Department of Civil Engineering

"Sthapathya Vaartha"

(2022-2023)

Volume: 8 Issue: 1

Inside this issue

HOD MESSAGE

This News bulletin 'Sthapathya Vaarta' is the outcome of all the activities conducted by the civil engineering department in the last semester. The editorial team has taken a lot of effort in collecting and nicely presenting it in the News bulletin. I am happy to interact with all stakeholders through it. On behalf of the Civil Engineering department, I would like to express our gratitude to Executive Director Shri Anil A. Bagane and Principal Dr. S.A.Khot for their continuous motivation in bringing all the activities to one level.

Dr. V. K. Naik

NEWS LETTER COORDINATOR MESSAGE

I'm incredibly happy to post the Civil Engineering Department's news release. It is a representation of the department's numerous activities as well as the personnel and students in the civil engineering department's contributions.

Asst. Prof. S.B. Chougule

News Letter Coordinator

News Letter Committee Members

1. MR. SHREYASH SHINDE - TY
2. MR. PRAGAT PACHORE - TY
3. MISS. SHRADDHA KOLI - TY

- **Vision, Mission and Quality Policy and PEO OF Department**

The vision of the Department

To be a centre of excellence in various sub-branches of Civil Engineering to prepare professionally competent engineers with a lifelong learning attitude for the accomplishment of ever-growing needs of society.

The Mission of the Department

- To prepare technically and professionally competent engineers by imparting quality education through effective teaching-learning methodologies and providing a stimulating environment for research and innovation
- To develop professional skills and the right attitude in students that will help them to succeed and progress in their personal and professional career
- To imbibe moral and ethical values in students with concern to society and the environment

The Program Educational Objectives (PEOs)

PEO I: Demonstrate capabilities to develop an optimal solution to the real-world engineering problems by applying the theory-based practical approach of civil engineering and related interdisciplinary fields.

PEO II: Exhibit professional skills, ethical attitude and sensitivity towards society and environment.

PEO III: Engage in life-long learning for successful adaptation to technological changes.

PEO IV: Achieve a successful professional career in the thrust areas of Civil Engineering.

LIST OF DAAB MEMBERS

Following are the DAAB members of the department for AY-2022-23

Sr. No.	Name of person	Designation
1	Dr.V. K.Naik	Head of Department and DAAB
2	Mr. R. M.Garud	Secretary, DAAB and TY Class Teacher- B Div.
3	Dr. S. N. Tande	Other Academic Institute Faculty-Member
4	Dr. R.V.Raikar	Other Academic Institute Faculty-Member
5	Mr. S. S.Deshpande	Industry Person-Civil Engg-Member
6	Mr. Nitin Patil	Industry Person-Civil Engg-Member
7	Mrs. Kalyani Asmita	Parent-Member
8	Mr. Y. S. Patil	Programme Co-ordinator & NBA Coordinator
9	Mr.S. B. Chougule	B.Tech. Class Teacher A
10	Mrs. M. V. Sabale	Academic Co-ordinator.
11	Mr. Yogesh U. Kulkarni	Senior faculty- Member
12	Ms.S.S.Ugare	SY Class Teacher – A Div
13	Ms.Pranoti Shirole	TY Class Teacher A -Member
14	Mr. S. A. Dopare	BE. Class Teacher- Member
15	Mr. Sourabh Shelke	Alumni- Member
16	Mr. Prasad Patil	Alumni- Member
17	Ms. Jugale Smruti Ramesh	Current student B.Tech- Member
18	Mr. Kunal Dattatraya Shikalgar	Current student T.Y- Member

- **STTP/WORKSHOP ORGANIZED/ATTENDED BY DEPARTMENT**

1. ISTE Approved One – Week Faculty Development Program On "Research article writing and Patent filing" Organized By Department Of Civil Engineering, SITCOE.

