Department of Computer Science and Engineering CSE

Tech Chronicle

JUNE-2021

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NEWS LETTER

Volume-8, Issue-1

Wise Women in Software

TOASTMASTERS INTERNATIONAL

python

C

C++

HTML 5

Java

mission R&D

B Bootstrap

TEDxBVRITH

BVRIT HYDERABAD
College of Engineering of Women, Hyderabad-500090

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MESSAGE FROM HOD

Greetings from the Department of Computer Science & Engineering (CSE), BVRIT HYDERABAD College of Engineering for Women. It gives me immense pride and pleasure to lead the Department of Computer Science and Engineering. The primary goal of the department is to create Women Technological Leaders of Tomorrow. It molds students into an individual with strong problem solving and critical thinking skills to create innovative solutions for new challenges in science and technology. Department has excellent infrastructural and computing facilities that provide a conducive environment to promote academic and research excellence in the department. The highly qualified, immensely diligent, and experienced faculty is continuously involved in developing the skill set of the students of the department. The department strives to impart knowledge and hands-on training of the highest standard ranging from fundamentals of Computer Science, programming, core courses, and emerging areas like Artificial Intelligence, Machine Learning, Internet of Things, Data Analytics, Cyber Security, Open-Source Technologies, etc. For the overall development of students, the department of CSE is associated with memberships of professional bodies such as ACM, CSI, TechBlitz and coding platforms e-Lab, HackersBay, CodeChef, Hackerrank and Coding clubs, etc. The department is always on its toes to provide an excellent platform through Mentorship, Internship, hobby projects, workshops, industrial visits for the passionate students to inculcate the zeal to learn new things and do something beyond their academics. Since the industry keeps evolving with new technologies, we ensure to keep up with the outside corporate world and impart knowledge amongst our beloved future technocrats!

I extend my warm wishes to all promising engineers of Computer Science & Engineering.

Dr. K. Srinivasa Reddy
Professor & HoD, CSE

Institute Vision

To emerge as the best among the institutes of technology and research in the country dedicated to the cause of promoting quality technical education.

Institute Mission

At BVRITH, we strive to
- Achieve academic excellence through innovative learning practices.
- Enhance intellectual ability and technical competency for a successful career.
- Encourage research and innovation.
- Nurture students towards holistic development with an emphasis on leadership skills, life skills, and human values.

Department Vision

Develop women as technocrats, researchers, and entrepreneurs in the field of computer science and engineering.

Department Mission

M1. To impart quality education in Computer Science and Engineering by means of learning techniques and value-added courses.

M2. To inculcate professional excellence and research culture by encouraging projects in cutting-edge technologies through industry interactions.

M3. To build leadership skills, ethical values, and teamwork among the students.

M4. To strengthen the collaboration of department and industry through internships, mentorships, and professional body activities.

Program Outcomes (POs)

Engineering Graduates will be able to:

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. **Problem analysis**: Identity, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.

4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis, and interpretation of data, and synthesis of the information to provide valid conclusions.

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to the professional engineering practice.

7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Educational Objectives (PEOs)

PEO 1: Develop innovative computing products by utilizing strong technical proficiency and critical thinking.

PEO 2: Productively engage in research by practicing basic principles grounded in allied areas of Computer Science and Engineering

PEO 3: Adapt the emerging technologies to contribute technical innovations for progressive development

PEO 4: Demonstrate professionalism, ethical attitude, teamwork, and leadership skills with lifelong learning in the career.

Program Specific Objectives (PSOs)

PSO 1: Ability to apply learned skills to build optimized solutions pertaining to Computer & Communication Systems, Data Processing, and Artificial Intelligence.

PSO 2: Employ standard strategies and practices in project development using FOSS (Free & Open-Source Software).

About the Department of Computer Science & Engineering (CSE)

The Department of Computer Science & Engineering (CSE) was established in 2012 with the vision of making it a Centre of Excellence. The Computer Science and Engineering Department's goal is dedicated to creating Women Technological Leaders of Tomorrow. It molds students into an individual with strong problem solving and critical thinking skills to create innovative solutions for new challenges in science and technology. The Department of Computer Science & Engineering is propped by well-qualified, experienced, and committed faculty to provide quality industry-tuned education to the students. The department offers exciting opportunities for students to expand their intellectual horizons through guest lectures, technical seminars from eminent industries, and academic personalities and keeps abuzz with activities to develop their technical skills through various clubs driven by active student participation throughout the year. The department is always on its toes to provide an excellent platform through Mentorship, Internship, hobby projects, workshops, industrial visits for the passionate students to inculcate the zeal to learn new things and do something beyond their academics. Faculty and students are encouraged to do certifications offered by NPTEL – SWAYAM, ServiceNow, Coursera, edX, Udemy, NASSCOM, etc, to move the needle on upgrading the proficiency and skill set in the interesting areas. The Department has vibrant Alumni working in top-notch giants in the software industry like Microsoft, Google, Amazon, Flipkart, Salesforce, HP, etc.

