



CIVIL INFO

AUGUST- SEPTEMBER 2019

VOLUME- **VI**

ISSUE- II

**Scientists investigate that which already is;
Engineers create that which has never been.**

EDITORIAL FACULTY:

Ms K Srimukha ASST PROF.

Mr. V Rajesh ASST PROF.

DESIGN TEAM:

P N Unnath Kumar III Year

D. Naresh Varma III Year

V. Giridhar III Year

P. Vivek II Year



Civil Info

Civil Engineering

News Letter Volume-IV Issue-II August-September (2019-2020)



"YOUR EDUCATION IS A DRESS REHEARSAL FOR A LIFE THAT IS YOURS TO LEAD"

Job Vs Entrepreneurship as a profession

On 30th August, 2019 DIET has conducted an awareness program on Job Vs Entrepreneurship as a profession. The session was attended by Dr. N. Vishnuvardhana Rao, Entrepreneur, Educationist & Professor, Panimalar Engineering College, Chennai. The main purpose of the session is to make the students to aware the differences between an Employee and a entrepreneur so that students can set a goal towards their career. Interested students from all the branches are registered for this program.



SEDIBUS Hustle Talk- The Idea Book

On 12th September, 2019 DIET has conducted an awareness program on The SEDIBUS Hustle Talk- The Idea Book. The session was attended by Raja Sekhar Vasa, Happy Adda Co-Founder, Bangalore. The main purpose of the session is to make the students to aware the mobile gaming apps and their development. Happy adda studios provides online contents through mobile applications like Kettle Mind and websites. Interested students from all the branches are registered for this program and participated in Mobile trail games conducted by the resource persons.

73rd Independence Day Celebrations

In our college 73rd Independence Day had been celebrated patriotically. Our respected Chairman Sri. D Ravindranath Tagore Garu had hoisted National Flag. The teachers address the students and explain the importance of Independence. Students gave patriotic speech. There was a guard of honor by NCC students.

On Occasion on Independence Day, cultural activities have been conducted by College Cultural Cell and students were give prizes on this auspicious day.



Civil Department organize fresher's party to the fresher's every year. This year we organized on September 1st. The main aim of this party is to give a warm welcome to the new comers.





సంస్కృతి ఇలంకరూఠి



Singing, Dance and Elocution Competitions were held for the B.Tech Students by **Dhane Kula Samskruthi** for the occasion of 73rd INDEPENDENCE DAY. The competition was held in two phases, for the 1st Phase the competition is conducted from JULY 27th To 3rd AUGUST 2019 During Association Hours in their respective departments and I,II and III places, are awarded. In 2nd phase the competition was held for the Institute level for those students who secured I,II and III places in their respective departments .

Following students have been awarded I,II and III places for the IstPhase at the department level

ELOCUTION COMPETITION

S.No	Registered No	Name of the student	Award
1	178T1A0141	N.MANIKYA SRIKAR	I
2	188T5A0126	JASWANTH	II
3	188T55A0118	VAJRADAR	III



DANCE COMPETITION

S.No	Registered No	Name of the student	Award
1	168T1A0167	PUDI RAVI TEJA	I
2	168T1A0153	MRUNAL SAI MUTYALA	
3	168T1A0172	SEERA UMA MAHESWARA RAO	
4	168T1A0174	SHEIK NAGUR BASHA	

SHOW CASE 2K19

A one-day State Level Student Fest was organized by MARIS STELLA COLLEGE. Total 10 students have participated from Civil Department in different events like Report Writing and Spot Photography. Out of 10 students who have participated in the events one student has secured first prize in sport photography.

Congratulation to P.Jyotsna Latha (178T1A0150) for securing first prize in sport photography.

Short Story Writing, Spell Bee and Role-play

Competitions were held for the B.Tech Students by **Dhanekula Samskruthi** for the occasion of TEACHER'S DAY. The competition was held in two phases, for the 1st Phase the competition is conducted from AUGUST 28th to 4th SEPTEMBER 2019 During Association Hours in their respective departments and I,II and III places, are awarded. In 2nd phase the competition was held for the Institute level for those students who secured I,II and III places in their respective departments .

YOUTH FEST

Youth Fest was organized by Young Indians for the occasion of SRI KRISHNA JANMASTAMI on 23rd & 24th AUGUST 2019. Total 14 students have participated in different events like **QUIZ, DUM CHARDES, THUG OF WAR and Utti Kottadam** from Civil Department.