'Sharad Institute Of Technology, College Of Engineering, Yadrav' & 'Department Of Civil Engineering', organized one week faculty development program on **"Research article writing and Patent filing"** on the date **27/12/ 2022 to 31/12/2022**. Event was conducted in offline mode.

FDP Schedule

Date & Day	Time	Technical Session	Topic	Expert/SpeakerName
27/12/2022 Tuesday Day - 1	10.00 AM TO 10.30 AM	Inaugural Ceremony		
	10.30 AM TO 12.30 PM	Session-1	Introduction to journals and conferences related to Civil Engineering	Dr. Anand Tapase
	1.30 PM TO 3.30 PM	Session-2	Identification of research problems , Research Ethics	Dr. Anand Tapase
28/12/2022 Wednesday Day -2	10.00 AM TO 12.30 PM	Session-1	Research Methodology	Dr. Vaibhav Chate
	01.30PM TO 03.30 PM	Session-2	Writing publishable article in Scopus, SCI journals	Dr. Vaibhav Chate
29/12/2022 Thursday Day-3	10.00 AM TO 12.30 PM	Session-1	Effective Literature review writing	Ms. Pooja Bagane
	01.30 PM TO 03.30 PM	Session-2		Ms. Pooja Bagane
30/12/2022 Friday Day -4	10.00 AM TO:12.30 PM	Session-1	How to apply for the patent	Dr. Adinath Damale
	01.30 PM TO 03.30 PM	Session-2	Documentation for patent filing	Dr. Adinath Damale
31/12/2022 Saturday Day -5	10.00 AM TO:12.30 PM	Session-1	Process to file patent	Dr. Raviraj Kulkarni
	01.30 PM TO 03.00 PM	Session-2	Research funding	Dr. Raviraj Kulkarni
	03.00 PM TO 03.30 PM	Valedictory Ceremony		

Pictures from Faculty Development Program

2. FDP attended by Faculties

Sr.No.	Name of Faculty who attended	Title of the program	Duration
01	Dr. V.K. Naik	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
02	Mr. A.B.Jadhav	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
03	Mr.P.M.Shah	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
04	Mr.R.M.Garud	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
05	Mr.Y.S.Patil	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
07	Mr.S.B.Chougule.	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
08	Mrs.M.V.Sabale	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
09	Mr.Y.U.Kulkarni	Advance materials in civil engineering	18/07/2022 to 22/07/2022

		Product Design Using Fusion 30	29/10/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
10	Mr.S.A.Dopare	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Product Design Using Fusion 30	29/10/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
11	Mr.V.R.Nejkar	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Municipal Solid Waste management	Jul-Oct 2022
		Product Design Using Fusion 30	29/10/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
12	Mrs.A.D.Ware	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
13	Mrs.P.O.Shirole	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
14	Mr. S.S.Yadav	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
15	Mrs. S.M.Patil	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
16	Mrs. P.R.Patil	Advance materials in civil	18/07/2022 to 22/07/2022

		engineering	
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
17	Mr.A.A.Hosurkar	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
18	Ms.P.T.Powar	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022
19	Mrs.S.A.Patil	Advance materials in civil engineering	18/07/2022 to 22/07/2022
		Research Article Writing and Patent Filling	27/12/2022 to 31/12/2022

- **GUEST LECTURE SUMMARY**

Sr. No.	Topic for Expert Talk	Expert Name & Designation	Date of Expert Talk	Class
1	Sustainable concrete mix design	VIT channai	10-09-2022	TY
2	Career Guidance	Mr.Vitrag Shah, RS Labs, Pune	09-10-2022	TY
3	Renovation of old temple	Mr. Kiran kamaldani, designer and conservation expert, Pune	15/09/2022	SY , TY, Btech
4	Interview and HR technical skill	Mr. Sharad Bharadia, Hexaware	17/09/2022	Btech
5	how to get government jobs as per education level	Mr. Vishnu Bhosale, Edu Genius academy, Kolhapur	3/10/2022 TO 6/10/2022	SY , TY, Btech
6	Career in Abroad	Mr. Salil Rajguru (Path Seeds Global Education)	16/11/2022	TY
7	Civil NDT	Mr. Saiprasad Gaionkar (Quality manager, Mumbai)	21/11/2022	SY , Btech
8	Civil Internships	Mr. Vivek Borate (Chief mentor, Know How, pune)	05-12-2022	SY, Btech

