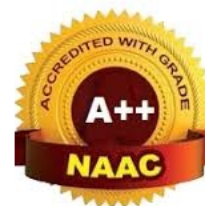




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CONVERGENCE 2K19 Report

ABOUT:

The National Level Technical Symposium "CONVERGENCE" since its inception in 1999 has been instrumental in shifting the paradigm of usual coursework and has evolved as an ultimate platform for the techno-maniacs. This is the 21st year of the legacy of Convergence and new contemporary themes were added which includes, Hackathons, Designathon, Projects with Societal Impact, Coding contest, Startup Idea competitions, Patent Idea competitions and Technical Paper presentation. These events were in addition to Workshops, Poster Presentations, Seminars, Guest lectures and other technical competitive events.

COMMITTEE:

A committee was constituted for undertaking all required work regarding organizing the technical fest. The core team (final years) consisted of 72 students and volunteers from third year.

The student chapters involved in preparing for CONVERGENCE-2K19 were ISTE, IEEE, ISOI, CSI, SAE, VGLUG, VSI and IETE.

CONVERGENCE 2K19 COORDINATORS:

Dr. S. Pranavanand, Assoc. Prof., EIE
Dr. C. Kiran, Assoc. Prof., EIE
Mr. N. Sandeep Chaitanya, Asst. Prof., CSE
Mr. M. Ravikanth, Asst. Prof., CSE
Mr. D. S. G. Krishna, Asst. Prof., EEE
Mrs. V. Priyanka, Asst. Prof, ECE
Ms. K. Renuka, Asst. Prof., IT
Mr. G. A. V. S. Sandeep, Asst. Prof., CE
Mr. B. Goutam, Asst. Prof., EIE
Dr. V. Siva Rama Krishna, Asst. Prof, ME
Ms. J. Snothaswini, Asst. Prof, AE

PUBLIC RELATIONS:

As a part of Public Relations, the PR team held a hand-printing event was conducted to promote CONVERGENCE-2K19 within the campus. The internal PR was conducted. The external PR work was initiated and faculty member, Mr. Sandeep, Asst. Prof, CSE accompanied the students. The colleges were intimated via mail and personal PR was carried out at nearby colleges.

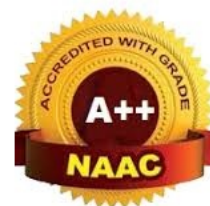
Under the guidance of Principal sir, the HoDs of all the departments also canvassed for the event at every class room.

For the first time Intramural Innovation Challenge (IIC) was conducted as a part of Convergence. A total of 3000+ students registered for the event and 2129 students attended the event. Hackathons, Designathon, Projects with Societal Impact, Coding contest, Startup Idea competitions, Patent Idea competitions and Technical Paper presentation were conducted as a part of IIC and the students were trained.



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INAUGURATION:

The inaugural event took place on 26th of Sep. 2019. Various dignitaries attended the event and gave their precious words regarding the fest. The following is the list of dignitaries that attended the event.

Dr. Y. Padma Sai	Dean, Student Progression and HoD:ECE
Dr. C.D. Naidu	Principal, VNRVJIET
Dr. B. Chennakesava Rao	Director, Advancement and Dean Administration., VNR VJIET.
Dr. D. N. Rao	President, Vignana Jyothi
Mr. Prabakar Kundurthy	Director- Technical, iSansys Lifecare Pvt. Ltd.
Mr. Vamsi Kotte	CEO, Syntizen



Dr. D. N. Rao, President Vignana addressing the gathering



Dr. C.D. Naidu, Principal, VNRVJIET addressing the gathering



Dr. B. Chennakesava Rao, Director, Advancement and Dean Administration., VNR VJIET addressing the gathering



Dr. Y. Padma Sai, Dean, Student Progression and HoD:ECE addressing the gathering

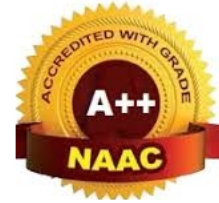


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Mr. Vamsi Kotte, CEO, Syntizen, addressing the gathering



Mr. Prabakar Kundurthy, Director- Technical, iSansys Lifecare Pvt. Ltd addressing the gathering



Dignitaries releasing the souvenir of Convergence 2k19



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Convergence 2k19 hosted a total of 31 events. The list follows.

