# CHAROTARUNIVERSITY OF SCIENCE AND TECHNOLOGY
## Chandubhai S Patel Institute of Technology
### Manubhai Shivabhai Patel Department of Civil Engineering

**ACTION TAKEN ON FEEDBACK FROM STAKEHOLDERS (Year 2015 - 16)**

Suggestions given by stakeholders were considered and following decisions were made.

- Experts from industries and academics are invited for the talk to aware the students about real field scenario. **(Annexure – II)**
- As per requirement of the course, faculty have introduced various assessment tools under pedagogy development. **(Annexure – I)**
- Field visits are organized to enhance the practical knowledge of students. **(Annexure –III)**
- Syllabus revision was carried out by taking suggestions from industry experts. Laboratory Manuals are updated regularly. **(Annexure – I)**

Vedanti M.V.

Ms. Mitali Vedanti
Assistant Professor

Dr. V. R. Panchal,
Professor and Head,
M S Patel Department of Civil Engineering,
CSPIT, CHARUSAT

Annexure - I

## Minutes – 12th Meeting of Board of Studies of Civil Department

**Date : 3rd September, 2016, Saturday**

**Time : 11:30 am**

**Venue : Civil Engg. Dept.**

The 21th meeting of the Board of Studies, Civil Department, Faculty of Technology, Charotar University of Science and Technology (CHARUSAT) was held on 3rd Sept, 2016 as per schedule.

Following members were present:

| | | | |
|---|---|---|---|
| 1. | Dr. A V Thomas | Chairman | Professor & Head, Department of Civil Engineering, CSPIT |
| 2. | Dr. Vijay Panchal | Internal Member | Professor, Department of Civil Engineering, CSPIT |
| 3. | Ms. Hiteshri Shastri | Internal Member | Asst. Professor, Department of Civil Engineering, CSPIT |
| 4. | Ms. Neha Chauhan | Internal Member | Asst. Professor, Department of Civil Engineering, CSPIT |
| 5. | Ms. Dipali Patel | Internal Member | Asst. Professor, Department of Civil Engineering, CSPIT |
| 6. | Dr. N. C. Shah, | ExternalExpert | Director, Uka Tarsadiya University, Bardoli |
| 7. | Dr. H. M. Patel | ExternalExpert | Head, Department of Civil Engineering, The M S University of Baroda, Vadodara |
| 8. | Dr. Sanjay Dhiman | ExternalExpert | Associate Professor, BVM, VV Nagar |
| 9. | Dr. Jay Shukla | ExternalExpert | Asst. General Manager, L&T (S&L), Vadodara |
| 10. | Mr. Ravikiran Vayidya | External Expert | Principal Engineer, Geodynamics, Vadodara |
| 11. | Prof. H. J. Dalwadi | Invitee | Retired professor BVM engineering college, Visiting professor, Department of Civil Engineering, CSPIT |

Members absent due to Pre-occupation:

| | | | |
|---|---|---|---|
| 1. | Prof D. G. Panchal, | External Expert | Dean, Faculty of Technology, D D University, Nadiad. |
| 2. | Dr. N J Mistry | External Expert | Professor (Retd), Department of Civil Engineering, SV National Institute of Technology, Surat |

**Initiation:**

Dr. A. V. Thomas welcomed all the members of Board of Studies and introduced all the members & Invitees of 12th Board of Studies of department of Civil Engineering.

**Item 1. Agenda of the BOS meeting**

Dr. Thomas formally disclosed and narrated the agenda of the 12th BOS meeting before the committee members.

**Proceedings & Resolutions:-**

**Item 2. Approval of Minutes of the 11th BOS Meeting**

Minutes of 11th Meeting of Board of Studies Board of Studies Faculty of Technology & Engineering were circulated to BOS members in advance. Chairman outlined the summary and the actions taken on the received suggestions of 11th Meeting of Board of Studies and requested board member to give inputs if any.

No comments were received on circulation of Minutes, so minutes of meetings were confirmed.

**Item 3: Review of Results of Academic year 2015-16**

Dr. Thomas presented University Exam Result of Academic Year 2015-16 for the consideration of the Board Members. Based on the suggestions received from the 11th BOS, the results were presented both semester wise and course wise to the board. The Board deliberated more on the courses which were having more than 30% failure. Following suggestions were given by the Board to improve the results in future.

1. Review of the syllabus/exam scheme/Pedagogy at suitable level to identify anomalies (if any)
2. Co-relate the student feedback of individual subject teachers with students performance in different sections

3. An observatory depletion of SY BTech result is observed, which is mainly due to the inclusion of the diploma to degree students with the 3rd semester.
4. Complete the loop on result analysis, e.g. interaction with the students and the subject faculty by the HOD, remedial measures to overcome the same.
5. Remedial internal examinations can be further taken up to make up to improve the overall subject results.

**Item 4: Review of Question Papers Scrutiny Report 2014-15**

Dr. Thomas presented the Question Paper Review Report of the Year 2014-15 and the Board deliberated on the issue. Majority of the question Papers reviewed by the subject experts were of "Good" to "Very Good" Category and few were of "Excellent Category". The external experts of the Board specifically commented that the standard of Question Papers is of very good category. The following three suggestions are given by the committee members.

1. The current question paper raring scheme to be changed from current scheme 5 points for excellent to 1 point for poor.
2. The percentage weightage of easy, moderate and difficult questions with the university question paper can be included with the question paper evaluation form.
3. The committee suggested and agreed on preparation of a guideline for the question paper setting for the civil engineering department.

**Item 5.1 : Consideration and Approval of Revised CBCS based BTech (Civil Engg.) Course Structure**

Based on the UGC recommendation, CHARUSAT has instructed Faculty of Technology to implement Choice Based Credit System (CBCS) from Academic Year 2016-17. Accordingly, course structure for BTech (Civil Engg.) was prepared by a group of Senior Faculty Members from Civil Engg. and Dr. Thomas presented the same to the Board for consideration and approval. Firstly the objectives and UGC guidelines for CBCS is briefly presented and discussed by Dr. Thomas. The structure of BTech Civil Engineering is presented (Teaching & Examination Scheme) and briefly outlined the structure. Board approved the same with one suggestion.

1. The teaching scheme of MA 241 can have tutorial session for practice.

Dr. Thomas agreed to convey the suggestion to Mathematics BOS. Further, The Board approved BTech- Civil Engg. **(Annexure -1)**

subject to incorporating the above 2 suggestions

**Item 5.2 : Consideration and Approval of CBCS based MTech (Civil- Structural Engg.) Course Structure**

Board approved the same with no suggestions. **(Annexure -2)**

**Item 6: Consideration and Approval new CBCS based BTech 2nd year (Civil Engg.) Syllabus**

Based on the approved 2nd year CBCS course structure for BTech (Civil Engg.) the syllabus for following subject was prepared by a group of Senior Faculty Members and the subject teachers in consultation with Dr. Thomas. The same is presented to the Board for consideration and approval. Board deliberated on the proposed new BTech syllabus and approved the same with following suggestions:

1. Fluid Mechnics-1 syllabus may be revisited to reduce the contents on Pumps and Turbine and the same may be included in any one of the WRE subjects at higher levels.
2. The subject Geology for civil engineers may be modifies to include contents of geo-informatics, eg. GIS and remote sensing etc.

The Board approved detailed SY syllabus of BTech- Civil Engg. Subject to incorporating the above 2 suggestions **(Annexure -3)**

**Item 7: Approval of Panel of Examiners**

The List of Panel of Examiners for Civil Engineering was presented to the Board by Dr. Thomas and the same was approved by the Board. The Panel is in **Annexure 4.**

**Item 8: Pedagogy suggest improvement for modification**

The current Pedagogy of different subjects is presented to the board members by Dr. Thomas. The following suggestions are given by the members.

1. Frequent and repeated examinations make burden on the students and may be avoided
2. Innovative pedagogy like group projects, software learning may be adopted at MTech level.
3. Finishing course supported by Industry should be included

**Item 9: NBA Accreditation**

Dr. Thomas briefly provided information regarding obtaining the NBA accreditation as a University policy. However the department could not go for the NBA accreditation in the

**Item 10: Examiner feedback review**

A brief overview of the process of taking examiners feedback was given to the committee members by Dr. Thomas. The forms were shown to the panel. Re-designing of the feedback form was suggested by the panel members. The same is approved by the chairman.

**Item 11: New Programmes**

The suggestions on prospected engineering courses that may be taken up with the proposed new engineering college on the campus were invited by Dr. Thomas. The following suggestions are gvne by the committee members.

1. The newly proposed engineering Institute may focuses on starting up only the new courses that are not available at CSPIT.
2. At many instances, super specialization courses at BTech level was observed as an unsuccessful experiment. The university may focus on operating on the fundamental engineering BTechs and the specialized MTech courses.

***As there was no other item, the meeting was ended with a vote of thanks by the Chairman.***



**Dr. A. V. Thomas**

**Chairman, BoS**

Annexure - II

# SOCIETY OF CIVIL ENGINEERING

**Department of Civil Engineering**
Chandubhai S. Patel Institute of Technology
Charusat- Changa 388421
Phone: (+91) 2697 245041
Email: Sce.Civil@Charusat.ac.in

Last Date for registartion 1st October 2015

For Registartion www.cspitcivil.com

## One day seminar on "NANOTECHNOLOGY FOR CONSTRUCTION"

**Date:**
5th October, 2015, Monday

**Place:**
RPCP Auditorium

**Time:**
10.00 AM to 4.30 PM

About the seminar:

Society of Civil Engineering, CHARUSAT in collaboration with Zydex Industries, Vadodara is organising a one day Seminar cum Demonstration of technological development in the application of Nanotechnology in Construction". The present seminar is intended to share the information of nanotechnology based chemicals and its application in road and building constructions. The afternoon section will consist of live demonstration of chemical application on building and road surfaces for effective waterproofing.

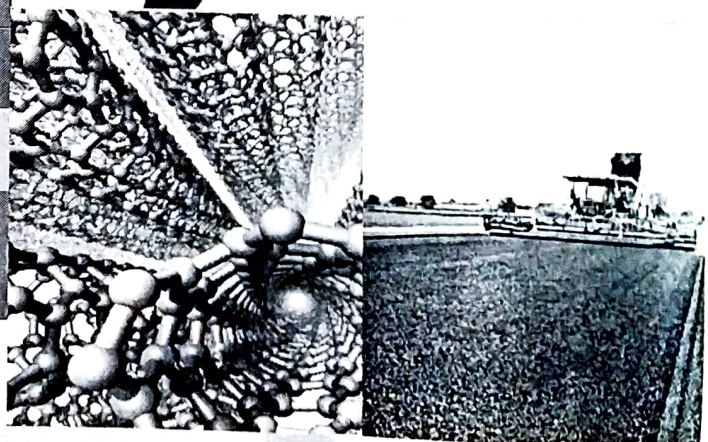
About Zydex

Zydex Industries, are pioneered in inventing unique patented nanotechnology based environment friendly products for roads and building industry. The Construction chemicals developed by the Industry can help to create pothole free waterproof chemically bonded paved & unpaved roads with a combination of unique product range. Zydex Nanotechnologies waterproof the sub-base, quick prime the stones bases, do waterproof tack coat and chemically modify aggregates to bond with bitumen for superior coating, better workability and compaction. The technology is cost economical. The products of Zydex are widely accepted and marketed in the USA, Canada, France, Germany, Russia, Turkey, Ghana, Nigeria, India, Peru, Madagascar, Kenya etc.
Zydex are recipients of 2013 IRF Global Road Achievement Award (GRAA) for Research awarded by International Road Federation (IRF).

Topics of seminar:

| Time | Topic | Expert |
|---|---|---|
| 10.00 AM to 10.30 AM | Introduction | Mr. Shaji Mathew VP, Institutional Business & International Marketing |
| 10.30 AM to | Technical Talk | Dr. Prakash Mehta Predident, R&D, Zydex |
| 1.30 PM to | Lunch Break | |
| 01.30 PM to 03.30 PM | Live Practical demonstration | Mr. Anupam Shil DGM Technical Services) & Ashish Upadhyaya, GM, Institutional Business |

Zydex®



Who can participate:
Preferably, third & fourth year B.Tech and M.Tech Students.

Registration fee:
SCE Members Rs. 25/- (Including Lunch/High Tea and Seminar materials) + Rs. 100 Security deposit (will be reimbursed after workshop)
NON SCE Members, Rs. 50/- (Including Lunch/High Tea and Seminar materials) + Rs. 100 Security deposit (will be reimbursed after workshop).

For more information:
Dr. A. V Thomas Dr. Prabhin Sukumaran Mr. Jay Bhavsar Mr. Prakash Dabhi Luv Patel Naisarg Dixit



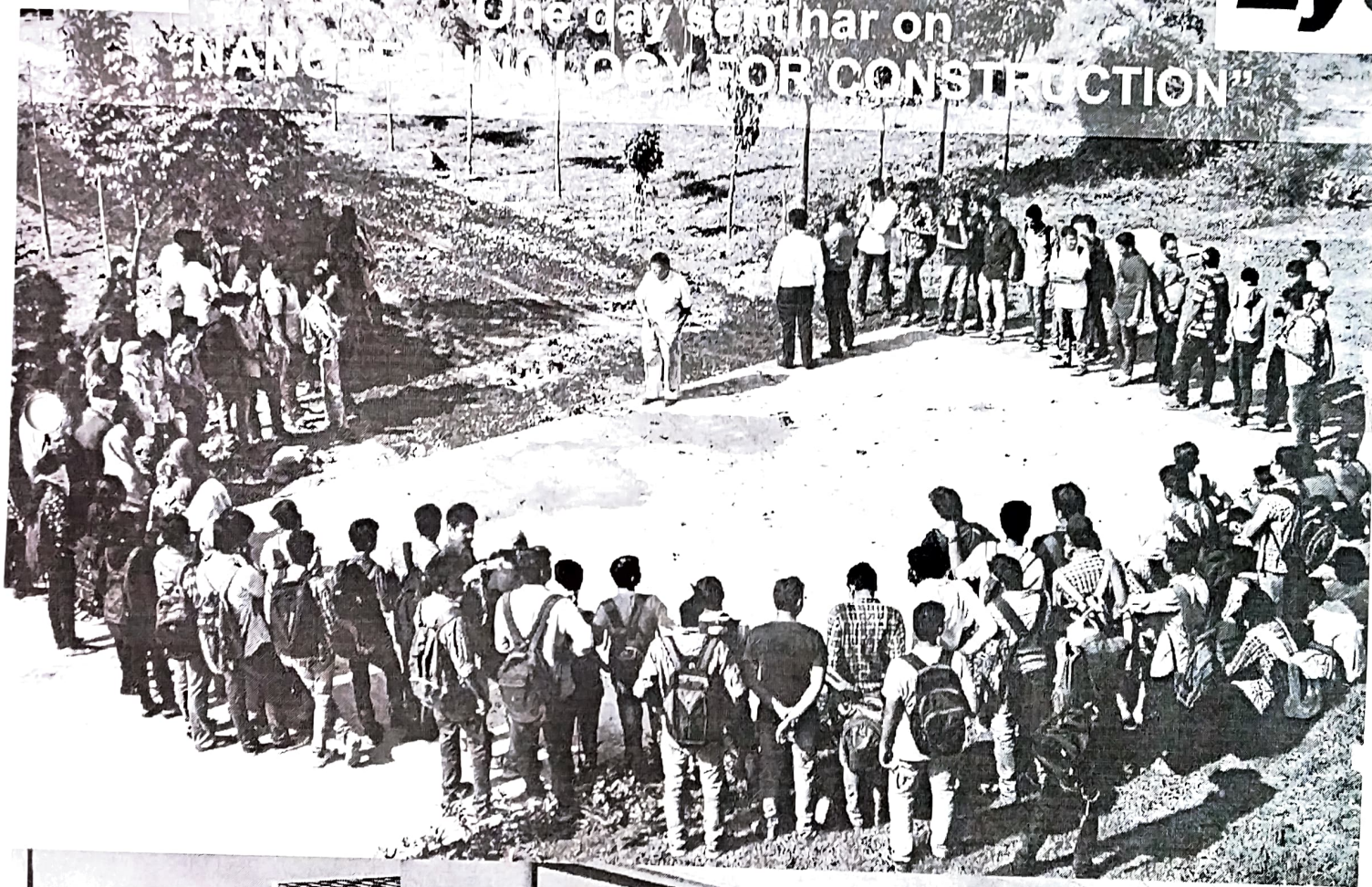
# ...Y OF CIVIL ENGINEERING

Manubhai Shivabhai Patel Department of Civil Engineering
Chandubhai S. Patel Institute of Technology
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ARUSAT
ERSITY OF SCIENCE & TECHNOLOGY