Guest Lecture Pictures

Guest Lecture on "Career in Abroad" by Mr. Salil Rajguru

Guest Lecture on "Interview and HR technical skill" by Mr. Sharad Bharadia

Guest Lecture on "Civil NDT" by Mr. Saiprasad Gaionkar

● INDUSTRIAL VISITS SUMMARY

Sr. No.	Subject	Visit Location	Class	Date
1	Rain gauge station	Varnali sangli	B.tech All	29th sept2022
2	Water treatment plant	Ichalkaranji Municipal Corporation,Ichalkaranji	TY All	4th Oct 2022
3	Renovation of building	SIT Ayurved hospital and college,yadrav	TY All	12th Oct 2022
4	Common Effluent Treatment plant	Ichalkaranji Municipal Corporation,Ichalkaranji	TY All,SY	15th Oct 2022
5	Kolhapur Airport visit	Ujalaivadi Kolhapur	B.tech All TY All	4th Nov 2022 7th Nov 2022
6	Sewage Treatment Plant	100 ft road,Sangli	TY All	11th Nov 2022
7	Fortune Suffire site	Ichalkaranji	SY	8th Dec 2022

Visit Pictures

Visit at 'WTP, Ichalkaranji' on the date 04/10/2022

Visit at 'Rain gauge station, Sangli' on the date 29/09/2022

Visit at 'Fortune Suffire site, Ichalkaranji' on the date 08/12/2022

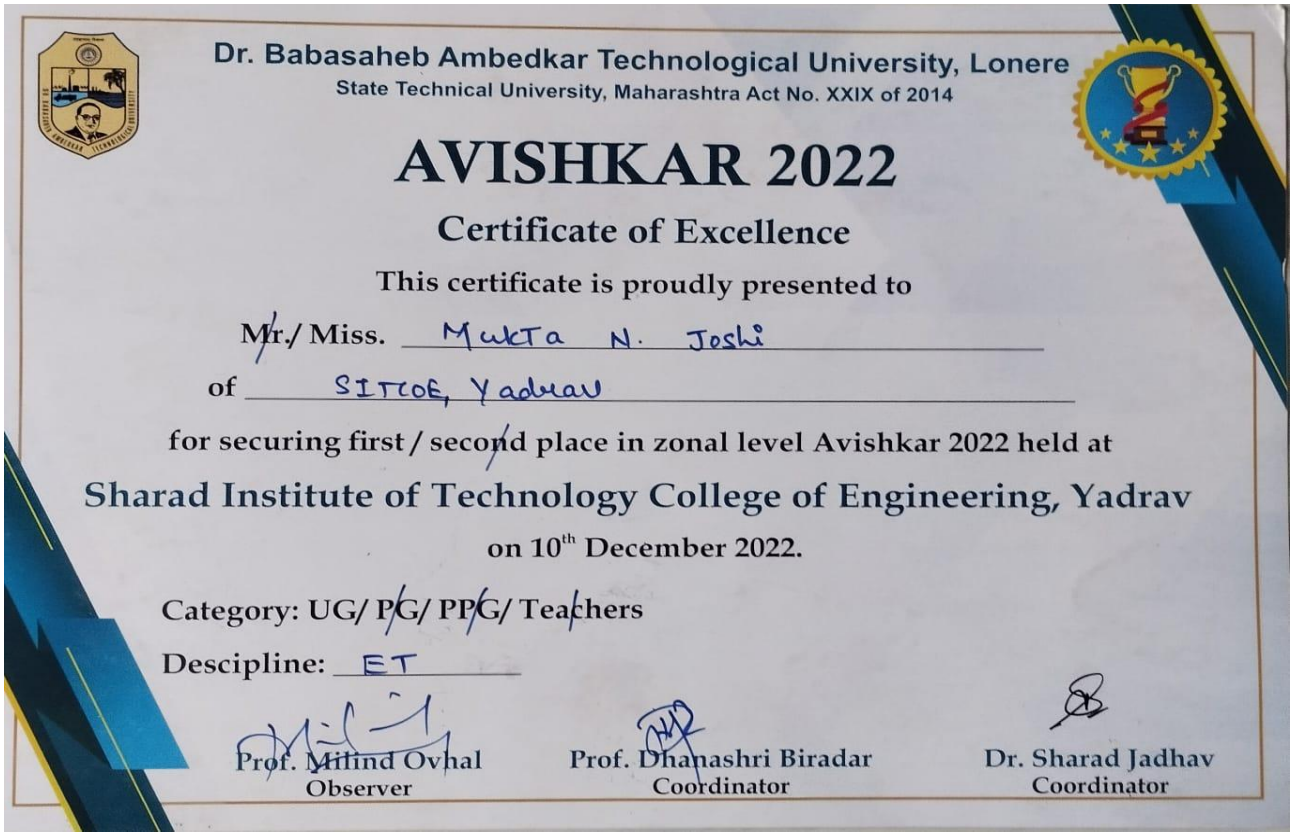
VALUE ADDED PROGRAM

Sr. No.	Year	Name of Program	Class	No. of Students	Expert Name	Duration
1	2022-23	Remote Sensing & Q GIS	B.tech	40	Mr. Salim Shaikh (Seermaps Technologies (OPC) Private Limited)	21/11/2022 to 26/11/2022

STUDENT ACHIEVEMENT/PARTICIPATION

