



Newsletter

(December 2021)



JNEC's Department of Civil Engineering

❖ Change in Engineering Education

The highest education is that which does not merely give us information but makes our life in harmony with all existence – Rabindranath Tagore.

As mentioned in the above quote given by Rabindranath Tagore, along with information practical know-how and hands on experience is the need of the hour. In order to implement this, NAYEE TALEEM concept is introduced in the Department of Civil Engineering, JNEC, MGM University to modify the curriculum and make it more practical oriented.

Under NAYEE TALEEM project, one of the objectives is to introduce students towards onsite experience, along with the base of theoretical knowledge. This shall enhance their technical as well professional skills.

WHY PRACTICAL KNOWLEDGE IS IMPORTANT?

Engineering is still considered as the best career choice for science students but it is equally challenging to stand out in the race. One has to be versatile, well trained and skilled to secure a job. Lot of things are only learned through doing and experiencing; no matter how hard you try to learn that through theoretical means. That is why it is important for the students to go for a practical training. For students, it is a high time to gain site exposure and boost their technical knowledge for better understanding of the subject. The benefits of practical training can be; developing interdisciplinary knowledge, site exposure, development of interpersonal skills and increase in self-confidence. It also has an added advantage of making students more presentable and enhances their resume which helps them to be different than other.

NAYEE TALEEM has modified the curriculum to achieve the above-mentioned objective. Curriculum has put more practical oriented approach along with frequent site visits. Site visits are conducted once in 15 days so that students can correlate theoretical knowledge gained in classrooms with onsite observations. Site visit report is to be prepared by students and presented among faculty members. This activity helps them to be more presentable, communicative and clear their doubts. Apart from this, live project is to be given to the students for learning software's related to structural engineering and construction management.

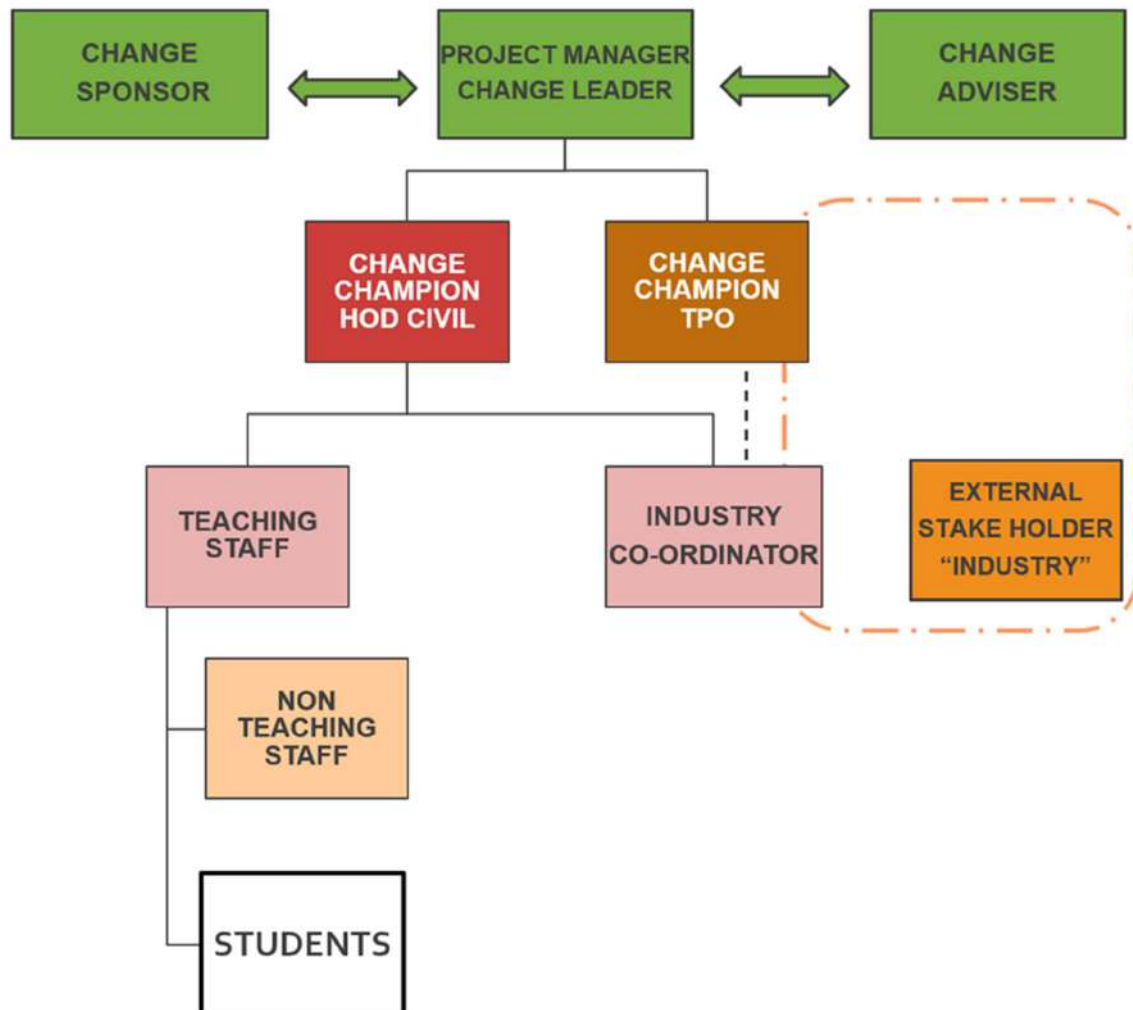
This approach will enhance the quality of professional education, wherein engineers orient themselves towards problem solving attitude. It will improve their hands on abilities and train students in analysing and solving problems. It will help them in terms of employability and lifelong learning.

