



**INEX**  
INDIA



VNRVJIET's ANNUAL TECHNICAL SYMPOSIUM  
22 Years Legacy

# CONVERGENCE

— 2K21 —

EXPERIENCE INNOVATION

December 15 – 16, 2021



**VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI  
INSTITUTE OF ENGINEERING AND TECHNOLOGY**

# About VNR VJIET

Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (VNRVJIET) was established by the Vignana Jyothi Society as a not-for-profit organization in the year 1995-'96. Education determines a society's growth and development. With a motto to provide value-based higher 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, with a conscientious will to put Success and Happiness first. The institute is established with the permission of AICTE, and Govt. of AP. Institute offers 14 B.Tech., 14 M. Tech., Ph.D. 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.

The salient highlights of the Institute's accomplishments include:

- The Institute is accorded Autonomous status by UGC for 6 years in 2012 and Extension of Autonomous Status is accorded for 10 years in 2018.
- Institute is accredited by NAAC 'A++' Grade under the Revised Accreditation Framework, with CGPA 3.73 out of 4.00 in Cycle-II.
- Recognized as "College with Potential for Excellence" (CPE) status by the UGC for a period of five years w. e. f. 2016.
- Received the ISTE AP & TS Section's "The Best Engineering College" Award.
- Five Departments (CE, ME, EEE, ECE, CSE) recognized as Research Centers by JNTUH, Hyderabad.
- Recognized as "Research Centre" by AICTE through which full-time Ph. D. scholars are being allotted to the Institute through AICTE's National Doctoral Fellowship (NDF).
- VNRVJIET is categorized as 'Band A' institution (rank between 06-25) in category of 'Private or Self-Financed Institutes' in ARIIA - 2020.
- Institute is certified by International Standards Organization (ISO) with ISO 9001:2015 certificate.
- MHRD, India has ranked the institute at 135th rank in Engineering category in NIRF 2021.
- QS I-GAUGE has rated the institution with overall DIAMOND rating and has provided E-LEAD certification.
- Institution is mentoring 17 mentee institutions under MARGADARSHAN and PARAMARSH scheme.
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- VNRVJIET is categorized as 'Band A' institution (rank between 06-25) in category of 'Private or Self-Financed College/Institutes in ARIIA-2020.
- Houses an exclusive Research and Consultancy Centre (CC) to facilitate interdisciplinary research.
- Over 360 faculty members, one-third of who are Ph. D., one-third more pursuing Ph. D. • 128 Academic, Research and Industry-led Laboratories.
- Strong alumni network of over 11,000 registered members.
- A wholesome Innovation and Incubation Ecosystem comprising of an Entrepreneurship Development (ED) Cell, Industry-Institute Interaction Cell (IIIC), Competency Development Centre (CDC), Centre for Presenting and Design Thinking (CPADT), Research and Consultancy Centre (RCC), an Institute Innovation Council (IC), and the in-house incubator, VJ Foundation for Entrepreneurial Excellence (VJ Hub).
- Provides numerous Extracurricular, Co-curricular, and Social Responsibility Student Clubs and Student Chapters of Professional Societies for rounded personality development of students.
- Students received national and international recognition for projects, startups, contribution to professional societies, and more!
- Recognized as Nodal Resource Centre for Spoken Tutorials of IIT-Bombay.
- The Institute has the following Centers of Excellence to catalyze and facilitate, to create and sustain capabilities and competitiveness with a view to impact the society through training, consulting, advice, and research:
  - > Centre of Excellence in Disaster Mitigation (CoEDM)
  - > Centre for Renewable Energy Systems (CRES)
  - > Centre of Excellence in Machine Vision
  - > Centre of Excellence in Data Science
  - > Centre of Excellence in Networks and Security (CoENS)
  - > Centre of Excellence in Robotics
  - > Centre for Nano Science and Technology (CNST)
  - > Centre for Education Technology (CET)
  - > Centre for Presenting and Design Thinking (CPADT)

## Vision

To be a World Class University providing value-based education, conducting interdisciplinary research cutting edge technologies leading to sustainable socio-economic development of the nation.

## Mission

- To produce technically competent and socially responsible engineers, managers and entrepreneurs, who will be future ready.
- To involve students and faculty in innovative research projects linked with industry, academic and research institutions in India and abroad.
- To use modern pedagogy for improving the teaching-learning process.

## Quality Policy

- Impart up-to-date knowledge in the students' chosen fields to make them quality engineers.
- Make the students experience the applications on quality equipment and tools.
- Provide quality environment and services to all stakeholders.
- Maintain global standards in education, training and services.

## About Convergence

CONVERGENCE is the national-level, annual technical symposium of VNRVJIET. Since its inception in 1999, it has evolved as a great learning platform that complements the usual course work and brings forth lots of diverse passion and skills among the students. Each year's edition adds a feather in the cap of the Institute, with a wide spectrum of events and activities including but not limited to technical events, workshops, technical paper presentations, social activities, and more. CONVERGENCE 2k21 this year adds more life to the symposium by putting student innovations at the center of it and aligns better with the changing arena of engineering where the conventional demarcations of different engineering disciplines are virtually absent.

Convergence 2k21 introduces Hardware and Software Hackathons, Social Impact and Design Thinking Project Competitions, and Startup and Patent Idea Competitions, apart from the other usual events such as Technical Paper and Poster Presentations, Technical Workshops, other Technical Events, and activities of social responsibility to emphasize on sustainability and a necessary social dialogue.



Hello everyone

It's really heartwarming to see all the young and budding engineers who are continuously exploring the advances in the field of technology. VNR VJiet has always kept its pace with the rapid advancement in technology and distinguished itself as one of the renowned Institutions for technological study. It's a true delight to provide this platform for the technical fest CONVERGENCE.

This technical fest will help demonstrate how different streams of engineering are working in harmony with each other to bring forth innovation. Convergence of different ideas will bring forth development in technology and will help the industries to better serve society. CONVERGENCE provides an opportunity to explore the latent potentials of young engineers and help them acquire hands-on experience through events involving Research project expo and paper presentations in various fields including Robotics, Mobile learning, Machines and many such scientific and technical areas. I feel very proud to say that CONVERGENCE will be a great platform for innovation and invention, discovery and creation, planning and execution. And this is just the beginning of the journey for all the young engineers who aspire to achieve their goals of transforming their dreams into reality. I am sure that eventually, all research oriented young minds and budding technophiles will be able to make a significant societal change.

I congratulate the CONVERGENCE-2K21 team for their dedication, determination and efforts. I wish the team a huge success. I convey my best wishes for all the participants to succeed in their mission to contribute through technological innovations.

**President**  
**Sri D. Suresh Babu**



Students from the modern era of technology play a key role in shaping the future of the nation. They must be endowed with the necessary skill set to go above and beyond in the extremely competitive job market.

To assist the students to excel in the field of engineering and technology, the technical symposium CONVERGENCE 2k21 provides a platform to exhibit their skills and talent. I am glad that multitude of technical events like workshops, hackathons, coding contest, quiz etc., are organized where students can pitch their ideas for startup and patents in addition to knowledge exchange. I congratulate the team of CONVERGENCE 2k21 and wish them good luck.

**General Secretary**  
**Er. J. Seshagiri Rao**



Convergence, the Tech fest of VNR VJiet provides a learning, experiencing, and sharing platform for the budding engineers to be exposed to and explore the endless achievements in the field of technology. With student innovation as the focal point, this fest aims to help students to work in harmony with each other to align better with the evolving arena of engineering where different streams of engineering no longer operate in silos and instead forge ahead with fusion of ideas, experiences and technologies. Host of technical events including Hackathons, Social Impact and Digital Thinking competitions, Start - Up and Patent Ideas competitions in line with the UN Sustainable Development Goals will give the students an opportunity to not only improve their technology and communication skills but will also give wings to their imagination and spirit of innovation with team spirit and leadership qualities.