Sr. No.	Student Name	Event Name	Date	Remark
1	**Mukta Joshi**	**Avishkar 2k23, Dbatu**	**10/12/2022**	**1St Rank**
2	Rushabh Patil	Mega Structrure, Pvpit	06-09-2022	3Rd Rank
3	Sanket Mokashi	Design Thinking Workshop, Suk	21& 22/09/2022	Participant
4	Sudhansu Pise	Paper Presentation, Sitcoe	10-08-2022	Participant
5	Shubham Badave	Model Making, Sgu	16/09/2022	Participant
6	Yash Patil	Structure Mania, Sitcoe	25/05/2022	Participant
7	Amir Shikalgar	Paper Presentation	25/05/2022	Participant
8	Smruti Jugale	Presentation Of Vertex	08-02-2022	Participant
9	Ashlesh Pujari	Structrure Mania	25/05/2022	Participant
10	Imrannajir Malgave	Mega Structrure, Pvpit.	06-09-2022	Participant
11	Diksha Gatade	Presentation Of Vertex	08-02-2022	Participant
12	Revti Chougule	Design Thinking Workshop	21/09/2022	Participant

- **Miss. Mukta N Joshi** has won First prize in Project Competition called **"AVISHKAR 2022"** organized by **DBATU**, at SITCOE, Yadrav



Dr. Babasaheb Ambedkar Technological University, Lonere
State Technical University, Maharashtra Act No. XXIX of 2014

AVISHKAR 2022

Certificate of Excellence

This certificate is proudly presented to

Mr./ Miss. Mukta N. Joshi

of SITCOE, Yadrav

for securing first / second place in zonal level Avishkar 2022 held at

Sharad Institute of Technology College of Engineering, Yadrav

on 10th December 2022.

