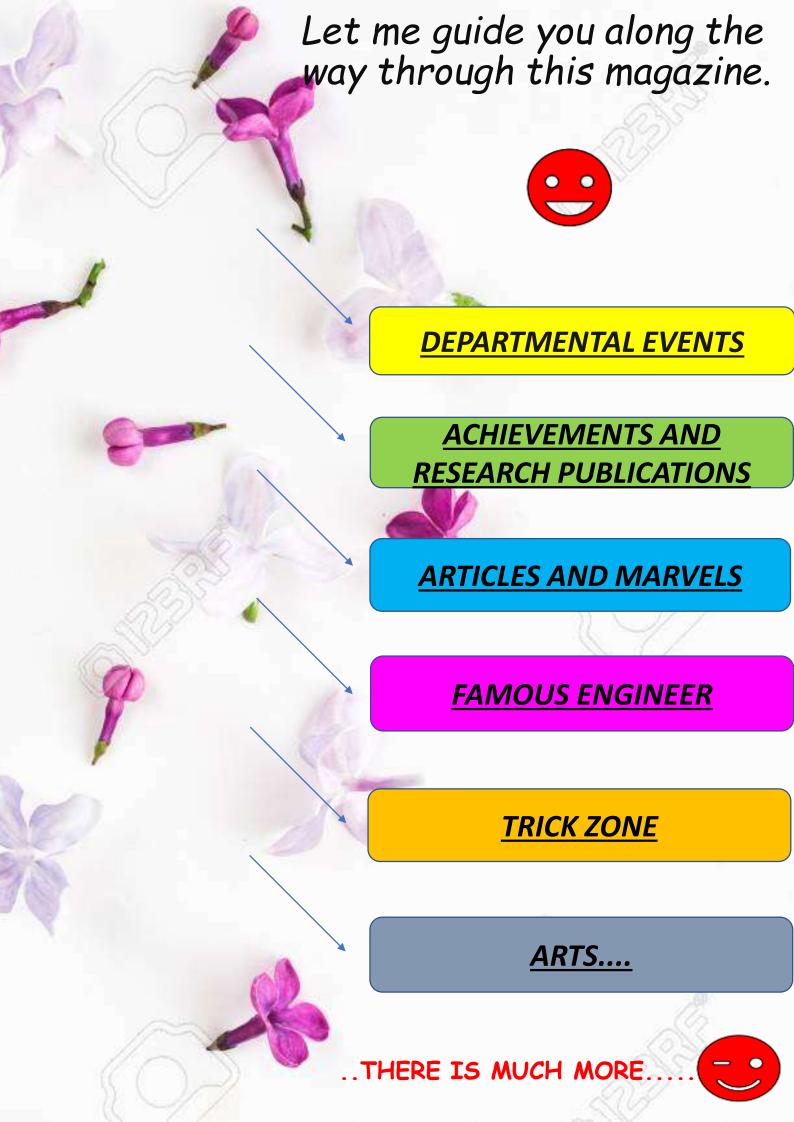
CIVIL TECH AND TRENDZ

MAGAZINE OF CIVIL ENGINEERING DEPARTMENT JULY - DEC 2019



CHECK AND EXPLORE THE MARVELS

HARD WORK PAYS





DR K.L. RAO BIRTHDAY CELEBRATIONS ON 15-07-2019



Students Participating In Creative Writing Competition



Principal Dr .K. Appa Rao Awarding The Winners

TWO-DAY WORKSHOP on SKETCHUP- PRO

30-08-19 to 31-08-19



Hod Dr .V. Ramakrishna Addressing The Students About Work Shop



Resource Person Interacting With Students



Students Getting Certificates From Resource Person And Hod

TWO DAY WORKSHOP ON GISPROFESSIONAL TRAINING during 06.9.2019 to 07.9.2019



Dr K.B. Chari addressing the students



Three-Day Faculty Development Program on "GIS Professional Training" during 06.11.2019 to 08.11.2019



NEWS ARTICLES



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ACADEMIC ACHIEVERS

ACADEMIC MERIT ONGOING

- 1. CHUNDURU GAYATHRI (15761A0114)
- 2. ADUSMALLI NAGARAJU (16761A0101)
- 3. PINGALA MOHAN SAI TEJA REDDY (17761A0141)
- 4. KOTA SIVA SATYANARAYANA (18761A0122)

