

# **AKRUTHI**



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DEPARTMENT OF CIVIL ENGINEERING

**ADITYA ENGINEERING COLLEGE (A)**

**APPROVED BY AICTE, NEW DELHI AND AFFILIATED TO JNTU KAKINADA**

## **ABOUT CIVIL DEPARTMENT**

The Department of Civil Engineering at Aditya transfers innovative applications to improve Civil Engineering practices which fulfil the requirements of the civil construction industry.

To face the challenges in the field, the department associates itself in different consultancy activities like quality control, design, detailing, soil testing and concrete testing to the construction sites in the close vicinity. To shore up the transition of knowledge, eminent personnel from industry and academia are invited to deliver technical talks on emerging areas to keep the students abreast with the latest advancements.

The department has state-of-the-art facilities, latest software like STAAD Pro, AUTOCAD, Revit Structures, Robot Structure analysis etc. and well-equipped laboratories with costly equipment such as Total Station, Universal Testing Machine, Tri-axle Shear Testing Machine, Kaplan turbine, Francis turbine, Pelton wheel testing rig, Compression testing machine, Ultrasonic pulse velocity equipment etc.

The department offers unique internship opportunities to students in companies like L&T Construction, Reliance Industries Limited, OIL, Irrigation Department, Govt. of A.P., Soma Constructions, APCO Infra tech, Vizag Steel Plant etc.

### **Vision of the Department**

To be a recognized center in Civil Engineering with values and innovation.

### **Mission of the Department**

#### **Mission 1:**

Practice learner-centric quality teaching learning process abreast with changing industry needs and societal challenges

#### **Mission 2:**

Provide quality infrastructure towards academics, research and innovation

#### **Mission 3:**

Establish effective industry and institutional collaboration

### Faculty Development Programme (FDP) – Organized

S.No	Name of the FDP	Name of the faculty Coordinator	Dates/Duration	Resource Person Details	No. of Participants
1	Management of realtime projects using Primavera	Dr. Jaswanth Gangolu	22-03-2021 to 27-03-2021/ 6 days	Mr. K. Venkat Reddy, KS&CS Developers, Hyderabad.  Mr. M. Srinivas, Honey Group, Kakinada.	31

### Conferences, \Seminars and Workshops – Organized

S. No	Type of Event	Title of Event	Name of the Coordinator	Resource Person Details	Date/s of the event	No. of Participants
1	Technical training	Practicing and elimination of parallax error in Total station	Mr. Neesara Anil Kumar	Dr. Ch. Surya Prakash, Assistant Professor, KL University, Vijayawada.	19-05-2021 to 22-05-2021	25

### Workshops – Attended

S. No.	Name of the faculty	Name of the organizer	Dates/ Duration
1	S. Govindarajan	Pragati Engineering College	25-01-2021- 30-01-2021
2	P. Ravikishore	Pragati Engineering College	25-01-2021- 30-01-2021
3	P Lakshmi	Pragati Engineering College	25-01-2021- 30-01-2021
4	Ms. Devi Chukkala	Pragati Engineering College	25-01-2021- 30-01-2021

5	Hemanth Jamisetty	SRM Institute of science and Technology	17-02-2021 – 22-02-2021
6	N. Anil kumar	SRM Institute of science and Technology	17-02-2021 – 22-02-2021
7	Gummidi Krishnakanth	SRM Institute of science and Technology	17-02-2021 – 22-02-2021
8	Jaswanth Gangolu	Sri Vasavi Engineering College	18-01-2021 – 22-01-2021
9	Kalanadhabhatta P Prajna Bharathi	Sri Vasavi Engineering College	18-01-2021 – 22-01-2021
10	Urmila Pallepamala	Sri Vasavi Engineering College	18-01-2021 – 22-01-2021
11	S. Pachaippan	Sri Vasavi Engineering College	18-01-2021 – 22-01-2021

