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SANRACHNA

सं र च ना

Magazine



Department of Civil Engineering
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DEPARTMENT OF CIVIL ENGINEERING
UNIVERSITY INSTITUTE OF TECHNOLOGY
RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

Our View

*Life is best for those
who are enjoying it.
Difficult for those
who are comparing it.
Worse for those
who are criticizing it.
Your own attitude
defines your life.
So enjoy life for
each moment.*

Sanrachna aim to explore collection of techno-artistic contributions by the students of Civil Engineering Department

We hope our readers a joyful reading experience!

Our Team



Krishnakant D. (6th Sem)



Kunal G. (4th Sem)



Sapna Chouhan(4th Sem)



Shivesh Gautam(2nd Sem)



Magic of Ancient Architecture



Orchha Fort

At a distance of 16 km from Jhansi, Orchha Fort situated near Betwa River. It was built by Rudra Pratap Singh, a Bundela Rajput king, in 16th century. The palaces and temples within the fort complex were built over a period of time by successive Maharajas of Orchha State. Raja Mahal, Jahangir Mahal, Rai Parveen Mahal, Phool Bagh and Sheesh Mahal are some noticed structures within the fort complex. The Raja Mahal or King's Palace construction was started by Raja Rudra Pratap but it was completed by Madhukar Shah, the predecessor of Bir Singh Ju Deo of Orchha in the 17th century. Typical stone jali work and multifaced arches at the entrance.



Chaturbhuj Temple, Orchha

At a distance of 1 km from Orchha Fort, Chaturbhuj Temple is an ancient Hindu temple situated near Ram Raja Mandir in Orchha town of Madhya Pradesh. Known for its marvelous architecture, Chaturbhuj Temple is one of the popular heritage places to visit in Orchha. The temple is under Archaeology Survey of India. The name Chaturbhuj literally means 'one who



has four arms' and it refers to Lord Rama, an incarnation of Lord Vishnu. It is believed to be built by the king of Orchha, Raja Madhukar Shah, between 1558 and 1573. Madhukar Shah built this temple for his wife Rani Ganesh Kuwari.

The temple is a beautiful blend of a temple, fort and palace styles of architecture. The imposing view of the temple is that of multi-storied palace with arcaded openings, a very large entrance, a large central tower and fortifications. The Chaturbhuj temple was built atop a massive stone platform and reached by a steep flight of steps. Lotus emblems and other symbols of religious significance provide the delicate exterior ornamentation.



Jahangir Mahal

Jahangir Mahal in Orchha is a delightful example of Bundela architecture. The most admired palace in Orchha, was constructed by Bir Singh Deo in 1606. The interiors of the palace are beautifully adorned with paintings of peacocks, flowers and geometric patterns. Two stone elephants flank the stairway, holding bells in their trunks to announce the arrival of the raja by the ringing of bells.



जब जीवन में सुख-दुःख के साथ,
अनुभव होते हैं साथ-साथ,
तो समझ में नहीं आता है कि,
ज़िन्दगी में होती है क्या बात।

चंद्र-सूर्य के साथ रोज तो,
एक नई सी कहानी बोलते हैं,
दोस्त-दुश्मन के साथ रोज तो,
एक नया संघर्ष छिड़ते हैं।

ज़िन्दगी में आते हैं हंसी और रोना,
जो भी हो बिता देना चाहिए हमेशा,
आगे बढ़ कर जीवन के रंगों में,
हमेशा ढूंढें खुशी की मुस्कान।

यह हैं ज़िन्दगी का ताज़ा पैगाम,
जिससे सीख मिलती है हमें कुछ नया,
हर एक पल जीवन का है अमूल्य,
इसे संभाल कर सबो खुशहालियों से भरा।

By : Sandeep Ahirwar (6th Sem)



NARSINGGARH – MINI KASHMIR OF M.P.