K. Phanindra Sai (188T5A0115), G.Basha(188T5A0112) and K.Anil (188T5A0116) have won 1st prize and also a cash prize of 10,000 Rs in Quiz competition.



Following students have been awarded I,II and III places for the 1stPhase at the department level

SHORT STORY WRITING COMPETITION					
I	S.No	Year/semester	Registered No	Name of the student	Award
	1	IV -A	168T1A0111	CH.YAMINI	I
	2		168T1A0104	A.SHRAVYA	II
	3		158T1A0137	P.MANISHA	III
	4	III-A	178T1A0134	M.R.SAI DEEPESH	I
	5		178T1A0140	N.RAKESH	II
	6		178T1A0150	P.JYOTSNA LATHA	III
	7	III-B	188T5A0131	NALLAMOTHU MOHITHDATTA	I
	8		188T5A0139	SANKARPANA VIVEKANANDA	II
	9		188T5A0110	ENUKOLLU VEERA VENKATA RAMANJANEYULU	III
	10	II-A	188T1A0145	A.JITHENDRA BHASKAR	I
	11		188T1A0101	A.CHINMAYEE	II
	12		188T1A0133	P.VIVEK	III
	13	II-B	198T5A0133	THANUJA	I
	14		198T5A0125	M.SRI HARI	II
	15		198T5A0130	SYED MANSOOR	III

SPELL BEE COMPETITION

S.No	Year/semester	Registered No	Name of the student	Award
1	IV -A	168T1A0116	Ch.Prakahya	I
2		168T1A0104	A.Shravya	II
3		168T1A0146	M.J.H.N Bhattu	III
4	III-A	178T1A0150	P.Jyotsna Latha	I
5		178T1A0145	Panuganti Shivaprasad	I
6		178T1A0110	Challa Vengalareddy	II
7		178T1A0111	Chimata Kranthi Kumar	III
8	II-A	188T1A0113	Gugulothu Pavanisitha	I
9		188T1A0142	Vandanapu Pooja	II
10		188T1A0106	BHOGA NAGA JAYANTH	III
11	II-B	198T5A0113	Kasturi Adarsh	I
12		198T5A0102	Arekapudi Omkar	II
14		198T5A0135	Uppala Viswendra	III

ROLE-PLAY

S.No	Year/semester	Registered No	Name of the student	Award
1	III-A	178T1A0106	B.USHA SREE	I
2		178T1A0124	K.MOUNIKA	
3		178T1A0153	K.NAVEEN	
4		178T1A0140	RAKESH.N	
5	III-B	188T5A0148	V.SAI &TEAM	I
6		188T5A0132	SAI PAVAN &TEAM	
7		188T5A0124	VENKAT & TEAM	
8	II -B	198T5A0138	MD.NAVED AHMED	II
9		198T5A0134	U.SYAM	
10		198T5A0109	G.VARUN SAI	



Poster Presentation and Extempore Competitions were held for the B.Tech Students by **Dhanekula Samskruthi** for the occasion of **WORLD OZONE DAY**. The competition was held in two phases, for the 1st Phase the competition is conducted from from 6th to 13th **SEPTEMBER 2019** During Association Hours in their respective departments and I,II and III places, are awarded. In 2nd phase the competition was held for the Institute level for those students who secured I,II and III places in their respective departments



NSS

SERVICE TO THE NATION



An Awareness Program On Jsa(JAL SHAKTI ABHIYAN) Is Organized By Dhanekula Nss Unit on 01-08-2019 To Aware Water Conservation In Public ,The Benefit Of Water Conservation Using Soak Pits Was Demonstrated At Adopted Village Eedupugallu. As An Initial Step Students Have Demonstrated Water Conservation At Each Door Step With Mobile Demo SAOK Pit And Later Have Dugged a Live Soak Pit And Have Explained The Process Of Water Conservation To The Villagers,This Program have gained attention in public and have Received An Appreciation From Panchayat Of Edupugallu



TEAM OF VOLUNTEERS INITIATING FROM COLLEGE

Lead by Principal Dr.Ravi Kadiyala



NSS Volunteer Students Digging Soak Pit

On 03-08-19 DIET- National Service Scheme (NSS) in association with Young Indians Amaravathi Chapter have Conducted Awareness Program on **ORGAN DONATION**

This was initiated by Mr. D.Rajesh Kumar co-chair YI, and Chair of YI Mr.Nannapaneni Bhaskar who focused mainly on students world after college,YI in this occasion have invited Dr.Bhavan Chand who said that humans can donate over all 8 organs thus they can add life to 8 members even after there death ,Most Students Participated Actively and gave their opinions on Organ donation, This Event was Attended by all B.tech students and faculty