1.	Hardware Hackathon (Makeathon)
2.	Software Hackathon (Hackathon)
3.	Social/ Rural Innovation (Designathon)
4.	Coding Contest (Code & Win)
5.	Patent Idea Competition
6.	Startup Idea Competition
7.	Technical Paper Presentations
8.	Poster Display & Presentations
9.	Techno Expo
10.	Tech Workshops
11.	Tech Talks
12.	Social Events
13.	Robotics: a. Drones competition b. Robo soccer c. All terrain d. Robo Rally
14.	Events: a. Eveniment b. Reverse Coding c. Business and Marketing d. RC car racing e. Scavenger Hunt f. Brainiacs g. Qriosity h. Electronic hacks i. Mechadrim j. TechToday k. MegaHunt l. Rhetoric m. The tangling brain n. Automania o. NSS Soch

Hardware Hackathon (Makeathon):

A hardware hackathon is a design sprint-like event in which electronic designers, coders, domain experts, programmers, project managers, and others involve in development of a project. The goal of a hackathon is to create usable hardware with the goal of creating a functioning product by the end of the event. The project must be completed within 24 hours.



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The participants were issued certificates and winners were awarded cash prize and merit certificates.

Software Hackathon:

A software hackathon is a design sprint-like event in which computer programmers and others involved in software development, including graphic designers, interface designers, project managers, and others, often including domain experts, collaborate intensively on software projects. The project must be completed within 24 hours.

The participants were issued certificates and winners were awarded cash prize and merit certificates.

Societal Impact / Rural Innovation Projects (Designathon):

The project has to be developed within 24 hours. The theme may be selected by the participants. The product can be either software/ hardware or a pragmatic solution to the problem defined.

The participants were issued certificates and winners were awarded cash prize and merit certificates.

Coding Contest:

The students can form a team and work on the task given to them within the stipulated time. The scores of each team will be displayed online. The team that shall complete all the task in shortest time shall be declared as winner of the competition.

The participants were issued certificates and winners were awarded cash prize and merit certificates.

Patent Idea Competition:

This event is for the students of VNR VJIET only. The students shall present their ideas in the format prescribed to the jury which includes attorney and other external & internal experts.

The best four patentable ideas are selected and awarded. Participation certificates were also issued.

Startup Idea Competition:

The students from all the institutes shall present their idea and business plan for starting their own enterprise. The expert committee shall scrutinize and award the suitable idea.

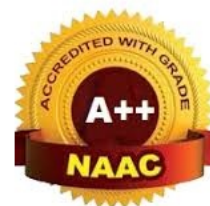
The best four Startup ideas were selected and awarded. Participation certificates were also issued.

Technical Paper Presentations:



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The students shall present their project in a prescribed format of presentation. Also, the students can select any latest technological topic and present the same. However, preference shall be given to the papers based in project, either simulation or prototype model.

The topics were divided into four major domain. Two prizes were awarded under each domain.

Poster Display & Presentations:

The students shall take any topic of their interest. They must prepare a poster explaining the same. It can be problem or solution to the problem.

Techno Expo:

The students shall exhibit the project developed by them and prepare a poster to showcase the internal diagram/ block diagram / circuit diagram etc.

Events:

A total of 15 technical competition in addition to the above-mentioned event was conducted. The students will be given task that has to be accomplished with in stipulated time. The winners of each event are adjudged and awarded.

Workshops:

The workshop were conducted on niche technological areas. Eight workshops were organized. The students shall attend the workshop for two days. At the end of the workshop, certificates signed by conducting industry shall be issued to the participants.