To the students, I have to say this – If you have an idea, nurture it and put into action using the collective strength of your colleagues in the college. Let your dreams take shape from college days. We hope that these baby steps become giant leaps in the days to come. My best wishes to the contributing participants to showcase their ideas and projects successfully and to the other participants to be inspired by these ideas.

I heartily congratulate the Convergence 2K21 team for their systematic planning and untiring efforts for conducting this fest on the heels of ECFICIO – the entrepreneurship promoting event, despite the challenges thrown by COVID -19 pandemic. I wish the event huge success and hope that it inspires the students to find solutions which are socially relevant and sustainable.

**Vice President  
Sri Kode Durga Prasad**



**Mr. Jayesh Ranjan, IAS**

CONVERGENCE 2k21 will be an excellent opportunity for students to experience innovation in its most primal form, which is needed if we are to become an innovation driven state and country. Innovation begins with the problem and finding an out of box solution, Telangana has always prided itself for being a state that facilitates such thinking and applying it to our everyday world. I am glad that this fest has decided to showcase this facet of human ingenuity and hope the students participating learn and expand their world through participation in the events.

I congratulate the team of CONVERGENCE 2K21 for their brilliant organization of the fest and wish them the best of luck.





CONVERGENCE 2K21 has shown me the warmest of welcomes and gave me an idea to the capabilities of students of VNRVJIET. The student volunteers have done an excellent job organizing the fest, the enormous amount of hard work must be congratulated. I hope everyone at the fest can enjoy and experience innovation in its rawest form.

**Ms. Edyta Wołczyk**  
**CEO, IBS GLOBAL & Director,**  
**INEX**



CONVERGENCE at VNRVJIET is the occasion to look at creativity 360degrees, including arts, science, engineering, technology for wholesome development of student personality. This year CONVERGENCE crosses national boundaries by co-locating international events INEX 2021 and GYSC 2021 organized by Indian Innovators Association (IIA). INEX (India International Innovation and Invention Expo) and GYSC (Global Young Scientists Challenge) are organized in hybrid mode with physical exhibition in VNRVJIET on 14th December. International jury will assess all innovations displayed including that of VNRVJIET students and select for awards which will be given on 15th December. The award winners will also get an opportunity to participate in international events organized by IIA network partners in different countries.

**Dr A.S Rao**  
**President of Indian Innovators Association**



Innovation is the reason for the propagation of technology and advancement of humanity, and CONVERGENCE 2K21 has managed to capture its essence in this technical fest. Hyderabad has always been on the forefront of innovation with it being the home ground of T Hub and now with fests such as CONVERGENCE 2K21. I hope all the students use this opportunity to bring out and showcase their innovative side.

I congratulate the team of CONVERGENCE 2k21 for making all of this possible and wish them the best of luck.

**Mr. Raman Teja Venigalla**  
**CTO, IBS GLOBAL & Director of Technology,**  
**Indian Innovators Association**



We see a true convergence of technology, communication, transportation and multiple disciplines and domains, at an exponentially accelerated pace, much faster than ever before. We are also witness to interesting and turbulent times that have disrupted life as we knew it. This calls for transformational technologies and thinking in education, with online and blended teaching and learning, empathy and a deep consideration for societal needs. Convergence 2021 offers a wonderful platform to get a glimpse of transformational mezzanine technologies and much more. Congratulations to the team that has worked tirelessly to bring you Convergence 2021, which is like a full moon day inviting energies and emotions to be charged multiple fold. It is a fantastic opportunity for all students of VNRVJIET and other colleges to bring their positive intent and soak in Convergence 2021 energies, and deep dive into hackathons, design thinking and other workshops, innovations and more.

Enjoy, explore and envision the possibilities,  
enhance your perception and  
empower yourself to become self-motivated and self-regulated!

Light your fire,  
Imagineer your career,  
Charge up your future,  
Bring happiness to life in and around you!

**With warm regards and best wishes,  
Dr. Sandhya Kode  
Director for Advancement  
Dean- Center for Education Technology and Learning Analytics**



Convergence, Technical fest of VNR VJIET is a gift and arena for the students and aims to bring forth the potential and talents hidden with them.

Convergence is conducted every year to challenge the technical aptitude of students and develop organizing and leadership skills. Convergence 2K21 brings a plethora of competitions, workshops, hackathons and branch-based events, these will augment and sharpen their technical potential. I hope this version of Convergence which consists of 10 separate technical events aims to strengthen, share and enhance the technical minds and logical mind of all students participating from all over India.

I wish the team of Convergence 2K21 a grand success and I am confident that the deliberations on convergent technologies would foster growth, sustainability and societal transformation.

**Dr C. D. Naidu**  
**Principal**



Convergence 2K21, the technical fest of VNRVJIET provides a stage for the young bright minds to come up with innovations and pitch their ideas in a professional environment. It makes me proud to witness such enthusiasts creating history at their age. This fest will let the students meet industry-oriented people and give them the better understanding of the market.

I wish team Convergence 2K21 all the best and hope that they succeed with flying colors. I hope this fest lets students reach their true potential from a professional and technical standpoint.

Best Wishes

**Dr.B. ChenakesavaRao**  
**Director for Advancement**  
**Dean-Administration and Finance**



This is an era of Disruptive Technologies, which is the Innovation that significantly alters the way that consumers, Industries, Business operates and create new market & value Network eventually displacing established markets-leading firms, products and alliances. AI & ML, Data Analytics, Cloud, Robotics, Blockchain, 3D printing, VR/IR, IOT are some of the most disruptive technologies that are developed in recent times. Now what is required is the multi-disciplinary approach demanding convergence of these Technologies for disruptive Innovations and thereby to have competitive edge. India has become the third largest STARTUP Eco system in the world with 60 Unicorn startup companies. This was possible only by harnessing these Exponential Technologies and coming up with new innovative products and services by young startups by Engineers coming out of the Engineering Institutions for which the foundation is laid in the Institution itself.

It is essential for the budding Engineers to get into this game of Innovation and Entrepreneurship in the college itself which involves igniting their minds by Design Thinking & Ideation adapting these Disruptive Technologies. CONVERGENCE 2k21 provides a platform to the students to participate in various technical events like WORKSHOPS, HACKATHONS, CODING CONTESTS, DEBATES etc. and pitch their new ideas for disruptive innovations.

I wish CONVERGENCE 2k21 a grand success

**Dr. A SUBHANANDA RAO**  
**Director, Research & Consultancy**



I extend my heartfelt greetings to all the participants, students and volunteers on behalf of VNRVJIET for our most awaited National Level Technical Symposium "CONVERGENCE 2K21". It is our pleasure to thank Vignana Jyothi society and sponsors for their financial support to this event.

VNRVJIET's dynamic student chapter IEEE has always been engaged in organizing various events and has lent its support in organizing this year's CONVERGENCE as well.

CONVERGENCE 2K21 is a platform for every student to explore, experience and excel in multiple domains. A National Level Technical Symposium in diversified fields will serve as a good resource to broaden the student's technical skills and wisdom, this experience will let them experience the industry and develop practical skills.

It has been a great pleasure to watch students taking the initiative to coordinate, organize and participate with a high degree of motivation every year. I wish the team of CONVERGENCE 2K21 a great success and extend my congratulations to each member of the team.

**Dr. Y. Padma Sai,  
Dean-Students Progression**





Education attains its true meaning by the way it's applied. It is beyond text books and class room lectures. To achieve this motto VNRVJIET provides the platform for students and helps them in sharpening their skills in various disciplines. Students are given a chance to participate and explore different domains under skilled guides. Convergence hosts a plethora of workshops, projects, technical presentations and various other competitions to invoke students' innovative and technical skills. I wish the team Convergence 2k19 a grand success.