### Faculty Publications

Sl. No	Faculty Name	Title	Journal Name	URL/DOI
1	P. Ravi Kishore	Spot Speed Studies & Delay Time Survey and Analysis-A Case Study in Surampalem at Various Centre for Problem	International Journal for Advanced Researches in Science and Technology	<a href="https://ijarst.in/">https://ijarst.in/</a>
2	P. Lakshmi	A Comparative Study of Air Pollution monitoring in 5 major cities of Andhra Pradesh with the National capital Delhi	International Journal for Advanced Researches in Science and Technology	<a href="https://ijarst.in/">https://ijarst.in/</a>
3	G. Dinesh	Comparative Study on Desalination of Sea Water For Construction & Domestic Purpose	International Journal for Advanced Researches in Science and Technology	<a href="https://ijarst.in/">https://ijarst.in/</a>

4	M. Leela Sai Krishna	Geochemical Assessment of Ground Water Around Peddapuram Division Eastgodavari District, Andhra Pradesh, India	International Journal for Advanced Researches in Science and Technology	<a href="https://ijarst.in/">https://ijarst.in/</a>
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### Placement Details

S. No.	Roll Number	Name of the Student	Name of the company	Designation	Salary package
1	17A91A0197	Sodagam Rama Mahesh	Pentagon Space	Trainee	1.20 LPA
2	17A91A0102	Aman Sinha	TCS NQT	Assistant System Engineer	3.36 LPA
3	17A91A0119	Irlapati Anitha	TCS NQT	Assistant System Engineer	3.36 LPA
4	17A91A0123	Kelem Surendra	TCS NQT	Assistant System Engineer	3.36 LPA
5	17A91A0127	Madina Prudhvi Raj Kumar	TCS NQT	Assistant System Engineer	3.36 LPA
6	17A91A0135	Pedasanaganti Kousik	TCS NQT	Assistant System Engineer	3.36 LPA
7	17A91A0150	Vasamsetti Rupesh Durga Satya Sandeep	TCS NQT	Assistant System Engineer	3.36 LPA
8	17A91A0156	Budithi Akhil	TCS NQT	Assistant System Engineer	3.36 LPA
9	17A91A0166	Guttula Sai Vishnu	TCS NQT	Assistant System Engineer	3.36 LPA
10	17A91A0178	Kottapalli Sai Prasad	TCS NQT	Assistant System Engineer	3.36 LPA
11	17A91A0188	Nimmalapudi Satya Sireesha	TCS NQT	Assistant System Engineer	3.36 LPA
12	17A91A0194	Rongala Aravinda Swamy	TCS NQT	Assistant System Engineer	3.36 LPA
13	17A91A0111	Chitra Manikumar	Wipro	Project Engineer	3.50 LPA
14	17A91A0124	Killari Teja	Wipro	Project Engineer	3.50 LPA
15	17A91A0128	Mallipudi Siva Teja	Wipro	Project Engineer	3.50 LPA
16	17A91A0138	Rotta Prasanna Kumar	Wipro	Project Engineer	3.50 LPA