Chair YI Nannapaneni Bhaskar Addressing about YI



Head of Institute Dr.Ravi Kadiyala Signing MOU with YI

On 05-09-19 DIET- National Service Scheme (NSS) in association with New City Blood Bank – Vja & HDFC bank-Vja have organized a blood donation camp in DIET-T&P HALL about 88 members have attended this event on 5-09-19 and 400 above students have checked their blood group on 06-09-2019 this camp was headed by Mrs.Kalyani from New City Blood Bank who involved in Process of testing donors before donation, Mr.Linga Murthy from HDFC Bank have appreciated the Management, Principal and NSS coordinators for helping them in making this a grand success.



On 04-09-19 DIET- National Service Scheme (NSS) in association with Passport Seva Kendra, Vijayawada have Conducted Interactive Session on Passport Services at ECE Seminar Hall

This camp was initiated by Mr. Sankar and Mr. Balaji Employees of Passport Seva Kendra Vijayawada ,As a part of this our college students have attended the camp on 04-09-2019 almost 200 plus students have Cleared there dough's and observed the proceedings from this session,



On 17-09-19 DIET- National Service Scheme (NSS) in association with RTO-VIJAYAWADA have Conducted LLR MELA in College Premises This camp was initiated by Mr. M.V.Narayana Raju,MVI Vijayawada ,As a part of this our college students along with the villagers have attended the camp on 17-09-2019 almost 200 plus students have registered for LLR.



Industrial Visits



All the final year students visited **R.V.Labs and Amaravathi Labs Private Limited** on 26th August 2019



RV LAB is a contract research and food testing laboratory it is the 1st commercial laboratory established in Guntur with multiple laboratory activities. In their journey this far they have been providing wide range of analytical services to commodity Packers, exporters and research scholar. RV LABS inspects the quality check of spices, vegetable oils, food grains, analysis of water, soil, minerals.

RV LABS has

- Necessary accreditation, recognition certificates and approvals for testing
- Complete food analysis under one roof
- End to end approach in complete environmental monitoring and safety
- Capability to analyse high and chemical, microbiological, physical and instrumental parameters
- Skilled chemist and scientific professional with experience in the relevant field with high operational efficiency



All the Second year students visited **UltraTech ready mix** which is located at near Vijayawada - Guntur Highway on 11th September 2019



2nd year students at Ultratech ready mix,

Vaddeswaram

It is established in 1998. Across 36 cities in India, and it is the largest manufacturer of cement in India. UltraTech Concrete is the largest RMC manufacturer in India with a nationwide presence established in less than two decades. UltraTech Concrete has achieved consistent quality & service through IT solutions.

In the visit they gave a brief description about concrete. They showed them some equipment which is used for testing the concrete like compression testing machine, digital control machine and curing tanks. They also showed them how the ready mix plant works. The average capacity of the concrete mixer truck is 8 cubic yards.

UltraTech Concrete is engaged in continuous search of competitive edge over environmental concerns such as ecological degradation at mines sites, air pollution due to both fugitive and stack dust emissions, and green house gases.

Industrial Visits



All the third & final year students from civil department visited the **Inventaa Industries Private Limited** Company for two days (17-9-2019 & 18-9-2019). The company which is located in Keesara Village, Kanchikacherla Mandalam, Keesara Village, Andhra Pradesh with the 40 acres of land occupancy for the company 20 acres of land for the manufacturing and rest of the land for placing the precast elements.



4th year students at Inventaa Industries Private Limited



3rd year students at Inventaa Industries Private Limited

In this company there are preparing precast elements for the construction of buildings.

There are five types of elements which are giving by the company as an output.

- Light weight bricks
- Precast beams, columns
- Precast slabs
- Pavers
- Precast walls



Beams & Columns



Reinforcement





Technical Topics



BUILDING INFORMATION MODELING (BIM)

BIM is similar to CAD (computer-aided design), but not exactly the same. It is software for 3D design to digitally model what will be built. But its capabilities don't stop there: "It doesn't just create a visually appealing 3D model of the building, it also creates numerous layers of metadata and renders them within a collaborative workflow," writes Engineering.com. It captures things in a way that paper just can't.

30 to 35% of builders are currently using BIM software. The use of BIM provides space for better collaboration because each person and expertise area can add their piece to the same model, instead of broken out onto multiple versions of a 2D paper drawing. This way, the model evolves immediately as people contribute, streamlining the process and increasing efficiency. BIM also helps with problem-solving in the design and planning stages of a project, by automating clash detection and providing a more complete picture of the project.