Undergraduate Programmes offered by Department of Computer Science & Engineering:

1. Bachelor of Technology (B.Tech) in Computer Science and Engineering (CSE) with an intake of 180
2. Bachelor of Technology (B.Tech) Computer Science and Engineering - Artificial Intelligence and Machine Learning (CSE – AI & ML) with an intake of 60

Achievements by Faculty:

Patents Published:

1. Dr. G. Naga Satish, Professor, Dr. L. Lakshmi, Professor, Mr. K. Bhargav Ram, Assistant Professor filed a patent on "A Decentralized Privacy-preserving Multi-Instance Iris Authentication Device (DPMIAD)" with Application Number: 2021410190 on 30 April 2021.

Papers Published:

1. Dr. N. Sreekanth, Associate Professor, CSE published a paper on "Analysis of Heart Disease Data Using K-Means Clustering Algorithm in Orange Tool" in Intelligent Manufacturing and Energy Sustainability (Springer) Page Numbers 417-423 on 06 April 2021.
2. Dr. G. Naga Satish, Professor, CSE, Prof. R. S. Murali Nath, Professor, CSE published a paper "Analysis of Covid Confirmed and Death Cases Using Different ML Algorithms" in the Intelligent Systems Lecture Notes in Networks and Systems, Vol 185, Springer, Singapore. DOI: https://doi.org/10.1007/978-981-33-6081-5_7, ISBN: 978-981-33-6080-8, pp:73-80, April, 2021.
3. Dr. N. Sreekanth, Associate Professor, CSE published a paper "Getting Useful Information from Cricket Data set Using Data Analytics Techniques Odi Cricket Team Performance Analysis Using Data Mining Classification Techniques" in Turkish Journal of Computer and Mathematics Education, e-ISSN 1309-4653, Vol.12, No.9 (2021), PP. No.684-693.
4. Dr. L. Lakshmi, Professor, CSE, Ms. A. Naga Kalyani, Assistant Professor, CSE, Dr. G. Naga Satish, Professor, CSE, Ms. D. Swapna, Associate Professor, CSE presented a paper on "The preeminence of Fog Computing and IoT enabled Cloud Systems in Health care" at Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV2021) on 04-06 February 2021.
5. Dr. K. Srinivasa Reddy, Professor & HoD published a Science Citation Index Expanded (SCIE) paper on "Efficient Stegnanalysis using convolutional autoEncoder Network to ensure original image quality" on 16 February 2021 in PeerJ Computer Science, pp-1-11, E-ISSN: 2376 – 5992, doi: https://doi.org/10.7717/peerj-cs.356, Impact factor of Journal: 3.09.

Faculty awards / reviewers / resource persons / appreciations:

1. Dr. K. V. N. Sunitha, Professor of CSE and Principal received Best Engineering College Principal and BVRIT HYDERABAD College of Engineering for Women received the Best Engineering College for Women from Ambitions Awards for "Education Excellence -2021" on 30th, January 2021.
2. Dr. K. Srinivasa Reddy, Professor & HoD, CSE reviewer for International Conference on Communication, Information And Computing Technology (ICCICT-2021), IEEE Conference number is 50803, organized by Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology, Mumbai on 15 April 2021.
3. Dr. L. Lakshmi, Professor, CSE reviewed the Article ID: 21M-01-059 with title "Supporting the Management of Predictive Analytics Projects in a Decision-Making Center using Process Mining" of Special Issue for Advances in Science, Technology and Engineering Systems Journal (ASTESJ) on 12 April 2021.
4. Mr. U. Chandra Sekhar, Associate Professor, CSE project on "Food Web" was selected for the Grand Final of Toycathon in the panel theme of Learning Education and Schooling on 22nd, February 2021.
5. Dr. M. Mahesh Kumar, Associate Professor, CSE was the resource person and delivered a lecture on "Regression and Time Series Analysis" at Faculty Development Programme (FDP) on Data Science and Machine Learning with R Programming from 22– 26th March 2021 organized by Saveetha School of Engineering, Chennai on 23rd, March 2021.
6. Dr. L. Lakshmi, Professor, CSE was the resource person and delivered a lecture on "Pre Processing and Feature Selection, Statistical Learning" in Faculty Development Programme (FDP) on Data Science and Machine Learning with R Programming 24th, March 2021 organized by Saveetha School of Engineering, Chennai.