Zy

One day seminar on
"NAN[illegible] FOR CONSTRUCTION"







# Zydex Green Road Technology

**International-OMAN** ACH / INST / INTL-016

## First Unpaved Green Road Construction at Oman

### The Challenge

A luxurious villa project of 304 units by Zain Property Development near Al-Seeb beachfront at Oman had its first 4 phases, out of 6, completed. The linking road from highway to the estate was owned by the government and was unpaved, subjected to heavily traffic movement (40 ton trailers). This resulted in generation of dust, creating issues related to:

a) Safety - Due to impaired visibility
b) Road Longevity - Due to erosive loss of surfacing / binding materials
c) Health - For the inhabitants already occupying villas of first 4 phases
d) Maintenance - Requiring cleaning of windows and exteriors as a result of dust accumulation

To resolve this situation the developer had the only option to make a conventional paved road at their own cost.

### Project Details:

| | |
|---|---|
| Name: | Zain Property Development (Dar-Al-Zain Project Link Road) |
| Associate: | City Home Oman |
| Products: | Terrasil, Zycobond |
| Period: | September 2015 |

Zydex® SOLUTION

For constructing a road of 250m x 7m = 1750m²

- ❑ 360 kgs. of Terrasil
- ❑ 180 kgs. of Zycobond
- ❑ 6300 kgs. of Cement
- ❑ 10,000 gallons Water (Potable)

TerraSil™

### APPLICATION METHODOLOGY

1) Soil was brought in and laid over the base upto approx. 20 cm height



2) It was levelled and compacted to get a height of 10cm



3) Terrasil & Zycobond were added in a potable water tanker and then mixed properly



4) The soil was scarified and this solution was added till OMC



5) This wet soil was properly rotovated



ZycoBond

Zydex®

Zydex Industries Pvt. Ltd., 61, Gotri Sevasi-Road, Vadodara - 390 021, India info@zydexindustries.com www.zydexindustries.com

# Zydex Green Road Technology

International

ACH / INST / INTL-016

## First Unpaved Green Road Construction at Oman

### APPLICATION METHODOLOGY

6) Then Cement was added into the rotovated soil



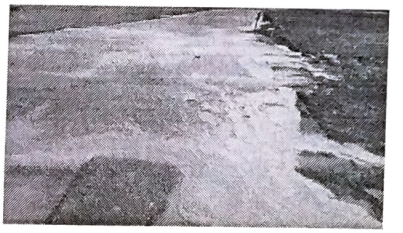
7) The soil was once again properly rotovated



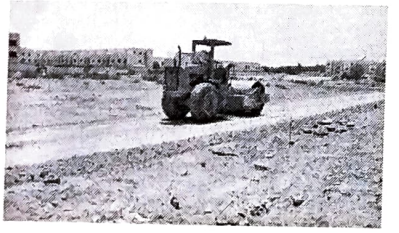
8) Then the soil was compacted



9) Once again Terrasil + Zycobond diluted water was sprayed till saturation



10) The road was again compacted



TerraSil™

11) The side shoulders were compacted with portable 1 ton roller



12) The surface was again saturated with Terrasil + Zycobond diluted water and then small aggregates were spread over it



13) This surface was finally again compacted



14) After 15 days spray saturation will be repeated




- ❑ Reduces health hazards in the vicinity due to dust
- ❑ Problem of dust thrown up from a passing vehicle reducing visibility is controlled
- ❑ Reduces 'Washboarding' (surface corrugations) causing loss of control
- ❑ Protects from skidding on mud after rain
- ❑ Low Maintenance of the road
- ❑ Long lasting water-resistant unpaved road

ZycoBond

Zydex®

Zydex Industries Pvt. Ltd., 61, Gotri Sevasi-Road, Vadodara - 390 021, India info@zydexindustries.com www.zydexindustries.com

Professor & Head (Civil Engineering)
C. S. Patel Institute of Technology
Charotar University of Science & Technology
CHANGA - 388 421. ANAND (Gujarat)

# Annexure - III

**Charotar University of Science and Technology [CHARUSAT]**
**Faculty of Technology and Engineering**
**M. S. Patel Department of Civil Engineering**

**Industrial / Field Visit Details**

| Sr. No. | Place | Date | Subject | Topics Covered | Semester / Batch |
|---|---|---|---|---|---|
| **Year 2015-16** | | | | | |
| 1 | Site visist to Railway College and Railway Nava yard, Vadodara | 8th August 2015 | Basic Transportation systems | Railway Engineering | TY B.Tech - 5th Sem |
| 2 | Site visist to Railway College and Railway Nava yard, Vadodara | 22nd August 2015 | Basic Transportation systems | Railway Engineering | TY B.Tech - 5th Sem |
| 3 | Site visit to Mundra Port, Adani Power plant and Adani Oil refinery | 17-18 Sep 2015 | Basic Transportation systems | Dock and Harbour engineering | TY B.Tech - 5th Sem Div 2 |
| 4 | Site visit to Mundra Port, Adani Power plant and Adani Oil refinery | 30 Sep - 1st Oct 2015 | Basic Transportation systems | Dock and Harbour engineering | TY B.Tech - 5th Sem Div 1 |
| 5 | Visit to Berger Paints factory, Vidhyanagar | 11/30/2015 | Structural components and design | Design of structures II Construction Technology | Final Year |
| 6 | Industrial visit to Kalpataru Power Transmission Pvt. Ltd | 11-04-2016 | Design of Tall Structures | Types of Transmission Towers, Analysis and Design of towers, Installation, Demostrations, Test Beds, Software used for design | Mtech 1st Year |

# CHAROTARUNIVERSITY OF SCIENCE AND TECHNOLOGY
## Chandubhai S Patel Institute of Technology
### Manubhai Shivabhai Patel Department of Civil Engineering

## ACTION TAKEN ON FEEDBACK FROM STAKEHOLDERS (Year 2016 - 17)

Suggestions given by stakeholders were considered and following actions have been taken.

- Choice Based Credit System (CBCS) was implemented from Year 2016-17, in which new courses are included in the curriculum as elective courses, which will give freedom for selecting the subjects. **(Annexure – I)**
- Experts from industries are invited for the talk to aware the students about real field scenario. **(Annexure – II)**
- As per requirement of the subject, faculty can introduce various assessment tools under pedagogy development as per the course requirements. Innovative pedagogy like group projects, software learning may be adopted. **(Annexure – I)**
- Implementation of virtual laboratories will be explored by the faculty members to enhance teaching –learning. **(Annexure – I)**
- Site visits are organized to enhance the practical knowledge of students. **(Annexure – III)**
- More practical exposure is given to the students by placing them in good industries for internship. **(Annexure – I)**

Vedanti M.U.

Ms. Mitali Vedanti
Assistant Professor

Dr. V. R. Panchal,
Professor and Head,
M S Patel Department of Civil Engineering,
CSPIT, CHARUSAT

## Minutes – 14th Meeting of Board of Studies of Civil Engineering

**Date : 26th August 2017, Saturday**

**Time : 10:30 am**

**Venue: Civil Engineering Department, CSPIT, CHARUSAT Campus**

The 14th meeting of the Board of Studies (BOS), Civil Engineering, Faculty of Technology and Engineering, Charotar University of Science and Technology (CHARUSAT) was held as per schedule.

Following members were present:

| | | | |
|---|---|---|---|
| 1. | Dr. V. R. Panchal | Chairman | Professor and Head, Department of Civil Engineering, CSPIT |
| 2. | Dr. Hiteshri Shastri | Internal Member | Asst. Professor, Department of Civil Engineering, CSPIT |
| 3. | Ms. Neha Chauhan | Internal Member | Asst. Professor, Department of Civil Engineering, CSPIT |
| 4. | Ms. Dipali Patel | Internal Member | Asst. Professor, Department of Civil Engineering, CSPIT |
| 5. | Dr. N. C. Shah | External Expert | Director, Uka Tarsadiya University, Bardoli |
| 6. | Dr. H. M. Patel | External Expert | Head, Department of Civil Engineering, Faculty of Technology and Engineering, The M. S. University of Baroda, Vadodara |
| 7. | Prof. D. G. Panchal | External Expert | Dean, Faculty of Technology, D. D. University, Nadiad |
| 8. | Dr. N. J. Mistry | External Expert | Professor (Retd.), Department of Civil Engineering, S. V. National Institute of Technology, Surat |
| 9. | Dr. H. J. Dalwadi | Invitee | Visiting professor, Department of Civil Engineering, CSPIT |
| 10. | Mr. Vijay Safaya | Invitee | Chemical Engineer, Department of Civil Engineering, CSPIT |

Following members could not remain present due to pre-occupation:

| | | | |
|---|---|---|---|
| 1. | Dr. Sanjay Dhiman | External Expert | Associate Professor, Civil Engineering Department, B. V. M. College of Engineering, V. V. Nagar |
| 2. | Dr. Jay Shukla | External Expert | Asst. General Manager, L&T (S&L), Vadodara |
| 3. | Mr. Ravikiran Vayidya | External Expert | Principal Engineer, Geodynamics, Vadodara |
| 4. | Mr. Manoj Bhavsar | External Expert | Deputy General Manager, Global Post Tensioning Solutions Pvt. Ltd., Vadodara |

**Initiation:**

Chairman welcomed all the members of BOS and invitees and introduced them and initiated the proceedings by taking up the agenda for discussion by members.

**PROCEEDINGS AND RESOLUTIONS:**

**Agenda no. 14.01: For Confirmation:** Approval of Minutes of the 13th BOS Meeting

**Proceeding No. 14.01**

Minutes of 13th Meeting of Board of Studies, Faculty of Technology & Engineering were circulated to BOS members in advance. Chairman outlined the summary and the actions taken on the received suggestions of 13th Meeting of Board of Studies and invited further comments.

**Resolution No. 14.01**

No comments were received on circulation of Minutes, so minutes of meetings were confirmed. The same is attached as **Annexure-I**.

**Agenda No. 14.02: For Discussion:** Review of results of Academic year 2016-17

**Proceeding No. 14.02**

Chairman presented the University Exam Results of the Academic Year 2016-17 semester wise and course wise to the Board members.

**Resolution No.14.02**

The Board deliberated on the University Exam Results of the Academic Year 2016-17. The same is attached as **Annexure-II.** For the courses having more than 10% students' failure, following suggestions were given to improve the results in future.

1. A unit test may be conducted on every Saturday after the completion of one month of teaching.
2. Review of the syllabus/teaching scheme/examination scheme/Pedagogy may be carried out at suitable level to identify anomalies (if any).
3. The depletion of results of S.Y. B. Tech students was observed, which is mainly due to the inclusion of the Diploma to Degree students in the 3rd Semester.
4. Backlogs can be reduced by allowing detained students to attend theory classes of subjects in which they have failed.
5. Evaluation of the students should be done on the basis of their analytical skills, conceptual understanding, thinking and application capability rather than testing their memory strength.
6. More practical exposure should be given to the students by placing them in reputed industries for training during their summer vacation.
7. In few subjects, books approved by the AICTE were suggested for faculty reference.

**Agenda No. 14.03: For Discussion:** Review of question papers scrutiny report 2016-17

**Proceeding No. 14.03**

Chairman presented the question paper review report of the year 2016-17.

**Resolution No. 14.03**

Board members deliberated on the report which is attached herewith as **Annexure-III.** It was noted that majority of the question papers reviewed by the subject experts were of **"Good"** to **"Very Good"** Category and few were of **"Excellent Category"**. The external experts of the Board were of the opinion that the standard of question papers is generally of very good category. The following suggestion was given by the members.

1. To overcome grammatical mistakes in the question papers, Faculty Development Program for teachers, especially for English language, may be organised.

**Agenda No. 14.04: For Approval:** Consideration and Approval of Revised CBCS based B. Tech (Civil Engineering) Course Structure

**Proceeding No. 14.04**

Based on the UGC recommendation, CHARUSAT had instructed Faculty of Technology to implement Choice Based Credit System (CBCS) from Academic Year 2016-17. Chairman presented revised B. Tech course structure of Civil Engineering (CBCS).

**Resolution No. 14.04**

Members deliberated on the revised B. Tech course structure of the Civil Engineering (CBCS). The revised B. Tech course structure of the Civil Engineering (CBCS) was approved and attached as **Annexure-IV**.

**Agenda No. 14.05: For Approval:** Consideration and Approval of Revised CBCS based M. Tech (Civil-Structural Engineering) Course Structure

**Proceeding No. 14.05**

Chairman presented revised M. Tech course structure of Civil Engineering (CBCS).

**Resolution No. 14.05**

Members deliberated on the revised CBCS based M Tech (Civil-Structural Engineering) Course Structure. The revised CBCS based M. Tech (Civil-Structural Engineering) Course Structure was approved and attached as **Annexure-V**.

**Agenda No. 14.06: For Approval:** Consideration and Approval of new CBCS based B. Tech 3rd year (Civil Engineering) syllabus

**Proceeding No. 14.06**

Based on the approved 3rd year CBCS course structure for B. Tech (Civil Engineering) the syllabi for subjects was prepared by a group of senior faculty members and the subject teachers in consultation with Professor and Head, Department of Civil Engineering, CSPIT. Chairman presented CBCS based B. Tech 3rd year (Civil Engineering) syllabus.