What is BIM?

Building Information Modeling (BIM) is an intelligent 3D model-based process that gives architecture, engineering, and construction (AEC) professionals the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure.

What is BIM used for?

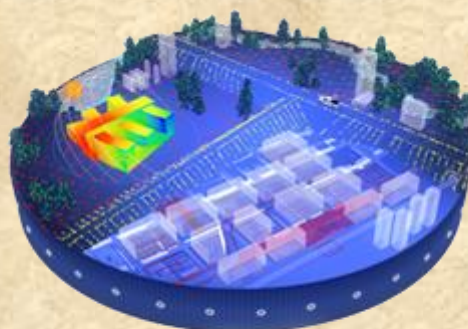
BIM is used to design and document building and infrastructure designs. Every detail of a building is modeled in BIM. The model can be used for analysis to explore design options and to create visualizations that help stakeholders understand what the building will look like before it's built. The model is then used to generate the design documentation for construction.

What is the process of BIM?

The process of BIM supports the creation of intelligent data that can be used throughout the lifecycle of a building or infrastructure project.

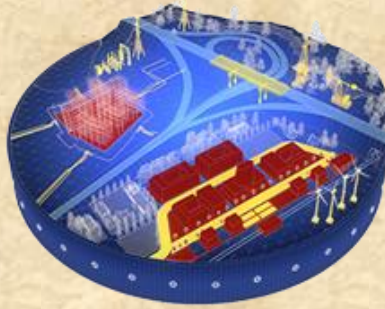
Plan

Inform project planning by combining reality capture and real-world data to generate context models of the existing built and natural environment.



Design

During this phase, conceptual design, analysis, detailing and documentation are performed. The preconstruction process begins using BIM data to inform scheduling and logistics.



Build

During this phase, fabrication begins using BIM specifications. Project construction logistics are shared with trades and contractors to ensure optimum timing and efficiency.



Operate

BIM data carries over to operations and maintenance of finished assets. BIM data can be used down the road for cost-effective renovation or efficient deconstruction too.



Why is BIM important?

According to the United Nations, by 2050 the world's population will be 10 billion. The global architecture, engineering and construction (AEC) industry is responsible for delivering the social and economic spaces for the global population, and for helping maintain and restore the buildings and infrastructure already in use. The industry must look to smarter, more efficient ways to design and build not just as a means to keep up with global demand but to help create spaces that are smarter and more resilient too.

BIM not only allows design and construction teams to work more efficiently, but it allows them to capture the data they create during the process to benefit operations and maintenance activities. BIM data can also inform planning and resourcing on the project, city or country level. This is why BIM mandates are increasing across the globe.

What is BIM in civil engineering?

BIM for civil projects improves outcomes with its ability to investigate multiple scenarios, providing data-driven assurance that projects can be delivered on schedule and on budget. BIM offers shared information throughout the project life cycle, driving compelling results.

Why BIM is important for civil engineering?

Infrastructure projects today have become more complex. Implementing BIM facilitates project team collaboration; reducing errors, increasing cost predictability, and improving understanding.

By
K Srimukha
Asst.Prof .

LIGHTWEIGHT EXPANDED CLAY AGGREGATE (LECA)

Introduction

Lightweight expanded clay aggregate (LECA) or expanded clay (exclay) is a lightweight aggregate made by heating clay to around 1,200 °C (2,190 °F) in a rotary kiln. The yielding gases expand the clay by thousands of small bubbles forming during heating producing a honeycomb structure. LECA has an approximately round or potato shape due to circular movement in the kiln and is available in different sizes and densities. LECA is used to make lightweight concrete products and other uses

Characteristics

LECA is usually produced in different sizes and densities from 0.1 millimetres (0.004 in) up to 25 millimetres (1.0 in), commonly 0-4 mm, 4-10 mm, 10-25 mm and densities of 250, 280, 330, and 510 kg/m³. LECA *boulder* is the biggest size of LECA with 100–500 mm size and 500 kg/m³ density.

Some characteristics of LECA are lightness, thermal insulation by low conductivity coefficient (as low as 0.097 W/mK^[1]), soundproofing by high acoustic resistance, moisture impermeability, being incompressible under permanent pressure and gravity loads, not decomposing in severe conditions, fire resistance, a pH of nearly 7, freezing and melting resistance, easy movement and transportation, lightweight backfill and finishing, reduction of construction dead load and earthquake lateral load, being perfect sweet soil for plants, and as a material for drainage and filtration.