-- Prof. R. A. Patil & Prof. A. S. Pawar, MGM University

❖ Program kick-off

The program was kicked off on 1st June 2021. The first phase of the program is scheduled for one year and shall continue the set practices from there onwards till June 2024. During the first one year of the program; the second-year students of CIVIL DEPARTMENT admitted for the academic year 2021-22, shall be undergoing the revived & evolving syllabus as per the skills-based lesson plans and pedagogy. **The Project charter** is put in place & circulated among all stake holders for entire overview of the project.

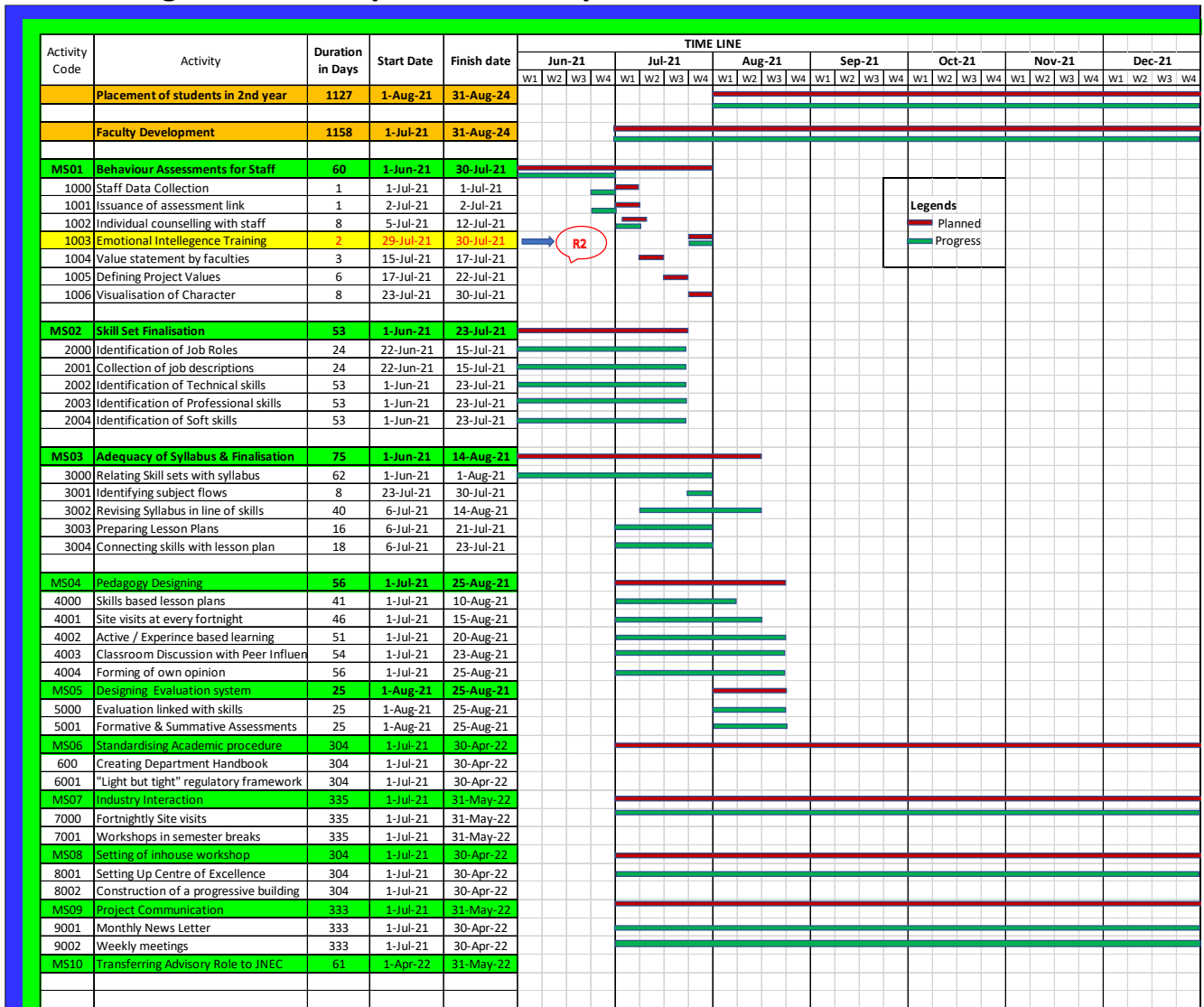
➤ Key Stake Holders:



➤ Project Objectives

- ✓ Transforming behaviour traits of stakeholders to produce synergy of collaboration among.
- ✓ Creating academic leadership which shall handhold & lead students till desired outcome.
- ✓ Adoption of evolving curriculum as demanded by industry & employability skills.
- ✓ Fostering strategic alliance with industries for knowledge sharing, training & employment.
- ✓ To produce self-motivated, employable, and ethical engineers who become torch bearers.

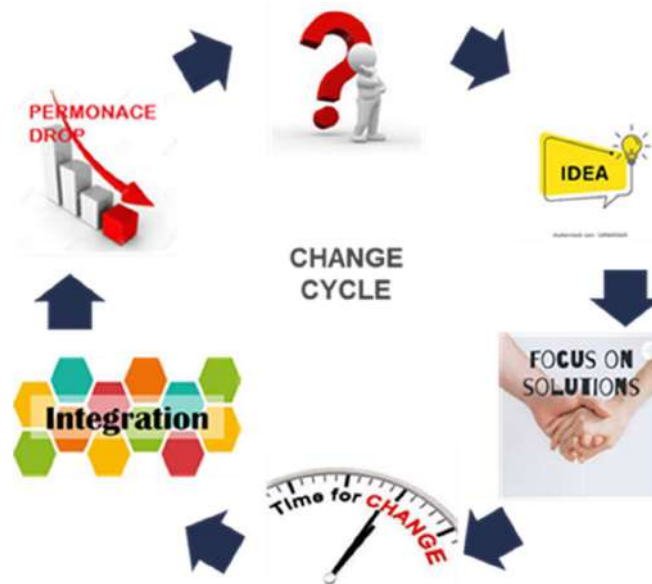
➤ Program Status Updates & Completed Milestones



Key Activities started:

1. Pedagogy Implementation
2. Designing Evaluation System
3. Standardising Academic Procedure
4. Industry Interaction
5. Setting of in-house workshops
6. Interactive session with Vikas Patil regarding Project Management Body of Knowledge (PMBOK) Guide.

➤ Implementation Roadmap



➤ Execution of Change

A first key to unlock that door remains civil engineers' education and training. In order to close the gap between the required skills by industry and what is being offered in degree program, the change is concentrated at three levels.

First one is **Adequacy of Syllabus** based on skills set identified,

Second is the way engineering is being taught i.e., **Pedagogy** and

Third is **Behavioural Aspects** coupled with Value Orientation.

These changes are being executed stepwise as mentioned in the summary milestones. One of the activities is assigning the group of students to the concerned faculty who in turn will be responsible for the entire period of the project in terms of the objective deliveries.

➤ Reinforcing Change

While making a change is difficult, sustaining a change can be even more difficult. Therefore, reinforcement is such a critical component of successful change. It encompasses the mechanisms and approaches so that the new way stays in place. Successful reinforcement shall be taken up through celebrations of achievements, rewards and recognition, feedback system for staff & students, corrective actions, grievance redressal, visible performance measurement & accountability mechanisms.

