

MATRIX 360°-2019

A Technical Magazine



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Department of Electronics and Communication Engineering
SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY
HYDERABAD



Sri. R. Venkat Rao, M.A.,B.Ed.

CHAIRMAN

Message from Chairman

It gives me joy unspeakable to affirm that Sri Indu group of institutions, having completed 39 years successfully, has grown into one of the best institutions in the one of the leading Groups in Hyderabad, Telangana. Our Institute is an Autonomous Institutions under UGC, Recognized under 2(f) and 12(B) of UGC Act 1956, approved by the All India Council of Technical Education (AICTE), NBA Accredited, NAAC in pipeline and An ISO 9001 : 2000 Certified College and Permanently Affiliated to JNTUH.

As everyone is aware of the fact that there is unprecedented advancement in the academic research and industry. Without an iota of doubt, it is to be admitted that the field of engineering and technology has undergone radical changes. That the sound engineering education is synonymous with a better standard of living has become a catchy adage of the day. Besides the acquisition of technical skills, the need of getting oneself familiarized with soft skills like communication skills, organizational skills, crisis management skills, public relations skills, etc., has gained appreciable momentum.

I am quite sure that Sri Indu is not only getting the students prepared for the potential job market but also instilling in them much needed enthusiasm even to work for the nation to meet the social aspirations of our country. I strongly believe that the engineers of today, by their innovation ideas, with their problem-solving attitude and of course, with the humanitarian bent of mind, can establish a better world where people of all nations may live in harmony and peace. By and large, I express my deep sense of commitment for the overall developments of the student community of my institute.

About Chairman

- A dedicated and dynamic personality.
- Pioneer to introduce novel Scholastic methods in the school and the hearts of parents and public.
- He is in Education field since 1979.
- Foresees a “Vision Ahead”. Always struggles to impart better education.
- Awardee by the Govt. of Andhra Pradesh in 1992
- Recipient of “Bharath Jyothi “ Award by his excellency, the President of India, Sri Gnani Zail Singh in 1994.
- Chairman of V.V.Info Business Service (India) Ltd., Hyderabad.



Sri. R. Anup Chakravarthy

SECRETARY & CORRESPONDENT

Message from Secretary

It is my personal observation that the students are perhaps at the most difficult crossroads of their life after their intermediate examinations. The decision they make at this juncture is going to have a long lasting impact on their future life and career. A competent, qualified, experienced and responsible head of the institute can only operate with a vision towards development of an institution.

It is an much instrumental as the engine of train. Our well-equipped laboratories such as laboratories with the computers having high-end configuration, the internet facility, Wi-fi enabled Campus state of the art library with national and international journals and magazines certainly create a congenial ambience for an ideal engineer in the making to grow.

I am really happy that despite slowdown of economy, Sri Indu has succeeded in bringing various good companies to its campus for placements. All in all, more than 589 students have been placed through campus placements till date during the academic year 2017-18.

Sri Indu Group believes in Bridging Gap between Industry & Research of the students who joined so as to make them apt for facing the challenges of industry and society. I invite you to join Sri Indu and begin your journey to successful and secured future.

About Secretary

- The present Secretary & Correspondent of the Sri Indu Group of Educational Institutions.
- He is a young and energetic personality.
- Obtained his Masters in Electrical & Electronics Engineering from U.K.
- He has learnt managerial skills from his father Sri.R.Venkat Rao

VISION

To be a premier Institution in Engineering & Technology and Management with competency, values and social consciousness.

MISSION

IM1: Provide high quality academic programs, training activities and research facilities.

IM2: Promote continuous Industry-Institute interaction for employability, entrepreneurship, leadership and research aptitude among stakeholders.

IM3: Contribute to the economical and technological development of the region, state and nation.

www.eriindia.ac.in

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

DEPARTMENT VISION

To be a centre of excellence in Electronics and Communication Engineering Education and to produce professionals for ever-growing needs of society.

DEPARTMENT MISSION

DM1: To promote and facilitate student- centric learning.

DM2: To involve in activities that enable overall development of stakeholders.

DM3: To provide holistic environment with state-of-art facilities for students to develop solutions for various social needs.

DM4: Organize trainings in embedded systems with Industry interaction

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO 1: Higher Degrees & Professional Employment:

Graduates with ability to pursue career in core industries or higher studies in reputed institution.

PEO 2: Domain Knowledge:

Graduates with ability to apply professional knowledge/skills to design and develop product or process.

PEO 3: Engineering Career:

Graduates with excellence in Electronics and Communication Engineering along with effective inter-personnel skills.

PEO 4: Lifelong Learning:

Graduates equipped with skills in recent technologies and be receptive to attain professional competence through life-long learning.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1: Basic Electronic and communications knowledge:

Apply basic knowledge related to electronic circuits, VLSI, communication systems, signal processing and embedded systems to solve engineering/societal problems.

PSO 2: Design Methods:

Design, verify and authenticate electronic functional elements for different applications, with skills to interpret and communicate results.

PSO 3: Experimentation & Communications:

Engineering and management concepts are used to analyze specifications and prototype electronic experiments/projects either independently or in teams.

POS	PROGRAM OUTCOMES STATEMENTS
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and

	in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

RESEARCHERS VIEWS AND DIRECTIONS

SMART SPEAKER LISTENS FOR AUDIBLE SIGNS OF CARDIAC ARREST

This AI system detects unique gasping sounds that occur when the heart stops beating

By Megan Scudellari



Photo: Sarah McQuate/University of Washington



This Smart Watch Detects Cardiac Arrest, and Summons Help

When a person's heart malfunctions and suddenly stops beating, death can occur within minutes—unless someone intervenes. A bystander administering CPR right away can triple a person's chances of surviving a cardiac arrest.

Last July, we described a smart watch designed to detect cardiac arrest and summon help. Now, a team at the University of Washington has developed a totally contactless AI system that listens to detect the telltale sound of agonal breathing—a unique guttural gasping sound made by 50 percent of cardiac arrest patients.