Uses

Common uses are in concrete blocks, concrete slabs, geotechnical fillings, lightweight concrete, water treatment, hydroponics, aquaponics and hydroculture.



By
T Rajini Devi
Asst. Prof.

WORKSHOPS

Workshop on "Revit , STAAD Pro and Etabs "

Civil Department have organized workshop on **Revit , STAAD Pro and Etabs** for II, III and IV year students from 11.09.2019 to 13.09.2019 by G.Puja Akhila

- On 11.09.2019 workshop is conducted on Revit total 44 students have participated from II year
- On 12.09.2019 workshop is conducted on STAAD Pro total 60 students have participated from III year
- On 13.09.2019 workshop is conducted on **Etabs** total 20 students have participated from IV year

Workshop on " STAAD Pro "

In association with 'CAD and CAM' experts Civil Department have organized 6 days (23.09.2019 to 28.09.2019) workshop on " **STAAD Pro** " for II year students who have registered for ITC STAAD Pro program.



Workshop on "AUTO CAD"

In association with 'CAD and CAM' experts Civil Department have organized 4 days (18.09.2019 to 21.09.2019) workshop on " **AUTO CAD** " for II year students who have registered for ITC AutoCAD program.

AutoCAD is a commercial computer-aided design (CAD) and drafting software application. Developed and marketed by Autodesk, AutoCAD was first released in December 1989 as a desktop app running on microcomputers with internal graphics controllers. Before AutoCAD was introduced, most commercial CAD programs ran on mainframe computers or minicomputers, with each CAD operator (user) working at a separate graphics terminal. Since 2010, AutoCAD was released as a mobile- and web app as well, marketed as AutoCAD 360.

AutoCAD is used in industry, by architects, project managers, engineers, graphic designers, city planners and other professionals. It was supported by 750 training centers worldwide in 1994.



Workshop on " Total Station "

In association with AMIGP ARCHITECHS Civil Department have organized 6 days (23.09.2019 to 28.09.2019) workshop on " **Total Station** " for students who are interested for this program.





PLACEMENTS



S. No	Name of the Student	ID Card Number	Name of the Employer	Designation	Package (LPA)	ON/OFF
1	B Venkatkrishna	168T1A0107	Aliens Group	Executive Trainee	2.4 LPA	On
2	B Chandukumar	168T1A0108	Aliens Group	Executive Trainee	2.4 LPA	On
3	Ch Yamini	168T1A0111	Aliens Group	Executive Trainee	2.4 LPA	On
4	Ch Kiran Kumar	168T1A0115	Aliens Group	Executive Trainee	2.4 LPA	On
5	Chprakhya	168T1A0116	Aliens Group	Executive Trainee	2.4 LPA	On
6	G Neha	168T1A0122	Aliens Group	Executive Trainee	2.4 LPA	On
7	G Venkatesh Nayak	168T1A0126	Aliens Group	Executive Trainee	2.4 LPA	On
8	K Vyshnavi	168T1A0131	Aliens Group	Executive Trainee	2.4 LPA	On
9	K.S.N. Harsha Vadhan	168T1A0132	Aliens Group	Executive Trainee	2.4 LPA	On
10	K Shanmukha Sai	168T1A0135	Aliens Group	Executive Trainee	2.4 LPA	On
11	K Pardhasai	168T1A0140	Aliens Group	Executive Trainee	2.4 LPA	On
12	M Ramya Sri	168T1A0145	Aliens Group	Executive Trainee	2.4 LPA	On
13	M.J.H.N.Bhattu	168T1A0146	Aliens Group	Executive Trainee	2.4 LPA	On
14	Ch Anulatha	178T5A0103	Aliens Group	Executive Trainee	2.4 LPA	On
15	G Raja Prasanna	178T5A0106	Aliens Group	Executive Trainee	2.4 LPA	On
16	Kommathoti Sumanth	178T1A0111	Aliens Group	Executive Trainee	2.4 LPA	On
17	M Ganesh Sai	168T1A0150	Aliens Group	Executive Trainee	2.4 LPA	On
18	P Rajesh	168T1A0164	Aliens Group	Executive Trainee	2.4 LPA	On
19	P Jagadeesh Varma	168T1A0165	Aliens Group	Executive Trainee	2.4 LPA	On
20	P Pavan Kumar	168T1A0166	Aliens Group	Executive Trainee	2.4 LPA	On
21	T Naga Mohith	168T1A0182	Aliens Group	Executive Trainee	2.4 LPA	On
22	U Susmitha	168T1A0185	Aliens Group	Executive Trainee	2.4 LPA	On
23	V Neeraja	168T1A0187	Aliens Group	Executive Trainee	2.4 LPA	On
24	S Anurag	168T1A0197	Aliens Group	Executive Trainee	2.4 LPA	On
25	M Venkata Sai Teja	178T5A0119	Aliens Group	Executive Trainee	2.4 LPA	On
26	P Anusha	178T5A0124	Aliens Group	Executive Trainee	2.4 LPA	On
27	T Siva Prasad	178T5A0130	Aliens Group	Executive Trainee	2.4 LPA	On
28	Potluri Manisha	178T1A0136	Aliens Group	Executive Trainee	2.4 LPA	On