➤ People Management

A formal approach for managing change beginning with the leadership team (Change Leaders/ change champions) and then engaging key stakeholders (change agents) is being adopted through Behaviour assessments, Counselling sessions, Faculty development Programs, Training need Analysis, Leadership Trainings. Ownership is often best created by involving people in identifying problems and crafting solutions.

➤ Heads-up / what's next

In January 2022 we have planned for

1. Pedagogy Implementation
2. Designing Evaluation System
3. Standardising Academic Procedure
4. Industry Interaction
5. Setting of in-house workshops
6. Interactive session with Vikas Patil regarding Project Management Body of Knowledge (PMBOK) Guide.
7. HR Interventions

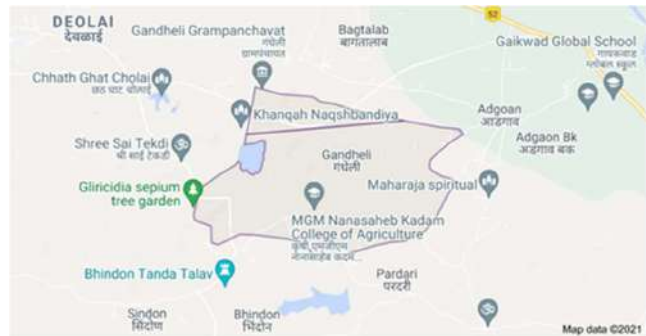
➤ Moments of the Month

➤ #1 Meeting with Chancellor on 7th December 2021



Progress review meeting was conducted and H.O.D madam presented the progress of the project To Chancellor sir & Principal sir. All the departmental heads, Dean, Mr. Vipul Patil, Mr. Vikas Patil and staff members Prof D P patil & Prof J R Ramchandani were present. It was reported that the Implementation phase of the project is over and as we are moving to Reinforcing phase the project has some challenges and those shall be addressed by team Project Manager shortly.

➤ #2 Surveying Project Visit to Gandheli on 10th December 2021



AIM: Contour plan (Block Contour) of given area (One full size drawing sheet)

APPARATUS: Dumpy level, prismatic compass, chain 20m, 30m, metallic Tape, ranging rod, Leveling staff, pegs line.

CONTOURING: The elevation and depression the undulations of the surface of the ground is shown as map by interaction of level surface with by means of contour.

➤ #3 Byju's Campus Drive conducted on 7th December 2021

Campus Recruitment Drive was conducted at JNEC campus by "Byju's- The Learning App" for the post of "Trainee-Subject Matter Expert" on 7th December 2021. Three students from B-Tech-II, 2022 Batch have been recruited by Byju during this campus drive.

