

OUR INSTITUTE – VNR VJIET

Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (VNR VJIET) was established by the Vignana Jyothi Society as a not-for-profit organization in the year 1995-96, with a motto to provide Value based education on par with international standards. The Philosophy of Vignana Jyothi unravels education as a process of "Presencing" that provides, both individually and collectively, to one's deepest capacity to sense and experience the knowledge and activities to shape the future.

VNR VJIET, an autonomous institute established with the permission of AICTE, recognized by UGC as College with Potential for Excellence" offers 13 B.Tech. and 13 M.Tech. Programs. All the courses offered by the institute are affiliated to Jawaharlal Nehru Technological University Hyderabad, Hyderabad. The institute is recognized under section 2(f) and 12(B) of UGC Act, 1956 and is Accredited by NAAC with 'A++' Grade and CGPA 3.73 in Cycle - II in 2018. 7 B. Tech courses are accredited by NBA. AICTE has identified the institute as "AICTE Research Center" under National Doctoral Fellowship (NDF) scheme and Ph.D. scholars are allocated. MHRD, India has ranked the institute at 113th rank in Engineering category and 151-200 rank band in Overall category in NIRF 2022. QSI GAUGE has rated the institution with overall DIAMOND rating and has provided E-LEAD certification. Under MARGADARSHAN and PARAMARSH scheme the institute mentors 17 institutes in the state of Telangana. VNR VJIET is categorized as 'Band A' institution (rank between 06-25) in category of 'Private or Self-Financed College/Institutes' in ARIIA - 2020.

VNRVJIET is committed to providing a value-added curriculum that is driven by robust infrastructure, highly qualified and competent staff and a vision to remain a top ranked institution that is primed by research and innovation. It is one of the most distinguished and premier institutions of higher education in the State of Telangana.

DEPARTMENT – COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science and Engineering (CSE), established in the year 1995, evolved towards enhancing Computing and its applications to build the intellectual capital of the society. The department is witnessing a period of exciting growth and opportunity propelled by the advancement of technology and its recognition through excellence.

It offers 2 UG courses – B.Tech:

1. Computer Science and Engineering
2. Computer Science and Business Systems (CSBS) in collaboration with Tata Consultancy Services (TCS).

and offers 2 PG Courses – M.Tech

1. Software Engineering (SE)
2. Computer Science Engineering (CSE)

State-of-art laboratories equipped with the latest infrastructure and software strengthen the progress of the department stake holders. Upskilling is a continuous activity in the department. Committed and competent faculty keep abreast of the upcoming technologies, through continuous participation in seminars and workshops, registering for the advanced courses through MOOCs and acquiring merit certifications.

CSE students have been placed in dream companies like Microsoft Amazon, JP Morgan, Google, Stocks, and Goldman Sachs etc. with high packages. CSE students are not only restricted to national placements but have bagged international offers, from DENSO cooperation a Japanese company with a pay package of 40.3 LPA and Juniper Networks with a pay package of 98 lakhs. Talking about internships every year 120+ students undergo paid internships with various companies. The department conducts numerous inter/intra collegiate competitions, providing a platform forenhancing knowledge base, soft skills and team spirit.

Recognized as Research Center by JNTUH. CSE department is involved in pioneering research with Global excellence and local relevance in cutting-edge technologies like Image Processing, Augmented Reality, Data Analytics, Internet of Things, Mezzanine Technologies, Networks and has several publications to its credit listed in SCOPUS, Web of Science, SCI indexed, etc. Department hosts funded Projects from reputed organizations - AICTE. DST, UGC, ISSR. MHRD and ITRA.

The computer science department strives hard to give the students the best platform that is tailored and customized to meet the unique needs of students in this technological era. The Department leaves an indelible mark on the lives of its students, concerning them to a great career and challenging them to discover and define their functional roles in the industry.