**Resolution No. 14.06**

Members deliberated on the proposed CBCS based B. Tech 3rd year (Civil Engineering) syllabus and following suggestions were given:

1. Fluid Mechanics - II (CL372) syllabus may be revised to remove the Compressible flow and hydraulic machinery should be given higher weightage.
2. In Concrete Technology (CL342) syllabus, self-compacting concrete may be included.

3. In Structural Analysis-III (CL378), weightage given to different units may be revised and list of experiments in Structural Analysis-II (CL341) and Structural Analysis-III (CL378) may be added.
4. Total contact hours/week of revised B. Tech and M. Tech CBCS course structure should be reduced to 33 hours from 36 hours.

The Board approved detailed T. Y. B. Tech Civil Engineering syllabus (CBCS) after incorporating the above suggestions are attached as **Annexure - VI.**

**Agenda No. 14.07: For Approval:** Approval of panel of examiners

**Proceeding No. 14.07**

The List of panel of examiners for Civil Engineering was presented by the Chairman.

**Resolution No. 14.07**

The List of panel of examiners for Civil Engineering was approved by the Board. The Panel of Examiners for Civil Engineering is attached as **Annexure - VII.**

**Agenda No. 14.08: For Discussion:** Pedagogy & Suggest improvement for modification

**Proceeding No. 14.08**

The current Pedagogy of different subjects was presented by the Chairman.

**Resolution No. 14.08**

Members deliberated on the Pedagogy. The same is attached as **Annexure -VIII.** Members emphasized on the following:

1. MHRD in collaboration with IITs have developed virtual labs and made them freely available to Engineering Institutions. All advanced Technological Institutions like IITs, NITs, etc. have adopted the concept of virtual laboratories in their teaching learning system. Therefore, implementation of virtual laboratories may be explored by the faculty members.
2. Innovative pedagogy like group projects, software learning may be adopted at M. Tech level.

**Agenda No. 14.09: For information:** NBA Accreditation

**Proceeding No. 14.09**

Chairman briefly provided information regarding obtaining the NBA accreditation as a University policy. However, the Civil Engineering Department can't go for the NBA

accreditation in the current academic year due to low faculty-student ratio in the past academic years.

**Resolution No. 14.09**

Members suggested to improve the faculty-student ratio before going for the NBA Accreditation.

**Agenda No. 14.10: For Discussion:** Implementation of Outcome Based Education (OBE)

**Proceeding No. 14.10**

Chairman briefly provided information regarding the OBE and invited suggestions from expert members.

**Resolution No. 14.10**

The following suggestions were given by the board members:

1. Emphasis should be given on the project work.
2. Theory and practical should go simultaneously.
3. Faculty and students should be involved in live projects with industries.
4. Application oriented teaching should be practiced.

**Agenda No. 14.11: For Discussion:** Examiner feedback review

**Proceeding No. 14.11**

A brief overview of the process of taking examiners feedback was given to the board members by the Chairman. The existing feedback forms were shown to the board members along with proposed feedback form.

**Resolution No. 14.11**

Re-designing of the proposed feedback form was suggested by the board members. The feedback form after incorporating suggestions given by board members is attached as **Annexure-IX**.

**Agenda No. 14.12: For Discussion:** New Programmes

**Proceeding No. 14.12**

Chairman invited suggestions on proposed engineering courses that may be taken up in future.

**Resolution No. 14.12**

The following suggestions were given by the board members.

1. In general, super specialization courses at B. Tech level are observed as an unsuccessful experiment. The university should focus on operating on the fundamental engineering B. Tech. and the specialized M. Tech courses.
2. Board members suggested to start a new course in M. Tech. (Environmental Engineering)/ Construction Engineering and Management.

**Agenda No. 14.13: For Discussion:** Massive Open Online Courses (MOOCs) on SWAYAM Platform

**Proceeding No. 14.13**

Chairman gave a brief overview about the university initiative about the SWAYAM courses and informed that UGC has also issued UGC Regulations 2016, to allow credit transfer up to 20% on the basis of MOOCs on SWAYAM.

**Resolution No. 14.13**

Board members suggested to identify the MOOCs related to Civil Engineering from SWAYAM Platform, which can be offered to the students of Civil Engineering and put the same before Board of Studies for approval.

***As there was no other item, the meeting was concluded with a vote of thanks by the Chairman.***

**Dr. Vijay Panchal**
**Chairman**
**Board of Studies (Civil Engineering)**

CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY • CSPIT CHANGA

# CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT), CHANGA – 388 421

## Chandubhai S. Patel Institute of Technology

### M. S. Patel Department of Civil Engineering

# Event Report

| | | |
|---|---|---|
| **Name of Event** | : | Expert Lecture on 'Non Destructive Testing on Piles' |
| **Date and Time of Event** | : | 11th April 2017, 12:00 Noon -02:00 PM |
| **Event coordinator** | : | Prakash Dabhi, Mehul Katakiya, Pinki Sharma, Sraswati Pathariya |
| **Resource person details (if any):** | | Ravi Kiran Vaidya , Managing Director of Geo-Dynamics, Vadodara |

| Sr. No. | Name of the resource person | Organization of resource person |
|---|---|---|
| 1 | Ravi Kiran Vaidya | Geo-Dynamics |

**Event Schedule:**

| Date | Time | Activity |
|---|---|---|
| 11/04/2017 | 12:00 Noon -02:00 PM | Expert Lecture |

**Summary of the Event (Maximum 200 words):**

Non-destructive testing on field piles to evaluate construction quality and bearing capacity of foundation. It includes integrity testing and dynamics pile testing. Mr. Ravi Kiran Vaidya has a wide experience in the field of Non Destructive Testing of Pile Foundations & Super Structures". M S Patel Department of Civil engineering organized the expert lecture in order to tap Mr. Dr. Ravi Kiran Vaidya's expertise in the field for the students of 3rd year and students of masters.

**Registration fee ( if any):** NIL

**No. of Participants:** 133

**List of Participants: (Find Enclosure)**

**Amount sanctioned by CSPIT/CHARUSAT:**

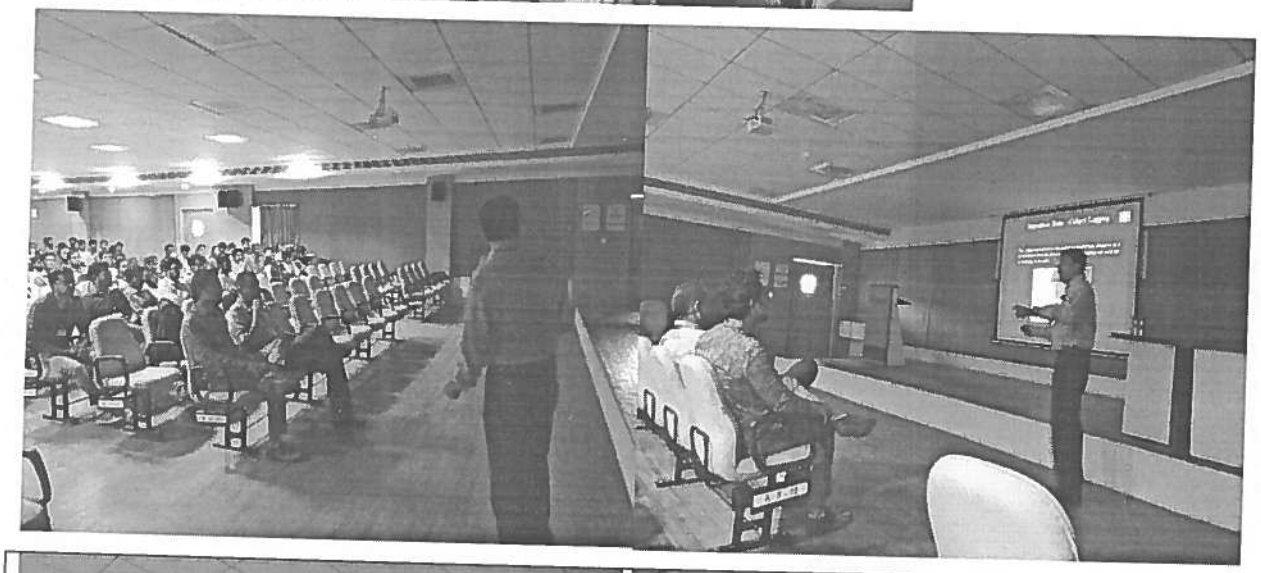
**Accounts details:**

| Sr. No. | Details | Rupees |
|---|---|---|
| **Income** | | |
| 1. | | NIL |
| 2. | | |
| 3. | | |
| **Expenses** | | |
| 1. | Remuneration of 1 hour lecture | 1000 |
| 2. | Transportation allowance(V.V.Nagar to Changa) | 300 |
| **Total** | | 1300 |

**Overall impact of workshop:** Very Good

**Photographs of the event with captions (at least six photographs):**







**Coordinator Sign:**

Prakash Dabhi
Mehul Katakiya
Pinki Sharma
Saraswati Pathariya

**Head of Department Sign:**

**Attendance**

# CHARUSAT UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT), CHANGA – 388 421

## Chandubhai S. Patel Institute of Technology

### M. S. Patel Department of Civil Engineering

# Event Report

Name of Event : **Guest Lecture on "Global Climate Change and Carbon Capture Storage"**

Date and Time of Event : **23/01/2017 (12.30 to 2.30 pm)**

Event coordinator : Dr.V.R.Panchal, Shweta Sharma and Mitali Vedanti

Resource person details (if any):

| Sr. No. | Name of the resource person | Organization of resource person |
|---|---|---|
| 01 | **Mr. Ghanshyam Patel** | CIFC Pvt. Ltd, New Delhi. |

Event Schedule:

| Date | Time | Activity |
|---|---|---|
| 23rd January 2017 | 12.30-12.40 | Welcome Speech |
| | 12.40 pm to 2.00 pm | Lecture on Global Climate Change and Carbon Capture Storage followed by discussion |

**Summary of the Event (Maximum 200 words):**

Earth's average temperature has risen by 1.5°F over the past century, and is projected to rise another 0.5 to 8.6°F over the next hundred years. Rising global temperatures have been accompanied by changes in weather and climate. Many places have seen changes in rainfall, resulting in more floods, droughts, or intense rain, as well as more frequent and severe heat waves. By looking it in mind, Society of Civil Engineering organized a guest lecture on Global Climate Change and Carbon Capture Storage on 23rd January 2017. The expert from the field shared various new techniques related to carbon storage and revealed numerous facts related to climate change and carbon storage.

**Registration fee ( if any): Nil**

**No. and List of Participants: Attached**

**Amount sanctioned by CSPIT/CHARUSAT: Nil**

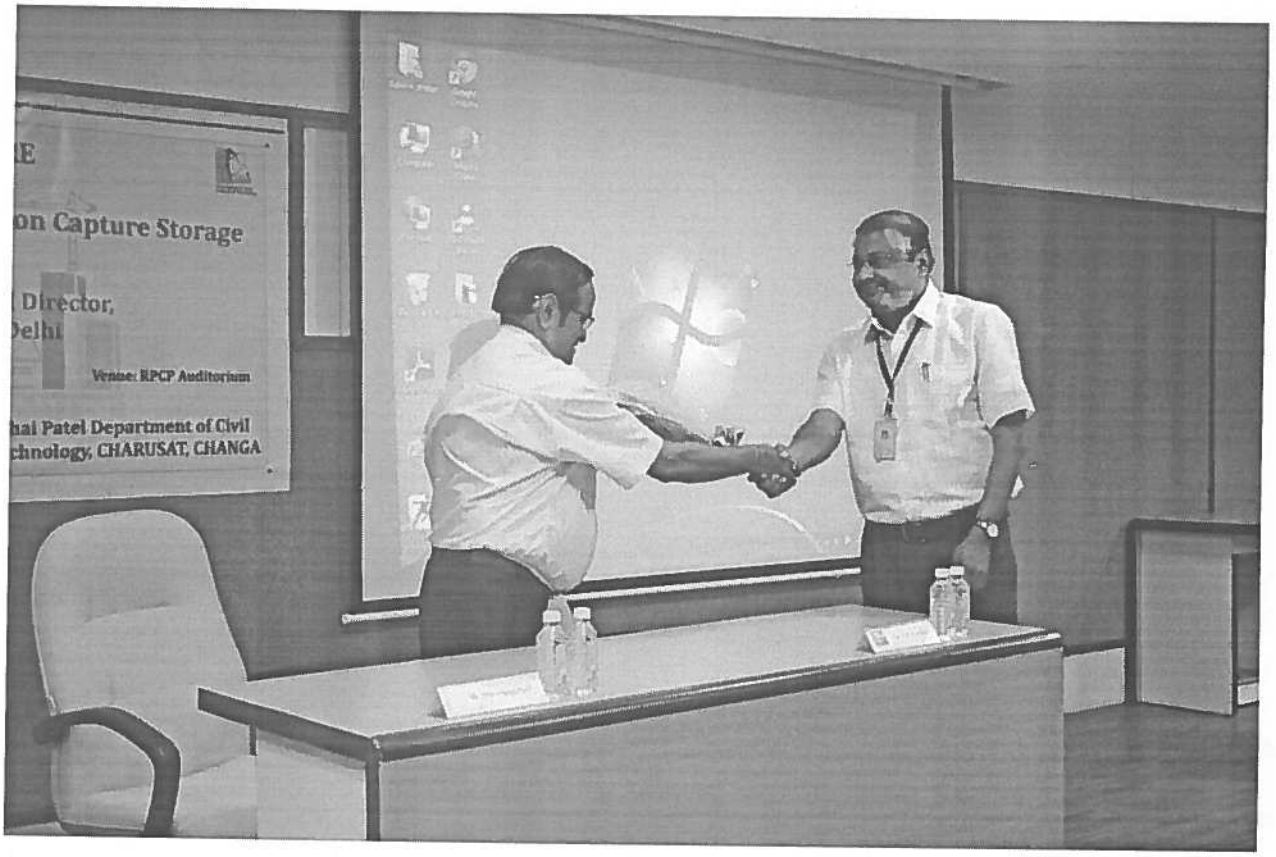
**Accounts details:**

| Sr. No | Details | Rs |
|---|---|---|
| **Expenses** | | |
| 1 | Banner | 228.00 |
| 2 | Honorarium | 2000.00 |
| 3 | Flower bouquet | 300.00 |
| | **Total** | **2528.00** |
| | **Fund taken from SCE** | **2528.00** |