The smart speaker system, described today in the journal npj Digital Medicine, detected agonal breathing events 97 percent of the time with almost no false alarms in a proof-of-concept study. The team imagines using the tool—which can run on Amazon's Alexa or Google Home, among other devices—to passively monitor bedrooms for the sound of agonal breathing and, if detected, set off an alarm. “Cardiac arrest is one of those events where seconds count,” says study leader Jacob Sunshine, a physician and researcher at the UW School of Medicine and equity holder in a spinout

company commercializing the device. He envisions the system alerting someone locally to get to the patient fast, as well as directly calling 911 to get the patient to the hospital quickly. A recent study of cardiac arrests in Japan suggests that the bedroom is one of the most common places cardiac arrests happen at home. The team trained a machine learning algorithm to recognize agonal breathing in bedrooms using a unique dataset of real instances captured from 911 calls to Seattle's Emergency Medical Services. Bystanders often put phones up to patients' mouths so a dispatcher can determine if the patient needs CPR. The researchers extracted 236 clips of agonal breathing from 911 calls between 2009 and 2017, then played these clips at different distances to a speaker and added interfering sounds typically found in a bedroom—such as pets, cars honking, and air conditioners. They also included sound samples of snoring and sleep apnea recorded in sleep labs. The system correctly detected agonal breathing 97 percent of the time, up to 6 meters away from the sounds.

Next, the team had to be sure the algorithm wouldn't have too many false positives—incorrectly classifying other sounds as agonal breathing. Initially, the algorithm incorrectly categorized sounds from the sleep lab as agonal breathing 0.1 percent of the time and sounds of volunteers sleeping in their own homes 0.2 percent of the time. But when the algorithm was tweaked to classify a sound as agonal breathing only when detected three times, 10 to 20 seconds apart, the false positive rate dropped to zero for all sounds. Plus, “In a real deployment of this system, we'd envision having a warning system to give you a chance to cancel any false alarm,” says first author Justin Chan, a PhD student at UW.

Chan says the privacy concerns of such a system are no greater than normally using a smart speaker in a room, listening for a wake word. “Our system is designed in

such a way that it only requires local processing, so no data is sent over the Internet or the cloud,” says Chan. “In that sense, it is really privacy preserving.”

In addition to the bedroom, the team imagines the system being used in health facilities such as elder care homes. “A lot of people there are at risk for cardiac events, and what you’d really like is a contactless way to monitor people all the time,” says Chan. This, he adds, would be a better solution than a wearable they’d have to remember to recharge and put on regularly.

WORLD'S FIRST "QUANTUM DRONE" FOR IMPENETRABLE AIR-TO-GROUND DATA LINKS TAKES OFF

*Chinese researchers are developing an airborne quantum communications network
with drones as nodes*

By Charles Q. Choi

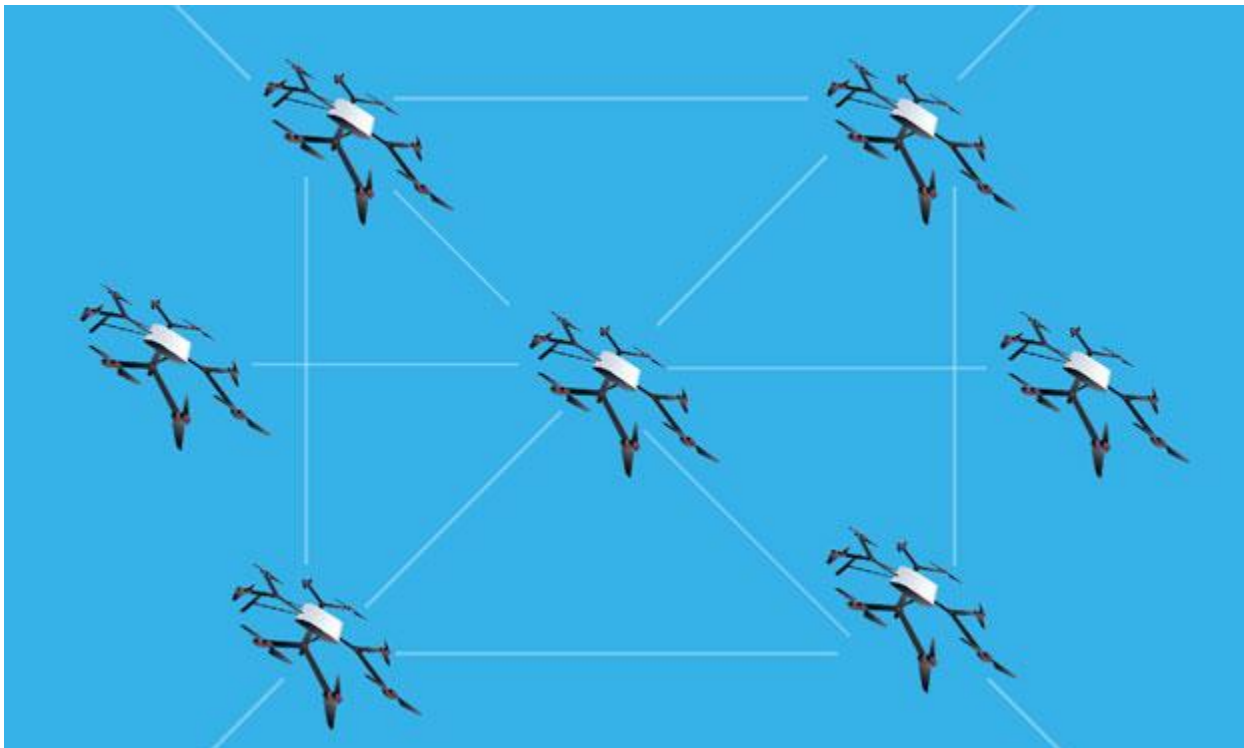


Illustration: Erica Snyder; Drone: Shutterstock

Quantum drones under development in China could lead to nigh unhackable airborne quantum communication networks, a new study finds. Quantum mechanics makes possible a strange phenomenon known as entanglement. Essentially, two or more particles such as photons that get linked or “entangled” can, in theory, influence each other no matter the distance between them. Entanglement is essential to the workings of quantum computers, the networks that would connect them, and the most sophisticated

kinds of quantum cryptography—a means of information exchange that is impervious to hacking.

A key problem with developing ground-based quantum networks is how fragile entanglement is; when sending photons over existing fiber-optic networks, this limits transmission distance and data rates. With that in mind, scientists have, in recent years, increasingly investigated quantum networks involving photons transmitted over open air.

Scientists in China and Europe are currently developing satellite-based quantum networks, enabling long-distance satellite-to-ground links. However, quantum satellites have a number of drawbacks. Among these: Satellites in low orbit can communicate with certain ground locations only within limited windows of time; and the costs of space launch makes setting up a quantum satellite network quite expensive.

Scientists at Nanjing University in China, noting the recent explosive advances in drone technology, have designed a “quantum drone” to serve as an airborne node in a quantum network. The researchers detailed their findings on 23 May in the ArXiv online preprint server.