17	17A91A0151	Vasamsetty Devi Anusha	Wipro	Project Engineer	3.50 LPA
18	17A91A0157	Chamantula Johnbaburaju	Wipro	Project Engineer	3.50 LPA
19	17A91A0158	Chintakindi Pragnya	Wipro	Project Engineer	3.50 LPA
20	17A91A0162	Gangumalla Navya Sree	Wipro	Project Engineer	3.50 LPA
21	17A91A0163	Ganta Jonadab Asirvadam	Wipro	Project Engineer	3.50 LPA
22	17A91A0167	Inumarthi Jaya Sree Sai	Wipro	Project Engineer	3.50 LPA
23	17A91A0173	Kelim Lova Raju	Wipro	Project Engineer	3.50 LPA
24	17A91A0180	Maddiralla Sai Subrahmanyam Sandeep	Wipro	Project Engineer	3.50 LPA
25	17A91A0186	Nidadavolu Charan Kumar	Wipro	Project Engineer	3.50 LPA
26	18A95A0118	Rampatni Ramesh	Wipro	Project Engineer	3.50 LPA
27	18A95A0119	Sangamreddy Sai Lokesh	Wipro	Project Engineer	3.50 LPA
28	18A95A0121	Vassae Raj Kumar	Wipro	Project Engineer	3.50 LPA
29	18A95A0122	Animireddi Jyothi Anantha Kumar	Wipro	Project Engineer	3.50 LPA
30	18A95A0124	Bokka Pavan Anand	Wipro	Project Engineer	3.50 LPA
31	18A95A0125	Busi Johnson Kumar	Wipro	Project Engineer	3.50 LPA
32	18A95A0126	Dadala Abhishek	Wipro	Project Engineer	3.50 LPA
33	18A95A0127	Eedupalli Manikanta Kumar	Wipro	Project Engineer	3.50 LPA
34	18A95A0128	Indukuri Lalitha Devi	Wipro	Project Engineer	3.50 LPA
35	18A95A0130	Koppisetty Krishna Deepak Raj	Wipro	Project Engineer	3.50 LPA

## Student Activities

### Awards/ Achievements

S.No	Name of the students	Name of the event	Type of Competition	Venue	Date	Award/Reward
1	Vinnakota Praveen Kalyan	Tech Quiz 2021	Online Quiz Competition	Sardar Patel College of Engineering Mumbai, Maharashtra	27th February 2021	2 <sup>nd</sup> Winner
2	Pitani Purna Satish	Tech Quiz 2021	Online Quiz Competition	Sardar Patel College of Engineering Mumbai, Maharashtra	27th February 2021	3 <sup>rd</sup> Winner

### Students Articles

#### GOLDEN GOAL

A youngster begins his academic career with inadequate knowledge and little passion in his studies. He completed the tenth grade with inadequate understanding before enrolling in the DIPLOMA technical training program. He is unable to begin studying for the diploma at the starting stage with the necessary information. To become a good, informed student, he has always struggled with a great deal since the beginning of his diploma. For this reason, he visited the rooms of his seniors and tried several methods to study the topic at least from them. Why? Because of his Telugu-medium background, he is unable to comprehend the concepts, although he made every effort. As the days passed, the first-semester examinations arrived. He was actually anxious about his examinations since he was a bad student. However, he didn't give up and continued to attempt tests. When the results were finally out, he had a decent percentage. He begins to have confidence in his own efforts. Later, he started to see next semesters as assignments. He worked as a day labour to earn money for coaching expenses and at the same time, he gained experience for his vocation. He aspires to join the L&T corporation in his last year of college. His need eventually became a goal. Unfortunately, despite his best efforts, he was not chosen for the campus interview. Because of that failure, he felt bad and sank into depression, but one day he heard a sentence that changed his life for the better: "Your future is created by what you do today." Realizing this, he became stronger and began learning after enrolling in B tech. From that point on, he tried to achieve his goal and continues to do so.

Ramsai Jutta

20A95A0138

## **5G in India: A Look at the Pros and Cons of the Next-Generation Network**

As a resident of India, I have been hearing a lot about 5G technology lately. For those who may not know, 5G is the fifth generation of cellular network technology, and it promises a significant improvement in terms of speed, capacity, and low latency. In India, 5G is still in the early stages of deployment, with limited availability in selected cities. However, the government and telecom operators are working to roll it out in a wider area, with the goal of providing faster and more reliable connectivity to consumers.

Now, let's talk about the advantages of 5G technology. One of the biggest benefits is its high speed and capacity. With 5G, users can expect speeds of up to 100 times faster than 4G, making it great for applications like streaming high-definition video, online gaming, and virtual reality. The increased capacity of 5G also means that more devices can connect to the network at the same time, making it suitable for large-scale applications like smart cities.