- Tathe Sanket Anil
- Salve Pradnya Damodhar
- Shaikh Numan Shaikh Ahmed Murtuza



Tathe Sanket Anil

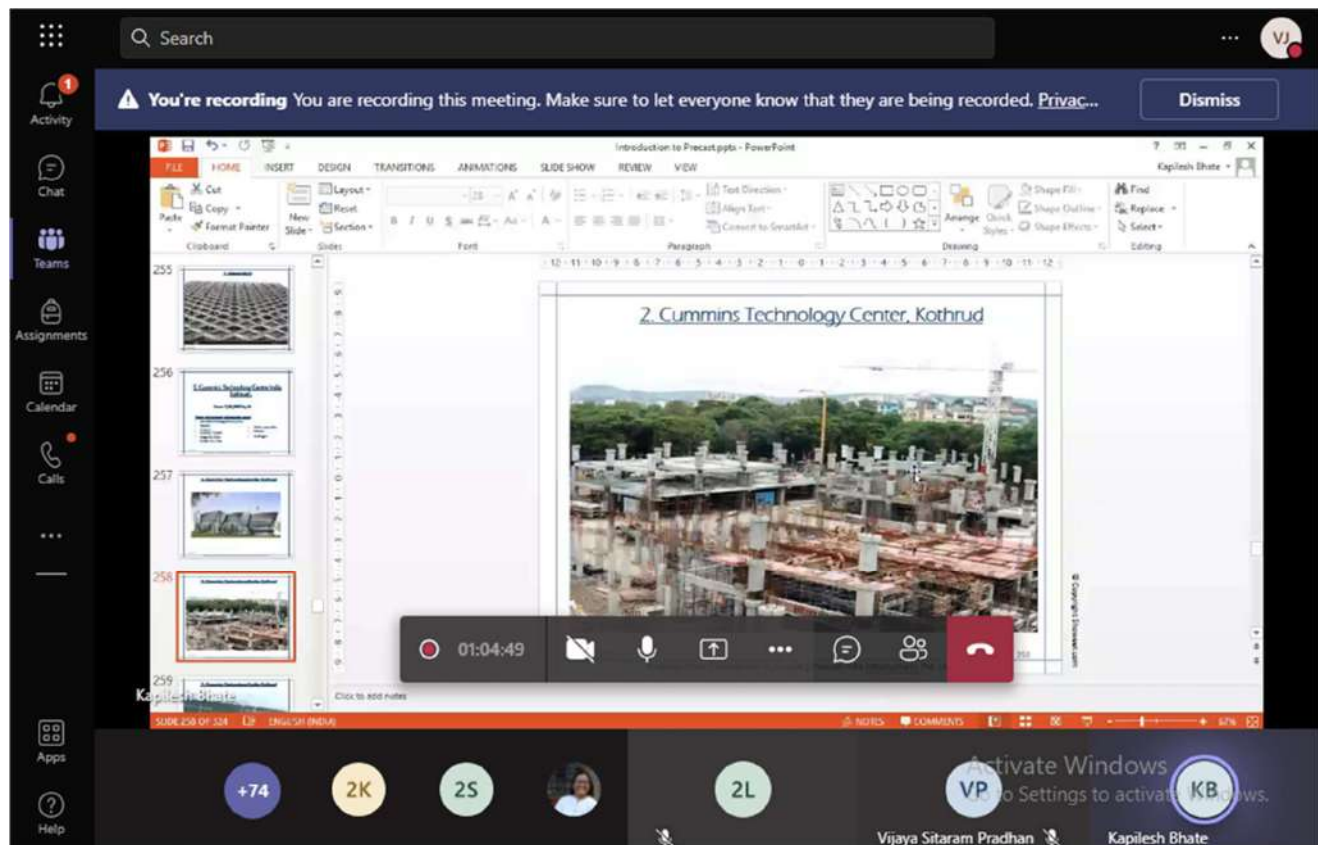


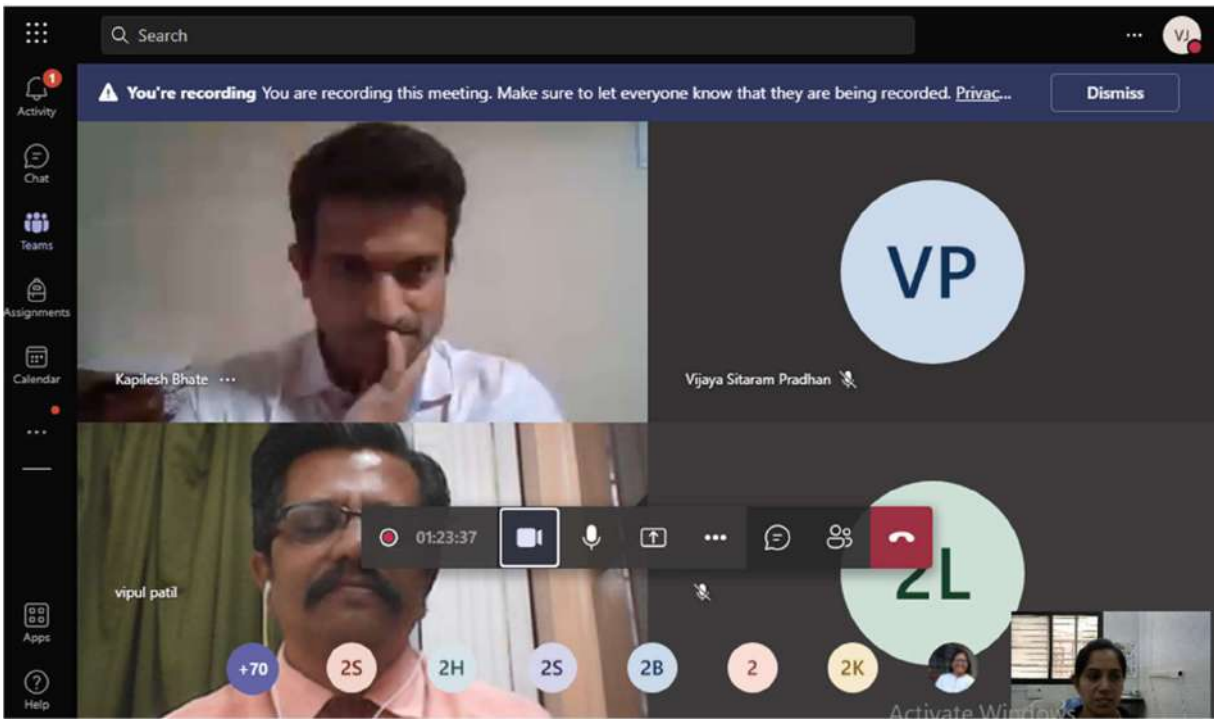
Salve Pradnya Damodhar



Shaikh Numan Shaikh Ahmed Murtuza

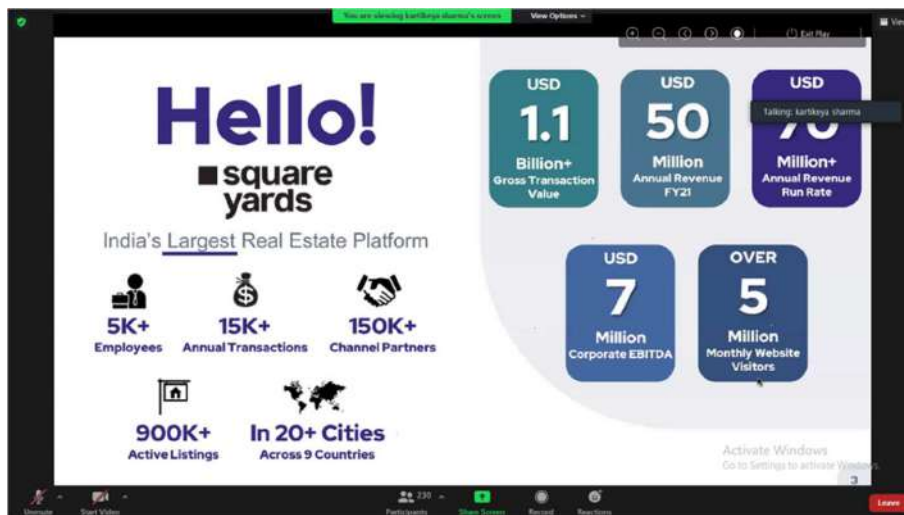
➤ #4 Lecture Talk by Mr. Kalpesh Bhatte conducted On 24th December 2021





With the changing face of realty sector in Indian market, the change of construction methodology is inevitable. Precast Concrete Technology, can facilitate both speed and quality of the construction and at the same time exploits the advantages that these large-scale projects offer in terms of volume turnover and the repetitions. In this scenario Mr. Kapilesh Bhate sir, Director of Precast India Infrastructures Pvt Ltd Pune, was invited to deliver a guest lecture. Along with the design operations, manufacturing, transportation and execution he explained the elegant benefits such as high speed, good quality and neat construction with less wastage. Today the precast concrete industry is highly customer focussed. Many innovative technologies have been adopted and practiced in the industry. Thermal, acoustic, seismic resistant technologies and beautiful pleasing architectural precast facades to the building are already available and practiced by PIPL. Precast technology can be more popularised in the Indian construction industry with such innovative products and construction method.

