate Data Analytics Professional at HP, EDS, RelQ, Ramsoft, Fusion, Bengaluru		
7	'Algorithmic Thinking & Problem Solving'	9.4.2018	Prof. Dr. S. R. Subramanya, Professor, President & CEO of Exskillence, School of Engineering and Computing, National University, San Diego, CA, USA		

- 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.	Name of the Teacher (s)	Department	Title of Paper	Publication citation	National or International Journal
1	Dr. BS. Pradeep	CSE	Sentiment Analysis Using Product Reviews	IJTRIS, Volume1: Issue1, Page:21-26	International Journal
			The Achievement of 6-bit precision using Instrumentation amplifier interfaced to ARM Cortex M3	IJTRIS, Volume1: Issue1, Page:46-48	International Journal
2	Dr T Senthil Kumaran	CSE	Rescue Vehicle for Medical emergency	IJTRIS	International
			Opinion Based Security Using Exponential Smoothing Method in Mobile Ad-Hoc Network	Journal of Computational and Theoretical Nanoscience (SCOPUS, Web of Science), Vol 14(11), pp. 5552-5558	International
			Sentiment Analysis Using Product Reviews	International Journal of Technological Research & Innovative Solutions (IJTRIS), Vol 1, Issue 1, pp 1- 6	International
			Achievement of a radio monitor station management data framework	Indonesian Journal of Electrical Engineering and Computer Science ,Vol 9(2), pp 200-207. (SCOPUS)	International
			FCM based Segmentation for Medical Images	Research Journal of Pharmacy and Technology, Vol 10, Issuer 12, pp 4350 -55.	International
			Interaction with ATM for Blind	Indonesian Journal of Electrical Engineering and Computer Science ,Vol 9(3), pp 200-207. (SCOPUS)	International
			Extremely Vibrant Routing Scheme for Mobile Adhoc Network	Indonesian Journal of Electrical Engineering and Computer Science Vol 8 (2), pp. 306-310.	International
			Modified Wiener Filter Based Speech Restoration with Autocorrelation of Isolated Kannada Word Speech Recognition	International Journal of Intelligent Engineering and Systems, Vol.11, No.2, 2018. (scopus)	International
			Rescue Vehicle for Medical Emergency	International Journal of Technological Research & Innovative Solutions (IJTRIS), Vol 1, Issue 2, pp 1- 7	International
			Cloud Deployment Methods In Guarantee of Protection and Confidentiality Constraints	Indonesian Journal of Electrical Engineering and Computer Science ,Vol 9(3), pp 200-207. (SCOPUS)	International
			IoT Based Power Management and Controlled Socket	IEEE Conference	International
			Secure Online Examination by using Graphical Own Image Password Scheme	2017 IEEE International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM),	International

RESEARCH PUBLICATION

3	Dr. C S Pillai	CSE	Ontology – PSO ANFIS Rule Based Health maintenance System	IJCRR	International
4	Dr. V Mareeswari	CSE	Bus Alert System for Blind in Real-Time Environment	Springer, Lecture Notes in Networks and Systems book series (LNNS, volume 32), DOI (Digital Object Identifier) https://doi.org/10.1007/97 8-981-10-8201-6_40	International
5	Mrs. Kavita K Patil	CSE	IoT Based Power Management and Controlled Socket	IEEE Conference	International
6	Mrs. Jyoti Metan	CSE	IoT Based Power Management and Controlled Socket	IEEE Conference	International
7	Mr. Panchaxari Mamadapur	CSE	Rescue Vehicle for Medical emergency	IJTRIS	International
8	Mrs. Sunita Chalageri	CSE	Bus Alert System for Blind in Real-Time Environment	Springer, Lecture Notes in Networks and Systems book series (LNNS, volume 32), DOI (Digital Object Identifier) https://doi.org/10.1007/97 8-981-10-8201-6_40	International
9	Mr. A Krishna Kumar	CSE	Secure Online Examination by using Graphical Own Image Password Scheme	2017 IEEE International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM),	International
10	Mr. S Vinoth Kumar	CSE	Secure Online Examination by using Graphical Own Image Password Scheme	2017 IEEE International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM),	International

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. Kavita.K. Patil	VTU Belgaum	Nov 2015	Dr. Senthil Kumaran T	Congestion control in Wireless Senssor Networks
3	Mrs. Sunita Patil	VTU Belgaum	Nov 2015	Dr. Senthil Kumaran T	Mobile Congestion control in Wireless Senssor Networks
4	Mr.Krishna kumar	VTU Belgaum	July'2016	Dr. Senthil Kumaran T	A Biologically Inspired Mechanisim based optimal cluster routing protocol in mobile wireless sensor network.
5	Mr.S.Vinoth kumar	VTU Belgaum	July'2016	Dr. S Bension Edwin raj	A modernized crypto graphical algorithm for cloud security based on dynamic key management.
6	Prasad A Y	VTU Belgaum	May 2013	Dr. R. Balakirshna	Design and Implementation of Energy Efficient and Secure clustering algorithm in MANET USING FUZZY logic.

