

GLOBAL OUTLOOK OF COMPUTER SCIENCE & ENGINEERING DEPARTMENT



Programmes Offered:

B.Tech (CSE)

M.Tech(SE)

M.Tech(CSE)

The emissions of light in VNR VJIET seal symbolize the emergence that displays the darkness of ignorance and ushers in knowledge through continuous learning in education and Research. The seal also emphasizes our determination to become the learner's knowledge that will lighten, explode, strengthen and empower students



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Head of the Department's Message

VNR VJIET strives for global excellence and local relevance in research, teaching and technology development. The department of computer science and engineering has a vibrant body of faculty with 65 in number (5 Professors, 9 Associate Professors and 50 Assistant Professors associated with the additional support of non-teaching and technical staff) intends to set the standards for the quality of education for approaching years. The main objective of the department is to provide a forum in which the participants obtain information about the advanced emerging technologies. Department is involved and aiming at the collaboration process from both industry and academics. To enhance the quality of learning we move forward for more collaborations and interactions with the industry that helps our students to brace themselves for working in the industry.

Our college has been providing the nourishments of fashioned future of the students from 22 years and it has nurtured students as professionals. The institution 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. We would like to ensure that the students are undertaking the challenging tasks intellectually, socially and technically.

B.V. Kiranmayee

Associate Professor,
Head Of the Dept. CSE

Encouraging Faculty & Researchers

The CSE faculty undertakes a challenging coursework – Covering the theory and practical sessions. Apart from these the research work is supported on a continuous basis by working along with faculty in different specialized fields. Students are well guided in resolving the challenging and complex problems that are not easily defined by a single domain or approach. There are several publications in the department listed in SCOPUS, Web of Science, SCI indexed, etc. The pioneering research is ongoing in various domains like Image Processing, Data Mining, Networks, Artificial Intelligence, Databases and Wireless Area Network.



Driving Simulator for Indian environment

Courses offered

The department of Computer Science and Engineering offers both UG and PG courses.

- Under Graduate program of B.Tech in Computer Science and Engineering with 240 sanctioned seats and
- Post Graduate program of M.Tech in
 - Computer Science and Engineering with 18 sanctioned seats and
 - Software Engineering with 18 sanctioned seats.

The Heart of Learning: Our Curricula

VNR VJIET has been recognized as one of the renowned and well infrastructured institute in the curriculum of both under graduate and post graduate programmes incorporated with core Computer Science subjects, as well as advanced subjects such as

- ❖ Data Analytics,
- ❖ Internet of Things,
- ❖ Data Mining,
- ❖ Information Systems,
- ❖ Software Testing and
- ❖ Software Engineering.

The syllabi is updated from time to time to keep it apt with the technological trends.

Research and Development

Department of CSE is recognized as Research Center by JNTU, Hyderabad. An active Research Advisory Board is constituted at VNR VJIET.

The department is actively engaged in research activities in the following areas:

- Data Mining
- Cloud Computing
- Wireless Sensor Networks
- Network Security
- Image Processing
- Internet of Things
- Data Analytics and
- Machine Learning.

Research Activities

Completed Sponsored Research projects:

Department has completed Research Projects worth 98.68 lakhs funded by agencies M/S X-Design Ventures Pvt. Ltd., M/S Drive Lozics, DRDO, UGC. The following are the projects completed by the department:

- ❖ *Driving Simulator for Indian Environment*
- ❖ *Driver safety index using integrated computing system*
- ❖ *Weapon Locking & Tracking System (WLTS)*
- ❖ *Development and Validation for Non-Technical Losses(NTL's) detection of Electricity Theft Using Genetic hybrid SVM Approach*
- ❖ *Development of a High level Framework that works on flash TLF 2.0 specification for animated text display in e-learning.*

Ongoing Sponsored Research Projects:

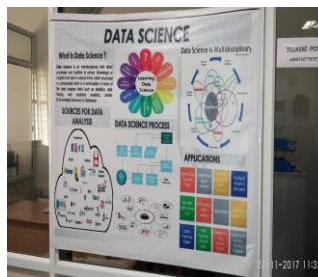
Department has Ongoing Research Projects worth 32 lakhs approx. funded by ITRA, AICTE, UGC. The following are the ongoing Research Projects undertaken by the department:

- ❖ *Development of effective Wireless sensor Network System for Water quality and quantity monitoring (AquaSense)*
- ❖ *A Data Mining Approach for The Efficient Detection of Brain Tumor Disease.*
- ❖ *Design of Hybrid Data Mining Techniques for Effective Retrieval of Information from Cloud based Applications.*

Research Facilities in the Department

The computer labs are equipped with latest configurations and softwares installed to bring out research work smoothly. Few softwares are listed below:

- ❖ *R, Weka tool 8.0*
- ❖ *Code Blocks*
- ❖ *Turbo C++4.0*
- ❖ *Python*
- ❖ *Oracle 11g,*
- ❖ *Rational Rose Suite 8.0*
- ❖ *JDK 1.8*
- ❖ *Eclipse ANDROID SDK*
- ❖ *Selenium,*
- ❖ *MATLAB*
- ❖ *The department has set up a lab for Data Sciences for fostering research in data analytics.*



Data science laboratory

Students projects

- *The Faculty and students undertake challenging project works which has societal impact. As a slice of the course, both B. Tech and M.Tech students work with mini and major projects during their courses. M. tech students are involved in research work with their major projects in their course period.*
- *Students are encouraged to undertake projects which have social significance and few projects are listed below:*