No. of students participation in individual events:

S. No	Activity	No. of Teams	Number of students
1.	Hardware Hackathon (Makeathon)	24	94
2.	Software Hackathon (Hackathon)	47	173
3.	Social/ Rural Innovation (Designathon)	20	68
4.	Coding Contest (Code & Win)	100	278
5.	Patent Idea Competition	44	44
6.	Startup Idea Competition	40	82
7.	Technical Paper Presentations	85	206
8.	Poster Display & Presentations	47	89
9.	Techno Expo	9	20

10.	Events	-	1514
11.	8 Workshops	-	484
	Total		3052



Fig. 1. a) Electric Bike developed by 3rd student b) Foldable e-cycle developed by Diploma students of the institute.



Fig.2. Race car developed by Students of Mechanical, Electrical and Automobile Engineering students.



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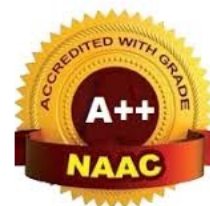


Fig.3. The emblem of the institute developed by Design team



Fig.4. A cardboard model of the tanker developed by Design team students of the institute.



Fig.5. A drone competition organized during 26th and 27th Sep. 2019



Fig.6. SOCH- An event to showcase the solution developed by students to the problems faced by the country



Fig. 7. Jaagruthi- An event to create awareness about the problems faced by rural people
WoW- A competition to develop Wealth Out of Waste



Fig. 8. Dhissuchi event by NSS

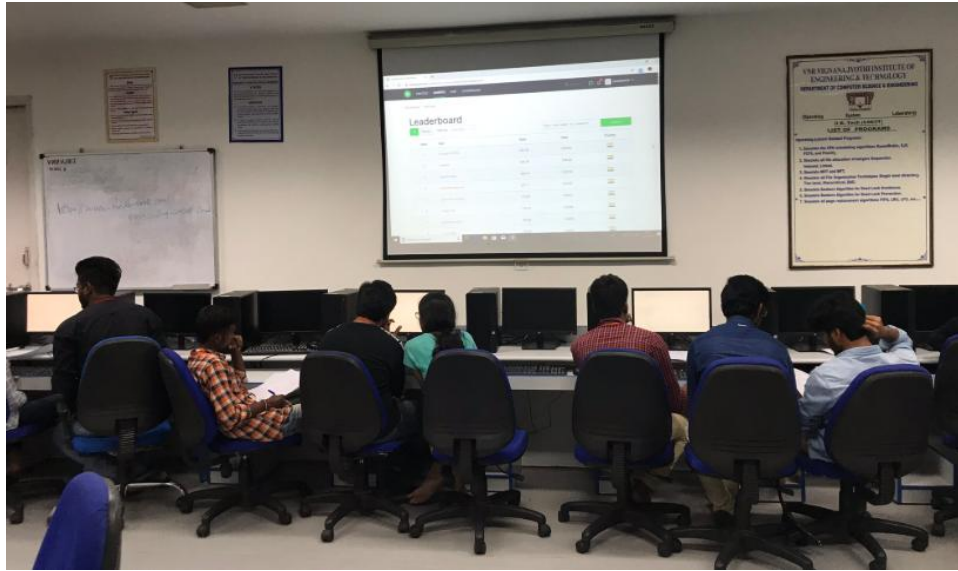


Fig. 9. Coding contest organized by the Dept. of CSE to test the innovative coding skills with real time scoreboard.



Fig. 10. A workshop on Virtual Reality conducted by CSE Dept.



Fig. 11. Paper presentation competition to ignite young mind to solve real time problems

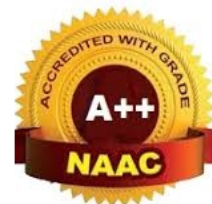
The following are the prize winners

1. Hardware hackathon					
S. No	Name of students	Position	Title	Institute Name	Prize Money in Rs
2.	D. Vinay Reddy	1	Safe driving distance	VNRVJIET	15000
3.	D. Sai Prabath			VNRVJIET	
4.	G. Nitish Reddy			VNRVJIET	
5.	Y. Teja			VNRVJIET	
6.	B. Srujana Sree	2	Railway Track Cleaning	VNRVJIET	10000
7.	D. Mamatha			VNRVJIET	
8.	P. Chaitanya			VNRVJIET	
9.	P. Tharangini			VNRVJIET	
10.	U. Ramya			VNRVJIET	
11.	V. Arun Datta	3	Automated	VNRVJIET	5000