“They have built the first quantum drone and used it as a node in a similar way as quantum satellites are used,” says quantum scientist Dmytro Vasylyev at the University of Rostock in Germany, who did not take part in this research.

The Chinese researchers developed an eight-rotor octocopter drone whose 35-kilogram weight at takeoff includes its onboard quantum communication system. In experiments, the researchers demonstrated that their quantum drone can operate while hovering in midair for 40 minutes at a time. It is capable of maintaining two air-to-ground links, each

roughly 100 meters long, and can receive and transmit entangled photons during the daytime, on a clear night, and even on a rainy night.

The scientists are confident that they can scale down their quantum communication system to fit aboard small consumer drones for on-demand local-area quantum networks. They could also scale it up for loading onto high-altitude drones that would be nodes in wide-area networks spanning hundreds of kilometers. All in all, they envision quantum drone networks filling a key niche between satellite and ground-based quantum networks. Vasylyev notes that fielding a communications network featuring quantum drones could be stymied by a number of challenges. For example, he suggests that although the system takes into account that many entangled photons are expected to get scattered, absorbed, or otherwise lost on their way to and from the drone, the quantum communications systems on the flying robot may potentially mistake stray photons from, say, the sun as some of these lost entangled photons. Such mistakes could endanger the security of the system by making its users overly confident in how well it works, he says.

In addition, “Drones fly in the lower atmosphere, where atmospheric turbulence is a significant source of signal degradation,” Vasylyev points out. Moreover, “The drone flight is, on its own, a great source of turbulent flow.” Such turbulence “could considerably degrade the performance of quantum communication.”

Drawbacks notwithstanding, says Vasylyev, quantum drones still offer clear advantages. They can serve as “a low-cost mobile alternative to a fiber-optic based network,” he notes, adding that they can also serve as testbeds to help researchers study the influence of weather conditions and other atmospheric effects on quantum communication. This will eventually yield better satellite-based quantum communication, he says.

STUDENT ACHIEVEMENT

PLACEMENT ACTIVITIES

S. No.	Student Name	Student ID/No.	Employer	Date of offer / Appointment
1	AKHIL	14D41A0403	WISEXCEL IT SOLUTIONS PVT. LTD	01-08-2018
2	PANITH RAMANNAGARI	14D41A04G7	COGNIZANT TECHNOLOGY	29-08-2018
3	K. MEENAKSHI	14D41A0497	TRIGO	31-10-2018
4	VENKATESH	14D41A04M6	PEOPLE TECH GROUP	17-09-2018
5	NARENDRA KUMAR	14D41A04D8	IIHT	15-06-2018
6	M. MANASA	14D41A04D5	HCL	21-09-2018
7	R BANDI POOJA	14D41A04H3	HCL	21-09-2018
8	SAMA SHAILAJA	14D41A04J3	HCL	21-09-2018
9	NASKANTI SHIVA SAI	14D41A04E6	[24]7.ai	14-09-2018
10	NANVESH REDDY	14D41A04H1	FOLIK TECHNOLOGIES	09-07-2018
12	TALLOJU KRISHAN	14D41A04K4	ADP	27-08-2018
13	A NAVANISH	14D41A0408	ADP	27-08-2018
17	ALLA PRUDVI	14D41A04G3	FOIWE INFO GLOBAL SOLUTIONS	20-08-2018
18	KONDA PALLAVI	14D41A04A0	MIND TREE	25-07-2018
19	D. NAVITHA	14D41A0446	LSN SOFTWARE SERVICES PVT LTD	19-07-2018
34	K ANVESH	14D41A04A2	C3I	31-08-2018
35	APPALA ADITYA	14D41A0411	INFOSYS	31-08-2018
42	B RAHUL BABU	14D41A0418	PEOPLE TECH GROUP	17-09-2018
44	T. NARESH	15D45A0414	UDS DOMOR FACILITY	19-08-2018

			SERVICES	
45	B DEERAJ GOUD	14D41A0432	Accenture Solutions Pvt. Ltd.	22/11/2018
46	BORRA PRASHANTH	14D41A0433	Accenture Solutions Pvt. Ltd.	22/11/2018
47	BYRI HAREESH	14D41A0434	Accenture Solutions Pvt. Ltd.	22/11/2018
48	CH SAI SANTHOSH	14D41A0435	Accenture Solutions Pvt. Ltd.	22/11/2018
49	CH LAKSHMI PRASANNA	14D41A0436	Accenture Solutions Pvt. Ltd.	22/11/2018
50	CHALLA MURALIDHAR REDDY	14D41A0437	Accenture Solutions Pvt. Ltd.	22/11/2018
51	CHAMALA SHRAVANI	14D41A0438	Accenture Solutions Pvt. Ltd.	22/11/2018
53	CHILPA SAIRAM	14D41A0440	Wells Fargo(india) Pvt. Ltd.	29-10-2018
54	CH SANDEEP REDDY	14D41A0441	Tech Mahindra	20-11-2018
56	CHIRRA DINESH	14D41A0443	Unicsol	05-10-2018
57	DODDAPANENI SAMPATH SAI	14D41A0449	ALIENS DEVELOPERS	05-10-2018
58	EDIGA MANISHA	14D41A0450	Unicsol	05-10-2018
60	E PRANEETH REDDY	14D41A0452	Tech Mahindra	20-11-2018
61	EDULAKANTI TEJASWINI	14D41A0453	Unicsol	05-10-2018
62	G GANESH	14D41A0454	SIA	21-04-2018
63	A SHIVASHANKAR CHARY	14D41A0455	Unicsol	05-10-2018
64	BANALA SANDHYA	14D41A0456	NebuLogic	01-02-2019