Category: UG/ PG/ PPG/ Teachers

Descipline: ET

Prof. Milind Ovhal, Observer | Prof. Dhanashri Biradar, Coordinator | Dr. Sharad Jadhav, Coordinator

- **OUR PROUD TOPPERS- 2022-23 (SEM-I)**

Sr.No	Name of student	Marks (CGPA)
	TY (Civil)	
1	PATIL SONALI SHRIKANT	8.6
2	BIRAJE AADITI DEVENDRA	8.57
3	PATIL DIGVIJAY DAMODAR	8.41
	SY(Civil)	
1	KURDE ADITYA CHANDRAKANT	9.05
2	SHEJAL PRATHAMESH SANJAY	8.3
3	SHREYASH SANJAY KALKUTAGI	8.1

- **PERSONALITY**

Gustave Eiffel (1832-1923)

Gustave Eiffel (1832-1923) was a French civil engineer and architect who is best known for designing and building the Eiffel Tower in Paris. Born in Dijon, France, Eiffel was an accomplished engineer who made significant contributions to the field of civil engineering during his lifetime.

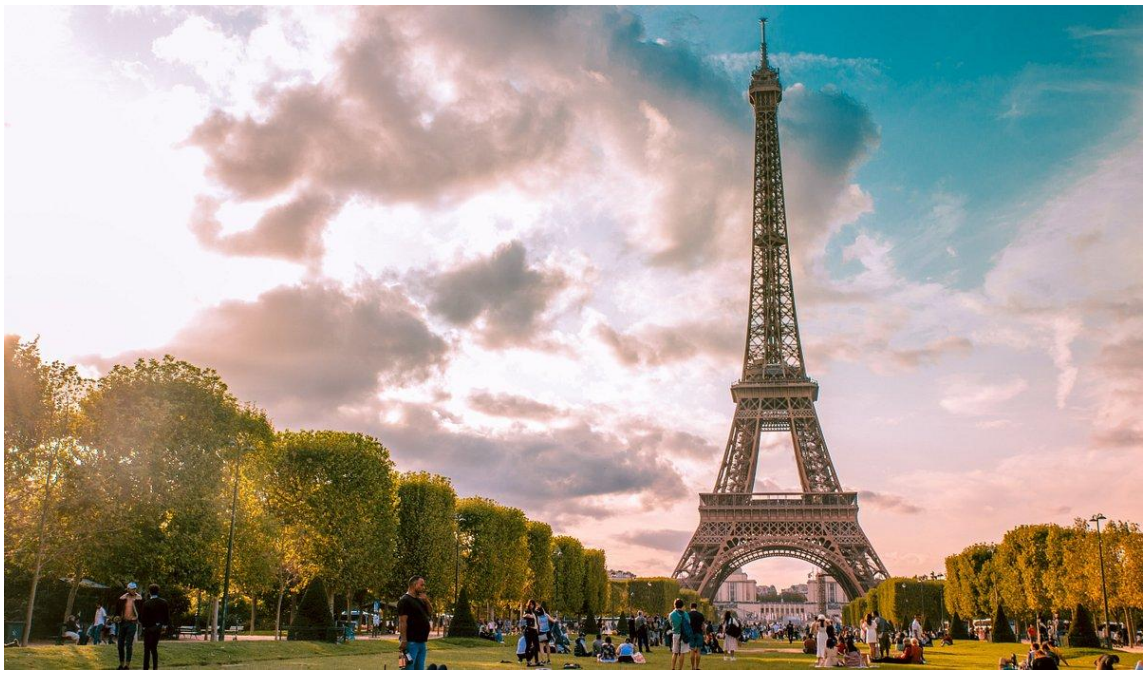
One of Eiffel's most famous projects was the Eiffel Tower, which he designed and built for the 1889 Exposition Universelle (World's Fair) in Paris. The tower was a major engineering feat, standing at 324 meters (1,063 feet) tall and weighing over 10,000 tons. Eiffel used a unique design that utilized wrought iron lattice work, which made the tower both sturdy and lightweight. The Eiffel Tower quickly became a symbol of France and one of the most recognized landmarks in the world.