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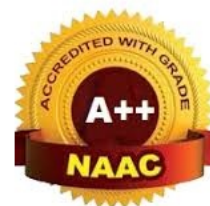


12.	Pujika Upadhyay		Waste water diversion system	VNRVJIET	
13.	B. Lahari			VNRVJIET	
14.	P. Shanmuk Sri Krishna			VNRVJIET	
15.	P. Samanvitha Reddy			VNRVJIET	
2. Software hackathon					
S. No	Name of students	Position	Title	Institute Name	Prize Money in Rs
1.	Suprith Reddy	1		VNRVJIET	15000
2.	M. Vamsi		VNRVJIET		
3.	Durga Sai Kiran		VNRVJIET		
4.	Noel Paul Moses		VNRVJIET		
5.	Sai Prudhvi	2		VNRVJIET	10000
6.	Chandra Prakash		VNRVJIET		
7.	Pranay Priyan		VNRVJIET		
8.	Shiva Bhargav		VNRVJIET		
9.	Mohd. Shoab	3		VNRVJIET	5000
10.	K. Lohith		VNRVJIET		
11.	SMD. Saqlain Patel		VNRVJIET		
3. Societal Impact Projects					
S. No	Name of students	Position	Title	Institute	Prize Money in Rs
1.	T. Tarun Kumar	1	Docman	VNRVJIET	15000
2.	Y. Ritish Bhardwaj			VNRVJIET	
3.	G. Sanketh			VNRVJIET	
4.	M. Siri	2	Addressing water scarcity	VNRVJIET	10000
5.	N. Surya Teja			VNRVJIET	



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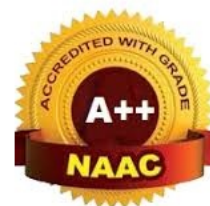


6.	M. Akila		problems in metro cities	VNRVJIET	
4. Coding contest					
S. No	Name of students	Position	Institute	Prize Money in Rs	
1.	Gundeti Dheeraj	1	CVR College of Engineering	10000	
2.	Bhanu	2	Osmania University	7500	
3.	J.S.G.G. Sagar	3	Chaitanya Bharti Institute of Technology	5000	
5. Startup idea Contest					
S . N o	Name of students	Position	Title	Institute	Prize Money in Rs
1.	Vaishnavi Rudraraju	1	The Third Eye	G Narayanamma Institute of Science and Technology	10000
2.	Meghana Reddy				
3.	Nandu Tejaswini				
4.	G. Ashish Reddy	2	VLearn	VNR VJIET	5000
5.	Kancherla Gowtham				
6.	Rithvik Gujarala				
7.	Gnani Harsha	2	Farmville	VNR VJIET	5000
8.	R. Shiva Sai Rama Krishna	Consolation	e- Farming	Malla Reddy Engineering College	1500
6. Patent Idea competition					
S. No	Name of students	Position	Institute	Prize Money in Rs	
7.	S. Koteswari	1	VNRVJIET	10000	



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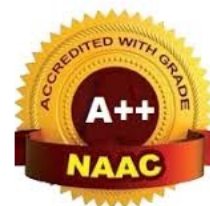