EXTRA-CURRICAL ACHIEVEMENTS

CREATIVE WRITING (15-07-19) BY VARADHI STUDENT CLUB

1.S. NAHEER(19765A0117)

2.G. RESHMA(17761A0117)

ELOCUTION (15-07-19) BY VARADHI STUDENT CLUB

1.B. SOWJANYA(17761A0108)

2. P.PANI POORNIMA(18761A0130)

EXTEMPORE(09-10-19) BY SPOORTHI LITERARY CLUB

1. G. RESHMA(17761A0117)

LAKSHYA 2K19 (21-12-19)

1.B.GURAVA REDDY(18761A01O2) and K.SIVA SATYANARAYANA (18761A0122) in MEDHA.

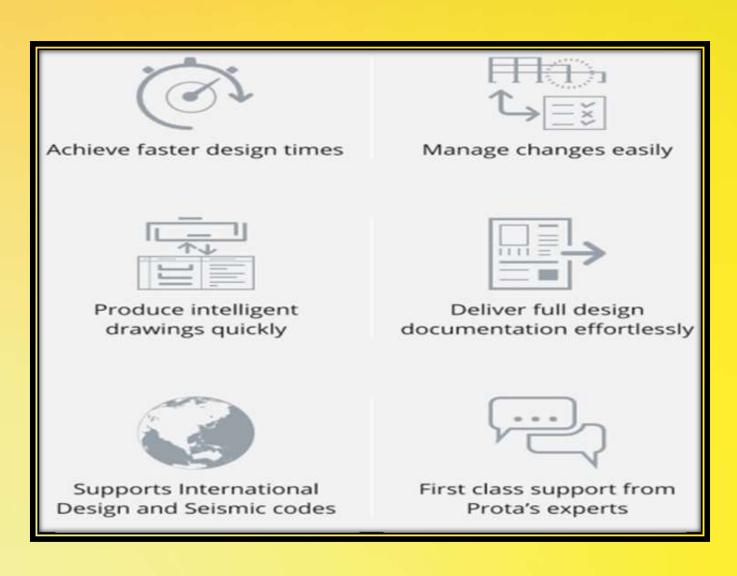
RESEARCH PUBLICATIONS

- G. Rambabu, P.Mohana Ganga Raju, J. Eeshwar Ram. "Determining the Strength Properties of Concrete using Plastic Waste (Synthetic Polymers & Thermoplastic Polymer Resigns", International Journal Of Recent Technology And Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-2, July 2019, Page No: 1314-1316.
- M.Manoj Kumar, S.Hari Prasanna Rao, B.Lalithya, P.Sai Bhargavi, A.Pavan kumar. "Level of Service of Roads in Vijayawada", International Journal Of Recent Technology And Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-2, July 2019, Page No: 1373-1378.
- ❖ K. Harish Kumar, T. Sai Teja, B. Ramesh "Quality Improvement On Properties Of Concrete By Using Lightweight Aggregates", International Journal Of Recent Technology And Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-2, July 2019, Page No: 4550-4554.



PROTA STRUCTURE 2018

Prota structure is an innovative solution for structural engineers and all in one package for multi material modeling with steel ,concrete and composite members and analyze and design buildings quickly



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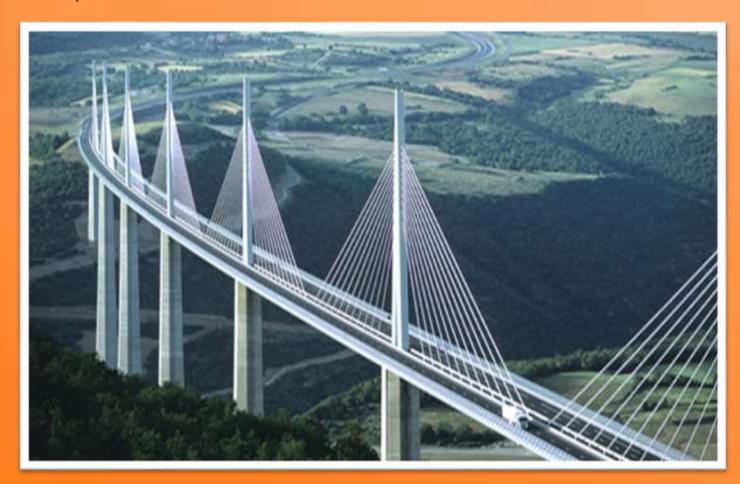
Compiled By A.AMBICA TEJASWI 16761A0102