**Dr. K. Anuradha**  
**Dean-Academics**



The National Level Annual Technical symposium under the banner “CONVERGENCE” has been instrumental in shifting the paradigm of usual course work, since its inception in 1999. The Technical fest is very well organized and largely attended at which a large number of Technical and non-technical events presented by the students from all over India. It is my earnest belief that the primary function of any educational Institute is to assist in technology transfer and to educate the students and Engineering community at large about the new technological developments that are taking place around the world. I am very pleased to note that the Team- “CONVERGENCE” has been successful in performing this task for the past 21 years. I am delighted to note that CONVERGENCE 2k21 introduces Hardware and software Hackathons, State of art cutting edge technologies in the domain of Artificial Intelligence, Machine learning and Internet of things, Design thinking competition, coding contest and start-up competitions apart from conventional events. I would like to Congratulate the “CONVERGENCE-2k21” team for the strenuous efforts they have taken in Organizing this Mega Technical Fest.

I wish the CONVERGENCE-2k21 a great success.

**Dr. RAMUJEE KOLLI**  
**Dean- Examinations & Evaluation**



Technology is best when it brings people together. Convergence 2k21 provides opportunities for students to start, refine, redefine, or culminate their involvement in the process of innovation and start-up if necessary. It is a vibrant avenue to learner society for exhibiting, exposing and exploring the Mezzanine Technologies. It provides an opportunity to share innovative and inventive ideas among peers. This is the right opportunity for student participants to have good exposure in the era of rapid technological transformation. I wish the participants to experience the needs of nature beyond mankind. It is my heartfelt congratulations to the teams of Convergence 2k21 for making it successful.

**Dr. B. Satyanarayana**  
**Professor and Head, ME**



I take the pleasure of congratulating the Convergence 2k21 team which is a conglomeration of all the technical chapters, for their tireless efforts in organizing the great event. It is a platform to bring out the expert technocrats hidden in our young engineers. The level of enthusiasm takes a good hike with the active participation of VNRVJIET-ians in various events showcasing their practical implication skills learnt during the classroom training and learning through workshops. I am extremely happy that 2K21 contests are including latest technologies like IoT, Machine Learning Artificial Intelligence etc. in all the fields. I also congratulate the CEA & ICI chapters of VNRVJIET for their contribution to the great event by organizing workshops, innovative competitions etc. I am sure that Convergence 2k21 as usual creates a knowledge platform to share, explore and enhance the technical skills of students and I wish a grand success for the Fest.

**Dr. A. Mallika**  
**Professor and Head, CE**



CONVERGENCE gives an opportunity to students to explore all of the ways they can get involved on campus by organizing and participating in wide variety of technical events such as paper presentation, hardware and software hackathon, workshops, coding contest, technical talks, model building, project contests, robotics etc.

VNRVJIET tremendous history of pride and spirit has been reflected throughout the campus-wide events held during CONVERGENCE. This technical fest facilitates the fusion of science, technology, and the creative arts—a signature feature of VNR that prepares students to drive the innovation and entrepreneurship jobs of tomorrow. Students can engage with varied events that help them achieve their full potential in the college and beyond. This event embraces a holistic approach to student learning, growth, and development. We are committed to delivering on the promise of overall development to ensure each student's success; however, they define it.

We are always looking for new ideas and students' participation in technical events to keep the rich tradition of CONVERGENCE alive on campus. I believe that CONVERGENCE will shape the college in ways that will permit following generations of student to carry the college further still. My best wishes to team CONVERGENCE and all the best for the participants

**Dr.S.Nagini**  
**Professor and Head, CSE**



Innovation, which stems out of creativity, is inherent to engineering. The process of translating creativity into innovation is design. Design thinking approaches problem-solving from a user perspective instead of the conceptual perspective and thus brings forth solutions that serve the needs of the people. Presenting is essentially about bringing the best future possibilities into the present, through observation, experience, and empathy. The students' work in the hackathons, idea competitions, and project competitions during Convergence 2K21 can create long-term solutions if they are eventually reoriented from a people perspective. Students must consider applying design thinking to their prototypes and take their innovative solutions to those who need them. All the best!

**Dr. N. Sandhya**  
**Professor and Head, AI/ML**



It gives me immense pleasure to welcome everyone to our National Level technical Symposium, CONVERGENCE 2k21. It is an innovative platform for upcoming engineers to present their ideas and advance their technical skills by participation in various organized events.

I hope that this technical Symposium would give opportunities for students to develop their ingenuity and confidence to work in any position in their respective field

I wish huge success for CONVERGENCE 2K21 and the team behind it.

**Dr. S. Rajendra Prasad**  
**Professor and Head, ECE**



CONVERGENCE-2K21 is the motto of promoting technology, scientific thinking, and innovation. The Tech fest believes in creating an unmatched aura of a science and technology, spectacle year after year. This technical fest will be providing a platform for the students to showcase their talents and skill sets in fierce competitions, display cutting edge technology and research from all over the globe. I wish the CONVERGENCE-2K21 team all the best and a grand success.

**Dr Poonam Upadhyaya**  
**Professor and Head, EEE**



The community culture of convergence at VNR VJiet pushes creative minds to become entrepreneurs. It is a thriving outlet for presenting, exposing, and studying Mezzanine Technologies in the learning community. It enables peers to share innovative and unique ideas with one another. This is a terrific opportunity for students to gain valuable experience at a time when technology is rapidly changing. Technology has progressed and is developing at such a rapid pace that we must all keep up with the latest developments in real time. I'm excited that a variety of technical events, such as workshops, hackathons, and coding challenges, will be organized.

I wish the convergence to be a huge success.

**Dr. M RajaSekhar**  
**Professor and Head, AI/DS**



I congratulate the student members, organizers and the conveners for taking up Convergence 2k21 as a challenge and making the event a grand success. I am happy to notice that Convergence 2k21 is coming up with highly innovative ideas and totally different face challenges. I appreciate the way our beloved, Inspiring and Motivating Dean: Student Progression Dr.Y Padma Sai and Young and Dynamic Convener Mr. V. Nageshwar are planning the events and motivating the student members and organizers to actively involved in different events. I appreciate the team convergence for also making the Convergence 2k21 the common platform, that makes the students think and drift towards tomorrow's cloud computing, artificial intelligence, machine learning etc. through various technical sessions, to provide solutions to the present challenges like pandemic due to Covid-19 and beyond. I wish all the participants from VNRVJIE and the other colleges, in and around Hyderabad -actively participate in sharing the knowledge and shaking their minds through this technical fest.

**Dr. R ManjulaSri**  
**Professor and Head, EIE**



Innovation is the root of employment and hence is necessary for the progress of this corporate world. Convergence gives a wide exposure not just to technical happenings but also to start up ideas. Various events that are being conducted are programmed to enhance students' knowledge and creativity. I wish all the students, organizers and participants of Convergence 2k21 a remarkable success.

**Dr. Jayashree Tatineni**  
**Professor and Head, H&S**



Convergence is the annual technical fest of VNR Vignana Jyothi Institute of Engineering and Technology. Convergence means come together of technologies and tech geeks. It's being attended by students from various colleges in and around the Hyderabad. 22th year legacy of Covergence 2k21is a great event to explore technical talents. The National Level technological symposium is an immense platform for tech geeks to exhibit their talents and also to gain knowledge on various technologies like AI, ML, DL, IoT, Cyber Security, Data Science, Robotics, Drones, Instrumentation, Automobiles, 3D printing etc.

In this regard I wish you all the best and Convergence would be a huge success.