- ❖ *IOT Smart Luggage Monitor Alarm.*
- ❖ *IOT Home Automation using raspberry pi*
- ❖ *IOT Liquid Level Monitoring system*
- ❖ *Gas Leakage Detection & Monitoring system using IOT*
- ❖ *Invoicing Based on GST*
- ❖ *Data Feature Selection based on Artificial Bee Colony Algorithm*
- ❖ *Biometrics based multi-server*
- ❖ *Authentication Protocol using Smart cards*
- ❖ *Smart Irrigation.*

Faculty Achievements:

Publications

- *The faculty of the department has contributed 141 Research publications in various reputed journals and conferences indexed by UGC listed, Web of Science and SCOPUS.*

Awards

- *Dr C. Kiran Mai is awarded the “Best Teacher Award” by ISTE.*
- *Dr G. Ramesh Chandra is awarded the “Best Teacher Award” by ISTE in the year 2016-17.*

International visits of faculty:

- *Dr. G Ramesh Chandra visited USA to present paper on “Surface Detection in 3D images*

using Cellular Logic Array Processing” in the conference *IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC-2014)* dated 5th Cybernetics (*IEEE SMC-2014*).

- Dr. B Ravindra Babu visited Switzerland to present a Paper entitled **“Comparison between Classifier’s Accuracies Based on Different Outlier Methods Generated by Frequent and Infrequent Categorical Data”** at 30th *IEEE International Conference on Advanced Information Networking and Applications (AINA-16)* during 22 – 27 March 2016.

Student Achievements

- Students developed an Android App for Anti ragging
- Students Participation in DRDO Funded Project (Weapon Locking)
- Five Students selected in “Microsoft Women Empowerment”.
- Mr. M. Ranjith (2014-15) got placed in Amazon with a package of 11.2 Lakhs, got admission in IIM Calicut
- Mr. C. Akhil Vishal (2014-15) got admission in IIM Trichy
- Mr. Neelesh Kumar (2015-16) secured a GRE Score 331 and TOEFL score 119
- Ms. Bhargavi (2015-16) got admission in IIM Calcutta
- Mr. Vineeth (2015-16) got admission in BITS Pilani
- Ms. Divya (2015-16) got placement in Amazon with a package 10.8 Lakhs, got admission in IIT Ropar in M.Tech Data Analytics and Machine Learning
- Ms. Divya (2016-17) got placement in ISRO
- Mr. Bhargav (2016-17) got placed in Amazon with a package of 14 Lakhs
- App design (Anti Ragging Android App)
- TRIGGER: won silver medal in Innovation Fair organized at IISc Bengaluru
- JNTU Excite-16
- Developed an NGO Android App and stood in top 10

Laboratories

Our college believes in the things that work practically, and make the students to face the challenges,

incorporated with the ability of resolving problems creatively.

Computer Science and Engineering’s first year initiates with the fundamentals of computers and programming which lays a strong base for the students in learning advanced programming languages.

Numerous Department labs are established to cater academic and research needs in the departments like

- ❖ *Mobile Applications Development Lab* enables students to develop android applications.
- ❖ *Scripting Language Lab*
- ❖ *Data Warehousing and Mining Lab*
- ❖ *Advanced Data Structures through C++ Lab*
- ❖ *Computer Programming Lab*
- ❖ *Data Base Management Systems Lab*
- ❖ *Data Structures Lab*
- ❖ *Compiler Design & Object Oriented Analysis and Design Lab*
- ❖ *Java Programming Lab*
- ❖ *Design and Analysis of Algorithms Lab*
- ❖ *Gaming Engineering Lab*
 - ❖ *Cyber Security Lab* enables to teach students how to keep their digital lives safe, spot cyber scams, learn the basics of coding, and defend against cyber-attacks.
 - ❖ *Operating Systems and Computer Networks Lab*
 - ❖ *LINUX Internals Lab*
 - ❖ *Web Technology Lab.*

INTERNSHIPS:

Internship opportunities have been provided for UG & PG students by various companies like AMAZON, TCS, JP MORGAN, mroads, Open Text etc. The students get a platform to work with companies and get enlightened experience while working closely with real projects.

Apart from the regular courses nearly 150 members of our students undertake internships offered by Deloitte, Amazon, JP Morgan, Tata Consultancy Services, Open Text, mroads, DRDO.



TATA CONSULTANCY SERVICES INTERNSHIP

Connect With Industry

CSE Students at VNR VJIET benefit by experts coming from both industry and Academia. Knowledge sharing sessions are conducted throughout the academic calendar to give students insights into the real life applications of their subjects in industry.

INDUSTRY IMMERSION Going beyond the classroom closer to the industry

GLOBAL CONNECTION AND TIE-UP'S (MoU'S) WITH INDUSTRY:

Over the last years students have completed projects on a wide array of subjects, partnering with companies from every sector of industry, and focused on real issues producing actionable results. In order to bridge the gap between academics and Industry VNR VJIET CSE department strives hard to make students industry ready before they even step inside the corporate world.

The institute has signed MOU's with the following organizations:



FROM THE CAMPUS TO THE CORPORATE:

Hiring by Top Companies: Our students are heavily recruited by leading IT companies as diverse as Amazon, Microsoft, Capgemini, Infosys, TCS etc. Also, to mention numerous entrepreneurial startup companies have recruited our students.

Placement success:

- Companies offered placement for 220 students in the year 2017-2018
- Highest package of 11 lacs per annum is offered by MICROSOFT.



Microsoft Recruited Students 2017-2018



MOU between VNR VJIET and mroads.