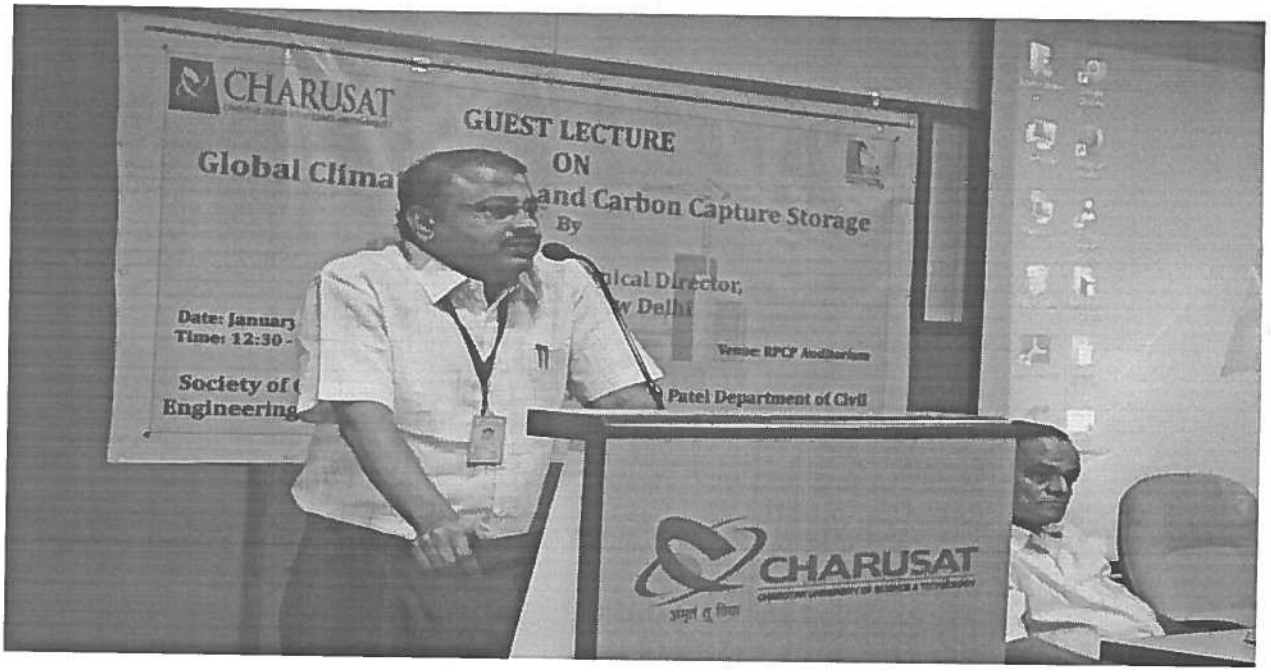
**Overall impact of workshop:** Excellent

**Photographs of the event with captions :**

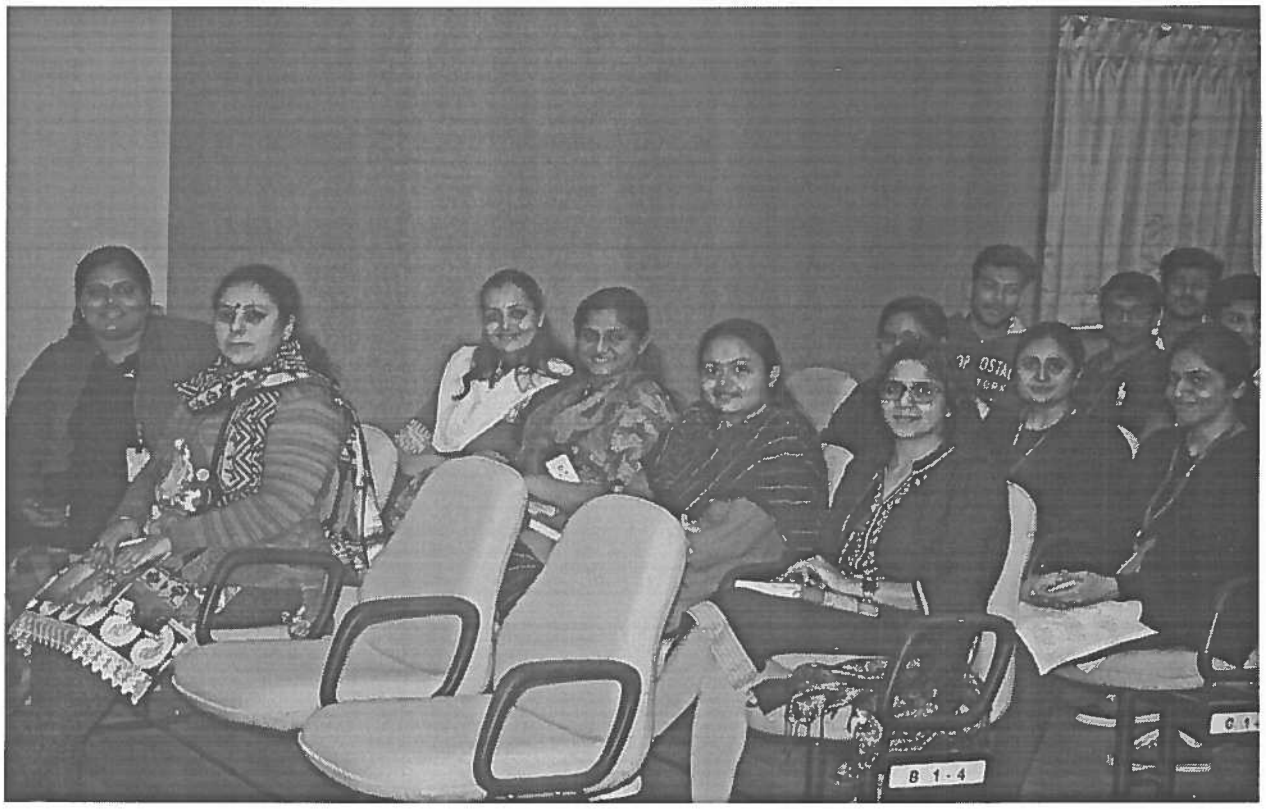
1) Welcome of guest by HOD sir



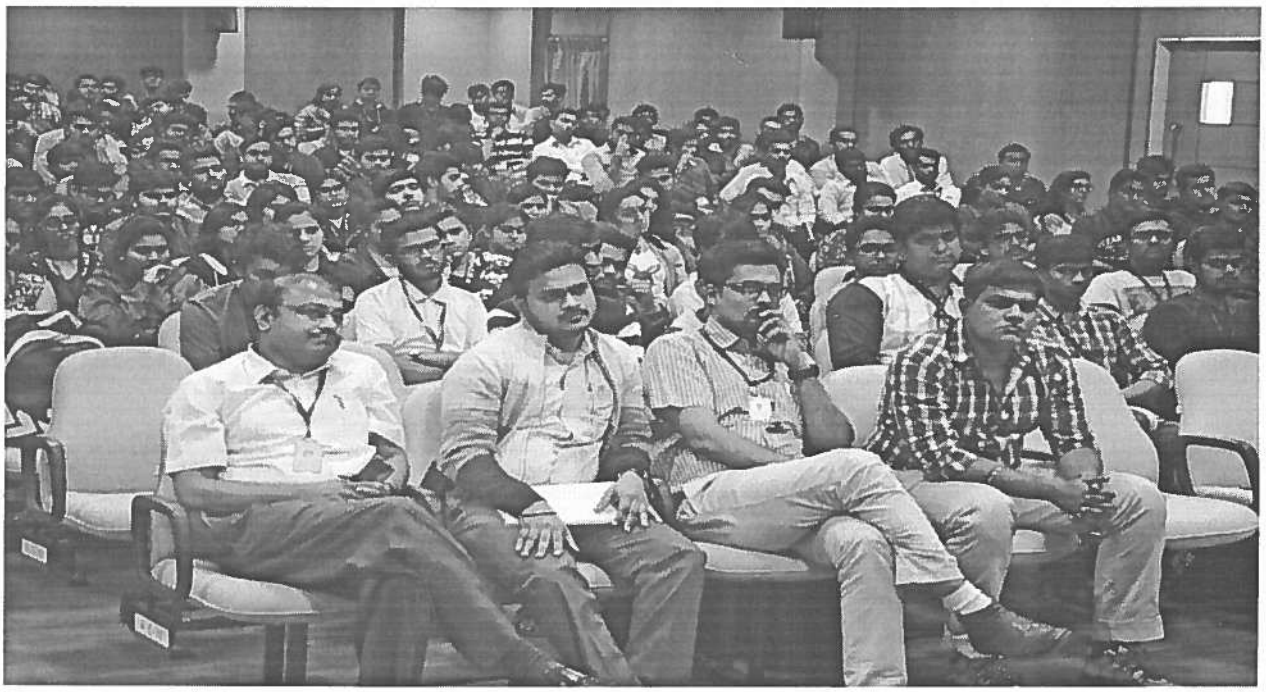

2) Welcome address by HOD sir



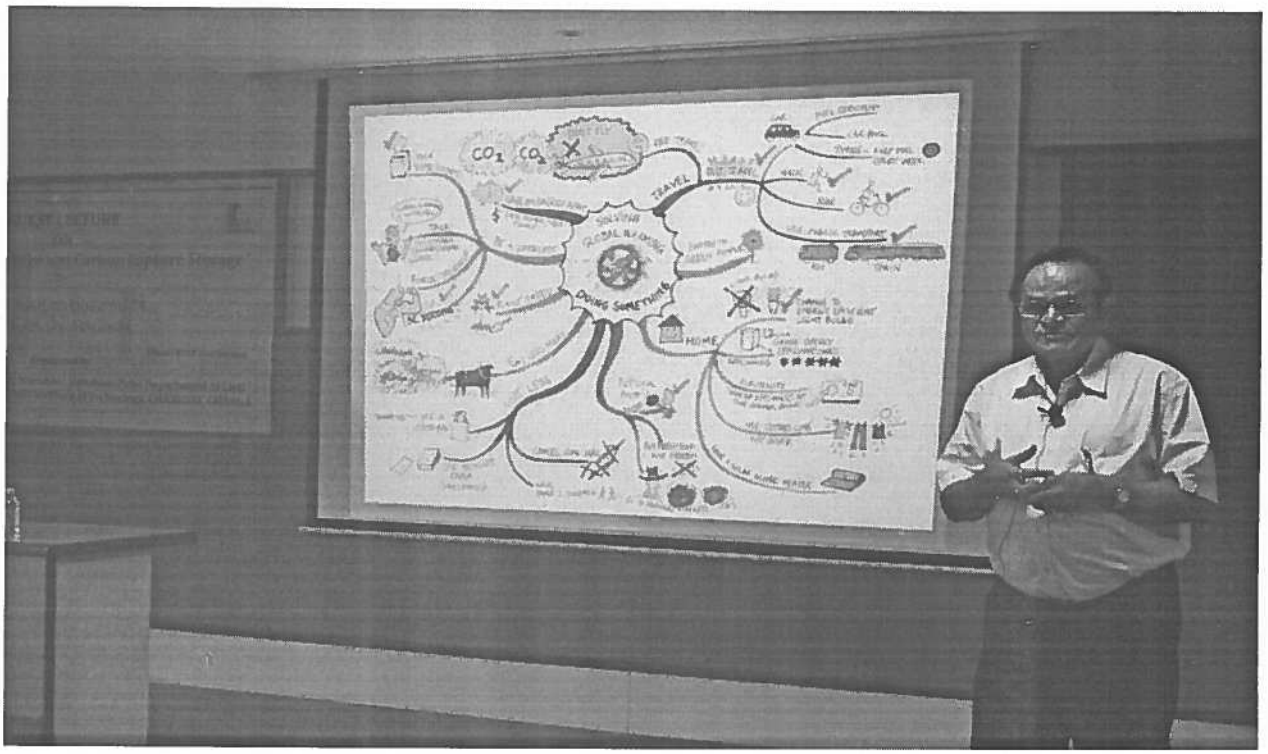
3) Faculties of Civil Department



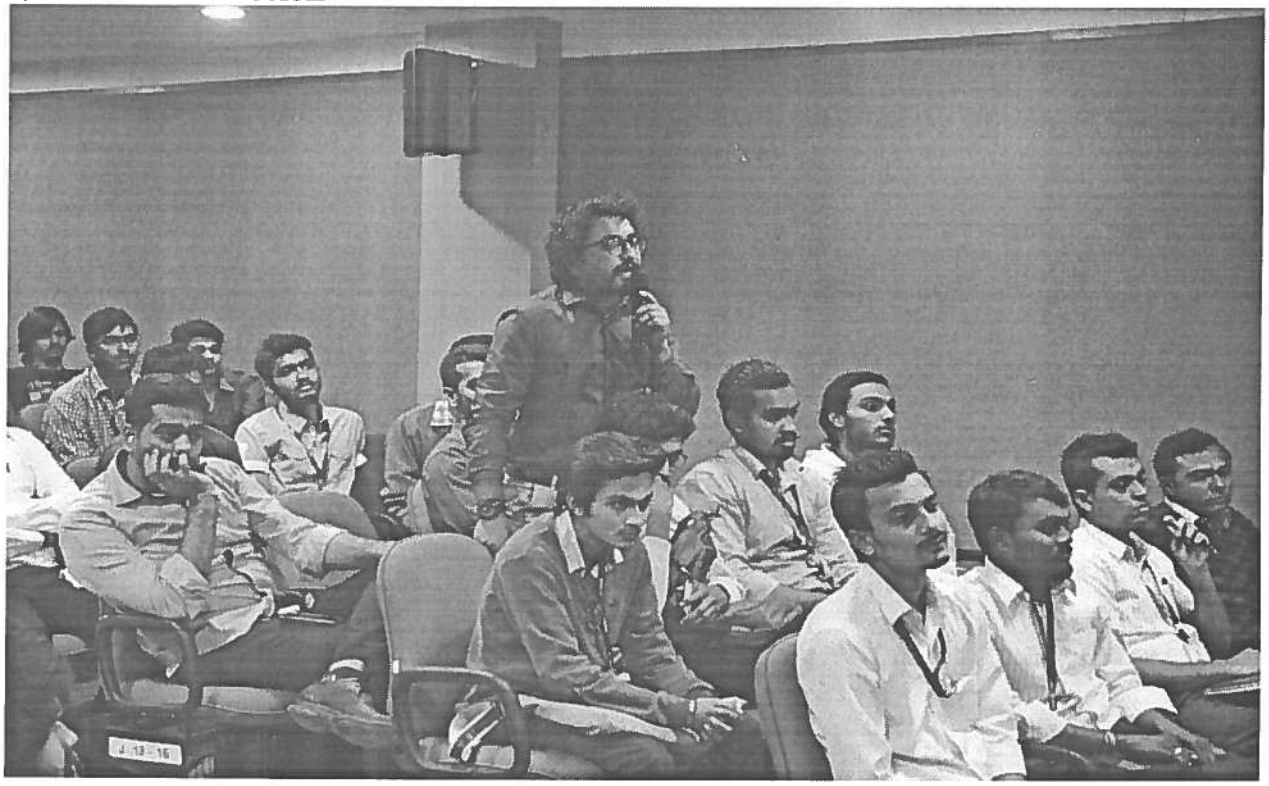
4) Participants of Guest Lecture



5) Guest person with his presentation




6) Discussion Session



# CHARUSAT UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT), CHANGA – 388 421

## Chandubhai S. Patel Institute of Technology

### M. S. Patel Department of Civil Engineering

# Event Report

**Name of Event : Visit to Sardar Sarovar Dam and Statue of Unity**

**Date and Time of Event : 13/04/2017**

**Event coordinator : Mr. Jay Bhavsar, Ms.Neha Chauhan**

**Resource person details (if any): Not Applicable**

| Sr. No. | Name of the resource person | Organization of resource person |
|---|---|---|
| - | - | - |

**Event Schedule:**

| Date | Time | Session | Activity |
|---|---|---|---|
| 13/4/2017 | 7:00am to 6:00pm | • Visit of Statue of Unity<br>• Visit to Sardar Sarovar Dam<br>• Visit to River Bed Power House<br>• Visit to Canal Head Power House | - |

**Summary of the Event (Maximum 200 words):**

A visit of M.Tech Civil Structural Engineering students were organized on 13/4/2017. Total 30 students and 2 Faculty members were part of the team. The teams reach at 11:30 am at the site of Sardar Sarovar Dam. The first place Visited at site was Statue of Unit which is 3km from downstream of the Sardar

sarovar dam a manmade island. Students observed the ongoing construction work at site, Local guide provided basic information of Statue of unity, The total height of the statue from its base will be 240 meter consisting base level of 58 meter and statue of 182 meter, double height of the statue of Liberty, it is to be located facing the Narmada Dam, and it will be the tallest statue in the world when completed.