**Dr.D.Srinivasa Rao**  
**Professor and Head, IT**



I find immense joy to know that, VNRVJIET is organizing a two-day national level technical fest "Convergence 2k21". The number of events that are going to take place during these two days in our campus could demonstrate the capabilities of the budding technocrats and entrepreneurs, which indicate the direction towards excellence in technical and mental capabilities. I take this opportunity to congratulate and wish the team of Convergence 2K21 a very grand success.

**Dr T. Srinivasa Rao**  
**Professor and Head, AE**





**CONVERGENCE  
FACULTY  
CO-ORDINATORS**



Nurturing creativity and inspiring innovation are two of the key elements of a successful education, and a college fest is the perfect amalgamation of both. It harnesses the creative energies of the academic community and distills the essence of their inspired imagination in the most brilliant way possible. CONVERGENCE the Annual Technical Symposium of VNRVJIET is an innovative platform for upcoming engineers to present their ideas and showcase their skills. It gives me an immense pleasure to be the part of “CONVERGENCE-2K21” as a faculty coordinator of ISOI Chapter hosted by Department of Electronics and Instrumentation Engineering. On behalf of ISOI Student chapter of VNRVJIET, I congratulate Team CONVERGENCE-2K21 and all other who involved directly or indirectly for their Success in conducting the fest

**Mr. V. Nageshwar,**  
**Assoc. Professor, EIE**  
**Faculty Coordinator, ISOI**



We congratulate the student coordinators of various clubs and chapters for organizing convergence 2k21. This technical fest is a great platform for bidding engineers to show their skills, leadership qualities, enhance technical knowledge and improve communication skills. On behalf of VNRVJIET SAE collegiate club, we wish this convergence 2k21 become a great success.

**Dr. M. Venkata Ramana,**  
**Professor, AE**  
**Faculty Coordinator, SAE Collegiate**



My presence in the national-level technical symposium "Convergence 2k21" is an honor. The most eminent and long-awaited fest of the year aims to bring forth the emerging talents of students under one platform. Let the spirit of learning and insatiable thirst for newer technologies result in innovations.

I impart my best wishes to all the participants and organizers and hope this exceptional fest garners recognition and accolades to the participants and the college.

**Mr. N. Sandeep Chaitanya,  
Asst. Professor, CSE  
Faculty Coordinator, CSI**



Students in the present day scenario should be equipped with the necessary skillset to gain an edge over the extremely competitive in the job market. To aid students in surging ahead, VNRVJIET every year conducts the technical symposium CONVERGENCE which provides a platform to showcase the talent and sharpen the skill-set in their own discipline.

I congratulate the team of CONVERGENCE 2K21 for the immense hardwork they have put into the fest. I hope all students experience and enjoy the fest the Team of CONVERGENCE 2K21 has put together.

**Dr. G. Radhika,  
Sr. Asst. Professor, EEE  
Faculty Coordinator, IEI**



The improvement of understanding is for two ends: first, our own increase of knowledge; secondly, to enable us to deliver that knowledge to others. It is my immense pleasure to invite all the students attending Convergence 2K21 and thank you for the interest. Convergence is the technical rostrum, to gain and share a wealth of academic, current and emerging technologies are going to serve the hereafter industry and succeeding human needs. There are three principle means of acquiring knowledge... observation of nature, reflection, and experimentation. Observation collects facts; reflection combines them; experimentation verifies the result of that combination. You can prove to be an asset to the society by being a part of IEEE and building up your technical as well as personality part. I applaud the Professional Student Chapters, Faculty Coordinators and the entire team for the hard work and dedication they have invested in realizing this goal towards success.

**Dr. Priyanka B Veeramosu,  
Asst. Professor, ECE  
Student Branch Counsellor, IEEE**



Convergence 2k21 is the best forum for students in strengthening the "Journey of Achieving the Technical Excellence" With a sense of pride and satisfaction I would like to say that this success is purely attributed to all the students with the encouragement from management and faculty coordinators.

**Mrs. K. Renuka,  
Asst. Professor, IT  
Faculty Coordinator, ISTE**



VNRVJIET is an institute with a focus on quality and excellence. Student Chapters are formed to organize events and fest to hone the personality and managerial skills of the students and encouraging inter-personal interaction among themselves and also with invited executives from business and industry. The objective of Convergence 2k21 Reloaded, National Level Technical Symposium of VNRVJIET is to encourage young minds to showcase their talents in various areas and come up with innovative and smart solutions for the benefit our society. It also provides a platform for students to interact with similar minds and thus creating a group of powerful thinkers and inventors. The Symposium includes both Technical and Non-Technical fun filled events.

I wish you all good luck and a grand success.

**Dr. V. Krishna Sree,  
Assoc. Professor, ECE,  
Faculty Coordinator, IETE**



On this occasion of Convergence 2K21, I extend my hearty wishes and congratulations to all the organizers for their involvement and the efforts they have put forth despite of the current pandemic times. Convergence, the annual technical symposium of VNRVJIET has been very much instrumental in providing a platform for the students to share and learn new ideas and new age technologies. I also congratulate all the participants for their enthusiasm and I wish them all the best.

**Dr. S. Rakesh,  
Asst. Professor, CE  
Faculty Coordinator, ICI**



Over the years the VNRVJIET, Hyderabad has built and maintained a reputation of imparting the right mix of education, experience and ethics that form the basis for achieving success in the modern world. Convergence 2k21 has kept up the tradition of innovation and breaking unprecedented frontiers and it hosts a huge number of events aimed at boosting the technical and managerial skills which are inherent in today's students and provides them with an opportunity to show-case their conceptual depth, innovation ideas and presentation skills. On this occasion, I extend my warm greetings to everyone who is a part of Convergence and wish them the Success.

**Dr. V. Siva Rama Krishna,  
Asst. Professor, ME  
Faculty Coordinator, ASME**



CONVERGENCE is a Legacy of VNRVJIET since the year 2000. In the era of revolutionary technologies, the technical fest is organized by various student professional societies and departmental associations. It provides a platform for exchange of ideas through various events leading to innovative technology development and enhancement of multidimensional skill set among the Budding Engineers at national level.

I wish the Convergence2K21 team a grand success.

**Mr. S. Murali Mohan,**  
**Asst. Professor, IT**  
**Faculty Coordinator, ACM**



Convergence 2k21 provides opportunities for students to start, refine, redefine, or culminate their involvement in the technical world. This fest will bring the hidden talents of all participants to the limelight, I hope all students utilize this opportunity. I congratulate the team of Convergence 2k21 and wish them the best of luck.

**Dr. A. Giri Prasad**  
**Assistant Professor, EEE**  
**Faculty Coordinator, IEI**

# Student Commitee



**Sai Kamal**



**Yashwanth**



**Meghana**



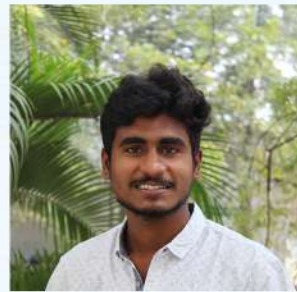
**Sai Varun**



**Indu**



**Tharun**



**Koushik**



**Ullas**



**Venkatesh**



**Srujana**



**Gnana Deepak**



**Sathvik**



**Vishnu Vardhan**



**Sravan**



**Gopal**



**Varshitha**





**Sri Veda**



**Dhruva**



**Rakesh**



**Alekhya**



**Karthik**



**Manish**



**Pujika**



**Rahul**



**Ramakrishna**



**Shravani**



**Srithik**



**Suprith**



**Varun**



**Veera Sai**

# PAPER PRESENTATION

## About:

A paper presentation is merely a 5-20 minute act in which you discuss a groundbreaking effort in your field. You may have been a part of the breakthrough, or you may simply be recounting the work of someone else. On the eve of Convergence 2k21, Paper Presentation contest was conducted and around 120 registrations were received for this event.