➤ **#5 Pre-Placement Talk by Mr. Kartikeya Sharma on 24th December 2021**



A Pre-Placement Talk was organized in Co-Ordinance of T&P Office and Prof D P PATIL by Mr Kartikeya Sharma (Associate Vice President, SQUARE YARDS) on 24th December at 11 am. The motto of this online session was to orient the students of BTECH 2021 and 2022 Batch regarding Placement drive by SQUARE YARDS at JNEC Camp.

➤ **#6 FACULTY ASSESSMENTTO COUNSELLING....TO TRAINING....TO SELF ACTUALISATION**

As the project is entering into the second phase which is "Reinforcing Change". Successful reinforcement shall be taken up through celebrations of achievements, rewards and recognition, feedback system for staff & students, corrective actions, grievance redressal, visible performance measurement& accountability mechanisms. As a part of this stage counsellors Dr Vishal Sangale & Dr Ruta Savarkar were in campus again to interact with department faculties.



Faculties were made to talk the challenges they are facing in order to give their 100 % productivity which is the basis of this project. These challenges shall be conveyed to management putting them as a kind of external and internal motivations required. As we are bound with our defined objectives, we were counselled to adhere to these objectives. One way to remind ourselves of these objectives through an affirmative process is Emotional Freedom Technique which works on the principle of auto stimulation and effect of hard wiring through repeated positive affirmations.