Another advantage of 5G is its low latency, which refers to the delay in data transmission. With 5G, the latency is significantly lower compared to previous generations, making it suitable for real-time applications like autonomous vehicles and high-resolution streaming.

But there are also some disadvantages to 5G technology in India. One major challenge is the high cost of infrastructure in deployment. Setting up a 5G network requires a significant investment in infrastructure like base stations and antennas, which can be expensive for telecom operators which can result in high data charges. Additionally, 5G technology operates in higher frequency bands, which can result in lower coverage and poorer penetration through walls and other obstacles.

Another concern with 5G technology is the potential health risks associated with the higher frequency radio waves used for data transmission. While there is currently no scientific evidence to suggest that 5G technology is harmful to human health, some people are worried about the potential risks, and more research is needed to fully understand the potential health effects of 5G.

In conclusion, 5G technology offers significant advantages in terms of speed, capacity, and low latency, but it also comes with some disadvantages, including the high cost of infrastructure deployment and potential health risks. As 5G technology continues to roll out in India, it is important for the government and telecom operators to address these challenges and ensure that the benefits of 5G are widely available to consumers.

Tadala Narayana Swamy

20A95A0146



## 2011 WORLD CUP

The 2011 Cricket World Cup was the tenth edition of the tournament and was held in India, Sri Lanka, and Bangladesh from February 19 to April 2, 2011. Fourteen teams competed for the title, with India emerging as the champions after defeating Sri Lanka in the final.

The tournament began with a Group stage, in which the teams were divided into two groups of seven, and played against each other in a round-robin format. The top four teams from each group advanced to the Quarter-finals, where the knock-out stage began.

India, Sri Lanka, Australia, and Pakistan made it to the semi-finals. In the first semi-final, Sri Lanka defeated New Zealand by five wickets, while in the second semi-final, India defeated Pakistan by 29 runs to set up a final showdown against Sri Lanka.

The final was held at the Wankhede Stadium in Mumbai on April 2, 2011. Sri Lanka won the toss and chose to bat first, scoring a total of 274 for six in their fifty overs. Mahela Jayawardene was the star of the innings, scoring an unbeaten 103 off just 88 balls.

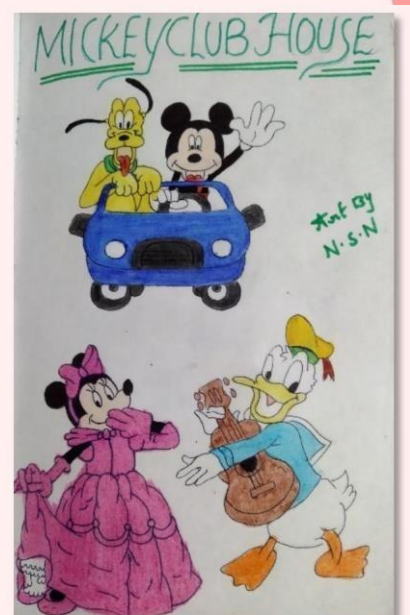
In reply, India got off to a shaky start, losing their first wicket in the second over. However, Gautam Gambhir and Virat Kohli steadied the ship, with Gambhir scoring a crucial 97 and Kohli contributing 35. But it was the captain, MS Dhoni, who played the match-winning knock, scoring an unbeaten 91 off just 79 balls. He hit the winning runs with a huge six, and India lifted the World Cup for the second time in their history.

The tournament was a huge success, with record-breaking TV ratings and packed stadiums throughout the tournament. It was also notable for being the last time that the legendary Indian batsman, Sachin Tendulkar, played in a World Cup. Tendulkar, who was the leading run-scorer in the tournament, had been a part of the Indian team that won the World Cup in 1983, and was widely regarded as one of the greatest cricketers of all time.

In conclusion, the 2011 Cricket World Cup was a memorable tournament, with India emerging as deserving champions. The tournament was a celebration of cricket and showcased the sport's global appeal.

G.P. CHAITANYA KUMAR  
22A95A0113

Pensile Arts



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