65	G SRAVAN KUMAR	14D41A0475	Wells Fargo(india) Pvt. Ltd.	29-10-2018
66	GUNTA VINNUBABU	14D41A0476	GENPACT	09-02-2018
67	GUNTAKALA ANJALI	14D41A0477	Tech Mahindra	20-11-2018
68	KURUVA SRAVANTHI	14D41A04A4	GENPACT	09-02-2018
69	G RAHUL KUMAR	14D41A0479	Unicsol	05-10-2018
74	J PRASHANTH	14D41A0483	Unicsol	05-10-2018
75	JAVVAJI VISHAL KUMAR	14D41A0484	Wells Fargo(india) Pvt. Ltd.	29-10-2018
76	JEELUGULA SRUTHI	14D41A0485	Tech Mahindra	20-11-2018
79	G SAI BHARGAV	14D41A04B0	Tech Mahindra	20-11-2018
83	A ABHINAY KUMAR	14D41A04B4	Unicsol	05-10-2018
88	M RAJESH	14D41A04B9	Tech Mahindra	20-11-2018
90	M VAISHNAVI	14D41A04C1	Wells Fargo(india) Pvt. Ltd.	29-10-2018
93	NARALA PRASHANTH	14D41A04E0	Tech Mahindra	20-11-2018
100	PARANDA MURALI	14D41A04F2	Tech Mahindra	20-11-2018
103	PASUNURI NEERAJ	14D41A04F5	Tech Mahindra	20-11-2018
104	P SNEHA REDDY	14D41A04F6	Unicsol	05-10-2018
105	P JAYADEEP	14D41A04F7	Tech Mahindra	20-11-2018
107	RAVIPATI M PRIYAA	14D41A04H8	Unicsol	05-10-2018
108	V MANISH KUMAR	14D41A04L5	Wells Fargo(india) Pvt. Ltd.	29-10-2018

109	VASAVI SRIKANTH	14D41A04L6	Tech Mahindra	20-11-2018
1	CHETELLI SPANDANA	14D41A0439	IBM India Pvt. Ltd	22-02-2019
2	CHILUVERU SAI RAM	14D41A0442	NebuLogic	01-02-2019
3	E BHARATH SIMHA REDDY	14D41A0451	NebuLogic	01-02-2019
4	BANALA SANDHYA	14D41A0456	NebuLogic	01-02-2019
5	H PRADEEP KUMAR REDDY	14D41A0480	NebuLogic	01-02-2019
	J SRIKANTH	14D41A0481	IBM India Pvt. Ltd	22-02-2019
7	L AJAY KUMAR	14D41A04A8	NebuLogic	01-02-2019
8	KAPARLA SUSMITHA	14D41A04A9	IBM India Pvt. Ltd	22-02-2019
9	K PRAVEEN KUMAR REDDY	14D41A04B2	NebuLogic	01-02-2019
10	M RAGHAVENDAR REDDY	14D41A04B8	IBM India Pvt. Ltd	22-02-2019
11	M BHARGAVI REDDY	14D41A04C0	NebuLogic	01-02-2019
12	N NARENDRA KUMAR	14D41A04E2	NebuLogic	01-02-2019
13	N PALLAVI	14D41A04E4	IBM India Pvt. Ltd	22-02-2019
14	P SRIMANTHKUMA R	14D41A04F4	NebuLogic	01-02-2019
15	PETERI SNEHA	14D41A04F8	IBM India Pvt. Ltd	22-02-2019

TECHNICAL EVENTS ORGANIZED

S. No	Event	Date	Resource Person with Designation	No of students participated
1	Guest Lecture	15/12/2018	Mr.V.Diwakhar Assistant Manager- HR KOSTAL India Pvt	85
2	Workshop	05/12/2018	M. Shiva Prasad RoboInSci Technologies	50
3	Webinar	11/08/2018	Maven Silicon Bangalore	91
4	Guest Lecture	26/07/2018	Dr. N. Suresh ECE Prof. Sphoorthy Engg clg	90
5	Workshop	07/07/2018	Mr. Karthik IMPATA	120

PRODUCTS DEVELOPED

S. N O	PRODUCT DEVELOPMENT	LIST OF COMPONENTS	SPONSORED BY	GRANTS (IN RS.)
1	IOT BASED DRONE FOR IMPROVEMENT OF CROP QUALITY IN AGRICULTURE FIELD	SERVOMOTOR, IRRIGATION SENSORS, DRONE PROPELLERS,	SICET	30,000/-
2	FPGA BASED KEY LESS CODED HOME LOCK SYSTEM	HDL SOFTWARE, FPGA KIT	SICET	20,000/-
3	HOME SECURITY SYSTEM USING RASPBERRY	RASPBERRY PI, WEB CAM, TEMPERATURE SENSOR,	SICET	25,000/-
4	FIRE FIGHTING ROBOT	ARDUINO BOARD, IR SENSORS, ULTRASONIC SENSORS,	SICET	17,000/-

		TEMPERATURE SENSORS, DC MOTORS,		
5	AN IOT APPROACH FOR MOTION DETECTION USING RASPBERRY PI	RASPBERRY PI, NODE MCU, IRRIGATION SENSORS	SICET	23,000/-
6	INDUSTRIAL ARM	DC MOTORS, ARDUINO BOARD, BLUETOOTH HC-05 MODULE	SICET	20,000/-

STUDENTS ACHIEVEMENTS IN NPTEL NOC COURSES

S. no	Course Name	Student Name	Final Score	Certificate Type
1	Embedded System Design with ARM	P SRI SHANTAN	80	Elite+Silver
2	Modern Digital Communication Techniques	NAVYA SRI GARLAPATI	73	Elite
3	Modern Digital Communication Techniques	MUNIGADUPA MOUNIKA	72	Elite
4	Modern Digital Communication Techniques	NAGULA JAYAPAL REDDY	70	Elite
5	Modern Digital Communication Techniques	RANGA SAI PAVAN	70	Elite
6	Modern Digital Communication Techniques	PADAMPALLE KAPIL	67	Elite
7	Modern Digital Communication Techniques	THANTHENAPALLY RAMYA SREE	64	Elite
8	Embedded Systems Design	SAKIRAN ELLURI	64	Elite
9	Modern Digital Communication Techniques	REPAKA NANDINI	63	Elite
10	Modern Digital Communication Techniques	MANNE.NIKHITHA	62	Elite
11	Modern Digital Communication Techniques	SAMA.PRAGATHI	62	Elite
12	Modern Digital Communication Techniques	R SRAVYA GEETHIKA	62	Elite
13	Modern Digital Communication Techniques	TAVADABOINA PAVAN KUMAR	61	Elite
14	Modern Digital Communication Techniques	PALLE.SHIVANI	60	Elite
15	Modern Digital Communication Techniques	MIRYALA SHIRISHA	60	Elite
16	Modern Digital Communication Techniques	MEDA MADHURITHA	60	Elite
17	Modern Digital Communication Techniques	P.VARUN RAJ	58	Successfully completed
18	Electromagnetic Waves in Guided and Wireless Media	B.NIKHIL KUMAR	58	Successfully completed
19	Modern Digital Communication	MANNEM ASHA JYOTHI	57	Successfully