7. Dr. K. Srinivasa Reddy, Professor & HoD, CSE acted as Reviewer for International e-Conference on "Advances in Computer Engineering and Communication Systems"(ICACECS-2021) organized by Department of Computer Science and Engineering, VNRVJIET, funded by AICTE and in association with Springer Nature: the publication partner.
8. Ms. B. Naga Veni, Assistant Professor, CSE delivered a guest lecture on "C Programming" for I Year B.Tech of MNR Engineering College, Hyderabad.
9. Dr. G. Naga Satish, Professor, CSE delivered a guest lecture on "Data Analytics vs. Machine Learning Analytics" on 27 May 2021 in the Faculty Development Program on "Exploring Data Mining and Machine Learning Applications" organized by the Department of Computer Science and Engineering, G. Pulla Reddy Engineering College, Kurnool, Andhra Pradesh during 24th to 28th May 2021.
10. Prof. R S Murali Nath, Professor, CSE completed the Online Orientation Training Programme for Mentors organized from 01 - 05 February 2021 under National Initiative for Technical Teachers Training, AICTE, New Delhi.
11. Prof. R. S. Murali Nath, Professor, CSE nominated as reviewers for the AICTE Student Learning Assessment Project during 01 June 2020 to 30 June 2020

Prof. R. S. Murali Nath, Professor, CSE, received a certificate of High Distinction in "The Foundation Course on Research Methods" Conducted by Dr. Prathiba Nagabhushan and Dr. John Tharakan Organized by Indo Universal Collaboration for Engineering Education (IUCEE) from Oct-2020 to Mar-2021. Received Certificate on 07 May 2021.

Ms. G. Shanti, Assistant Professor, CSE received a certificate of Distinction in "The Foundation Course on Research Methods" Conducted by Dr. Prathiba Nagabhushan and Dr. John Tharakan Organized by Indo Universal Collaboration for Engineering Education (IUCEE) from Oct-2020 to Mar-2021. Received Certificate on 07 May 2021.

Dr. G. Naga Satish, Professor, CSE is evaluator for Toycathon - 2021 Organised by AICTE, Ministry of Education Innovation Cell from 22 - 24 June 2021.

Faculty registered for Ph.D:
1. Ms. B. Naga Veni, Assistant Professor, CSE got PhD admission at Veltech University, Chennai on 19 February 2021.
2. Ms. E.G. Padamavathi, Assistant Professor, CSE got PhD Admission in CMR University, Bangalore on 04 May 2021.

Department of CSE Welcomes

Ms. M. Shanmuga Sundari
Assistant Professor
DoJ: 04-03-2021

Ms. T. Durga Devi
Assistant Professor
DoJ: 24-03-2021

Mr. Y. Madan Reddy
Assistant Professor
DoJ: 30-03-2021

Mr. Vinay Raj
Assistant Professor
DoJ: 22-04-2021

Dr. A. Sudharshan Chakaravarthy
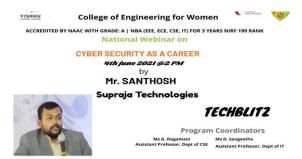Assistant Professor
DoJ: 03-05-2021

Events organized:

ACMW-BVRITH Student Chapter organized ACM Distinguished Program National Webinar on "Machine Learning applications in Food Engineering" by Dr. Gururaj HL, ACM Distinguished Speaker & Associate Professor, Vidyavardhaka College of Engineering, Mysore on 15 May 2021 in association with Institutions Innovation Cell and Departments of CSE & IT. Faculty members and students from different engineering colleges have participated in this event.

BVRITH-CSI Students branch organized a Talk on "The Field of Quantum Computing" by Mr. Bikash K Behra, Founder, Director and CEO, Bikash's Quantum on 13 May 2021 in association with Institutions Innovation Cell and Departments of CSE & IT. Faculty members and students from different engineering colleges have participated in this event.

Departments of CSE & IT conducted a Webinar on "CYBER SECURITY AS A CAREER" organized by TECHBLITZ in association with Institutions Innovation Council on 04 June 2021. Faculty members and students from different engineering colleges have participated in this event.