The next place visited is River bed power house, to visit this place we traveled through 50 m underground tunnel. Students observed the structural aspect of River bed power house. They were explained about the function of river bed power house and turbine used to produce the hydroelectricity. Students also saw the various Steel frame work, such as truss system, Diapharam wall, Gantry girder and connection details.

The next visit was of Sardar Sarovar Dam, The dam was concrete gravity dam, Length of main dam: 1210.02 m. Top R.L. of dam: 146.50 m. The students are explained about the geometry of dame, Spillway system, and Gate system and reservoir details. After this visit the canal head power house visited this is smallscale surface hydraulic power generating plant, here student visited the control room where company engineer explained them the working system of power plant and provided information of turbine which is used to generate electricity.

**Registration fee ( if any): NIL**

**No. of Participants:**30 students , 2 faculties

**List of Participants:**

| Sr No | Roll No | Student Name |
|---|---|---|
| 1 | 16PGCL001 | ANASWALA MUSTUFA JUZERBHAI |
| 2 | 16PGCL002 | BHAYANI VISHALKUMAR MANOJBHAI |
| 3 | 16PGCL003 | DESAI JAY ANANDKUMAR |
| 4 | 16PGCL004 | DHUNDHIYAWALA HOJEFA HASIMBHAI |
| 5 | 16PGCL005 | FALDU SMEET BIPINBHAI |
| 6 | 16PGCL006 | GAJJAR VISHALKUMAR VISHNUBHAI |
| 7 | 16PGCL007 | HANDIWALA UDAY HARESHKUMAR |

| | | |
|---|---|---|
| 8 | 16PGCL008 | JIRUWALA ABDEALI KUTBUDDIN |
| 9 | 16PGCL009 | JIVANI RUSHIKESH BABUBHAI |
| 10 | 16PGCL010 | JOSHI MEET MUKESHBHAI |
| 11 | 16PGCL011 | KAKADIYA YAGNIKKUMAR GIRISHBHAI |
| 12 | 16PGCL012 | KANTARIYA JITENDRAKUMAR HIRALAL |
| 13 | 16PGCL013 | KAZI MOHAMMEDSAHAL MUSTAKALI |
| 14 | 16PGCL014 | PANDYA PARIKSHITBHAI VAJERAMBHAI |
| 15 | 16PGCL015 | PANSURIYA DISHANT ASHOKBHAI |
| 16 | 16PGCL016 | PATEL BHAUMIKKUMAR ISHVARBHAI |
| 17 | 16PGCL017 | PATEL MAULIK PARESHKUMAR |
| 18 | 16PGCL018 | PATEL PARAS MUKESHBHAI |
| 19 | 16PGCL019 | PATEL PARTH KIRANKUMAR |
| 20 | 16PGCL020 | PATEL SRUSHTI SHAILELHKUMAR |
| 21 | 16PGCL023 | RANA DARSHANKUMAR RAJENDRAKUMAR |
| 22 | 16PGCL024 | RATHOD YUVRAJSINH HIMMATSINH |
| 23 | 16PGCL025 | RAVAL KEWAL JAGDISHBHAI |
| 24 | 16PGCL027 | SAILOR AISHWARYA MAHENDRABHAI |
| 25 | 16PGCL028 | SHAH PRANAV PARAGBHAI |
| 26 | 16PGCL030 | SUKHADIA KARNAV BIMALKUMAR |
| 27 | 16PGCL031 | SUTHAR DARSHAK CHANDRAKANTBHAI |
| 28 | 16PGCL032 | TEJANI KEYURKUMAR RAJESHBHAI |
| 29 | 16PGCL033 | THAKKAR AASHIK KAUSHIK |
| 30 | 16PGCL034 | THUMMAR AKASHKUMAR JAYSUKHBHAI |

▪

**Amount sanctioned by CSPIT/CHARUSAT: RS. 19374**

**Accounts details:**

| Sr. No. | Details | Rupees |
|---|---|---|
| **Expenses** | | |
| 1. | Breakfast | 1105 |
| 2. | Lunch | 4620 |
| 3. | Entry pass | 185 |
| 4. | Guide | 300 |
| 5. | | |
| 6. | | |
| **Total** | **RupessSix Thousand Two hundred Ten** | **6210** |

**Overall impact of Visit:** Very Good

**Photographs of the event with captions (at least six photographs):**





**Sardar Sarovar Dam Site**

# CHARUSAT UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT), CHANGA – 388 421

## Chandubhai S. Patel Institute of Technology

### M. S. Patel Department of Civil Engineering

# Event Report

**Name of Event** : Visit to Hydrometerology data collection center at Anand Agriculture University (AAU)

**Date and Time of Event** : March 27, 2017; 10.00 am to 3.30pm

March 28, 2017; 10.00 am 10.00 am to 3.30pm

**Event coordinator** : Ms. Hiteshri Shastri, Prof. H.J. Dalwadi & Ms. Pinal Patel

**Resource person details (if any):**

| Sr. No. | Name of the resource person | Organization of resource person |
|---|---|---|
| 1 | Dr. M. Kulshrestha,<br>Professor and Head<br>8511185971(M)<br>Kushl22003@yahoo.co.in | AGRICULTURAL METEOROLOGY, AAU, Anand |
| 2 | Dr. S. B. Yadav,<br>Assistant Professor<br>02692-261426(0)<br>09574716144 (M) | AGRICULTURAL METEOROLOGY, AAU, Anand |

**Event Schedule:**

| Date | Time | Session | Activity |
|---|---|---|---|
| March 27/28, 2017 | 10.45-11.00 | Welcome address by Dr. S. B. Yadav | Meteorological observation : importance |
| March 27/28, 2017 | 11.00-11.45 | Visit to the observatory | Field visit to the different working instruments |
| March 27/28, 2017 | 11.45-12.45 | Discussion and Information | Question answer & Video lecture |

| | | | |
|---|---|---|---|
| March 27/28, 2017 | 01.00-02.00 | Lunch | Working lunch arranged for all the students at the Farmer's hostel |

**Summary of the Event (Maximum 200 words):**

The bus started from campus at 10am, reach the AAU campus at 10.45pm. the students were first taken to the lecture hall of meteorological department of AAU, there they obtained information about the department, and activities undertaken for the meteorological data collection, conservation and distribution as well as the extension activities for the farmers. After the introductory session the students were divided into two groups for visiting the meteorological observatory at the field. The working principles and functioning of different instruments for making meteorological observation of rainfall, sunshine, wind, evaporation, transpiration, air and soil temperature, radiation balance, and automatic weather stations were explained to the students. A session of question answer was taken after the observatory visit. Video lectures of the data collection and distribution as well as climate change was played for realizing the need for meteorological data in various fields science.

Students were taken for lunch at Farmer's Hostel (Tribhuvan Chatralay) after the visit.

Bus started back for campus at 2.30pm and reached the campus at 3.15pm.

The students attendance were marked in bus during both to and fro journey during the visit by Dr. Hiteshri Shastri.

**Registration fee ( if any): ----------No fees collected from the students----------**

**No. of Participants: 48 students on 27 March 17 and 58 students on 28 March 17.**

**List of Participants: Enclosed (Encl:1)**

| Sr. No. | Name of participant | ID No. |
|---|---|---|
| 1. | | |
| 2. | | |

**Amount sanctioned by CSPIT/CHARUSAT: 21,750 /-**
**(Twenty one thousand seven hundred fifty only)**

**Accounts details:**

| Sr. No. | Details | Rupees |
|---|---|---|
| **Income : ----------Nil---------- No advance money or fees collected** | | |
| 1. | | |
| 2. | | |
| 3. | | |
| **Expenses : ----------** | | |
| 1. | **A food bill for both -27-28 March 17** | **7500/-** |
| 2. | Transportation arranged by the University | == |
| **Total** | | **7500/-** |

**Overall impact of workshop:** Excellent/**Very Good**/Good/Average/Poor

**Photographs of the event with captions (at least six photographs):**







# CHAROTARUNIVERSITY OF SCIENCE AND TECHNOLOGY

## Chandubhai S Patel Institute of Technology

### Manubhai Shivabhai Patel Department of Civil Engineering

## ACTION TAKEN ON FEEDBACK FROM STAKEHOLDERS (2017 - 18)

Suggestions given by stockholders were considered and following decisions were made, to be put up for consideration:

- More Emphasis will be given on project work. **(Annexure – I)**
- Experts from industries (Minimum two experts per subject) are invited for the talks. **(Annexure – II)**
- As per requirement of the course, faculties have introduced various assessment tools under pedagogy development. Also, Empirical Formulae will be provided to reduce the conventional methodology of memorizing the data. **(Annexure – I)**
- Application oriented teaching will be done by Introduction of onsite lectures and frequent workshops. **(Annexure – I)**
- Theory and practical sessions were conducted simultaneously for better understanding. **(Annexure – I)**
- Elective courses were included in the curriculum, which give freedom of course selection. **(Annexure – I)**
- Certificate course on STADD Pro. and ETABS is organized. **(Annexure – III)**

Vedanti M.U.

Ms. Mitali Vedanti
Assistant Professor

Dr. V. R. Panchal,
Professor and Head,
M S Patel Department of Civil Engineering,
CSPIT, CHARUSAT

Annexure - I

## Minutes – 15th Meeting of Board of Studies of Civil Department

**Date : 28th July 2018, Saturday**

**Time : 10:00 am**

**Venue: Civil Engg. Dept., CSPIT, CHARUSAT**

The 15th meeting of the Board of Studies (BOS), Civil Engineering, Faculty of Technology and Engineering, Charotar University of Science and Technology (CHARUSAT) was held as per above schedule.

Following members were present:

| | | | |
|---|---|---|---|
| 1. | Dr. V. R. Panchal | Chairman | Professor & Head, Department of Civil Engineering, CSPIT |
| 2. | Ms. Neha Chauhan | Internal Member | Asst. Professor, Department of Civil Engineering, CSPIT |
| 3. | Ms. Dipali Patel | Internal Member | Asst. Professor, Department of Civil Engineering, CSPIT |
| 4. | Dr. N. C. Shah | External Expert | Director, Uka Tarsadiya University, Bardoli |
| 5. | Dr. H. M. Patel | External Expert | Head, Department of Civil Engineering, Faculty of Technology and Engineering, The M. S. University of Baroda, Vadodara |
| 6. | Prof D. G. Panchal | External Expert | Dean, Faculty of Technology, D. D. University, Nadiad. |
| 7. | Dr. Jay Shukla | External Expert | Asst. General Manager, L&T (S&L), Vadodara |
| 8. | Mr. Ravikiran Vaidya | External Expert | Principal Engineer, Geodynamics, Vadodara |

Members absent due to Pre-occupation:

| | | | |
|---|---|---|---|
| 1. | Dr. Hiteshri Shastri | Internal Member | Asst. Professor, Department of Civil Engineering, CSPIT |
| 2. | Dr. N. J. Mistry | External Expert | Professor (Retd.), Department of Civil Engineering, S. V. National Institute of Technology, Surat |
| 3. | Mr. Manoj Bhavasar | External Expert | Deputy General Manager, Global Post Tensioning Solutions Pvt. Ltd., Vadodara |
| 4. | Dr. Sanjay Dhiman | External Expert | Associate Professor, Civil Engineering Department, B. V. M. College of Engineering, V. V. Nagar |

**Initiation:**

Chairman welcomed members of Board of Studies (BOS) and introduced them and initiated the proceedings by taking up the agenda for discussion by members.

**Proceedings & Resolutions:-**

**Agenda No. 15.01: For Confirmation:** Approval of Minutes of the 14th BOS Meeting

**Proceeding No. 15.01**

Minutes of 14th Meeting of BOS, Faculty of Technology & Engineering were circulated to BOS members in advance. Chairman outlined the summary and the actions taken on the received suggestions of 14th Meeting of Board of Studies and invited further comments.

**Resolution No. 15.01**

As no comments were received on circulation of Minutes, the minutes of meetings were confirmed. The same are attached as **Annexure - I.**

**Agenda No. 15.02: Approval:** Approval of Synopsis and panel of potential reviewers/referees for Ph. D. Thesis of Ms. Yamini Jayantibhai Patel (14DRCL001)

**Proceeding No. 15.02**

Ms. Yamini Jayantibhai Patel (14DRCL001) presented her synopsis on "Self Compacting Geopolymer Concrete" to the BOS members. Suggestions for the panel of potential reviewers/referees for Ph. D. Thesis of Ms. Yamini Patel were invited by the Chairman. Members have suggested the names of few experts.

**Resolution No. 15.02**

The Synopsis Ms. Yamini Jayantibhai Patel (14DRCL001) was approved with minor corrections.

Members suggested that Dr. A. K. Verma and Dr. Priti A Patel should be replaced by Dr. A V Thomas (Director, Adani Institute of Infrastructure Engineering, Ahmedabad) and Dr. Urmil Dave (Professor, Civil Engineering Department, Faculty of Technology, Nirma University, Ahmedabad) in the panel of examiners within Gujarat.

Members also suggested Dr. J. B. Dafedar and Dr. Anurag Misra should be replaced by Dr. C. S. Desai (Arizona University, USA) and Dr. Kishore Rawande (MIT, Pune) in the panel of examiners from outside Gujarat.