8.	Vulugundam Sai	2	VNRVJIET	7500
9.	Krishna Siddhant		VNRVJIET	
10.	G. Sanketh	3	VNRVJIET	5000
11.	T. Tarun Kumar		VNRVJIET	
12.	Y. Riteesh baradwaj		VNRVJIET	
13.	Greeshma Nethrikaa Boini	Consolation	VNRVJIET	1500
14.	Likitha Reddy Kasa		VNRVJIET	
15.	Konduru Indu		VNRVJIET	
16.	Mir Gulam Murtuza Ali		VNRVJIET	
7. Technical Paper Presentation				
S. No	Name of students	Position	Institute	Prize Money in Rs
Domain A				
1.	Karthik	1	CBIT	3000
2.	M. Aaryan	2	VNRVJIET	2000
3.	P. Sai Murali			
Domain B				
4.	V. Manasa	1	VNRVJIET	3000
5.	M. Yaswitha		VNRVJIET	
6.	B. Roshini	2	VNRVJIET	2000
7.	J. Sushma		VNRVJIET	
Domain C				
8.	Rithvik Varma	1	VNRVJIET	3000
9.	K. Sumedh		VNRVJIET	



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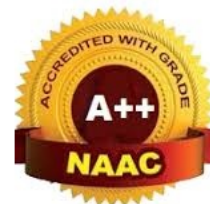


10.	Manish. A		VNRVJIET	
Domain D				
11.	Ch. Saitheja	1	VNRVJIET	3000
12.	B. Snigdha		VNRVJIET	
Domain E				
13.	Jyothi Swaroop	1	VNRVJIET	3000
14.	Prathima Godha		VNRVJIET	
15.	Sai Jahnvi		VNRVJIET	
Domain F				
16.	Swathi Singh	1	VNRVJIET	3000
17.	N. Bhagaya Sree		VNRVJIET	
8. Poster Presentation				
1.	Prasanna	Plantations	VNRVJIET	1000
2.	Yejwin	No mining	VNRVJIET	500
9. Technical Events				
a. Business and Marketing				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	Akshay	1	VNRVJIET	Rs 500
2.	Abhishek		VNRVJIET	
3.	Harveni	2	VNRVJIET	Rs 300
4.	Akhila		VNRVJIET	
5.	Yasaswini		VNRVJIET	
6.	Deekshita		VNRVJIET	
9. Technical Events				
b. Brainiacs				



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S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	Deepika	1	VNRVJIET	Rs 500
2.	Jagruiti		VNRVJIET	
3.	Harshitha		VNRVJIET	Rs 300
4.	Vineetha		VNRVJIET	
5.	A.Pranavi	2	VNRVJIET	
6.	V.Deekshitha		VNRVJIET	
7.	M.Sahithi		VNRVJIET	
9. Technical Events				
c. Qriosity				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	CHAITANYA	1	VNRVJIET	Rs 500
2.	M SAHITHI		VNRVJIET	
3.	DEEPTHI YAMSANI	2	VNRVJIET	Rs 300
4.	DADEEPIYA KRISHNA NARUKULLA		VNRVJIET	
9. Technical Events				
d. Electronic hacks				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	Gnaneshwar	1	VNRVJIET	Rs 500
2.	U.ABHISHEK	1	VNRVJIET	Rs 500
9. Technical Events				
e. Mechandrium				



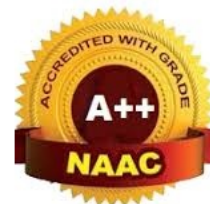
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S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	V.SATHWIK	1	VNRVJIET	500
2.	K.RAMU	2	VNRVJIET	500

9. Technical Events

f. Tech Today

S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	Darahasa	1	VNRVJIET	500
2.	SAI PRUDVISH	2	VNRVJIET	300

9. Technical Events

g. Mega Hunt

S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	MUSKAN	1	VNRVJIET	500
2.	NIKHIL		VNRVJIET	
3.	U.KIRAN		VNRVJIET	
4.	VINAY		VNRVJIET	
5.	CH.LOKENDRA		VNRVJIET	
6.	V.MAHESHWAR	2	VNRVJIET	300
7.	K.SHRUTHA REDDY		VNRVJIET	
8.	SOWMYA		VNRVJIET	
9.	RISHITHA.T		VNRVJIET	
10.	S.L.PRANEETHA		VNRVJIET	
11.	M.SAI BHARATH		VNRVJIET	