In addition to the Eiffel Tower, Eiffel was involved in the construction of a number of other important engineering projects. He designed and built the Garabit Viaduct in southern France, which was the tallest bridge in the world at the time of its construction. Eiffel was also involved in the construction of numerous other bridges, including the Maria Pia Bridge in Portugal and the Dona Maria Bridge in Spain.

Eiffel was a member of the French Academy of Sciences and the Royal Society of London, and he was recognized for his contributions to science and engineering during his lifetime. He was awarded a number of honors and awards, including the Legion of Honour and the Order of the Iron

Crown.

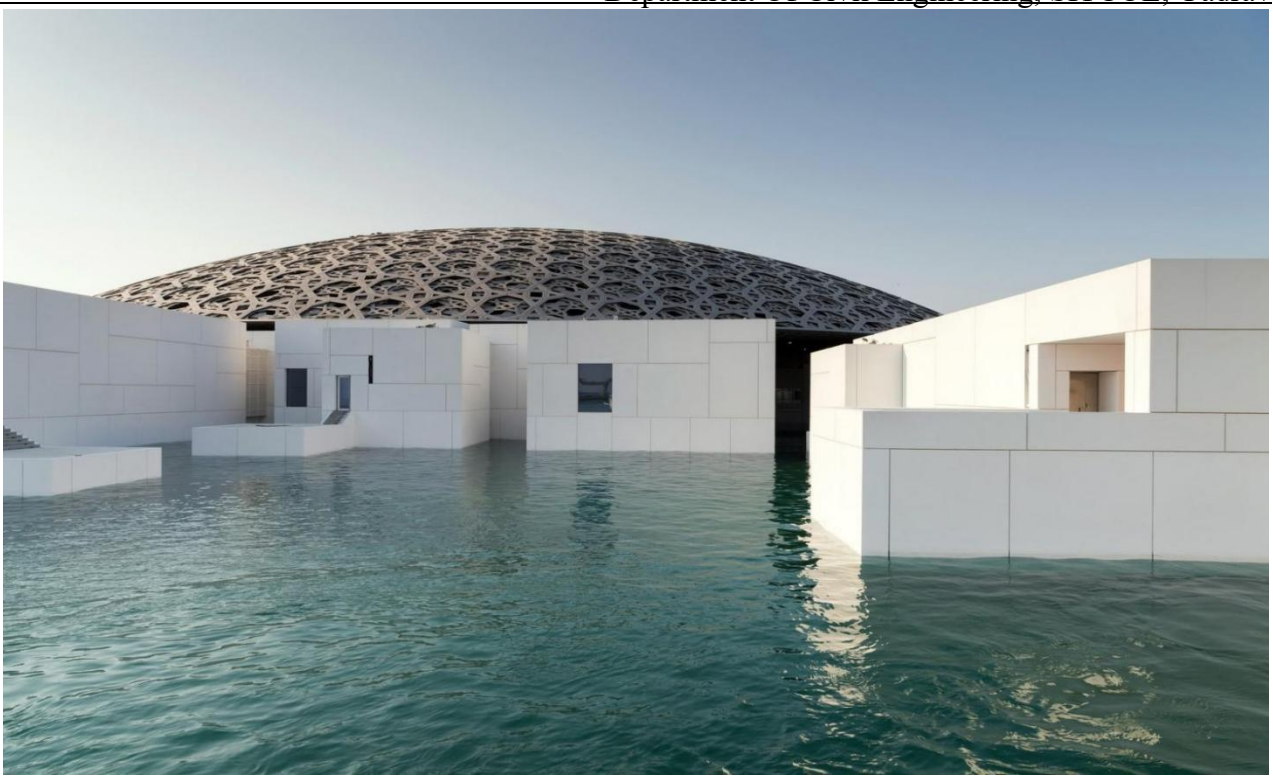
Eiffel's legacy lives on today in the field of civil engineering. His work on the Eiffel Tower set the standard for all future tall structures, and his contributions to the construction of bridges and viaducts helped to shape the modern world. Eiffel is remembered as one of the greatest engineers and architects of his time, and his work continues to inspire and influence engineers and architects today.