- Dept of CSE Organized the Two-Day Faculty Development Program on "How to Write Good Research Article & Proposal" on 21 and 22 January 2021. All the staff have attended the Webinar. The Resource Person is Prof. Ganapati Panda, Professorial Fellow, IIT Bhubaneswar.
- The Inauguration of Student Chapter "WiCSP (Women in Cyber Security and Privacy)" BVRIT HYDERABAD College of Engineering for Women on 29th, January 2021. Ms. Sailaja Vadlamudi, WiCSP founder & President has graced the occasion and gave insights on the importance of WiCSP, training details, and internship opportunities through WiCSP.

Students Achievements:

1. Ms. K. Jashwanthi (18Wh1A0588), Ms. V. Nikhitha (18WH1A0579) secured first prize in Unriddle event conducted as part of Medhanvesh-21, a National Level Students Tech Fest, on 29 to 30 January 2021.

2. Ms. K. Satya Priya (18WH1A0559), Ms. B. Bhuvaneswari (18WH1A0537) secured second prize in Unriddle event conducted as part of Medhanvesh-21, a National Level Students Tech Fest, on 29 to 30 January 2021.

3. Ms. T. Sarika (17WH1A0519), Ms. K. Harishini (17WH1A0522) participated in WiDS Datathon 2021and stood in 84 Position on Global Leader Board and 3rd Position in Hyderabad Region.

4. Ms. B. Kaveri (17WH1A0502), Ms. K. Nikitha (17WH1A0507), Ms. A. Geetha(17WH1A0508), participated in the National Level Competition on "Wireless Campus Network Design Ideathon(WCNDI) organized by WalChand College of Engineering, Sangli on 26 December 2020 under the Guidance of Mr. Shivamurthy Hiremath, Assistant Professor, CSE Department.

5. Ms. P. Raga Rasagna(17WH1A0599) of IV CSE entitled "AI for Music" was selected for FOSS Asia on 12th, February 2021.

6. Ms. S. Prashanthi (19WH1A0514), Ms. Usha Devi (19WH1A0505) Won Third Runners up in Hackathon conducted by EY GDS Hackpions 2.0. Team name is Prashkirtiusha2, The Project Name is Virtual Company, Theme is AR/VR for Virtual Events.

7. Ms. A G Pooja Manas (17WH1A0537), Ms. Marasigogu Sreelekha (17WH1A0553), Ms. Ketavath Priyanka (17WH1A0538) received certificate of participation for presenting the Project entitled "Credit Card Fraud Detection" at 5th Level IEEE Project Competition-2021 Organized by GSSS Institute of Engineering & Technology for Women, Mysore on 26 June 2021. Ms. E. G. Padmavathi was the mentor and received Certificate of Appreciation.

8. Ms. S. Sirisha (17WH1A0582), Ms. K. Sai Sindhu (17WH1A0593), Ms. S. Sreeya (17WH1A05B7), received certificate of participation for presenting the Project entitled "Image Deblurring" at 5th Level IEEE Project Competition-2021 Organized by GSSS Institute of Engineering & Technology for Women, Mysore on 26 June 2021. Ms. E. G. Padmavathi was the Mentor and received Certificate of Appreciation.

Ms. P. Joshitha (18WH1A0582) from III CSE B stood as 2nd Runner Up in TASK Oracle Academy ML Build-A-Thon and received a cash prize of Rs. 5000/- on 03 July 2021 under the guidance of Ms. Jagadeeshwari, Assistant Professor, CSE.

Ms. Manasa Lakkakula(18WH1A0564), secured two awards in Area G3, District 98 Toastmasters International, First place in Table Topic Contest 2021 and Second place in International Speech Contest 2021.

Ms. V. Sai Sudha (18WH1A0501) of III CSE-A Got Appreciation Certificate for being an amazing mentor in open source during GirlScript Summer of Code 2021 from March 2021 to May 2021.

Ms. D. Nidhi (19WH1A0507), Ms. R. Harshita(19WH1A0513), Ms. K. Sravya (19WH1A05D2), Ms. M. Preethi (19WH1A05F2), Ms. A. Sivani (19WH1A05G3) attended a talk on "Resilience to quality living" by Ms. Anita Peter at Vishnu Educational Development & Innovation Centre (VEDIC)on 12 January, 2021.