9. Technical Events

h. Rhetoric



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S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	M SHREYA	1	VNRVJIET	500
2.	U ABHISHEK	2	VNRVJIET	300
9. Technical Events				
i. The tangling brain				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	C. Akshay reddy	1	VNRVJIET	500
2.	E.Sai Shruthik	2	VNRVJIET	300
9. Technical Events				
j. Reverse coding				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	Navaneeth	1	VNRVJIET	500
2.	Irshad		VNRVJIET	
3.	Swetha	2	VNRVJIET	300
4.	Likitha		VNRVJIET	
9. Technical Events				
k. Eveniment				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	B.Raja Vamsi	1	VNRVJIET	500
2.	R.Sudeer Kumar	2	VNRVJIET	300
9. Technical Events				
l. RC car racing				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	G.Udhivk	1	VNRVJIET	500
2.	Lakshmikanth	2	VNRVJIET	300
9. Technical Events				
m. NSS Soch				



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S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	Mudasir	1	VNRVJIET	1000
2.	Lalith		VNRVJIET	
3.	Tarun		VNRVJIET	
4.	Akhil	2	VNRVJIET	500
5.	Prashanth	3	VNRVJIET	300
9. Technical Events				
n. Game over				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	R.Neha	1	VNRVJIET	500
2.	Sharvani		VNRVJIET	
3.	Vidya Sivani		VNRVJIET	
4.	B.VARSHINI	2	VNRVJIET	300
5.	N.SAI ANIRUDH		VNRVJIET	
6.	V.SAKETH		VNRVJIET	
9. Technical Events				
o. Roller coster				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	Hruthik	1	VNRVJIET	500
2.	Harsha		VNRVJIET	
3.	Sai Bharath		VNRVJIET	
4.	Bhargavi		VNRVJIET	
5.	Vaishnavi		VNRVJIET	
6.	Vinay	2	VNRVJIET	300
7.	Tharun		VNRVJIET	



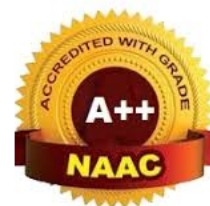
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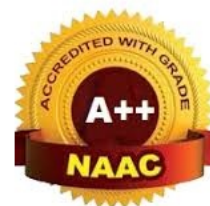


8.	Ankita		VNRVJIET	
9. Technical Events				
p. Snake and Ladder				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	Yeshwanth	1	VNRVJIET	500
2.	Akhil		VNRVJIET	
3.	Bhargav	2	VNRVJIET	300
4.	Ramu		VNRVJIET	
9. Technical Events				
q. Scavenger Hunt				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
1.	P.Sai Srujana		VNRVJIET	500
2.	S.Deepika		VNRVJIET	
3.	Gayatri Meka		VNRVJIET	
4.	B.Varshini		VNRVJIET	300
5.	N.Sai Anirudh		VNRVJIET	
6.	V.Sai Saketh		VNRVJIET	
7.	D.Kaushik		VNRVJIET	
10. Robotics				
S. No	Name of students	Position	Institute Name	Prize Money in Rs
a. Age of Drones				
1.	S.Vinay Praveen Rao	1	Srinidhi Institute of Science and Technology	20000
2.	CH.Vaishnavi			
3.	Animi Gourav			
4.	Damodar Darshan Kolla	2	VNRVJIET	10000
5.	SAS Hemanth			



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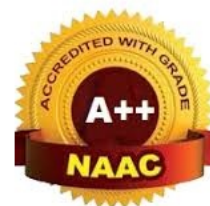


b. Robo Soccer				
6	Shewale Akshay	1	GCoE Nagaon Dhule	3000
7	Shantaram			
8	Pranali Patil			
9	Harshada Shinde			
10	K.Anurag Reddy	2	VNRVJIET	2000
11	R.Gopal			
12	R.Hruthik Chandra			
c. Robo Rally				
13	Shewale Akshay	1	GCoE Nagaon Dhule	3000
14	Shantaram			
15	Pranali Patil			
16	Harshada Shinde			
17	M.Venkata SaiVinay	2	VNRVJIET	2000
18	Gona Jahnvi			
19	K.Hemanth Lakshmi Phani Prasad			
20	M.Venkata SaiVinay			
d. All Terrain Robots				
21	Shewale Akshay	1	GCoE Nagaon Dhule	3000
22	Shantaram			
23	Pranali Patil			
24	Harshada Shinde			
25	Valiveti Nrushimha Gautam	2	VNRVJIET	2000