## Paper Presentation Coordinators:

### Faculty Coordinator:

Dr. K. Kalyana Srinivas, ECE

### Student Coordinators:

Ms. Adepu Akhila

Mr. Pokala Venkatesh

## Number of Participants:

The total number of papers submitted were 100 and a total of 242 participants

## Winners:

Position	Participants	Title
1st	Mirza Irfan Baig Mohammad faizan Meda Ajay Kumar	Finding existence of 11d and control over time using string theory
2nd	S.Chetan Reddy P.Siddardth V.Simon Prashanth P.V.S Suraj	Antimatter Propulsion: for a new age spaceflight
3rd	V.Sai Sowjanya V.Chetan Reddy V.Paniteja V.Lohith	Contactless Temperature Detector and Sanitizer Dispense with Alert Message

# SOFTWARE HACKATHON

## **About:**

The 'SOFTWARE HACKATHON' is conducted under VNRVJIET's Annual Technical Fest named "CONVERGENCE", to encourage students to come up with innovative ideas and prototypes making it an ultimate platform for the techno-maniacs. The 2021 edition has taken up an untraded path on its way to be stupendous, opening gates to the new ideas. It is a 2 day event involving the students of various ] disciplines by coming up with different solutions for real life problems with their own wide spectrum of ideas and methodologies in various domains and hence broadening the horizons.

## **Software Hackathon Coordinators:**

### **Faculty Coordinator:**

Dr. G.Radhika, EEE

### **Student Coordinator:**

Mr. Ullas CH

## **Software Hackathon on Convergence:**

On the day of convergence 2k21, the software hackathon started with the phase, where teams have started pitching their ideas to their own proposed method using their preferred architecture.

This was followed up on 15<sup>th</sup> and 16<sup>th</sup> December 2k21, where teammates have started implementing their ideas and methods regarding their problem statement. The mentors and volunteers were always present at the arena to help the participants and clarify their doubts.

## **Number of Participants:**

The total number of teams were 86 and a total of 290 participants

**Winners:**

<b>Position</b>	<b>Participants</b>	<b>Problem Statement</b>
1 <sup>st</sup>	Naram Tapan Ganesh Gautham Mallipeddi Kommineni Srinivasa Deepesh Akhilesh Kumandan	File Organizer Using Natural Language Processing Algorithms for Texts
2 <sup>nd</sup>	Prashansa Mishra Kavya Muktha Karne Sreshta	Summarization of Text
3 <sup>rd</sup>	M. Harikesh M.Sai Ritish Reddy G. Hemanth Varma K. Santhosh Kumar	Predicting the crop demand and yield based on soil compatibility, rainfall using Machine Learning.
Consolation	K.V.Komal Akhil Md. Azam Hussain G. Sanjana G. Chandana Sree	Providing security to home during absence of owner using smart AI cameras.
Consolation	Mendu Kowshik Reddy Ponnuru Rakshitha Reddy Maithre Samuel Aleti Shriya	Inefficient Bill passing and Constitutional Amendments in the Parliament

# HARDWARE HACKATHON

## **About:**

The hardware hackathon was held over the course of two days of the event, on the 15<sup>th</sup> and 16<sup>th</sup>, for the participants. The event offers opportunities for the participants to test out their problem-solving skills and techniques through various activities and scenarios, where they are given different situations and scenarios to understand, analyze, explore and solve.

## **Hardware Hackathon Coordinators:**

### **Faculty Coordinator:**

Dr. G.Radhika, EEE

### **Student Coordinators:**

Mr. Yashwanth Gade

## **Problem statements:**

1. Industrial Automation
2. Wireless power transfer demonstration
3. Agricultural IoT
4. Smart Energy Management
5. IOT based Traffic-Related or Parking solutions
6. Protecting crops from wild animals
7. Automated solutions for the caretaking of Senior citizens and children
8. Handling of raw materials or E-waste
9. Automobile Advancements (Driver monitoring, Diagnosis, Accidents prevention, Electric Vehicles)
10. Protecting crops from wild animals
11. Other problem statements were also allowed

## **Number of Participants:**

The total number of teams were 23 and a total of 84 participants

**Winners:**

<b>Position</b>	<b>Participants</b>	<b>Problem Statement</b>
1 <sup>st</sup>	K Prashanth M Aftab Arab N Manohar N Manasa	Anti Drainage Blockage
2 <sup>nd</sup>	Sowmya Sindhu Pallavi Bhavitha	Trash Picking Robot
3 <sup>rd</sup>	Sohail U Vamshi Sreyas Pradhyuth Mohan	Smart Dustbin
Consolation	M Manya N Akhil Faizan	Wireless power transmission for EV
Consolation	Dharani Sai Deepa Sree Sri Harshitha	Protecting farms from wild animals

## WORKSHOPS

### About:

There were 9 workshops conducted as a part of convergence. These workshops were focused on the latest and upcoming technologies and aimed to give students knowledge on such essential topics. The following workshops were conducted.

### Faculty Coordinator:

Dr. N. Sandeep Chaitanya, CSE

### Workshops :

S.no	Workshop Name	Participants Count	Resource Person	Student Coordinator
1	Artificial intelligence & Machine Language	90	Dr. G. Madhu, Anudeep	D. Manikanta
2	Internet of Things (IoT)	100	Dr. Naga Deepa CH	Nuthalapati Alekhya
3	Cyber Security	100	Eminent person from Supraja Technologies	K. Teja Abhinav Reddy
4	Additive manufacturing	60	Mr Koppunur Rakesh	J. Haarika
5	Adobe Photoshop	40	D. Sruthi, K. Sunayana	D. Sruthi
6	ANSYS	65	Saikishore Emmadi	Rishi
7	Robotics Applications	43	Mr. G. Surya Prakash	B. Amulya, P. Phanindra
8	MATLAB	40	Mrs K. Archana Bhange	Yashaswi
9	Drone Survey	85	Dr. Gulshan Taj, Mr.Nandipati Sunil	B. Puneeth

# CODING CONTEST

## About:

The coding contest is conducted by Turing Hut, the coding club of VNRVJIET, to encourage the students to participate in competitive programming. It was conducted in two rounds: Qualifier round and Final round, both of which had a duration of three hours. A spark quiz was also conducted in two rounds (Qualifier and Final) in 4 different programming languages: C, C++, Python and Java.

## Coding Contest Coordinators:

### Faculty Coordinator:

Dr. P. V Siva Kumar, CSE

### Student Coordinators:

Mr. J. Gnana Deepak  
Ms. Sri Vedha

## Number of Participants:

The number of teams participating was 210 and around 555 participants.

## Winners:

### Coding Contest:

Position	Participants	College Name
1st	Ankan Mahapatra, Anirudh Chebolu, Kaushal	Vasavi Engineering College
2nd	Laxmi Kanth Reddy, Shiva Nanda Reddy, Shiva Reddy	Keshav Memorial Institute of Technology
3rd	D Neeraj Ashish, Chitimuti Hitaish Kumar Reddy, Rasineni Yathin	VNR VJIET

### Spark Quiz:

S.no	Participant	Quiz Name
1	M. Akshitha	C Quiz
2	P. Vinaya Madhulikha	C++ Quiz
3	Shiva Avinash	Python Quiz
4	Guru Bhargav S	Java Quiz



# PROJECT CONTEST

## About:

The 'PROJECT CONTEST' is conducted under the banner "CONVERGENCE" to encourage students to come up with innovative ideas and prototypes making it an ultimate platform for the techno-maniacs. This is the 22<sup>nd</sup> year of the legacy of convergence. The 2021 edition has taken up an untraded path on its way to be stupendous, throwing light on new ideas. It is spread over 2 days involving the students of myriad disciplines into making different types of projects in various domains and hence broadening the horizons.

