L. J. Institute of Engineering & Technology

LJ Campus, Near Sanand Sarkhej Circle, S.G. Highway
Ahmedabad

Technical Event Report
Department of Civil Engineering

Date of Event
(2nd ,3rd & 4th March 2020)

Place
(L.J Campus, Ahmedabad)

Duration of Event
(9:00 AM to 5:00 PM Each Day)

BE Semester : 8th

No. of Participants : 145 students
(137 UG + 8 PG)

Name of Faculty Coordinators:
Ms. Zalak Bhavsar
(7227979979)

Mr. Vismay Shah
(9726599856)

L.J CIVIL TECKATHON was organized by **Department of Civil Engineering** with a view of expanding practical knowledge, skills and helping in gaining expertise to the student of Final year and Pre-final year of Bachlors of Civil Engineering.

In this 3 days of hands on workshop, over 145 students of B.E and M.E participated. Participants were mainly diveded in to 32 teams consisting of 4-5 members each. This teckathon was desinged as open challenge where students can use and pull out any resource availabe with them like they can search on internet, they can consult any construction professional from industry, they can pull of government guidelines available on their website and what not.

The event was innogurated by Mr. Dinesh Patel Founder of Deep Builders in the presence of Dr. Manish Shah sir (Vice President, LJK Trust), Dr. Anil Suthar Sir (Director, LJIET), Mr. Rohit Patel Sir (Advisor, LJIET). Mr. Dinesh Patel motivated participants with is pool of knwoledge, current market trends, what things being a civil engineer you must know, etc. The innoguration ceremony was futher driven by the speech of Dr. Manish Shah sir with full of energy giving more enthusiasm and vision of making participants more compatable with the current industry demand. He also announced prize money for top 3 teams for teckathon.

In this TECKATHON, participants were given real-time problem related 3 aspect of civil engineering which can help them in their professional career. The 1st part was designing & planning of a residential building based on various information given such as Plot Area, Basic requirements, Location, Nearby road details, etc. Teams were having challenge to plan and design according to the norms of government guideline and they must fit the building requirements allocated in the problem. Participants were asked to submit a drawing (Hand Drawn or CAD Drawing) consisting Plan, Elevation and Section.

After the planning part the 2nd phase was of Structural Design of the same module which they have prepared. The purpose of this problem was designed so as teams can learn realtime load calculations coming on building, How to caclulate and comply them with IS Codes and they were asked to propose a desing of footing, Size of Column, No. of Column, Size of Beams, No. of Beams with their reinforcement detailing with all the available resources. Participants

were aksed to submit a drawing (Hand Drawn or CAD or STAAD) consisting the structural details.

The last component of the TECKATHON was to prepare the detailed estimate for the same problem. Here, Teams have to calculate the Quantity of each and every component of the desinged building by them. Motive behind this module was to aware the student about practicle point of view and various thumb-rules of quantity estimation, also students got knowlegde of various current prevailing rates of material from the market.

To guide and direct the students, 26 construction professionals were invited to TECKATHON event in various slots. Each mentor was allocated various teams to look after so as each team gets visited by minimum of 2 mentors. Visiting mentors had boost teams moral by evaluating their work and directing them into right directions. Participants was given the facility of Tea & Coffee throught all the days of TECKATHON and followed by lunch organized by Deparment of Civil Engineering.

Top 3 teams were awarded by prize money of 5,000 Rs., 3,000 Rs. & 2,000 Rs. respectively. Here are the Winners of LJ Civil Teckathon event:

Sr. No.	Rank	Name of Student	Enrollment No.	Prize Amount
1		PITHADIYA KINJAL HITENDRABHAI	160320106078	
2		PRAJAPATI JAY	160320106079	
3	1st	BHADRA VIDHIBEN MOHANLAL	160320106503	5000/-
4		PANDYA AKASH PARIMALKUMAR	160320106057	
5		THAKKAR SHREYANSH	160320106113	
6		TRIVEDI SHAIMITI	160320106556	
7		SHAH MAITRA	160320106099	
8	2nd	PATEL KRUTIBEN NANDLAL	160320106066	3000/-
9		SHAH PRACHI	160320106551	
10		RAVAL JAHNAVI NARESHKUMAR	160320106087	
11		SHAH DHRUVAM	160320106095	
12		BHAVYA JAISWAL	170323106506	
13	3rd	GANDHI HANISH NIKESH	160320106024	2000/-
14		HARDI BHARADIYA	170323106002	
15		VYAS DEEP	160320106559	