- **INCREDIBLE MODERN MARVELS OF CIVIL ENGINEERING**

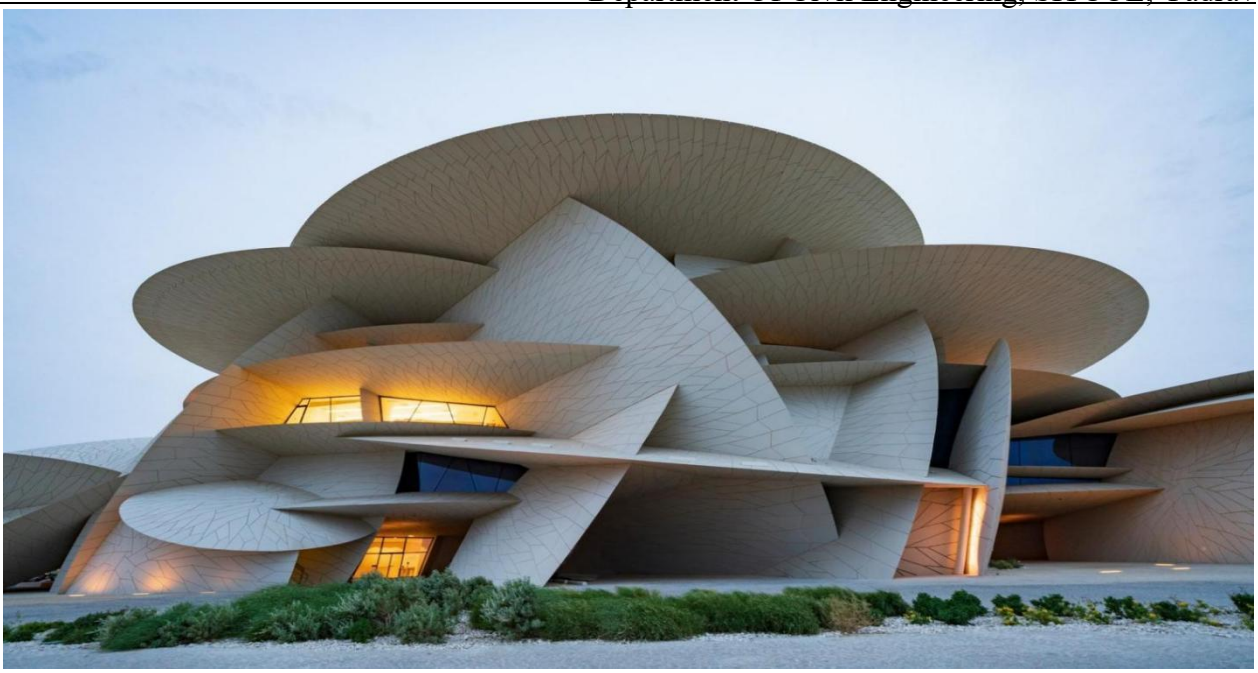
1. Apple Park (2017) by Foster + Partners (Cupertino, California)