**Agenda No. 15.03: For Discussion:** Review of Results of Academic year 2017-18

**Proceeding No. 15.03:**

Chairman presented the University Exam Results B. Tech and M. Tech of Academic Year 2017-18 semester wise and course wise to the Board members. The same is attached as **Annexure - II.**

**Resolution No. 15.03**

The Board deliberated on the courses which were having more than 10% failure. Following suggestions were given by the Board to improve the results in future:

1. A unit test exam should be conducted for each course every Saturday after the completion of one month of teaching.
2. In the F. Y. B. Tech. results, it is observed that in Mathematics, the performance is not satisfactory. This is mainly due to the language issues and irregularity of some students.
3. Provide empirical formulae to the students to reduce the conventional methodology of memorising data.
4. University Backlog Examination should be conducted immediately after one month of declaration of results. Students who will not qualify in the backlog exam in first attempt should be given another chance to appear in next semester.

**Agenda No. 15.04: Discussion**: Review of question papers scrutiny report 2017-18

**Proceeding No. 15.04:**

Chairman presented the question paper scrutiny report of question papers of the year 2017-18. Board members deliberated on the report. The report is attached as **Annexure - III.**

**Resolution No. 15.04**

Board members noted that majority of the question papers reviewed by the subject experts were of **"Good"** to **"Very Good"** Category and few were of **"Excellent Category"**. The external experts of the Board were of the opinion that the standard of question papers is generally of very good category. The following suggestion was given by the members:

1. External examiners are to be invited only for final year students.
2. Open book exams could be considered at higher semesters for enhancing the problem solving skills of students.

**Agenda No. 15.05: Approval:** Review and Approval of Revised CBCS based B. Tech and M. Tech. (Civil Engineering) Course Structures

**Proceeding No. 15.05:**

Based on the UGC recommendations, CHARUSAT had instructed Faculty of Technology & Engineering to implement Choice Based Credit System (CBCS) from Academic Year 2016-17. Chairman presented revised B. Tech and M. Tech. CBCS course structures of Civil Engineering. Members deliberated on the revised CBCS course structures. These are attached as **Annexure - IVA and IVB**.

In B. Tech course structure, teaching and examination schemes of subjects CL281.01 and CL282.01 have been changed from theory to practical.

**Resolution No. 15.05**

Board reviewed and granted approval to the revised CBCS B. Tech and M. Tech (Civil Engineering) course structures and suggested that the credits of HS 126.01 A (Communication Skills - I) should be split into 1 credit for theory and 1 credit for practical/ tutorial.

**Agenda No. 15.06: Approval:** Consideration and Approval of final year B. Tech CBCS Syllabus for academic year 2019-20

**Proceeding No. 15.06:**

Chairman presented the final year B. Tech CBCS Syllabus for academic year 2019-20 to the members.

**Resolution No. 15.06**

Board approved the final year B. Tech. CBCS Syllabus for Academic Year 2019-20.

**Agenda No. 15.07: Approval:** Consideration and Approval of CBCS based B. Tech (Civil Engineering) course structure and B. Tech Second year (CBCS) syllabus to be implemented for the students who are enrolled in 2018-19

**Proceeding No. 15.07:**

Chairman presented the B. Tech (Civil Engineering) course structure and B. Tech Second year (CBCS) syllabus to be implemented for the students who enrolled in 2018-19. The B. Tech (Civil Engineering) course structure is attached as **Annexure - V.**

Chairman informed about the revisions in the credits of three subjects namely CL 245.01 (Building Construction Technology), CL342.01 (Concrete Technology) and CL345.01 (Environmental Engineering-I), which has resulted in the total credits of B. Tech course structure to be earned by the students, who are enrolled in Academic Year 2018-19, getting reduced to 192.

**Resolution No. 15.07**

Board approved the B. Tech (Civil Engineering) course structure and B. Tech Second year (CBCS) syllabus to be implemented for the students who are enrolled in 2018-19.

**Agenda No. 15.08: Approval:** Approval of Panel of Examiners for 2018-19

**Proceeding No. 15.08**

The list of panel of external examiners for various Civil Engineering courses was presented by the Chairman as per attached as **Annexure - VI.**

**Resolution No. 15.08**

The list of panel of examiners for Civil Engineering courses for the year 2018-19 was approved by the Board.

**Agenda No. 15.09: For Discussion:** Pedagogy & Suggest improvement for its modification

**Proceeding No. 15.09**

The current Pedagogy of different subjects was presented by the Chairman as per attached as **Annexure - VII.**

**Resolution No. 15.09**

Board has suggested that evaluation of the students should be done on the basis of conceptual understanding, by asking questions having more weightage on figure based numericals.

Civil engineering being a field based program, the Board emphasised the introduction of onsite lectures and more frequent workshops.

On-site lectures may be conducted in such a way, that students can be taken to major construction sites and in the morning sessions they observe the activities on site and after noon the theory and numerical of such activities may be covered. However, the practicality of such efforts should be discussed in detail and it is recommended to do a pilot project in this line and evaluate the shortcomings.

More workshops for having practical exposure shall be organised at the department level for both students and faculty members. The theoretical content on lectures should be kept minimum.

**Agenda No. 15.10: For information:** NBA Accreditation for Civil Engineering

**Proceeding No. 15.10**

Chairman briefly provided information regarding obtaining the NBA accreditation as a University policy. However, the Civil Engineering Department can't go for the NBA accreditation in the current academic year as number of available PhDs in the department is less than 10% of the number of faculty members of department as per NBA requirement.

**Resolution No. 15.10**

Members suggested to recruit more faculty members having PhD degree before going for the NBA Accreditation.

**Agenda No. 15.11: For Discussion:** Implementation of Outcome Based Education (OBE)

**Proceeding No. 15.11**

Chairman briefly provided information regarding the OBE and invited suggestions from expert members.

**Resolution No. 15.11**

The following suggestions were given by the Board members:

1. Emphasis should be given on project work.
2. Theory and practical should go simultaneously.
3. Faculty and students should be involved in live projects with industries.
4. Application oriented teaching should be practiced.
5. Collect feedback from stake holders and do extensive analysis of feedback to do necessary updates in the syllabus and curriculum.

**Agenda No. 15.12: For Discussion:** Examiner feedback review of question papers

**Proceeding No. 15.12**

A brief overview of the process of taking feedback from examiners on the question papers was given to the Board members by the Chairman. The existing feedback forms were shown to the Board members.

**Resolution No. 15.12**

Board members noted that feedbacks received from external examiner are satisfactory.

**Agenda No. 15.13: For Discussion:** New Programmes

**Proceeding No. 15.13**

Chairman invited suggestions on proposed engineering courses that may be taken up in future.

**Resolution No. 15.13**

The following suggestions were given by the board members.

1. In general, super specialization courses at B. Tech level are observed as an unsuccessful experiment. The university should focus on operating on the fundamental engineering B. Tech. and the specialized M. Tech courses.
2. Board members suggested to start a new course in M. Tech. (Environmental Engineering)/ Construction Engineering and Management/ Transportation Engineering.

**Agenda No. 15.14: For Discussion:** Massive Open Online Courses (MOOCs) on SWAYAM Platform

**Proceeding No. 15.14**

Chairman gave a brief overview about the university initiative about the SWAYAM courses and informed that UGC has also issued UGC Regulations 2016, to allow credit transfer up to 20% on the basis of MOOCs on SWAYAM.

**Resolution No. 15.14**

Board members suggested to identify the MOOCs related to Civil Engineering from SWAYAM Platform, which can be offered to the students of Civil Engineering and put the same before Board of Studies for approval.

**Agenda No. 15.15: For Discussion: Placement**

**Proceeding No. 15.15**

Placement data of academic year 2017-18 to board members was presented by the Chairman as per attached as **Annexure – VIII.**

**Resolution No. 15.15**

BOS appreciated efforts of the faculty members for the placement of students.

**Agenda No. 15.16: For Discussion: Research Activities, Project and Consultancy**

**Proceeding No. 15.16**

The data related to Research Activities, Project and Consultancy carried out during academic year 2017-18 to board members was presented by the Chairman as per attached as **Annexure – IX.**

**Resolution No. 15.16**

BOS appreciated efforts of M.Tech students for their research work. BOS has also appreciated the efforts of Dr. Hiteshri Shastri for achieving funding from the prestigious agency DST- SERB and appreciated the work of department for becoming Schedule-I Environmental Auditor.

**Agenda No. 15.17: For Discussion:** Admissions and Quality of Inputs

**Proceeding No. 15.17**

Chairman invited suggestions from Board members about Admissions and Quality of Inputs.

**Resolution No. 15.17**

BOS members remarked on the falling demand of Civil engineering and emphasised the requirement of enhanced outreach activity, by which the common public can be sensitized about Civil engineering.

Board suggested the following activities:

1. Conducting Civil engineering competitions and workshops at school level to enhance the awareness.
2. To undertake Civil engineering projects from nearby villages and extend free consultancy services.
3. Student may be motivated to adopt villages nearby and solve the civil engineering issues by way of projects.
4. Students shall be exposed to international civil engineering practices, and the same shall be used for publicising the department portfolio.

**Agenda No. 15.18: For Discussion**: Quality in Education and World Class Universities

**Proceeding No. 15.18**

Chairman invited suggestions from Board members regarding Quality in Education and World Class Universities.

**Resolution No. 15.18**

BOS members suggested more networking effort with international institutes to upgrade the standards. Recruiting faculty members having international exposure also can be considered for the enhancement of standards.

Faculty members doing research may be motivated to undertake internships and other short term programs of international level to enhance their skills.

**Agenda No. 15.19: For Discussion**: Road-Map 2023 document

**Proceeding No. 15.19**

Chairman invited suggestions from Board members regarding Road-Map 2023 document.

**Resolution No. 15.19**

The Board pointed out to prepare a document emphasising the benchmark achievement for the next 5 years and the same need to be audited every year for the evaluation of shortfall.

**Agenda No. 15.20: For Discussion**: Provision of Audit Course

**Proceeding No. 15.20**

Chairman invited suggestions from Board members regarding provision of Audit Course.

**Resolution No. 15.20**

The board noted that, the skills required for civil engineering industry is beyond the syllabus and are sometimes a non-teachable. By introducing audit courses in the curriculum, an opportunity becomes available for students having a scope of improvement of their natural abilities and the same may increase their employability.

**Agenda No. 15.21: For Discussion:** Focus on Sports

**Proceeding No. 15.21**

Chairman invited suggestions from Board members regarding Focus on Sports

**Agenda No. 15.22: For Discussion:** Cultural and Social Activities for the Holistic development of the students

**Proceeding No. 15.22**

Chairman invited suggestions from Board members regarding Cultural and Social Activities for the Holistic development of the students

**Resolution No. 15.22**

To inculcate the fundamental values and social commitment among students, it is recommended by the Board to enhance the number of social activities in the department.

**Agenda No. 15.23: For Discussion:** Quality of Research in Ph.D

**Proceeding No. 15.23**

Chairman invited suggestions from Board members regarding Quality of Research in Ph.D

**Resolution No. 15.23**

Teaching learning environment in the department can be enhanced by involving more students in research activities on going in the department and it will be worth sparing time slot in the weekly schedule itself. Students and faculty members may be motivated to network within the university and outside by providing different platforms like research club, innovation club, tea club, etc.

**Agenda15.24: For Discussion and Approval;** To approve the teaching and examination schemes with detailed syllabi of B Tech ($2^{nd}$ & $3^{rd}$ Year) (Batch 2017)

**Proceedings: 15.24**

Chairman gave brief note about the modifications made in B Tech ($2^{nd}$ & $3^{rd}$ Year) (Batch 2017) effective from 2018-19 and was presented for the required approval of the same.

**Resolution 15.24**

Board approved Teaching and Examination Scheme of B Tech Civil Engineering ($2^{nd}$ & $3^{rd}$ Year) (Batch 2017) effective from 2018-19, along with syllabi and the same is attached as **Annexure-X.**

***As there was no other item, the meeting ended with a vote of thanks by the Chairman.***

**Dr. V. R. Panchal**

**Chairman, BOS**

CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY CSPIT CHANGA

Annexure - II

# CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT), CHANGA – 388 421

## Chandubhai S. Patel Institute of Technology

M. S. Patel Department of Civil Engineering

# Event Report

Name of Event : Expert Talk; Subject: Environmental Engineering

Date and Time of Event : 31st August 2017, Saturday, 2:30 to 4:20 pm

Event coordinator : Ms. Mitali Vedanti; Dr. D S Vyas

Resource persondetails (if any):

| Sr. No. | Name of the resource person | Organization of resource person |
|---|---|---|
| 1 | Er. Chirag Bhimani<br>Deputy Environmental Engineer | Gujarat Pollution Control Board (GPCB), Gandhinagar |

Event Schedule:

| Date | Time | Session | Activity |
|---|---|---|---|
| 31st August 2017 | 2:30 to 4:20 pm | Emission Trading Scheme (ETS) – A Novel Approach Towards Pollution Control | Expert Talk |

Summary of the Event (Maximum 200 words):

Er. Chirag Bhimani has more than 15 years of experience in the field of Environmental engineering. He gave an excellent talk on Emission Trading Scheme and its working. The talk largely helped the students to realize the potential of emission trading and provided an insight on the future career opportunity in this area.