NARSINGGAR, RAJGARH, MADHYA PRADESH, INDIA



The town is nearly 300 years old having been Founded in 1681 by Dewan Parasram. The beautiful lake in the town in which is reflected the old fort and palace still bears the name of the founder. The town is 83 Kms. from the Bhopal and is reached by a good road. The site of the town is the place of temple of Shiva – then known as Topila Mahadeo, for the persons who lived there manufactured toplis or basket. Hence the name stick. It is however in the autumnal months that the place becomes exceedingly picturesque and beautiful. From the top of the Baijnath Mahadeo temple the pleasant panorama is very appealing, with the lakes of full limpid water, with the land carpeted in lush green grass, with the small streams racing down the slopes of the hills and hills themselves covered with good vegetation and as rustling wind sweeps the murmuring countryside adorned with mellowing crops, radiant in the evening sun, the brilliance of blue skies seems to evenly matched with the grandeur of the green.

By - Payal Yadav (2nd Sem)



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History of Civil Engineering

Civil engineering has a long and rich history that dates back to ancient times. The earliest known examples of civil engineering can be traced back to the construction of the pyramids in ancient Egypt, which required sophisticated engineering techniques to move and stack the massive stone blocks.

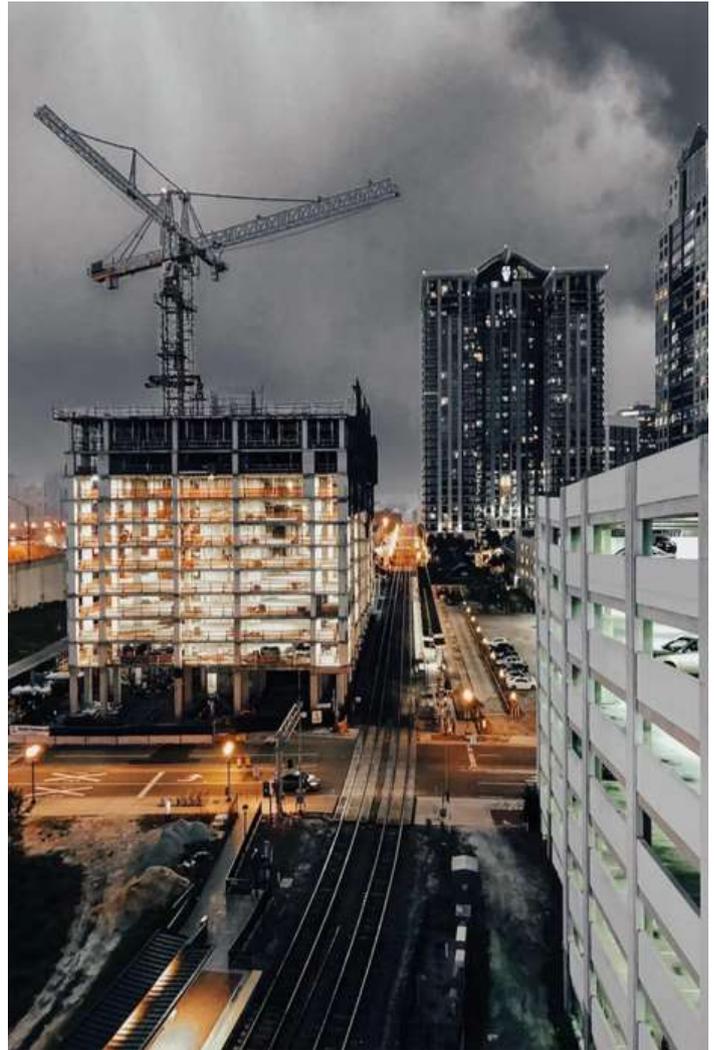
Throughout history, civil engineers have played a critical role in building and maintaining infrastructure. In ancient Rome, civil engineers designed and constructed impressive aqueducts, roads, and buildings that are still standing today. During the Middle Ages, civil engineers designed and built castles, cathedrals, and other structures that served both practical and symbolic purposes.

During the Renaissance, the study of mathematics and science led to a renewed interest in civil engineering, and many notable engineers emerged during this time, including Leonardo da Vinci, who designed innovative bridges and machines, and Galileo Galilei, who studied the mechanics of materials and the properties of fluids.



In the modern era, civil engineering has become a highly specialized and diverse field, encompassing everything from transportation infrastructure to water management systems, building design to geotechnical engineering. The Industrial Revolution brought new materials and construction techniques that transformed the field, and the development of modern computer technology has made it possible for civil engineers to model and simulate complex systems and structures.