	Techniques			completed
20	Modern Digital Communication Techniques	PRODUTURI ANIRUDH SAI	57	Successfully completed
21	Modern Digital Communication Techniques	SATULURI VENKATA NAGA SAI BHAVANA	57	Successfully completed
22	Modern Digital Communication Techniques	T MANIDEEP	57	Successfully completed
23	Electromagnetic Waves in Guided and Wireless Media	A.TEJASWINI	57	Successfully completed
24	Modern Digital Communication Techniques	DUDALA SAI BABA	56	Successfully completed
25	Modern Digital Communication Techniques	PERVALA VASUNDHARA	55	Successfully completed
26	Modern Digital Communication Techniques	POOJA ERUKULLA	55	Successfully completed
27	Electromagnetic Waves in Guided and Wireless Media	DEPA SAHITHI	55	Successfully completed
28	Modern Digital Communication Techniques	SAMALA MAHAVEER REDDY	54	Successfully completed
29	Modern Digital Communication Techniques	THUMPALLY PAVANI REDDY	54	Successfully completed
30	Modern Digital Communication Techniques	MEGAVATH SANTOSHA	54	Successfully completed
31	Modern Digital Communication Techniques	AKULA PARAMESHWAR RAO	54	Successfully completed
32	Modern Digital Communication Techniques	VARAKALA SHRAVAN KUMAR	54	Successfully completed
33	Modern Digital Communication Techniques	MANSUNI RAMYA	53	Successfully completed
34	Modern Digital Communication Techniques	N.GNANESHWARI	53	Successfully completed
35	Modern Digital Communication Techniques	PASUPIULETI GOPI	53	Successfully completed
36	Modern Digital Communication Techniques	SHAIK RAMEEZ	53	Successfully completed
37	Modern Digital Communication Techniques	ANTHARAM SRIVANI	53	Successfully completed
38	Modern Digital Communication Techniques	VAISHNAVI SAMA	52	Successfully completed
39	Electromagnetic Waves in Guided and Wireless Media	MOUNIKADACHEPALLY	52	Successfully completed
40	Electromagnetic Waves in Guided and Wireless Media	LASYA REDDY	52	Successfully completed
41	Electromagnetic Waves in Guided and Wireless Media	K.POOJITHA	52	Successfully completed
42	Modern Digital Communication Techniques	N.GAYATRI PAMAR	51	Successfully completed
43	Modern Digital Communication Techniques	PUJARI AKSHAY	51	Successfully completed
44	Modern Digital Communication Techniques	S RAMESH	51	Successfully completed
45	Modern Digital Communication Techniques	SANNAILA VIJETHA	51	Successfully completed
46	Modern Digital Communication	SANGA KARTHIK	51	Successfully

	Techniques			completed
47	Principles of Signals and Systems	RAKESH REDDY GANJI	51	Successfully completed
48	Electromagnetic Waves in Guided and Wireless Media	BANDAMIDI SAI TEJA	51	Successfully completed
49	Electromagnetic Waves in Guided and Wireless Media	ANURAG DULLUR	51	Successfully completed
50	Modern Digital Communication Techniques	P.SANDHYA RANI	50	Successfully completed
51	Modern Digital Communication Techniques	NALLOLA SRINATH	50	Successfully completed
52	Modern Digital Communication Techniques	KATRAVATH MANYA	50	Successfully completed
53	Electromagnetic Waves in Guided and Wireless Media	JATAVATH SUBHASH NAIK	49	Successfully completed
54	Electromagnetic Waves in Guided and Wireless Media	BETHAPUDI RAGHU VARMA	49	Successfully completed
55	Modern Digital Communication Techniques	SIRISHA MEKALA	48	Successfully completed
56	Modern Digital Communication Techniques	MUHAMMAD ZEESHAN HADI	48	Successfully completed
57	Modern Digital Communication Techniques	CHAVVA HARI CHANDANA	48	Successfully completed
58	Modern Digital Communication Techniques	VISLAVATH BHANINDAR	48	Successfully completed
59	Evolution of Air Interface towards 5G	BOYA AKHIL KUMAR	48	Successfully completed
60	Modern Digital Communication Techniques	MOHD ILIYAS AHMED	47	Successfully completed
61	Electromagnetic Waves in Guided and Wireless Media	DANDA KALYAN KUMAR REDDY	47	Successfully completed
62	Principles of Signals and Systems	P G VINOD	46	Successfully completed
63	Electromagnetic Waves in Guided and Wireless Media	GANAPURAM JYOTHIKA	46	Successfully completed
64	Modern Digital Communication Techniques	MANIKANTA PATWARI	45	Successfully completed
65	Modern Digital Communication Techniques	MOHEMMED SIRAJ	45	Successfully completed
66	Modern Digital Communication Techniques	MARIKANTI HARIMOHAN REDDY	44	Successfully completed
67	Electromagnetic Waves in Guided and Wireless Media	K V SAI GOPAL	44	Successfully completed
68	Electromagnetic Waves in Guided and Wireless Media	KORTIKANTI SANKETH	44	Successfully completed
69	Electromagnetic Waves in Guided and Wireless Media	KALAVAKURI .MAHESH BABU	44	Successfully completed
70	Modern Digital Communication Techniques	ROKKAM SAIPRIYA	43	Successfully completed
71	Modern Digital Communication Techniques	MANURI SAIRAM	43	Successfully completed
72	Modern Digital Communication Techniques	VEMULA MANOGNA	43	Successfully completed
73	Modern Digital Communication	TINGIRKAR SAIPRIYA	43	Successfully

	Techniques			completed
74	Electromagnetic Waves in Guided and Wireless Media	B.PAVAN KUMAR	43	Successfully completed
75	Electromagnetic Waves in Guided and Wireless Media	GADDAM AKHILESH	43	Successfully completed
76	Electromagnetic Waves in Guided and Wireless Media	K.MANUSHA	43	Successfully completed
77	Modern Digital Communication Techniques	SHALINI KUMARI OJHA	42	Successfully completed
78	Embedded Systems Design Verification and Test	SAIKIRAN ELLURI	42	Successfully Completed
79	Modern Digital Communication Techniques	MD.SHAREEF	40	Successfully completed
80	Modern Digital Communication Techniques	MARVATHU ROHITH	40	Successfully completed
81	Modern Digital Communication Techniques	NETHI SRAVYA	40	Successfully completed
82	Electromagnetic Waves in Guided and Wireless Media	KALAKONDA SRAVAN	40	Successfully completed

FACULTY ACHIEVEMENTS

The lists of following faculty members were participated in NPTEL NOC MOOC courses and achieved various categories.