PREFACE

The field of Computer Engineering and Communication Systems are growing in leaps and bounds than any other time in the history. The interplay of Computing and Communication Technologies ranging from Artificial Intelligence, Machine Learning, large-scale data mining, Big Data, Data Analytics, Intelligent & Communication Systems, Internet of Things (IoT) applications and smart computing that handles practical converged data into a wide variety of computer applications and have a significant role to play in the connotation of computer engineering with communication systems. The International Conference on Advances in Computer Engineering and Communication Systems (ICACECS- 2022) is themed around "Smart Innovations in Mezzanine Technologies: Data Analytics, Intelligent Systems, Intelligent Computing, Networks and Communication Systems" thereby celebrating the emerging technology trends in Computer Engineering and Communication Systems and will create an arena for collaborative innovation. ICACECS-2022 is a 3rd International Conference in a successive series of conferences consecutively in the month of August 2020 and August 2021 titled with ICACECS-2020 and ICACECS-2021, in collaboration with Springer Nature International as publishing partner.

In continuation of this legacy, the department of Computer Science and Engineering, VNR Vignana Jyothi Institute of Engineering and Technology is organizing a virtual mode of 3rd International Conference on "Advances in Computer Engineering and Communication Systems" from 11th – 12th August 2022 (ICACECS-2022) in collaboration with Springer Nature International as publication partner. Which will brought into the best possibilities of the future is termed "Presencing", and it is a part of the core philosophy at Vignana Jyothi.

ICACECS-2022 is a unique forum bringing together the research scholars/scientists from the different countries to participate and transform the Research Landscape of the globe and carve a Road Map for Implementation. It provides a valuable networking opportunity and brings a new era for the Research scholars, Students, Professors, Industries providing insights to the recent trends and developments in the field of Computer Science with a special focus on Mezzanine technologies.

ICACECS-2022 have received tremendous response with a great number of manuscripts of 439 from around the globe. Out of 439 manuscripts, 55 manuscripts are accepted for the presentations, and will be published in the conference Springer proceedings of "Lecture Notes in Networks and Systems (LNNS)" (<https://www.springer.com/series/15179>) a Scopus indexed series.

The book volume focuses on thoroughly refereed post-conference enlargements and reviews on the advanced topics in Artificial Intelligence, Machine Learning, Data Mining and Big Data Computing, Cloud Computing, Internet on Things, Distributed Computing and Smart Systems. We assure that we have put in every effort to ensure that the participatory experience in the e-Conference will not feel like a compromise but will add value in its own stride and enable more people to participate. We hope that the Conference shall serve its purpose for the best exposition and progress of science, engineering, technology, and society.

Hyderabad, August 2022

Dr. A Brahmananda Reddy
Conference Chair ICACECS-2022
Corresponding Editor

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We thank all the authors for their contributions and timely response. A special thanks to our reviewers who invested their valuable time and conscientious evaluation of the submissions for the best outcomes.

We express our profound gratitude for the inspiring and informative presentations of our Keynote speakers on the frontline technologies, creating the curiosity to explore more on research trends in computer science and communication systems.

The co-operation extended by the Sessions Chair is immense, elevating the presentation skills amongst the participants and the valuable insights are enables them to diversify solutions & approaches.

We would like to thank our Chief guests and Guests of Honor for accepting our invitation and making it to the e-conference, furthering our spirit to achieve more in providing technology solutions to the Society - Involve and Evolve towards innovations and incubations leads to entrepreneurs.

Thanks to the founding members of Vignana Jyothi for their wisdom and social responsibility, who firmly believe that all technology must serve the urgent need of advancing the society, at micro and/or macro levels.

Our sincere thanks are extended to all the Chief Patrons, Patrons, Chairpersons, members of the Editorial Board, eminent members of the Programme Committee and Advisory Committee for their guidance and support and to the enthusiastic people among the Technical Committee for their coordination and help in execution.

we would like to extend our unlimited appreciation for the amazing work done by our self-reliant and motivated team of CSE faculty and non-teaching staff. The amazing dedication and effort of the team enabled to reach our goal and put up this show with an ease.

Dr. A Brahmananda Reddy
Dr. S. Nagini
Dr. D.N. Vasundhara
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