STUDENT ACHIEVEMENTS

Sl.No	Name of the student	Event Name	Sem
1.	Ranvir Rana	Hacktrack	6th Sem
2.	Ranajay	Hacktrack	6th Sem
3.	Puneet Singh	Hacktrack	6th Sem
4.	Ranvir Rana	Campus Ambassador	6th Sem
5.	Bhagyashree. V	Smart Thinking for Smart Living	6th Sem
6.	Jayashree. T G	Smart Thinking for Smart Living	6th Sem
7.	Lingaraj. N	Smart Thinking for Smart Living	6th Sem
8.	Likith S	Debate	6th Sem
9.	Harshitha G N	Slogan	6th Sem
10.	Sharanya G	Debate	6th Sem
11.	Sohini D S	Debate	6th Sem
12.	Harshitha K	Poster Making	6th Sem
13.	Makam S Meghana	Poster Making	4th Sem
14.	Makam S Meghana	Entrepreneurship Awareness Camp	4th Sem
15.	Makam S Meghana	Debate	4th Sem
16	Sharanya G	Staff Selection Commission	6th Sem
17.	Chaitra	Basic Coding	6th Sem
18.	Chaitra & Krutika	Tech Quiz	6th Sem
19.	Puneet & Ranvir	Tech Quiz	6th Sem
20.	Puneet	Chess	6th Sem
21.	Krutika	Basic Coding	6th Sem
22.	Ranajay & Omprakash	Tech Quiz	6th Sem

FACULTY ACHIEVEMENTS

Sl.No	Faculty Name	Achievements/Awards
1	Dr. B S Pradeep	Visited abroad during Dec -2016/ Jan- 2017, Jun/ July- 2017 and Dec- 2017 for review of patents at Linyi Top N /W co. Ltd., China
2	Dr. C S Pillai	Judge for Technical Debate , ACSCE
		Appreciation certificate for securing 100 % result
		Senior educator and scholar award, NFED, Coimbatore
		Session chair for NCBSIPE-2017
3	Dr.V Mareeswari	Awarded Ph.D. Degree-2017
4	Mrs Kavita K Patil	Appreciation certificate for securing 100 % result
5	Mrs Jyoti Metan	NPTEL Certification on WSN
6	Mrs Sunita Chalageri	Appreciation certificate for securing 100 % result
7	Mr Krishna Kumar	Appreciation certificate for securing 100 % result

ACADEMIC ACHIEVEMENTS – MOU

List of MOU's

S.NO	Name Of the Company	Signed On	Validity
1.	Shreekrish Innovations,R& D Lab,Bengaluru-60.	14/09/2017	3 year

Student Toppers

NAME		BATCH
	Varsha K	2016-2017
	Akash Dalmia	2015-2016
	Roja	2014 - 2015
	Sangeetha D	2013 - 2014
	yashashwini	2012 - 2013

Artificial intelligence

Artificial intelligence(AI)

- The modern definition of artificial intelligence (or AI) is "the study and design of intelligent agents" where an intelligent agent is a system that perceives its environment and takes actions which maximizes its chances of success.

- John McCarthy, who coined the term in 1956, defines it as "the science and engineering of making intelligent machines."

- Other names for the field have been proposed, such as computational intelligence, synthetic intelligence or computational rationality.

- The term artificial intelligence is also used to describe a property of machines or programs: the intelligence that the system demonstrates.

- AI research uses tools and insights from many fields, including computer science, psychology, philosophy, neuroscience, cognitive science, linguistics, operations research, economics, control theory, probability, optimization and logic.

- AI research also overlaps with tasks such as robotics, control systems, scheduling, data mining, logistics, speech recognition, facial recognition and many others.

- Computational intelligence Computational intelligence involves iterative development or learning (e.g., parameter tuning in connectionist systems).

- Learning is based on empirical data and is associated with non-symbolic AI, scruffy AI and soft computing.

- These methods most notably divide into evolutionary algorithms (e.g., genetic algorithms) and swarm intelligence (e.g., ant algorithms).

- It is thought that the human brain uses multiple techniques to both formulate and cross-check results.

- Thus, systems integration is seen as promising and perhaps necessary for true AI, especially the integration of symbolic and connectionist models.

Sandeep K

Revealer.

- New computer program can help uncover hidden genomic alterations that drive cancers

- Cancer is rarely the result of a single mutation in a single gene. Rather, tumors arise from the complex interplay between any number of mutually exclusive abnormal changes in the genome, the combinations of which can be unique to each individual patient.

- To better characterize the functional context of genomic variations in cancer, researchers have developed a new computer algorithm they call REVEALER.

Harshitha K