Future of civil engineer

Future Of Civil Engineering In India In The Next Ten Years

STUDENTS ARE UNAWARE OF THE SCOPE AND THE FUTURE OF CIVIL ENGINEERING IN INDIA IN THE NEXT TEN YEARS. SO, LET US DELVE INTO THE UNDERSTANDING OF WHAT THE FUTURE OF CIVIL

In India, whenever one thinks of pursuing a graduation programme, engineering is always on the list. This is because time and again this field has shown how it has grown, adapted to the ever-evolving requirements and given students the knowledge and skills to pursue a fruitful career. Thanks to the increasing demand in the industry and improved scope, this field has branched into Mechanical, Civil, IT, Electronics and Telecommunications and other disciplines. One of these disciplines which stand strong and evergreen is Civil Engineering.

According to the definition, this branch deals with the design, construction and maintenance of manually or naturally-built environments such as roads, bridges, dams, airports, buildings and more. It is the art of applying Mathematics and Science to create a better place for everyone to live in. From stone-made bridges to cable-stayed eight-lane bridges, we have come a long way only because of successful Civil Engineering.

Despite the role this branch plays in the development of our country, many students often prefer opting for other disciplines. This is mainly because students are unaware of the scope and the future of Civil Engineering in India in the next ten years. So, let us delve into the understanding of what the future of Civil Engineering entails.

Demand

According to a report published in The Economic Times, 95 billion sq. ft. is the predicted demand in the real estate and construction industry by 2020. Despite such high demand, the sector lacks sufficient workforce to meet this demand. Based on the report titled "Real Estate and Construction Professionals in India by 2020" by the Royal Institution of Chartered Surveyors, there is a demand-supply gap ranging between 82% and 86% of skilled civil engineers, architects and others. This means our country needs 4 million skilled civil engineers until next year. These are a few statistics that make it clear that there is a massive demand for these professionals in the near future.

Growth

As a country, we are developing faster than ever especially when it comes to infrastructure. Forty years ago nobody would have thought that the commute between Bandra and Worli could have been completed in lesser than 40-50 minutes. Today, we can cover this distance in just eight minutes. This is only possible due to the Bandra-Worli Sea Link (BWSL) constructed in the Arabian sea; built by our civil engineers.

Future of civil engineer

The BSWL is just one of the many examples that show how we are coming up with innovative solutions to meet the changing requirements. The requirement for such modern developments is bound to grow. If students are willing to work on groundbreaking developments, Civil Engineering provides them with a room to grow and a chance to hone their skills.

International market value

The future of Civil Engineering is not just limited to the geographical boundaries of our country. According to a report by Global Market Insights Inc. on GlobeNewswire, the Civil Engineering industry is expected to reach a size of USD 11.72 trillion by 2025. One of the main reasons for such rapid development of this engineering discipline is the rise in population and urbanisation. By completing a programme from one of the best engineering institutes, students can work on sustainable infrastructure solutions, green buildings, and more all over the globe.

Variety

Today, Civil Engineering is not just related to constructing roads, buildings and bridges. Due to the advancement in technology and industry-demand, this branch is further divided into 4-5 types. Civil engineering aspirant can consider leading a career in any one of the engineering niches mentioned below:

- Hydraulic
- Coastal and ocean
- Structural
- Materials
- Urban

These are just a few fields. As we develop, this branch will have a lot more to offer than it did ten years ago.

These are a few points that explain how and why this sector will boom very soon. This field has a lot to offer. All we need to learn is how to make the most of it with the right kind of education and skills. With this unique combination, Civil Engineering aspirants are set for a brighter tomorrow.