## Project Contest Coordinators:

### Faculty Coordinator:

Mr. D Ramesh Reddy, ECE

### Student Coordinators:

Mr. T. Bala Manish Reddy

Mrs. J. Alekhya Reddy

## Number of Participants:

The teams were divided into two domains - Software and Hardware

The total number of teams were 99 and a total of 320 participants.

## Winners:

### Hardware Domain:

Position	Participants	Title
1st	N. Sunil, S. Santosh Kumar	Seed balls dropping using drones
2nd	D.Harinath Babu, Kilaru Sai Kiran, Himisha Chowdary, Pranay Kumar	Automatic emergency exits in bus
2nd	G.Ushaswi, Gummadi Uday Kiran, Chilumaju Sunay, Md.Sohail	Using Non-newtonian fluid as speed breaker
3rd	R. Abhi Ram, NB. Charan Teja, A. Aravind, S. Naveen	Transformer fault detection using GSM module
3rd	Manoj, Srujan, Udaysree, Vinay	Smart locking system using face detection

**Software Domain:**

<b>Position</b>	<b>Participants</b>	<b>Title</b>
1st	Gurram Samanidhar Reddy, D Gopi Krishna Praveen Reddy, K Sohan, M Meera Hussain	An app and website for the management of VJ Hostels
2nd	Manchikatla Bhuvana, Karra Naga Shivani, Mashetty Akshitha, Balthu Sri Varshitha	Hourly attendance by bar codes
3rd	Thota Yathin Kumar Pambal , Rushil Kumar Kalal, Nithin Aavula, Nithin Challa	Best price finder
3rd	Marri Nevan Hardeep, Chunduri Likhitha Varsha, Boorla Akshaya, Karumuri Mehernadh	Phishing Detection and Demonstration

# ROBOTICS

## About:

The Robotics Events “Robo Rally”, “All Terrain” and “Robo Soccer” are conducted under the banner “Convergence”. To encourage the students to innovate and understand the basics of robotics training sessions were conducted. The training was to give an introduction about robotics and train the students to make their own bots to participate in the robotics events during Convergence 2K21.

## Robotics Coordinators:

### Faculty Coordinator:

Dr. S. Senthil Kumar, EIE

### Student Coordinator:

Mr. R. Gopal Nayak

Mr. G. Sai Srithik

## Number of Participants:

The total number of teams were 39 and a total of 114 participants

## Winners:

Position	Participants	Event
1st	Chandradyp, Sahasree, Sameer, Kavyasree	Robo Rally
2nd	Jyothika, Sreeleka, Apurva	Robo Rally
1st	K. Praneeth, R Sravani, U. Abhishek	All Terrain
2nd	M. Bharath, L. Bharath Chandra, V. Dhanyasree	All Terrain
1st	Vishwanath, Mohit, Thaker	Robo Soccer
2nd	Phanindra, Shirisha, Yashwanth	Robo Soccer

# TECH TALKS

## About:

The 'TECH TALKS' is conducted under the banner "CONVERGENCE 2K21". It is an event to bring together bright minds to give talks that are idea-focused, and on a wide range of subjects, to foster learning and provoking conversations that matter. The 2021 edition has taken up an untraded path on its way to be stupendous, throwing light on new ideas.

## Tech Talks Coordinators:

### Faculty Coordinator:

Dr. S. Rakesh, Civil Dept

### Student Coordinators:

Mrs Varshitha Muddasani

Mrs Pujika Upadhyay

## TECH TALKS SPEAKERS:

### DAY 1 (15 th DECEMBER 2021):

Mr. Y. Kausthub Kaundinya, Founder & CEO at Jarsh Safety

Dr. Y. Murali, Sr. Consultant Pulmonologist at Srikara Hospitals

Mr. A. Rajesh Kumar, Deputy Vice-President at Stressed Assets Specialist Group

Mr. Crisna Chaitanya Reddy, Create-U owner, TEDx Speaker

Mr. Vamsee Krishna Reddy, Create-U Owner

### DAY 2 (16 th DECEMBER 2021):

Mr. S. Pavan Ram, S/W Engineer at NCR Corporation

Dr. P. Balakrishna, Sr. Lead R&D Application Engineer at GE Renewable Energy

Mr. Pravin Upadhyay, Co-Founder of Clenv Private Limited

Mr. Ajit Padmanabh, Founder & CEO at WhoVR, TEDx Speaker

## Number of Participants:

The total number of participants on Day1 are 127 and on Day2 are 111.

## SOCIAL EVENTS

### **About:**

As a part of the Social events team NSS, VNRSF, VJSV(TLC) came together to set up various events and programs for raising awareness about the various programs being undertaken by various societies of VNR VJMET. There were also contests conducted such as SOCH and WOW.

### **Social Events Coordinators:**

#### **Faculty Coordinator:**

Dr. P. Padmavathi, H&S

#### **Student Coordinator:**

Mr. Vishnu Vardhan

### **Number of Participants:**

Across the various events conducted hundreds of responses and students were taking part in the events.

## MODELS

### **About:**

Models made by the members of SAE,ASME were displayed opposite to the B Block during the Convergence. Microcar, Hybrid Bike, Foldable electric cycle, Baja, Supra Vehicle from SAE club and Solar powered EV from ASME club were included in the display. Specifications of the vehicles, its Powertrain, Significance were explained to the students who came to see the models. On the First day we collected the vehicles from the respective places and placed them altogether opposite to the B Block. Name of the event for which the vehicle is fabricated was clearly specified to the students and also included in the banners. In the evening all the vehicles were taken into the SAE shed and again kept back the other day morning and demonstration of models by respective

### **Models Coordinators:**

#### **Faculty Coordinator:**

Dr. S. K. Amjad, AE

#### **Student Coordinator:**

Mr. Karthik

# INEX – GYSC PROJECT EXPO 2K21

## About:

The 'INEX - GYSC PROJECT EXPO' is conducted along with "CONVERGENCE" to encourage students to come up with innovative ideas and prototypes making it an ultimate platform for the techno-maniacs. This is the 22<sup>nd</sup> year of the legacy of convergence. The 2021 edition has taken up an untraded path on its way to be stupendous, throwing light on new ideas. It is spread over 2 days involving the international participants and our students of myriad disciplines into making different types of projects in various domains and hence broadening the horizons.

## COMMITTEE:

A committee was constituted for undertaking all required work regarding organizing the INEX – GYSC Project Expo on 13<sup>th</sup> , 14<sup>th</sup> and 15<sup>th</sup> December 2021. The core team consisted one student coordinator( IV year ) , organizers team of 10 students( III years ) and 12 volunteers.