Today, civil engineers continue to be at the forefront of innovation and progress, working to design and build infrastructure that supports communities and improves people's lives.



by Disha tiwari





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Shaheed-E-Azam

Indian revolutionary Bhagat Singh

Bhagat Singh was born on September 28, 1907, in Banga, Punjab, to a Punjabi Sikh family. His father, Kishan Singh, was a freedom fighter who had been imprisoned for his involvement in the Indian independence movement.

Bhagat Singh was raised in a politically active household, which had a deep impact on his worldview and principles.

At a young age, Bhagat Singh became interested in socialist and Marxist ideas, and he was critical of the British Raj, which he saw as a form of imperialism and exploitation. In 1923, at the age of 16, Bhagat Singh joined the Indian National Congress but soon became disillusioned with its non-violent approach to achieving independence. He was drawn to more radical and militant forms of activism.

Bhagat Singh became a prominent figure in the Hindustan Socialist Republican Association (HSRA), a revolutionary organization that aimed to overthrow the British Raj through violent means. He was involved in a number of high-profile acts of rebellion, including the bombing of the Central Legislative Assembly in Delhi in 1929, for which he was arrested and sentenced to death.





Bhagat Singh was deeply committed to the principles of socialism and equality. He believed that social and economic inequality was at the root of India's problems and that only a socialist revolution could bring about true independence and freedom for the people of India. He was also a strong advocate of secularism and believed that religion should not play a role in politics or society.

Bhagat Singh was a charismatic and articulate leader who inspired many Indians to join the struggle for independence. He was also deeply committed to the principles of non-violence and peaceful protest, but he believed that violence was sometimes necessary to achieve revolutionary change.

Bhagat Singh was hanged on March 23, 1931, at the age of 23, along with his comrades Rajguru and Sukhdev. His death was a major blow to the Indian independence movement but also galvanized the struggle against British imperialism.

Bhagat Singh's legacy lives on as a symbol of revolutionary courage and sacrifice. He continues to inspire generations of Indians to fight against oppression and injustice and to work towards a more just and equal society.

By Abhiyash Singh (2nd Sem)



Poem of Civil Engineering

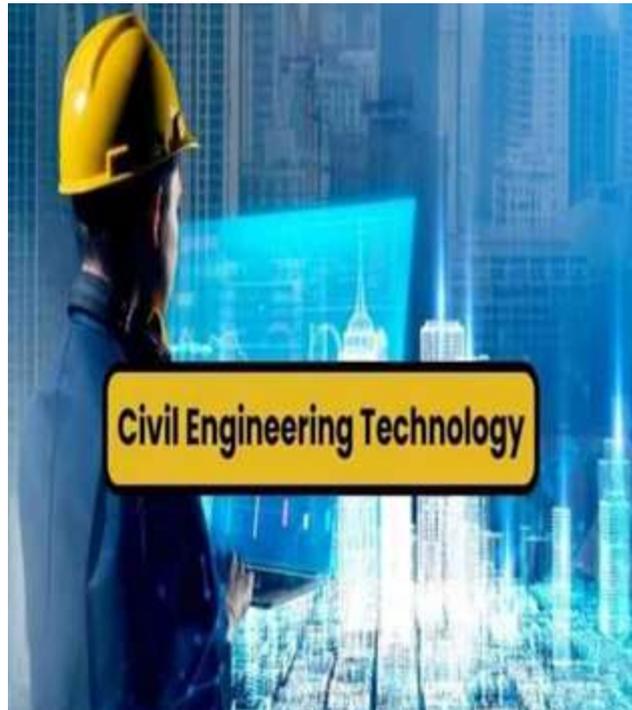
They build the bridges that connect our lives,
And design the roads where our journeys thrive,
Civil engineers, masters of their trade,
Creating infrastructures that never fade.

They plan, they measure, they calculate,
Ensuring their structures can withstand the weight,
Of traffic, of time, of nature's force,
Their designs must hold steady, stay on course.

From dams to skyscrapers, they make them all,
Creating wonders that stand tall,
They transform the landscapes, shape the land,
Building a world that we can all understand.

With their blueprints and their building blocks,
They craft the structures that make us awestruck,
Civil engineers, architects of the world,
Creating marvels that will forever be unfurled.