In Engineering, The Joints Are The Most Crucial. They Have To Be Both
Firm And Flexible, Exactly Like The Joints In Our Body
Haresh Sippy

ENGINEERING MARVELS

MILLAU VIADUCT

Millau viaduct is a world largest cable -stayed bridge that spans the George valley of the tam near the Millau in southern France



| Carries | 4 lanes of the A75 autoroute | |
|-----------------|--|--|
| Crosses | Gorge valley of the river Tarn | |
| Locale | Millau-Creissels, Aveyron, France | |
| Official name | le Viaduc de Millau | |
| Maintained by | Compagnie Eiffage du Viaduc de Millau | |
| Characteristics | | |
| Design | Multiple-span <u>cable-stayedviaduct</u> <u>motorway</u> <u>bridge</u> | |
| Material | Concrete, steel | |
| Total length | 2,460 m (8,070 ft) | |
| Width | 32.05 m (105.2 ft) | |
| Height | 343 m (1,125 ft) | |
| Longest span | 342 m (1,122 ft) | |

| No. of spans Clearance below | 204 m (669 ft), 6×342 m (1,122 ft), 204 m (669 ft) 270 m (890 ft) | |
|-------------------------------|---|--|
| Design life | 120 years | |
| History | | |
| Designer | Sir Norman Foster, architect; Dr Michel Virlogeux, structural engineer | |
| Constructed by | Compagnie Eiffage du Viaduc de Millau | |
| Construction start | 16 October 2001; 17 years ago | |
| Construction cost | € 394,000,000 | |
| Inaugurated | 14 December 2004; 14 years ago | |
| Opened Specialities | 16 December 2004, at 09:00 hr It has the highest pylons in the world The highest bridge tower in the world The highest road bridge deck in Europe It was constructed in around 3 years with a cost of 394 millions | |

COMPILED BY
A.VISHNU VARDHAN REDDY
16761A0158

Science is about knowing, engineering is about doing.

Henry Petroski

Famous Engineer

OLIVE DENNIS

Birthday: November 20,1885

Nationality: American

Famous: Civil Engineers American Women

Sun Sign: Scorpio

Born In: United States Of America

Famous As: Civil Engineer Died On: November 5, 1957

Place Of Death: Baltimore

Died At Age:71



Childhood & Early Life

- Dennis was born on November 20, 1885, in Thurlow, Olive Wetzel Pennsylvania, and moved to Baltimore as a child. She developed an interest in engineering quite early on in life.
- When she was little, her parents gave her dolls to play with. Displaying her engineering aptitude, she built houses and designed furniture for the dolls instead of sewing clothes for them as expected from a young girl. She also built toys for her brother, including a model streetcar with trolley poles and reversible seats.
- She graduated from Western High School and enrolled at Goucher College from where she earned a bachelor's degree in 1908. She then went on to earn her master's degree in mathematics and astronomy from Columbia University.

Career

- After completing her master's, Olive Dennis embarked on a teaching career and taught mathematics in a Washington vocational school for ten years. Even while working as a teacher she maintained her love for civil engineering and attended two summer sessions of engineering school at the University of Wisconsin. Then she spent a full year at Cornell University and in 1920, she became only the second woman to obtain a Civil Engineering degree from Cornell.
- Initially she faced problems in finding a job as employers were reluctant to appoint a woman engineer. Undaunted, the spirited woman kept trying and approached Daniel Willard, the President of the Baltimore and Ohio (B & O) Railroad and asked for a job.