Registration fee (if any):------ No----------

No. of Participants: 105

List of Participants: Enclosed

| Sr.No. | Name of participant | ID No. |
|---|---|---|
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |

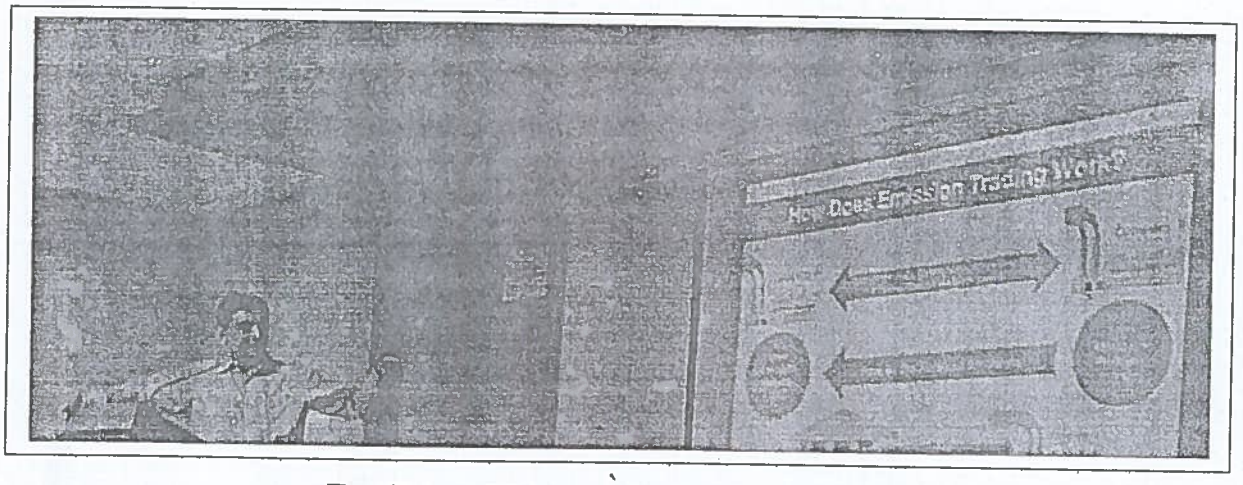
Amount sanctioned by CSPIT/CHARUSAT: 3200/- (Three thousand two hundred only)

Accounts details:

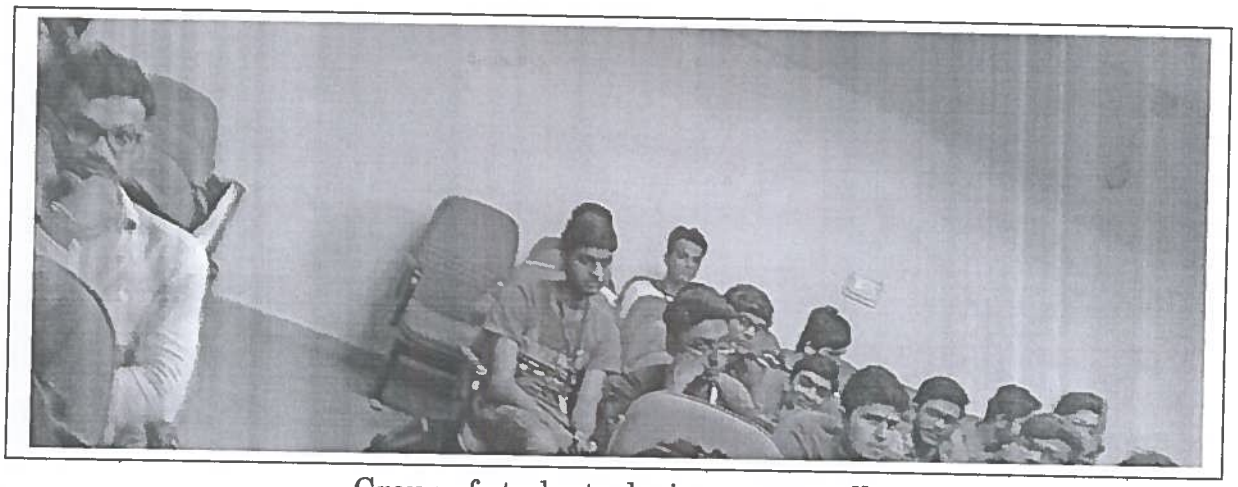
| Sr. No. | Details | Rupees |
|---|---|---|
| Income ----------NIL---------- | | |
| 1. | | |
| 2. | | |
| 3. | | |
| Expenses | | |
| 1. | TA | 1200/- |
| 2. | Honorarium | 2000/- |
| Total | | 3200/- |

Overall impact of Event: Excellent/Very Good/Good/Average/Poor

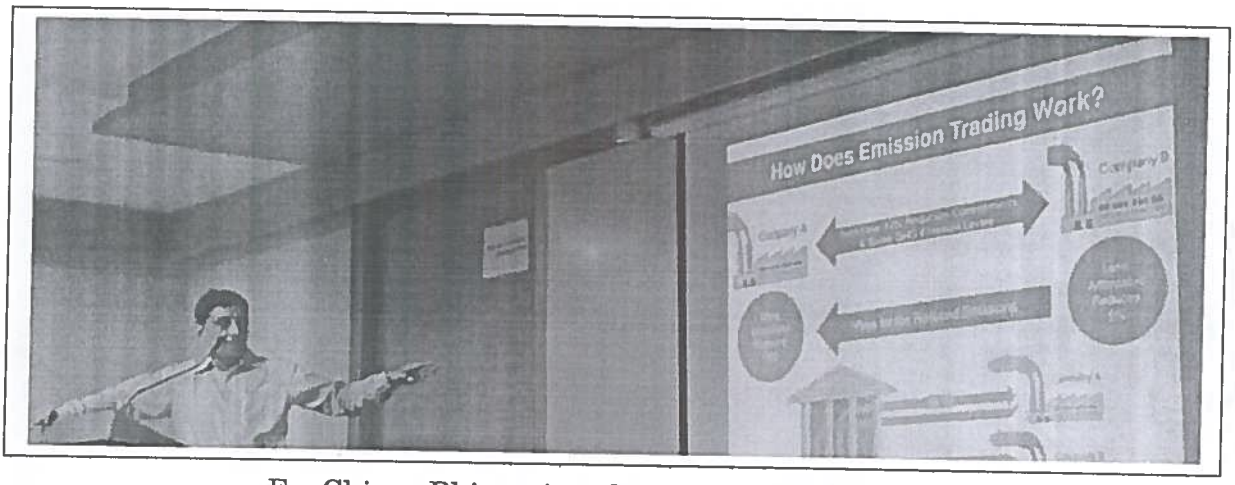
Photographs of the event with captions (at least six photographs):



Er. Chirag Bhimani during the expert talk



Group of students during expert talk




Er. Chirag Bhimani explaining emission trading

Coordinator Sign: Vedanti M.U. (Ms. Mitali Vedanti)

Head of Department Sign: 12/09/12

Professor & Head (Civil Engineering)
C. S. Patel Institute of Technology
Charotar University of Science & Technology
CHANGA - 388 421. ANAND (Gujarat)

**Expert Lecture**

**on**

**Emission Trading Scheme(ETS) - A Novel Approach Towards Pollution Control"**

**by**

**Er. Chirag Bhimani, Deputy Environmental Engineer, GPCB, Gandhinagar**

**Organized by Civil Engineering Department, CSPIT**

**August 31, 2017 (Thursday)** **Venue: EC/EE Auditorium**

**2:30 p.m. onwards**

**ATTENDANCE SHEET FOR STUDENTS**

| Sr. No. | ID No. | Student Name | Department/Institute | Signature |
|---|---|---|---|---|
| 1 | 15CL089 | Patel Urmil | Civil | |
| 2 | 15CL105 | Neel Shah | Civil | |
| 3 | 15CL050 | Hinal Modi | Civil | |
| 4 | 15CL106 | Yuvaraj | CIVIL | |
| 5 | 15CL031 | Krupa Gohil | CIVIL | |
| 6 | 15CL072 | Hemanshi Patel | CIVIL | |
| 7 | 15CL117 | Nevia Vekariya | CIVIL | |
| 8 | D16CL147 | Gohil Manish P. | " | |
| 9 | D16CL132 | Chavda Tej d. | " | |
| 10 | D16CL137 | Bhanusali Jatin | " | |
| 11 | 15CL110 | Teshikha Srivastava | " | |
| 12 | 15CL056 | Vishnupriya | " | |
| 13 | 15CL122 | Vidhyata Zaveri | " | |
| 14 | 15CL104 | Monika Shah | " | |
| 15 | D16CL157 | VERMA ASIT K. | " | |
| 16 | D16CL146 | Gohel kirtan K | " | |
| 17 | D16CL149 | Doshi Yash K | " | |
| 18 | D16CL134 | Mehimna. U. | " | |
| 19 | D16CL139 | Christie Aldrine. P | " | |
| 20 | 14CL014 | Chaudhary Hitesh R | " | |
| 21 | 14CL058 | PARMAR YASH | " | |
| 22 | 15CL053 | Kunal Nemani A | Civil | |
| 23 | 15CL011 | KARISHMA CHANDNANI | " | |
| 24 | 15CL055 | KENITA MARY SABU | " | |
| 25 | 15CL059 | Parthesh Pandya | " | |
| 26 | 15CL029. | Dhruvik godhani | " | |
| 27 | 15CL010 | Renil Chabhadia | " | |
| 28 | 15CL064 | shivam parmar | " | |
| 29 | 15CL062 | NIKUNJ PARMAR | " | |
| 30 | 15CL030 | Amit Gohil | " | |
| 31 | 15CL051 | Vivek Mopadiya | " | |
| 32 | 15CL109 | Raj Tank | " | |
| 33 | 15CL076 | Maheshi Patel | " | |
| 34 | 15CL114 | Parth Vaddodariya | " | |
| 35 | 15CL061 | Mehul Parmar | " | |
| 36 | 15CL068 | Hitesh Patel | " | |
| 37 | 15CL069 | Fenil Patel | " | |
| 38 | D16CL125 | Ashish Dungrani | " | |
| 39 | D16CL131 | KHunt Jaydeep | " | |
| 40 | D16CL128 | Ankur Maurya | " | |
| 41 | 15CL007 | Fenil Borad | " | |
| 42 | 15CL064 | Preet Patel | " | |
| 43 | 15CL096 | Himanshu Rewinga | " | |

**Emission Trading Scheme(ETS) - A Novel Approach Towards Pollution Control"**

**by**

**Er. Chirag Bhimani, Deputy Environmental Engineer, GPCB, Gandhinagar**

**Organized by Civil Engineering Department, CSPIT**

**August 31, 2017 (Thursday)** **Venue: EC/EE Auditorium**

**2:30 p.m. onwards**

**ATTENDANCE SHEET FOR STUDENTS**

| | | | | |
|---|---|---|---|---|
| 44 | D16CL158 | Dharmraj Shivang | Civil Branch | |
| 45 | 15CL073 | Patel Keval | Civil Branch | K.N.Patel |
| 46 | 15CL090 | Patel Zeel | Civil Branch | |
| 47 | 15CL063 | Prod pivush | civil Branch | |
| 48 | 15CL006 | Aditi Bhaseenya | civil Branch | |
| 49 | 15CL033 | Vibhuti Goyal | civil Branch | |
| 50 | 15CL009 | Avi Budhdev. | Civil Branch | |
| 51 | 15CL047 | Shyam mavani | civil Branch | |
| 52 | 15CL028 | Jil Ghevariya | Civil " | |
| 53 | 15CL060 | Viraj pandeya | Civil " | |
| 54 | 15CL042 | Divy bansara | Civil " | |
| 55 | 15CL016 | Preet Chovatiya | Civil " | |
| 56 | 15CL024 | Nimesh Gajera | Civil " | |
| 57 | 15CL035 | Vijay Jamiwala | " " | |
| 58 | 15CL048 | Aniket MISHRA | Civil " | |
| 59 | 15CL052 | Bhavesh Munjapara | Civil " | |
| 60 | 15CL032 | BHAVESH | Civil " | |
| 61 | 15CL037 | FALAK JINWALA | Civil " | |
| 62 | 15CL001 | Romil Amin | Civil " | |
| 63 | 15CL027 | Dimish Gadhiya | Civil " | |
| 64 | 15CL017 | Yash Chauhan | Civil " | |
| 65 | 15CL022 | Tapan dhenaiy | " " | |
| 66 | 15CL023 | Aditya dodiya | " " | |
| 67 | D16CL130 | Jakhaniya ashish H. | " " | |
| 68 | D16CL129 | Tanmay Bavishi | Civil Branch | |
| 69 | 16CL086 | Jay Prajapati | " " | |
| 70 | 15CL077 | Naishadh Patel | Civil Branch | |
| 71 | D16CL126 | ARJIT DOMDA | " " | |
| 72 | 15CL015 | Parth chauhan | " " | |
| 73 | D16CL141 | Shaikh Hannan | Civil Branch | |
| 74 | D16CL150 | Vaghela Bharat | Civil Branch | |
| 75 | D16CL133 | Jogan mitun | " | |
| 76 | D16CL151 | Aniket Agrawal | " | |
| 77 | D16CL143 | Dharmin Joshi | " | |
| 78 | D16CL152 | Yash Patel | " | |
| 79 | 15CL108 | Rutvik surani | " | |
| 80 | 15CL097 | Abhay Rathod | " | |
| 81 | 15CL101 | Dhruv Senjaliya | " | |
| 82 | 15CL107 | Jaydeep solanki | " | |
| 83 | D16CL140 | Jasani Yash | | |
| 84 | D16CL146 | Meet Maniya | " | |
| 85 | 15CL113 | Vidit Upadhyay | " | |
| 86 | 15CL071 | HARSH PATEL | " | |
| 87 | 15CL107 | Jaydeep Solanki | " | |
| 88 | 15CL078 | Param patel | " | |
| 89 | 15CL121 | Ayay Vyas | " | |

**Emission Trading Scheme(ETS) - A Novel Approach Towards Pollution Control"**

**by**

**Er. Chirag Bhimani, Deputy Environmental Engineer, GPCB, Gandhinagar**

**Organized by Civil Engineering Department, CSPIT**

**August 31, 2017 (Thursday)** **Venue: EC/EE Auditorium**

**2:30 p.m. onwards**

**ATTENDANCE SHEET FOR STUDENTS**

| | | | | |
|---|---|---|---|---|
| 90 | 15LL123 | Patel Rikkin | CIVIL | Rikkin |
| 91 | D16CL145 | RATIKUMAR SHUKLA | CIVIL | R.S Shukla |
| 92 | 15CL018 | Darshan Desai | civil | D. Desai |
| 93 | 15CL043 | Rahul Karmakar | Civil | Rahul |
| 94 | 15CL038 | Kashyap Jotania | Civil-1 | Kashyap |
| 95 | 15CL020 | Subhabrata Dey | Civil-1 | Subha |
| 96 | 15CL095 | Nisha Rathod | civil-2 | Nisha |
| 97 | D16CL142 | Meghani Ruchita | civil-2 | Ruchita |
| 98 | D16CL155 | Ganjam Janak | civil-2 | Janak |
| 99 | 15CL045 | Khambhatta Maryam | Civil-1 | Maryam |
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# CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT), CHANGA – 388 421

## Chandubhai S. Patel Institute of Technology

### M. S. Patel Department of Civil Engineering

# Event Report

| | | |
|---|---|---|
| **Name of Event** | : | Expert Lecture on 'Valuation' |
| **Date and Time of Event** | : | 25th September 2017, 01:00 PM -02:00 PM |
| **Event coordinator** | : | Megha Desai, Gargi Ray |
| **Resource person details (if any):** | | Mr. Nihir Dave, Chartered Engineer & Government Approved Valuer, Nihir Dave & Associates |

| Sr. No. | Name of the resource person | Organization of resource person |
|---|---|---|
| 1 | Mr. Nihir Dave | Nihir Dave & Associates |

**Event Schedule:**

| Date | Time | Activity |
|---|---|---|
| 25/09/2017 | 01:00 PM -02:00 PM | Expert Lecture |

**Summary of the Event (Maximum 200 words):**

Valuation is an important part of subject CL412 Professional Practices. Valuation is the process of determining the current worth of an asset or a company. With real estate becoming one of the most coveted investment instruments in the country, the importance of valuation in construction industry is very high.

Mr. Nihir Dave has a wide experience in the field of construction and Valuation. Mr. Nihir Dave is the founder and owner of the reputed Valuation firm 'Nihir Dave & Associates'. His firm has served an illustrative list of clientele like Patel Infrastructures Pvt Ltd, Nesco Ltd,

Rolcon Engineering, Jaypee Cement Industries to name a few. Civil engineering department organized the expert lecture in order to tap Mr. Nihir Dave's expertise in the field for the final year students.