So let's take a moment to appreciate,
The civil engineers who create,
The foundations of our modern society,
Their work is the epitome of ingenuity.



By: Devki Nandan Shukla (2nd Sem)



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NEW TECHNOLOGIES IN CIVIL ENGINEERING

Civil engineering is a constantly evolving field that is constantly being influenced by new technologies. Some of the recent advances in civil engineering technology include:

3D Printing: 3D printing technology is being used in civil engineering to create intricate architectural designs and to build models for testing and analysis. It has the potential to revolutionize the construction industry by allowing for the creation of complex structures in a more cost-effective and efficient manner.

Augmented Reality: Augmented reality (AR) technology is being used in civil engineering to help designers and engineers visualize and manipulate 3D models of buildings and structures. AR technology allows for real-time collaboration and visualization, making it easier to detect errors and identify potential issues before construction begins.

Building Information Modeling (BIM): BIM is a technology that allows for the creation of detailed digital models of buildings and structures. It allows for collaboration between architects, engineers, and contractors, and can help to reduce errors and streamline the construction process.

Drones: Drones are being used in civil engineering to conduct aerial surveys, monitor construction sites, and gather data on infrastructure such as bridges and highways. They can provide high-



quality images and data that can be used to identify potential issues and monitor progress.

Internet of Things (IoT): IoT technology is being used in civil engineering to collect and analyze data on infrastructure such as bridges, roads, and buildings. Sensors can be placed on structures to collect data on factors such as temperature, humidity, and stress, which can help to identify potential issues and monitor the health of the structure.

These are just a few examples of the many new technologies that are being used in civil engineering to improve the design, construction, and maintenance of infrastructure.



By: Shivesh Gautam (2nd Sem)



कविता – आशा

हार के कभी न रुकना तू
हार से सुधरने की चाहत
रखना तू

जीत के साधन बनाना तू
और जिंदगी में

चलते और बढ़ते रहना तू
मुड़ के पीछे न देखना तू
अपने जीवन में हमेशा आशा बनाए
रखना तू

हमेशा खुश रहना तू



STUDENT LIFE AT COLLEGE

College is often said as the best time of one's life. It is a period of growth, discovery, and self-exploration. However, student life in college can also be challenging, overwhelming, and stressful. In this editorial, we will examine the various facts of student life in college, including academics, social, and personal aspects. Students entered at college with a lot of hope to get self-explored and that's right they get a lot of opportunity to work on self-improvement . But sometimes students also face some problem. Academically, college can be quite demanding. The coursework is more rigorous and intensive than high school, and students are expected to be more independent and self-motivated. In addition to attending lectures and seminars, students are required to read and research extensively, write papers, and take exams. The workload can be overwhelming, especially for those pursuing demanding courses such as medicine, engineering, or law. Some students face social anxiety also, they feel uncomfortable on talking with new person , weather college is all about connecting with new peoples and pushing their limit .Friends play a vital role in college , one should have supporting friends who tells you your mistakes and keep a happy relation with you .Students feel less of self-confidence while talking to new person which results in chances of choosing wrong friends . That leads to have wrong environment around them in college. However, college also offers numerous opportunities for academic growth and development. Students can take advantage of the resources available on campus, such as libraries, writing centers, tutoring services, and academic advisors. They can also engage in research, internships, and study abroad programs to enhance their learning experiences.

Socially, college presents a unique environment for students to interact and connect with their peers. It is a time to make new friends, explore new interests, and engage in extracurricular activities. However, social life in college can also be challenging, especially for those who struggle to find their niche or face social anxiety.