S.no	Course Name	Faculty Name	Score	Certificate Type
1	Introduction to Internet of Things	DEEPIKA RATHOD BHUKYA	100	Elite+gold
2	Introduction to Internet of Things	G.SURESH	95	Elite+gold
3	Introduction to Internet of Things	S.MATIN	91	Elite+gold
3	Evolution of Air Interface towards 5G	LAVANYA NALLA	87	Elite+Silver
4	Evolution of Air Interface towards 5G	K MAHESHWARI DEVI	85	Elite+Silver
5	Modern Digital Communication Techniques	LAVANYA NALLA	84	Elite+Silver
6	Modern Digital Communication Techniques	PRATHYUSHA V	80	Elite+Silver
7	Evolution of Air Interface towards 5G	PRATHYUSHA V	77	Elite+Silver
8	Modern Digital Communication Techniques	SRAVANTHI G	76	Elite+Silver
9	Modern Digital Communication Techniques	K MAHESHWARI DEVI	73	Elite
10	Modern Digital Communication Techniques	KOTRA RAGHU RAJITHA	72	Elite
11	CMOS Digital VLSI Design	SOMISETTI ASHALATHA	71	Elite
12	Introduction to Internet of Things	SANDHYA BOLLA	70	Elite

13	Fuzzy Logic and Neural Networks	N C SENDHILKUMAR	68	Elite
14	Fuzzy Logic and Neural Networks	G.SURESH	67	Elite
15	Embedded System Design with ARM	G.SURESH	67	Elite
16	Modern Digital Communication Techniques	DEEPIKA RATHOD BHUKYA	66	Elite
17	Modern Digital Communication Techniques	KANUGU RAM MOHAN RAO	64	Elite
18	Evolution of Air Interface towards 5G	PASULA MAMATHA	61	Elite
19	Evolution of Air Interface towards 5G	SARADA.R	61	Elite
20	CMOS Digital VLSI Design	UDAYASRI PABBU	61	Elite
21	CMOS Digital VLSI Design	B.HEMAVATHI	61	Elite
22	CMOS Digital VLSI Design	THUMMALA NAGAVENI	61	Elite
23	Introduction to Soft Computing	G.SURESH	59	Successfully completed
24	Evolution of Air Interface towards 5G	KOTRA RAGHU RAJITHA	57	Successfully completed
25	CMOS Digital VLSI Design	D SANDHYA RANI	56	Successfully completed
26	CMOS Digital VLSI Design	PAYYAVULA SWATHI	55	Successfully completed
27	CMOS Digital VLSI Design	BOMMALA.NEERAJ A	55	Successfully completed
28	Electromagnetic Waves in Guided and Wireless Media	GONUGUNTA RAJ KUMAR	54	Successfully completed
29	CMOS Digital VLSI Design	K SRAVANI	54	Successfully completed
30	Fuzzy Logic and Neural Networks	MUKUNTHAN	54	Successfully completed
31	Antennas	NARSIMULU SRIBACCHA	52	Successfully completed
32	Introduction to Coding Theory	PRATHYUSHA V	51	Successfully completed
33	Modern Digital Communication Techniques	A.VENU	50	Successfully completed
34	CMOS Digital VLSI Design	PARUSHA RAMU EASARI	49	Successfully completed
35	CMOS Digital VLSI Design	PASULA MAMATHA	48	Successfully completed
36	Introduction to Coding Theory	KANUGU RAM MOHAN RAO	48	Successfully completed
37	Principles of Signal Estimation for MIMO/OFDM Wireless Communication	KANUGU RAM MOHAN RAO	47	Successfully completed
38	Introduction to Wireless and Cellular Communications	Martin Sahayaraj	46	Successfully completed
39	Evolution of Air Interface towards 5G	SRINIVAS BHUKYA	44	Successfully completed

40	Electromagnetic Waves in Guided and Wireless Media	NARSIMULU SRIBACCHA	44	Successfully completed
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LIST OF PROJECTS CARRIEDOUT

Batch No	ROLL NUMBER	NAME OF THE STUDENT	TITLE OF THE PROJECT	ORGANIZATION	INTERNAL GUIDE
1	15D45A0411	G. Dharma Naik	Weather Payload System in Satellite	In House	Dr. N.C. Sendhil Kumar
	15D45A0406	J. Sreenu			
	14D41A0434	B. Harish			
2	14D41A0429	B.Hareesh	Farm Monitoring system Using Arduino	In House	K.Maheshwari Devi
	14D41A0433	B. Prashanth			
	14D41A0416	A. Suman			
	14D41A0406	A. Kalyan			
3	14D41A0435	Ch. Sai Santhosh	IOT based Garbage Monitoring System using Node MCU	In House	P. Prashanth
	15D45A0412	Ramesh Pavan			
	15D45A0407	N. Sai Vikas			
	14D41A0442	Ch. Sai Ram			
4	14D41A0449	d. Sampath Sai	Industrial Robotic arm & Gesture Controlled conveyor belt using arduino	In House	B. Neeraja
	14D41A0452	E. Praneeth reddy			
	14D41A0432	B. deeraj Goud			
	14D41A0447	D. Muarli			
5	14D41A0420	B. rashmitha	Angry birds Game Controller using arduino	In House	A. Venu
	14D41A0444	Ch. Bhavani			
	14D41A0450	E. manisha			
	14D41A0439	Ch. Spandana			
6	14D41A0441	Ch. Sandeep Reddy	Wireless Chemical Tank level Indication System	In House	B. Deepika Rathod

	14D41A04 54	G. Ganesh			
	14D41A04 53	E. Tejashwini			
	14D41A04 36	CH. Laxmi Prasanna			
7	14D41A04 07	A. Pravalika	All Terrain Vehicle with Video Streaming	In House	B. Srinivas
	14D41A04 02	A. Divya			
	14D41A04 05	A. madhu			
	14D41A04 01	AC. Meghana mouli			
8	14D41A04 30	B. Yukthi	Node MCU IOT Sit Caluculator	In House	B. Sandhya
	14D41A04 09	A. Vineetha			
	14D41A04 56	B. Sandhya			
9	14D41A04 13	A. Shivani	Smart Insole to check pressure distribution on foot	In House	D. Sandhya
	14D41A04 14	A. meghana			
	14D41A04 27	B. Neeharika			
	14D41A04 23	B. Ravali			
10	14D41A04 03	A. Akhil	HEAD MOMENT BASED VOICE ENABLED WIRELESS DIVICE SWITCHING FOR PHYSICALLY CHALLENGED	(In House)	P. Mukunthan
	14D41A04 08	A. Navanish			
	14D41A04 04	A. Sandeep			
	14D41A04 24	B. Tejavardhan Reddy			
	14D41A04 43	Ch. Dinesh			
11	14D41A04 21	B. jaya sri	Door Bell with camera using Raspbery Pi	In House	V. Prathyusha
	14D41A04 46	D. Navitha			
12	14D41A04 18	B. Rahul babu	Water Contaminaton detector	(in house)	K. Ram Mohan Rao
	14D41A04 19	B. Vijay Bhaskar			