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26	Boggavarapu G.Nishal	Vinay		
27	Valiveti Nrushimha Gautam			
28	Boggavarapu G.Nishal	Vinay		
11. Workshop				
S.No	Name of the workshop	Fee in Rs	Total number of students	
1.	leViL ATTACKERS	200	60	
2.	MATLAB Workshop	200	40	
3.	Machine Learning using Python	300	55	
4.	IoT WORKSHOP	400	60	
5.	AR/VR	500	50	
6.	Solidworks	300	90	
7.	Engine	150	60	
8.	IOT in civil engineering	500	69	

SAARADHI EVENTS:

As a part of Saaradhi team NSS, TEDx VNRVJIET, VNRSF, VJSV(TLC) came together to set up various stalls for raising awareness about the various programs being undertaken by various societies of VNR VJIET. **NSS**

Here are the events on the three days of SAARADHI theme in CONVERGENCE, 2018 where TEAM NSS brings out a platform for engineers to be a part of it. We have four events along with stalls.

EVENTS:

- 1) **SOCH:** Let's engineer the tomorrow at "SOCH". Valuable ideas i.e., technical solutions in the form of presentations, models, projects that are related to social issues can be presented. The first best idea would be given a prize of Rs.1500, second best Rs.1000 and third best idea of Rs.500.

STALLS:

NSS GALLERY: We have a VISION and a MISSION for every event which we do. This gallery helps the audience in knowing the vision and mission of the events which we do and throwing a light on the solutions for the problems which we are trying to solve.

VJSV(TLC): The VJSV(TLC) has set up a stall under Saaradhi. The stall was named as UNIKI ('ఉనికి') which aimed to emphasize the importance of Telugu and Telugu speaking people to the current day generation.



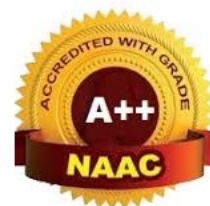
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VNRSF: VNRSF the student force of VNRVJIET took an active part in conducting various events like social assembly, jagruthi, Praja, Mulam and WOW (Wealth Out of Waste).

JAGRUTHI: Jagruthi, the name depicting - "enlightenment" is an awareness stall. The stall dealt with how a nation can develop by developing the individual in various aspects which comes under a broader umbrella called Human Development Index (HDI)". HDI is the measurement of development of people in the country considering the factors such as Life expectancy, Education and Opportunities and the GDP and National per capita income. So, here comes the role of an individual in developing himself, community or the people around him and his state and country individually and collectively.

In the stall the students, faculty and visitors come to know and understand how they can contribute in raising the factors for HDI. Factors such as Life expectancy can be increased through good health and protecting and conserving the environment. Good education can be received through the addition of morals to the intellectuality and abolishing the inequalities among the people based on color, creed, region, religion and gender. National income can be achieved through various roles we take as a responsible citizen and being a good taxpayer. This stall helped the visitors understand how they can contribute for the development of the country and in ranking good in HDI through the examples of Scandinavian countries which stands top in Education, Health, Peace, Happiness indices.

WOW: WOW is a platform giving awareness on how waste can be converted into beautiful items and creates wealth out of it.

Not only showcasing the items made of the waste which are made by the team but also explaining the importance of the waste management, the WOW stall got a huge round of applause from the faculty and the students. On the last day of the convergence, the items were put on auction and the money will be converted as the fund to the orphanages.

VALEDICTORY:





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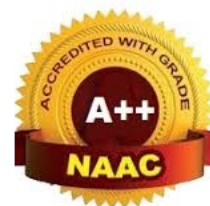


Fig. 12. Valedictory event

Co-Ordinators:
CONVERGENCE-2K19