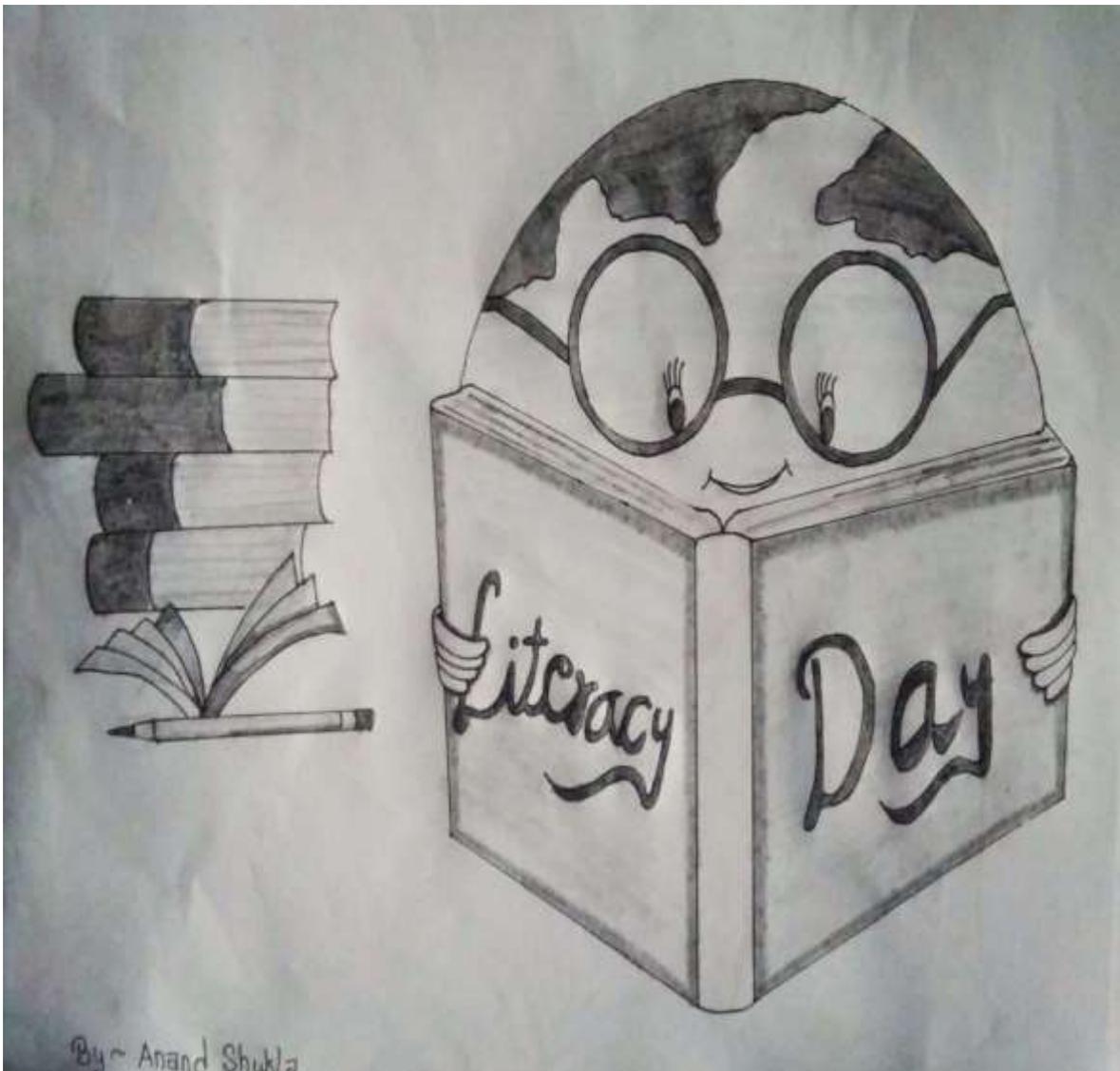
It is important for students to prioritize their mental health and seek support when needed. Colleges offer a range of mental health services, including counseling, therapy, and support groups. Students should also take care of their physical health by exercising regularly, eating well, and getting enough sleep. It's all depend on students according to me as per my knowledge . Many researches are found in this field such as The Higher Education Research Institute (HERI) at UCLA, The Center for Postsecondary Research at Indiana University, The National Survey of Student Engagement (NSSE), The College Transition Collaborative at Stanford University, The Center for Community College Student Engagement at the University of Texas at Austin, etc. At last as per my point of view students can do their best at college by having their goal , keeping in mind of self-growth , choosing right people around them who keeps encouraging you , proper diet , meditation , always seeing for opportunity to grow , taking part in every field in college ,etc . Because college is the best place to work on yourself so keep working hard and be happy in what you are doing.

By: Shreeja Bopche (Ist Year CE)





ARTIST WALL



By: Anand Shukla(2nd Sem)



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LOST IN SPACE



By: Ashisha Thakur (2nd Sem)



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