	14D41A04 17	B. Arun			
	41D41A04 55	Shiva Shankar Chary			
13	14D41A04 40	Ch. Sai ram	Ultrasonic Data transmission	(in housem)	E. Parusha Ramu
	14D41A04 10	A. Vishwateja			
	14D41A04 28	B. Suchith			
	14D41A04 26	B. Rahul Yadav			
14	15D45A04 03	P. Chandhu	Self Balanced Robot	In House	B. Kondalu
	15D45A04 10	R. Ashok			
	15D45A04 09	N. Sathish Goud			
	15D45A04 08	G. Rajashekar			
15	14D41A04 15	A. Nikhil	Arduino Earth quake detector system	In House	S. Narsimulu
	14D41A04 12	A. sai kumar			
	14D41A04 45	D. Rakshith			
	14D41A04 11	A. Adithya			
16	15D45A04 02	G. Arun Kumar	Electrical line surveying system	In House	D. Thirumal Reddy
	15D45A04 01	K. Chiranjeevi			
	15D45A04 04	A. Nihil			
	15D45A04 05	K. Vikram			
17	14D41A04 31	B. Gnana Pavan	e- Agriculture	(In College)	E. Parusha Ramu
	14D41A04 37	C. Muralidhar Reddy			
	14D41A04 51	E. Bharath Simha Reddy			
18	14D41A04 38	Ch. Sravani	Migration of Corporate Networks from IPv4 to New generation protocol IPv6 using tunneling Mechanism	BSNL	Prof. K. Ashok Babu
19	14D41A04 71	G. Arpitha	2. RFID Based Automatic Toll Gate System	In House	Dr. N.C. Sendhil Kumar

	14D41A04 72	G. Srikrishna			
	14D41A04 64	G. Navya			
	14D41A04 98	K. Priyanka			
20	14D41A04 57	G. sravya	3. aquarium system magement	In House	E. Parushu Ram
	14D41A04 93	K. Naga Malleshwari			
	14D41A04 A4	K. Sravanthi			
	15D45A04 22	P. Sruthi			
21	14D41A04 A2	K. Anvesh kumar	7. Finger Print Based Lock System Using Arduino	In House	P. Prashanth
	14D41A04 70	G. Saiteja			
	14D41A04 84	J. vishal kumar			
	14D41A04 A5	L. Tesjesh Kumar			
22	14D41A04 63	G. Srikanth Reddy	10. Pick and place robot using Arduino	In House	B. Deepika Rathod
	14D41A04 A3	K. Ajaykumar			
	14D41A04 B2	K. Praveen Kumar Reddy			
	14D41A04 83	J. Prashanth			
23	14D41A04 60	G. Naveena	14. Industrial Automation using raspberry pi	In House	D. Sandhya Rani
	14D41A04 A0	K. Pallavi			
	14D41A04 91	KS. Anusha			
24	14D41A04 A1	k. Saikumar Reddy	15. surveillance camera using raspberry pi for drones	In House	B. Neeraja
	14D41A04 82	J. Bargav teja			
	14D41A04 73	G. santhosh kumar			
	14D41A04 75	G. Sravan kumar			
25	14D41A04 69	G. Bhavani	16. Patient Health Monitoring System Using Raspberry pi	In House	A. venu
	14D41A04 94	K. manasa			

	14D41A04 67	G. Srithivennala			
	14D41A04 A8	L. AJAY KUMAR			
26	14D41A04 66	G. Priyanka	19. Arduino Based Fire Fighting Robot	In House	B. Srinivas
	14D41A04 68	G. Sravani			
	14D41A04 74	Sruthi Gunda			
	14D41A04 97	K. Meenakshi			
27	15D45A04 19	G. Shiva	20. Gesture Operated computer control system using arduino and python	In House	B. Sandhya
	15D45A04 21	P. Praveen			
	15D45A04 24	B. Devender			
	14D41A04 A6	L. Giri			
28	14D41A04 79	G. Rahul	21. Virtual reality using arduino and processing	In House	P. Mukuntan
	14D41A04 80	H. Pradeep Reddy			
	14D41A04 88	K. Anvesh			
	15D45A04 18	N. vikram			
29	15D45A04 15	A. Mahesh	23. Voice Controlled home automation using raspberry pi	In House	V. Prathyusha
	15D45A04 23	Ch. Saiprasanna			
	15D45A04 17	R. Sreedhar			
	15D45A04 16	M. Suresh Kumar			
30	14D41A04 B3	K. Sukumar Goud	25. Voice Controlled Robot Using Arduino	In House	K. Ram Mohan Rao
	14D41A04 B4	A. Abhinay			
	14D41A04 B0	G. Sai bhargav			
	14D41A04 87	K. Anil			
31	15D45A04 14	T. Naresh	27. Soldier Health and position tracking system	In House	P. Rama Devi
	14D41A04 A9	K. Susmitha			
	14D41A04 86	J. Pooja			

32	14D41A04 85	J. Sruthi	29. door Locking System Using node MCU	In House	T. Nagaveni
	14D41A04 89	K. Mounika			
	14D41A04 92	K. Vaishnavi			
	14D41A04 58	G. Navya			
33	14D41A04 59	G. Saikiran	controlling a robot by video streaming throuh Wi-Fi	In House	B. Kondalu
	14D41A04 61	G. Saikumar			
	14D41A04 62	G. Sai ram			
	14D41A04 95	K. Arvind			
34	15D45A04 20	P. Suresh	31. boarder security system	In House	G. Raj Kumar
	15D45A04 13	R. Bhaskar			
	14D41A04 77	G. Anjali			
	14D41A04 99	K. Harika			
35	14D41A04 65	G. Sriya	Adavance Courier BoT	(T-Hub)	Prof. K. Ashok Babu
	14D41A04 90	K. rachana			
	14D41A04 96	K. sushma			
36	14D41A04 G4	P. Manisha	Wireless surveillence camera using Raspberry PI for Drones	In House	B. Raj Kumar
	14D41A04 C5	M. Sahithi			
	14D41A04 B5	M. Deepthi			
	14D41A04 C1	M. Vaishnavi			
37	14D41A04 C6	M. Srinidhi Reddy	Arduino Led Color Changer	In House	G. Sravanthi
	14D41A04 C9	M. tejaswi			
	14D41A04 E5	N. kalyani			
	14D41A04 F6	P. Sneha Reddy			
38	14D41A04	M. Pradeepchary	Industrial Robotic arm &	In House	B.