- She found appointment as a draftsman in the engineering department of B & O Railroad in September 1920. Her initial duty was to design bridges. The following year, the president of the railroad observed that since half of the railway's passengers were women, it would be a practical move to appoint a woman for improving the passenger service.
- Thus Olive Dennis was promoted to the newly created position of "service engineer" in 1921. During her initial years, she travelled a lot in the trains, experiencing and observing the routine problems faced by the passengers.
- She worked with the railroad for three decades over which she invented and held the patent for the Dennis ventilator which allowed fresh air to enter without causing a draft. She also implemented many other innovations which helped to attract more people to travel on trains and was an advocate for air-conditioning in the coaches, dimmer overhead lights and stain-resistant upholstery.
- During World War II, she served as a consultant for the federal Office of Defence Transportation. She retired in 1951.

Major Works

 Olive Dennis was a pioneering genius in the railroad industry, one of the most remarkable women engineers of her time. Over the course of her three decade long career she made rail travel more comfortable for passengers with her innovations and was the inventor of the Dennis ventilator, which was in the windows of passenger cars and could be controlled by passengers.

Awards & Achievements

- One of the very few women of her era to embark on an engineering career, she became the first woman to be admitted to the American Railway Engineering Association.
- In 1940, Olive Dennis was named as one of the nation's 100 outstanding career women.

TRICK ZONE

- 1. I am an odd number. Take away a letter and I become even. What number am I?
- 2. Can you arrange 9 numerals 1, 2, 3, 4, 5, 6, 7, 8 and 9 (using each numeral just once) above and below a division line, to create a fraction equaling to 1/3 (one third)?
- 3. Rectify the following equality 101 102 = 1 by moving just one digit
- **4.** What mathematical symbol can be placed between 5 and 9, to get a number greater than 5 and smaller than 9?
 - 5. What can travel around the world while staying in a corner?

ANSWERS

1.Seven

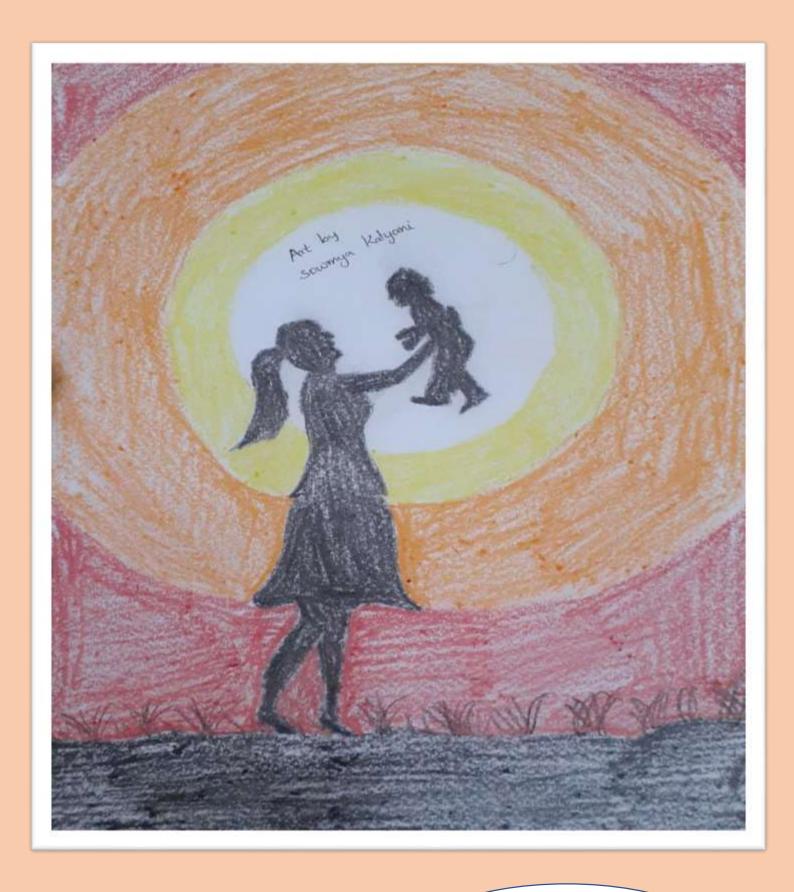
2.5832/17496 = 1/3

 $3.101 - 10^2 = 1$

4.decimal point - 5.9

5. stamp

STUDENT ART GALLERY



ART BY
NAGA SOWMYA
18761A0105



ARY BY
JAHNAVI
18761A0110