For some, Apple Park will always be remembered as the final vision of the firm's inimitable founder, Steve Jobs. For countless more, however, Apple's latest headquarters will be considered the crowning architectural achievement for how the campus of a forward-thinking company should be designed. Created by the firm Foster + Partners, the 175-acre campus was the culmination of a dream that Jobs had in 2004 while walking through London's Hyde Park. It was while there that the iconic founder decided to house his company in a new environment where the barrier between building and nature seamlessly disappeared. To fulfill that lofty ambition, Jobs turned to Pritzker Prize–winning architect Norman Foster. "In my first meeting with Steve Jobs in 2009, he recalled the region [of central California] being the fruit bowl of America and the idea was born of re-creating such a landscape as an integral part of the concept," says Foster. "In this approach the buildings and their setting are inseparable and specific to the needs of Apple. Steve and I shared a vision for the project; Apple Park is the result of the coming together of two teams to ultimately become one." This vision includes a main, ring-shaped building that runs on fully sustainable energy, much of which comes from the solar panels that line the top of the spaceship-like structure. For a company as cutting-edge as Apple, solar-energy almost seems archaic. That's why it pushed Foster and his team further to create a building that actually breathes. Between each floor is a canopy that slightly sticks out, its main purpose being to protect employees from the intense California sun. Tucked within each canopy is a ventilation system that funnels air in and out of the building. Jobs (who was not a fan of air conditioning) wanted his employees to feel any passing breeze as if they were sitting outside.



2. Louvre Abu Dhabi (2017) by Jean Nouvel (Abu Dhabi, United Arab Emirates)

If the past decade can be viewed as a modern Arab Renaissance for the oil-rich nation of United Arab Emirates, then the Louvre Abu Dhabi is most certainly the centerpiece of this movement. Completed in 2017, the estimated $650 million building located in Abu Dhabi is, if nothing else, a milestone for a city that, as of the 1950s, didn't have paved roads, electricity, or running water. The 258,333-square-foot structure, which was designed by Jean Nouvel, features a stainless-steel and aluminum dome that's been cut and layered to dazzling affect. When the intense Middle Eastern sun beats down on the dome, light beams come through in the form of star-shaped patterns. It took eight years of construction for the stars to align in this building, which is the largest art museum in the Arabian Peninsula. Unlike the National Museum of Qatar (which was highly nationalistic and built two years later, some 355 miles away by car), the Louvre Abu Dhabi promotes the impressive array of Western art spread throughout 23 galleries that are either owned by or on loan to the UAE (including an 1877 Van Gogh self-portrait, Monet's 1877 painting of the Saint-Lazare railroad station, Jacques-Louis David's famous portrait of Napoleon crossing the Alps on a white horse, and Mondrian's 1922 *Composition With Blue, Red, Yellow and Black*).



3. National Museum of Qatar (2019) by Jean Nouvel (Doha, Qatar)

If the public was hoping to see the billions of dollars of Western art the Qatari's had purchased in the past few decades, then it would seem the construction of a national museum in their country was a necessity. And while that occurred in 2019, with the opening of National Museum of Qatar, the many Picassos, Rothkos, Pollocks, and Cézannes were nowhere to be found. What the public may have gotten though, in the form of a stunning new Jean Nouvel–designed building, might have been even better. The 361,861-square-foot structure contains the many artifacts, stories, and images—from the discovery of oil to life by the Persian Gulf—that encompass the creation of modern-day Qatar (a list of the wings include: The Formation of Qatar, Qatar's National Environments, and Qatar Today). Yet, many if not all national museums around the world, in some form, tout the history of their people from their beginnings to modern times. What separates the National Museum of Qatar from any other museum, of course, is its revolutionary architecture. There are the facts about the building which are easy to rattle off: The exterior consists of 539 disks, with 76,000 patterned cladding elements throughout; the interiors twist and turn, with the ceiling rising and dipping, constantly keeping visitors surprised through the eleven linked galleries. That, however, is where any simple explanation ends. What made Nouvel's task of designing this museum so difficult is what was being asked of him—to create a building that, by shape and formation, would become the very embodiment of Qatari identity. His answer came in the form of the desert rose, a naturally occurring phenomenon in the region that consists of a layered crystallization of minerals occurring in salty sand. With a deft stroke of hand, Nouvel was able to capture the essence of the miracle that has been the formation of Qatar, a tiny nation that spans some 4,416 square miles (an area smaller than the Falkland Islands).