	D4		Gesture Controlled conveyor belt using arduino		Satyanarayana
	14D41A04 D3	M. Vamshi krishna			
	14D41A04 G8	shiva Mamidi			
	15D45A04 33	P. Druva			
39	14D41A04 C0	M. Bhargavi reddy	balanced Robo	In House	Hemavathi
	14D41A04 C8	M. Rashi Reddy			
	14D41A04 C3	M. Shravya Reddy			
	14D41A04 F9	P. Renuka			
40	14D41A04 D9	N. Nithin Chandra	IOT garbage monitoring system using NODE MCU	In House	P. Srinivas
	14D41A04 D8	N. naredra			
	14D41A04 G7	R. Pranith			
	14D41A04 D6	M. Nihal			
41	14D41A04 D2	M. Shivaram	Wireless Chemical Tank level Indication System	In House	K. Sravani
	14D41A04 D7	M. Sujan			
	15D45A04 26	Sandeep patil			
42	14D41A04 C4	M. Jagan Mohan Rao	FPGA based Motor Controller for Actuator used in Aircrafts	RCI	M.N.Prasad
	14D41A04 E0	N. prashanth			
	14D41A04 E2	N. Vinay			
43	14D41A04 F3	P. Srihari	Simulation and Modelling of Servo Control System	RCI	D. Thirumal Reddy
	14D41A04 G2	A.Sreevardhana			
	14D41A04 F7	P. Jaydeep			
44	15D45A04 27	N. Prasad	29. door Locking System Using node MCU	In House	P. Uday Sri
	15D45A04 28	M. Sairathna			
	15D45A04	B. Babu Rao			

	30				
	15D45A04 32	K. Sandeep Kumar			
45	15D45A04 29	B. Suresh	Arduino Earth quake detector system	In House	Krishna Veni
	15D45A04 31	P. Karthik			
	15D45A04 25	M. Sainath			
	15D45A04 34	Sai Reddy			
46	14D41A04 H1	Anvesh	Solid State Power Control system	RCI	Jail Singh
	14D41A04 F1	P. Sai Suresh			
	14D41A04 G5	P. Sai Manish			
47	14D41A04 C7	M. Vivek Goud	Plants Emotion Status on Social Network	In House	Venkateshwar Rao
	14D41A04 H0	M. Vinod Reddy			
	14D41A04 B9	M. Ragesh			
	14D41A04 E7	G. Naveen Reddy			
48	14D41A04 B7	M. Pranith Reddy	Voice controle robot using Arduino	In House	B. Satyanarayana
	14D41A04 G3	A. Prudhvi Alla			
	14D41A04 E6	N. Shiva Sai			
49	14D41A04 E4	N.Pallavi	Wave form generation of sin & cos wave using FPGA	RCI	V. Sunitha
	14D41A04 D5	M.manasa			
	14D41A04 G9	P.Himavarsha			
50	14D41A04 E8	P. Praneetha	Assembling of Mircowave Receiver using waveguide Components	DLRL	S. Narsimulu
51	14D41A04 B8	M. Raghavender Reddy	Mathematical Modeling and Analysis of Actuator	RCI	B. Raj Kumar
	14D41A04 D8	M. Abhilash			
	14D41A04 G6	P. Nikhil Reddy			

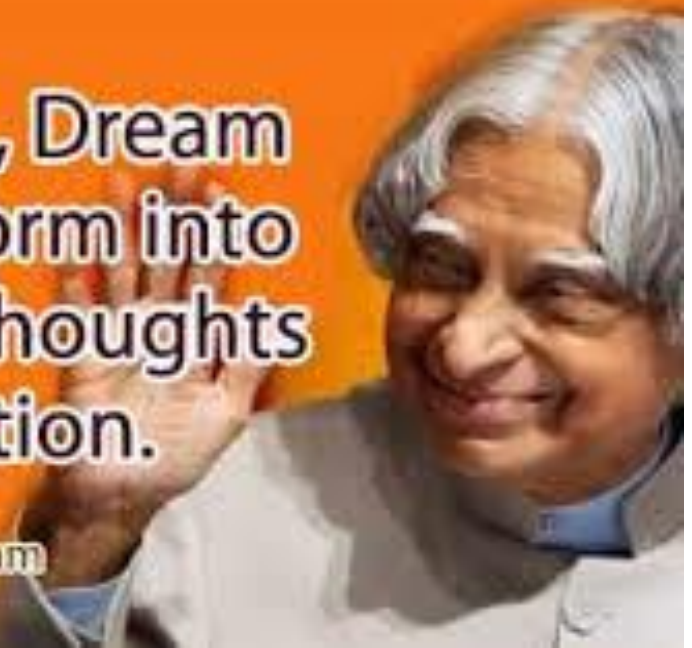
	14D41A04 B6	M. Nikhil Reddy			
52	14D41A04 D0	M. Sai Ram	Embedded system simulation using soft core processor	RCI	Mamatha
53	14D41A04 E1	Sai Deepthi	Health Monitoring System Of Missile	BDL	K.Ashok Babu
	14D41A04 C2	Sai Likitha			
	14D41A04 E9	Vasavi			
54	14D41A04 G0	P.Sangeetha	Furnace Temperature Control Using PID Action	DMRL	Prathyusha
	14D41A04 E3	N.pooja			
	14D41A04 F8	P.Sneha			
55	14D41A04 F5	P.Neeraj	Low Cost Industrial Automation	DMRL	S. Narsimulu
	14D41A04 F4	P.Srimanth			
	14D41A04 G1	P.shivaraj			

GOOD THOUGHTS

Dream, Dream, Dream
Dreams transform into
thoughts and thoughts
result in action.

- A. P. J. Abdul Kalam

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