## INEX – GYSC PROJECT EXPO 2K21 COORDINATORS:

### STUDENT COORDINATORS:

GURRALA INDU – CSE-A final year

### ORGANIZING TEAM:

1. Terli Lakshman
2. Manish Uppu
3. Ram Terli
4. Raja Rajasri Parvathaneni
5. Preetham Reddy Godi
6. R. sai hemanth
7. K. Yasaswini
8. Meghana Gogi
9. K. shivani
10. MD. Arshad Iqbal

### PARTICIPANTS:

ID	Innovation	Authors	Country	Award
1	SAMURAI (Smart Application for Monitoring Urban Farming): Android Appication for Hydroponic Farming System Integrated with IoT MQTT Panel to Strengthen the Community Food Security in the Midst of Pandemic	Ulvia, Ganesh Zahra Salsabila M, Nailia Nurisma Sumarno, Putri Izzati Zakaria, Zalwa Mutiara Syam	Indonesia	GOLD

2	Smart 3D LENUZZLE Technology As A Learning Media to Increase The Intelligence of Children with Mentally Dissabled in The 3T Indonesia Area	SHARLA RIZNA TRISNANDA, YONITA SHELLY ANGGRAENI, KEISYA SHERANI ATTARI YASMIN, PUTRI AISYAH NUR AINI, SHAFIRA ARDELIA	Indonesia	GOLD
3.	PS HERBAL FIT	Suthiksha Baloo, Narashimma Naidu Baloo, Chelsea Janani James	Malaysia	GOLD
4	RUTA GRAVEOLENS HAND SANITIZER	YESVITHAA A/P VIMALRAJ, THARSHAIENI A/P MURALI, TARUNA A/P VIGEN, VAISHNAVE A/P GIRITHARAGOPALAN, KESHINI A/P K.KAWTHMEN	Malaysia	GOLD
5	AARURAA KULIYAL PODI OR HERBAL BATH POWDER	AARURAA VELMURUGAN, TRISHNA TARRINI PUVENESWARAN, SATVIKA PUNIAMOORTHY, DEVENIA THANABALAN AND RHAGAVI R.GOBALAKRISHNAN	Malaysia	GOLD
6	Drones as Virtual Tourists	Amirali Nasrollahi, Amirhossein Payandeh, Suzana Stojakovic - Celustka, Amin Faraji, Reza Raeisi	Iran, Croatia	GOLD
7	Automatic number plate recognition	D Shashidhar,E Pavani	India	BRONZE
8	Voice controlled Home Automation	Kurella Rohan, Korada Uday Kiran, Maddala Ojasvi, Lokam Dhanush	India	SILVER
9	An assessment on the potential of tenebrio molitor used for Biodepolymerization of waste papers, Plastics and Polystyrene : Influencing factors, various feeding cases, gut microbiota and responsible enzymes	T Vijay, Shreya Gowda, D. Shaaz Moin Shah, S Keerthana	India	GOLD
10	PM2.5 sensor module	S Ganani Harsha	India	SILVER
11	Development of biochar from floral waste fro the removal of heavy metal( Copper) from the synthetic waste water	P. Anuroop Rao, Purna Chand .S, R. Udayteja, R. Chaitanya	India	GOLD
12	Smart Lock System using face detection	Sai Manoj D, B Vinay, T Srujan Teja, P Uday Sree	India	SILVER
13	Multi functions using Python	I Uday Kiran, R Sai Hemanth, K Sowmya	India	SILVER
14	Scrolling text display using Arduino	N Venkata Adithya, M Sudeep, Shahid ur rehman, S Manish	India	SILVER
15	Smart Blind stick using Arduino	Sahithi, Chaithanya, Uday Kumar, Sai Shreyash	India	SILVER



16	VNR VJiet Indoor Navigation	Lingampally Neha Reddy, Lakshmi Vijaya Aashritha Nelavelli, Gnaneshwar Kandukuri, Muddasani Venkata Sai Vinay	India	SILVER
17	Digital Stop Watch	G Ashesh, Ch Varun	India	BRONZE
18	Wi-Fi controlled Bot	G Sreshta, A Aishwarya, M Khyathi	India	SILVER
19	Smart Dustbin	G Harshitha, K Divya, D Pravavi	India	GOLD
20	Audio Transmission using Li-Fi	Y Anish Reddy, V Maheshwar, M Neelohith	India	GOLD
21	Automated headlight Intensity Control	K Anusree, Md. Maifooze, D Anushka, M Vishnu Vardhan Reddy	India	SILVER
22	Smart home Automation using Wi-Fi	B G Sai Srinivas, K Sohila, B Kasyap, K Hemanth Lakshmi Phani Prasad	India	SILVER
23	Sending email using RFID and Python	Siddhesh Uttarwar, Ram Terli, Lakshman Terli, Manish Uppu	India	SILVER
24	Energy consumption using piezoelectric materials to generate power	Maddika Sai Varsha, M Veda Sahithi	India	SILVER
25	Contact less Temperature detector and Sanitizer Dispenser with alert message	Valluru Chetan Reddy, Vadapalli Sai Sowjanya, V Pani Teja, V Lohith	India	GOLD
26	Hologram	M Durag Prasad, B Yogesh, Md Nazeer, K Rahul	India	GOLD
27	Detection of thefting in ATMs	V Naresh, L Sai, Teja	India	SILVER
28	Usage of Sensor goggles for blinds, Control Appliances using phone	M Bhanu Prakash, Shaik Aliuddin, Md Naser Pasha	India	SILVER
29	A model of Hydraulic plane launch	B Prashanth, B Mukesh, G Sai Govindh, B Sreethan	India	SILVER
30	IoT Based door monitoring system	K Niketh, M Vaishnavi, P Anugna	India	SILVER
31	Li-Fi technology	G Ojaswini, K Keetrana	India	BRONZE
32	IoT Based Home Automition	B Amrutha, B Deekshitha	India	SILVER
33	Virtual Assistant using Python	Satuluri Harini Madhu Priya, Komaravelli Ananya, Mara Srikar, Rajula Sai Kiran	India	SILVER
34	Follow me robot	Y Deepthi, C Sarika, V Kiranmai, T Nikitha	India	SILVER
35	Simple Robotic Arm	Yashwanth, Vagdevi, Asha, Akshitha	India	GOLD
36	Data Transmission using Li-Fi	Tapeswver Mandotra, Rajeev Babu Vasam, S Raghu Teja Reddy, R Sai Hemanth	India	GOLD

37	IoT Based Wireless health monitoring System	A Manideep, G Bala Krishna, K Mahendra, P Yogesh Sai	India	SILVER
38	E-Waste management using Green Computing	T M Anupama, Karthik Kallipudi, Ainesh Gunturu	India	BRONZE
39	Gas leakage detection	PENDEM HARSHITH, THALLAPALLI PRASAD	India	GOLD
40	Parking vehicle crash avoidance system, Smart vehicle speed measurement, Display and record for each individual vehicle	S Pradeep Reddy, B Lohith, M Karunakar	India	BRONZE
41	Home Automation using Smart Glass	Anish Yalavarthi, Tarun Vishlavath, Gouni Raghavendra, Guguloth Rahul	India	GOLD

## CONVERGECNE 2K21 CENTRAL TEAM

### PUBLIC RELATIONS TEAM:

#### Student Coordinators:

Ms. V Meghana

Mr. Sathvik

### DESIGNING TEAM:

#### Student Coordinators:

Mr. K Sai Kamal

Mr. B Veera Sai

### GENERAL ARRANGEMENTS & HOSPITALITY TEAM:

#### Student Coordinators:

Mr. Sai Varun Sidda

### DOCUMENTATION TEAM:

#### Student Coordinators:

Mr. B Dhruva Varma

### SOCIAL MEDIA TEAM:

#### Student Coordinators:

Ms. Shivani

Ms. B Varshini

## Volunteers - CONVERGENCE 2K21

GYSC And INEX Team	Public Realations Team	Designing Team	General Arrangements & Hospitality Team	Documentation Team	
M Aruna Samhitha	Jeevan	B Varshini	SushanthManishetty	Haasitha	Sanjana
Y. Saini Vijaya Durga	Vidya shivani	G Charitha	Varun Mahankali	Rohan	Manav
Sreechandana Salvaji	Bhanuprakash	D Sruthi	Aravind	Shulamite	Bhakti
Harshitha Attanti	Adithya	K Sunayana	Nandu	Sonika	Keerthana
Nandini Gadkol	Sreelekha.	Bhanusree	Vinay	Manisha	Likitha
Mahima Muttineni	Soumya	BattulaExitha	Akhil	Sneha	Akhilesh
Kummari Shivani	Tarun		Indu	Prashansa	Shivesh
Araveeti Sai Shreya	Yashwanth		Meghana	Tanmayi	Vamshi
Aedla Naimisha	Shreyas		Praveen	Bhargav	
Pathapally Jahnvi	Harsha			Harshitha	
M.Vamshi Krishna Sai	Pallavi			Satya	
Pranav Yada	Sai priya			Pallavi	
D.Anushka	Ajay			Lakshit	
	Kiranvini			Ojasvi	
	Kiranmai			Vasista	