Students registered for Mentorships / Internships Programme:

1. Ms. A. Hari Prasanna (17WH1A05B2) of IV CSE was selected for Senior Analyst Internship LSICT Program at Capgemini on 18 March 2021.
2. Ms. G. Pravallika (19WH5A0508) of III CSE B got an Internship at Bhumi on performance-based from Internshala on 22 March 2021.Ms. Talluri Tarani (17WH1A0576) of IV CSE B selected for Wiley-mthree Internship Program.
3. Ms. A Sai Shreyashwi (18WH1A0516), Ms. Vaishnavi Yelisetti (18WH1A0567), Ms.V. Nikhitha (18WH1A0579), Ms. Allamraju Naga Sruti (18WH1A0594), Ms. Yadavalli Pranathi(18WH1A05B0), selected for Internship with Dell Technologies from 07 June 2021 to 30 July 2021

Students Placements (2017 Batch) :

S.No	Name of the Company	No. of Students	Package in Lakhs Per Annum (LPA)
1	Amazon	01	29.91
2	Flipkart	04	26.57
3	F5 Networks	02	23.00
4	BNY Mellon Technology	03	17.34
5	Providence	03	16.00
6	Sandvine Technologies	01	14.50
7	MicroSoft	01	13.40
8	Applied Materials	01	9.30
9	FactSet	01	8.91
10	Athena Health	04	8.50
11	Accolite	01	8.00
12	Delhivery	02	8.00
13	NCR	01	8.00
14	Thought Works	04	8.00
15	DBS	01	7.86
16	IBM	03	7.75
17	OC Tanner	01	7.75
18	Micron Technology	01	7.50
19	HSBC	02	7.00
20	MAQ	01	7.00
21	TCS Digital	03	7.00
22	ZeMoSo Technologies	01	6.89
23	MTX	04	6.50
24	Edgeverve	02	6.00
25	EPAM	02	6.00
26	MAQ	01	6.00
27	CDK Global	01	5.50
28	Seneca Global	04	5.25
29	GEP	01	5.00

S.No	Name of the Company	No. of Students	Package in Lakhs Per Annum (LPA)
30	Hexaware Technologies	01	5.00
31	SocGen	01	4.95
32	Persistent Systems	01	4.51
33	Accenture Technologies	18	4.50
34	Broadridge	02	4.10
35	AMDOCS	04	4.00
36	Apps Associates	01	4.00
37	Incapsulate Pvt Ltd	01	4.00
38	L&TTS	03	4.00
39	Mindtree	05	4.00
40	Modak Analytics	04	4.00
41	Capgemini	32	3.80
42	TA Digital	04	3.74
43	DXC Technology	23	3.60
44	HackWithInfy	01	3.60
45	Infosys	07	3.60
46	InfyTQ	01	3.60
47	The Climber	01	3.60
48	Hexaware Technologies	03	3.50
49	InfyTQ	03	3.50
50	Urjanet	01	3.50
51	Wipro	06	3.50
52	TCS NQT	33	3.36
53	TCS-Ninja	10	3.36
54	Quest Global	02	3.25
55	Tech Mahindra	01	3.25
56	WinWire Technologies	02	3.00
57	ZenQ	03	2.80

Total No.of Students : 139 **Total No.of Offers : 230** **Unique Offers : 92**
Highest Package: 29.91 **Lowest Package: 2.8** **Average Package: 5.45**

**Ms. Y.Vaisshnavi
(16WH1A05C0)
CSE - Young Promising
Engineer Award (YPEA)
for Batch - 2017**

I would like to thank BVRIT HYDERABAD College of Engineering for Women, for all the opportunities that the college has provided me with. I joined the college in 2016 in the department of CSE. Right from my first year of engineering, the college has been organizing various events which induced great interest in learning new technologies. We were taught python programming language in our first-year summer break which gave us confidence with a capstone project which we completed during the training period. We had WISE elite program which gave us the opportunity to work on the most exciting project under the guidance of **Mr.Asokan Pichai**. With the support of our Principal Madam, **Dr.K.V.N.Sunitha**, and our faculty, I was able to publish one research paper at ICDSMLA 2019. Today I am very happy that I chose BVRIT HYDERABAD and finally I would like to thank all the wonderful faculty of the department of CSE for playing a vital role in where I stand today.

Best Wishes

Newsletter Editorial Board

1. **Dr. K. Srinivasa Reddy, Professor & HoD, CSE**
2. **Mr. S. K Hiremath, Assistant Professor, CSE**
3. **Dr. G. Naga Satish, Professor, CSE**
4. **Ms. K. Susritha, 17WH1A0554, CSE**
5. **Ms. Narne Alekya, 18WH1A0593, CSE**

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