## Volunteers - CONVERGENCE 2K21

Paper Presentation	Software Hackathon	Hardware Hackathon		Workshops		
Keerthi Manikanthan	Yahwanth	Yashwanth Sabbithi	Jamedar Dhakshayani	Tejaswini	Yashwanth	Lokesh Reddy
Sushma Kunchala	Sree Chandana	Sree Chandana Salvaji	Teja Abhinav Reddy Kaipu	S. Sahithi	I. Navya	Rishi
Ane Yamini	Uday Kiran	Uday Kiran Irukula	P. V. Nippun	N. Jahnvi	K. Deepthi	Brunda
Prapti Karunanidhi	Avinash	Avinash Batchu	K. Sharwani	Niharika	K. Bhuvana Chandra	G. Kiran
Veernapu Simon Prashanth	Sadiya	Samreen Sadiya	Sai Vinay	Shravani	Shainitha	Ramesh Guptha
Kaluwala Abhilash	Vidya Sivani	Vidya Sivani Uddaraju		Vardhan	Sravika	RajKumar
Karthikeya tadepalli	Yashwanth	Perala Aditya		Sneha	Sushruth	Vaishnavi
Lekkala Puneeth	Rakesh M	T. Karthik		V. Rathan Himakar	Harshitha	Karthik
Pappula Soumya	Sujith	Sai Tarun		M. Sahithi	A. Sai Shreya	Naveen
BommuPoojitha	Bhanusree	Surukutla Rohan		K. Sakethvarma	M.Sathvika	J. Karthik
Kiranmaivadlagatta	Nikhil Swamy	P. Yashwanth		N. Uday kumar	YashwanthSena	Srinivas
Gurivelli Dimple Sai	M.V.S.Vinay	Rakesh Miryala		P. Hrishikesh Rao	Rohith	M. Geethika
	P.Aditya	Sujith Mudragada		S. Bhaskar	Arun	P. Bhavya Reddy
	T. Karthik	Bhanusree Eesari		M.Salman	B. Kalyani	K. Srujana
	Sai Tarun	Nikhil Swamy		Y. Tharun	M. Shivani Rao	

## Volunteers - CONVERGENCE 2K21

Coding Contest	Project Contest			Robotics		
A Praneeth	Pranav Yada	Nikitha	Anusha S	Praveen Moyili	Sai PraneethKamishetty	Abhishek
N. Ayush	AvaniKanta	Chaithanya	T. Harshitha	Islavath Shirisha	Anurag	Chandra Kiran
Ravi Varma	Akshaya Reddy	Varsha	Sudeep M	Ravula sravani	B. Naveen Kumar	Suprit
Ch. Neha	Shivani	Avani Kan	Koti Reddy	Pedapudi Naga phanindra kumar	Pravalika Bottu	Aditya
K. H. S. Supriya	D. Sri likhitha	B. Mrudhu Lassya	A Abhishek	Abbineni Santhoshi Pravallika	Mamindla Bharath	Gopal Nayak
G. Avinash	Pravali	Meher Swetha	Chandra Kiran	Dundigalla Sai Sunder	Dabbara Rushitha	V. YashwanthSena
K. Yogendra	Chetan	Adithya	E Vamsi Krishna	Gandhe Sai Srithik	V. Dhana Sree	Vaishnavi
K. Sumanth Kumar	Krupakar	Nishal	Seema	C. Nithesh Reddy	Lolla Bharath Chandra	Goutham Priya
Srija Thulasi	Neha Reddy	Vinay		S. Sathvika	Sk. Nazma	Sai Rohith Ari
V. Venu	T. Shiva	Deepthi		C. Abhineswar Reddy	D. Padma Priya	Naidhruv
M. Jeffrey	Gnaneshwar	Navya		Ch Murali Krishna	Thrinesh	
K. Neelima	Hrishikesh	Aashritha		Sai Naga AasrithMadir eddy	Vadla Arun Kumar	
	Yashwanth	Akhila Sri		R Hruthik Chandra	Salak Sowmya	
	T. Shiva	Sharvani		K Surendra	N. Hyma	
	Sannitha	Jayanth		Rahul Rapole	P. Mamatha	

## Volunteers - CONVERGENCE 2K21

Tech Talks	NSS	VNR SF	VJSV	Models
Katuri Anusha	Ch. Akhil Sai	B. Smavarthika	Aditya Pramod Kotha	K.Jaswanth
V. Arun Datta	V. Devi Divyasree	A. Sangeetha	Chunduri Sai Sri Harsha	Sai Teja
Pokala Karthik	K. Avaneesh	N. Ajay	Sai Priya Trisula	K.Rajesh
VysyarajuHarveni	C. Sandhya	G. Chandhu	YashwanthPapagiri	
Kotha Aditya Pramod	B. Amulya	P. Neeraja	Pavani Pinnamaneni	
Chunduri Sai Sri Harsha	M. Tharun	E. Praneeth	VinushaVemulapalli	
Neelima Gundu	S. Mudassir	D. Keerthana	RishyendraErukulla	
Surabhi Seetha	T. Spurthi	N. Sowmya	AvanikantaBommagani	
	Y. Deedepya	B. Renuka	PravaliBommakanti	
	Ch. Sai kiran			
	R. Shriya			
	P. Prasanna			

## Convergence Souvenir Design Team

Mrs. S. Jahnavi Assistant Professor, CSE Faculty Coordinator CSI	Sruthi Damera	Sunayana Koora	Varshini Bonagiri
			

# PHOTOS

## CONVERGENCE 2K21 INAUGURATION



## INEX - GYSC PROJECT EXPO 2K21



### Coding Contest



### Tech Talks



### Workshops



### Hardware Hackathon












### Software Hackathon



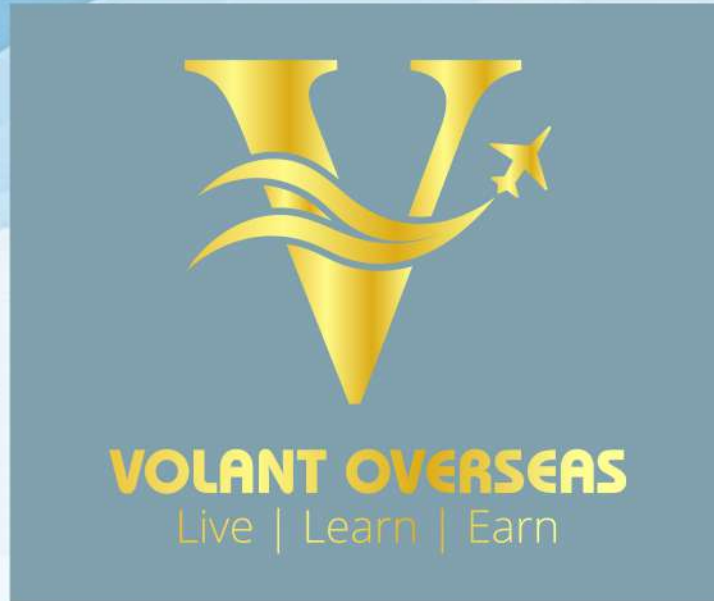
### Paper Presentation





Models	Social Events (NSS)	Social Events (SF)
		
VJSV	Robotics	Project Contest
		
		

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