**Registration fee ( if any):** NIL

**No. of Participants**: 100

**List of Participants: (Attendance sheet attached)**

**Amount sanctioned by CSPIT/CHARUSAT:**

**Accounts details:**

| Sr. No. | Details | Rupees |
|---|---|---|
| **Income** | | |
| 1. | | NIL |
| 2. | | |
| 3. | | |
| **Expenses** | | |
| 1. | Remuneration of 1 hour lecture | 1000 |
| 2. | Transportation allowance(Anand to Changa) | 300 |
| **Total** | | **1300** |

**Note –** The expert donated the honorarium and TA to Society of Civil Engineering.

**Overall impact of workshop:** Very Good

**Coordinator Sign:**

Megha Desai

Gargi Ray

**Head of Department Sign:**

02/10/18

Professor & Head (Civil Engineering)
C. S. Patel Institute of Technology
Charotar University of Science & Technology
CHANGA- 388 421, ANAND (Gujarat)

# CHARUSAT UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT), CHANGA – 388 421

## Chandubhai S. Patel Institute of Technology

### M. S. Patel Department of Civil Engineering

# Event Report

**Name of Event : Expert Talk; Subject: Irrigation and Hydraulic Structures (7th semester of B. Tech Civil Engg.)**

**Date and Time of Event: 01 September 2017, Friday, 12:00 to 2:00 pm**

**Event coordinators: Dr. Hiteshri Shastri and Prof. H. J. Dalwadi**

**Resource person details (if any):**

| Sr. No. | Name of the resource person | Organization of resource person |
|---|---|---|
| 1 | Dr. Dinesh Patel and Mr. Jignesh Karkar, Manager (Technical Services) | Netafim Irrigation, Vadodara |

**Event Schedule:**

| Date | Time | Session | Activity |
|---|---|---|---|
| 01 September 2017 | 12:00 to 2:00 pm | Opportunities & Introduction of Micro Irrigation System (MIS). | Expert Talk |

**Summary of the Event (Maximum 200 words):**

Dr. Dinesh Patel and Mr. Jignesh Karkar have 11 years of experience of large scale installation, management and operation micro irrigation systems under different International, National and of Government of Gujarat operated schemes. Both the experts are very good orator. Experts gave an excellent talk on the opportunities that the passing out students has in the field of micro irrigation. The talk largely helped the students to realize this potential area of employment and provided an insight on the future career opportunity in this area. Further

| |
|---|
| the department of civil engineering had a talk with the industry to look forward to collaborate with the Netafim Irrigation for the projects and placement of the final year civil engineering students. |

Registration fee (if any):------ No----------

No. of Participants: 41(D2)+51(D2) = 92 Students

List of Participants: Enclosed

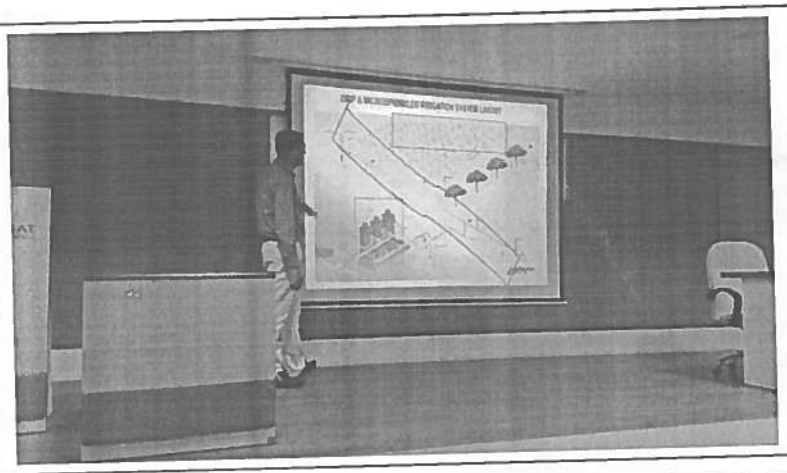
| Sr. No. | Name of participant | ID No. |
|---|---|---|
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |

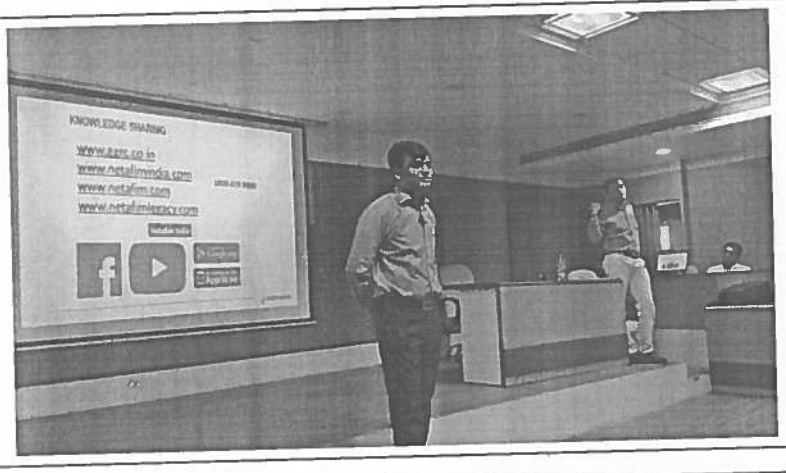
Amount sanctioned by CSPIT/CHARUSAT: 3200/- ( Four thousand only)

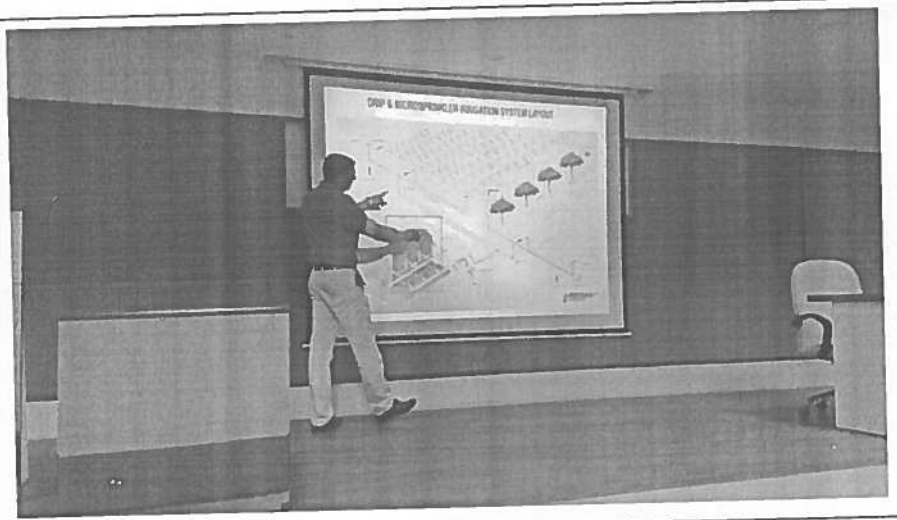
Accounts details:

| Sr. No. | Details | Rupees |
|---|---|---|
| Income ----------NIL---------- | | |
| 1. | | |
| 2. | | |
| 3. | | |
| Expenses | | |
| 1. | TA | 975/- |
| 2. | Remuneration | 2000/- |
| Total | | 2975/- |

Overall impact of workshop: Excellent/Very Good/Good/Average/Poor




KNOWLEDGE SHARING
www.aatc.co.in
www.netafimindia.com
www.netafim.com
www.netafimagency.com



# ATTENDANCE SHEET- Expert Talk

**CL 408 :Irrigation and Hydraulic Structures (7th semester of B.Tech Civil Engg.) Topic:** Opportunities & Introduction of Micro Irrigation System (MIS). By: **Dr. Dinesh Patel and Mr. Jignesh Karakr,** Netafim Irrigation, Vadodara, 01 **September 2017,12:00 to 2:00 pm, RPCP Auditorium**

| SR. NO. | ID NO. | NAME | SIGN |
|---|---|---|---|
| 1 | 14CL070 | PATEL JEET DHARMESH | |
| 2 | 14CL072 | PATEL MEET RASHMIKANT | |
| 3 | 14CL073 | PATEL NEEL SANDIPBHAI | |
| 4 | 14CL075 | PATEL POOJA HARESHKUMAR | |
| 5 | 14CL076 | PATEL POOJAN HITESHBHAI | |
| 6 | 14CL077 | PATEL ROHAN RAJNIKANT | |
| 7 | 14CL078 | PATEL RUTVIK KALIDAS | |
| 8 | 14CL079 | PATEL SMIT DINESHKUMAR | |
| 9 | 14CL082 | PATEL VIRAL PRAVINBHAI | |
| 10 | 14CL084 | POKAR SHYAM RAMANBHAI | |
| 11 | 14CL087 | PRANAMI VAIBHAV VALJIBHAI | |
| 12 | 14CL089 | GULABSINGH RAJPUT NEHA | |
| 13 | 14CL090 | RAMANI SAVAN RAJESHBHAI | |
| 14 | 14CL091 | RAMOLIYA YASH JAMANBHAI | |
| 15 | 14CL092 | RANA UPASANABEN RAJENDRAKUMAR | |
| 16 | 14CL093 | RANPURA BHAGYESH CHETANBHAI | |
| 17 | 14CL094 | RATHOD PARTH MITESH | |
| 18 | 14CL095 | RATHVA ALPESHKUMAR VIKARAMBHAI | |
| 19 | 14CL097 | SAGAR DASHRATHKUMAR JAYANTIBHAI | |
| 20 | 14CL098 | SATHVARA PANTH ARVINDBHAI | |
| 21 | 14CL100 | SHAH BHAVMIT ANILKUMAR | |
| 22 | 14CL101 | SHAH VRAJ SANDEEPBHAI | |
| 23 | 14CL102 | SHAH VRUSHANGI MITESH | |
| 24 | 14CL103 | SHAMBONI ASHISH KANAIYALAL | |
| 25 | 14CL104 | SONI ARCHIL DILIPBHAI | |
| 26 | 14CL105 | SORIYA ADARSH AMRUTBHAI | |
| 27 | 14CL106 | TAILOR BHARGAVKUMAR HARESHBHAI | |
| 28 | 14CL107 | DHRUV SANDIPKUMAR TANK | |
| 29 | 14CL108 | THAKKAR HAREN HARSHAD | |
| 30 | 14CL109 | TRIVEDI VEDANG BIPINCHANDRA | |
| 31 | 14CL110 | VAGHASIA TANMAY KIRITBHAI | |
| 32 | 14CL111 | VAGHASIYA AKHIL MANJIBHAI | |
| 33 | 14CL112 | VAGHASIYA KELVIN ARVINDBHAI | |
| 34 | 14CL113 | VAJA YASH HEMANTBHAI | |
| 35 | 14CL114 | VEKARIYA SHUBHAMKUMAR BHUPATBHAI | |
| 36 | 14CL115 | WADIWALA AAKASH YOGESHBHAI | |
| 37 | 14CL116 | YADAV ROMANK KAILASHCHANDRA | |

# ATTENDANCE SHEET- Expert Talk

**CL 408 :Irrigation and Hydraulic Structures (7th semester of B.Tech Civil Engg.) Topic:** Opportunities & Introduction of Micro Irrigation System (MIS). By: **Dr. Dinesh Patel and Mr. Jignesh Karakr,** Netafim Irrigation, Vadodara, 01 **September 2017,12:00 to 2:00 pm, RPCP Auditorium**

| | | | |
|---|---|---|---|
| 38 | 14CL117 | ZALA MANDIPSINH JITENDRASINH | |
| 39 | D15CL119 | BHATT ARPITA SATISHKUMAR | |
| 40 | D15CL120 | DODIYA KULDEEPSINH GAMBHIRSINH | |
| 41 | D15CL121 | KAKADIYA MAYANK JAYESHBHAI | |
| 42 | D15CL122 | JADEJA AVINASH SUJANSINH | |
| 43 | D15CL123 | BHATTACHARJEE ANIRUDRA GAUTAM | |
| 44 | D15CL124 | KADIVAR YATISH VIMALBHAI | |
| 45 | D15CL125 | TRIVEDI NIRAJ RAMJIBHAI | |
| 46 | D15CL126 | AGRAWAL RIKESH MOHANBHAI | |
| 47 | D15CL128 | SONI SIDDHARTH KAMALKUMAR | |
| 48 | D15CL130 | PARMAR RONAK PARSHOTAMBHAI | |
| 49 | D15CL131 | PATEL HERRICK KAMLESHBHAI | |
| 50 | D15CL132 | JOBANPUTRA TARANG JAGDISHBHAI | |
| 51 | D15CL133 | SHAH DHAIRYA YOGESHKUMAR | |
| 52 | D15CL134 | ASHMANIWALA ISHAN NILESHKUMAR | |
| 53 | D15CL135 | KAKADIYA JALPA ASHOKBHAI | |
| 54 | D15CL136 | SONI KEYUR MADHUSUDAN | |
| 55 | D15CL138 | PATEL ARCHIT DINESHBHAI | |
| 56 | D15CL139 | MASTER KISHAN RASHESHBHAI | |
| 57 | D15CL141 | PATADIYA HARSHIL ASHOKBHAI | |
| 58 | D15CL142 | KARKAR RASHMINKUMAR DEVRAJBHAI | |
| 59 | D15CL143 | KAVATHIA PARTH ASHWINBHAI | |
| 60 | D15CL144 | ZALAVADIYA JAYDEEP NARESHIBHAI | |
| 61 | D15CL145 | PITHADIA RAVI JAGDISHBHAI | |
| 62 | D15CL146 | FULETRA AMITKUMAR VASANTLAL | |
| 63 | D15CL147 | SAKHIYA ANKIT BHUPATBHAI | |
| 64 | D15CL149 | PATEL MAYANK BHUPENDRABHAI | |
| 65 | D15CL150 | AGRAWAL AJAY SANJAY | |
| 66 | D15CL152 | RAJANI SAHILBHAI HITENDRABHAI | |
| 67 | 13CL062 | Keval R Parmar | |
| 68 | 14CL010 | Chaudhari Kinnari D. | |
| 69 | 14CL045 | Machhi Manishaj. | |
| 70 | D14CL142 | Sangani Deepkumar S. | |
| 71 | 13CL025 | Brijesh Dudharejiya | |

# ATTENDANCE SHEET- Expert Talk

**CL 408 :Irrigation and Hydraulic Structures (7th semester of B.Tech Civil Engg.) Topic:** Opportunities & Introduction of Micro Irrigation System (MIS). By: **Dr. Dinesh Patel and Mr. Jignesh Karakr,** Netafim Irrigation, Vadodara, 01 **September 2017,12:00 to 2:00 pm, RPCP Auditorium**

| PSR. NO. | ID NO. | NAME | SIGN |
|---|---|---|---|
| 1 | 12CL101 | SARVAIYA VIPULBHAI JAYANTIBHAI | |
| 2 | 13CL072 | PATEL HARSHALKUMAR ASHWINBHAI | |
| 3 | 14CL001 | BAKRANIYA ZEN VIPULKUMAR | |
| 4 | 14CL002 | BAMBHANIYA HARDIKKUMAR MADHUBHAI | |
| 5 | 14CL003 | BATHANI JATIN BATUKBHAI | |
| 6 | 14CL004 | BHADANI RAVI LABHUBHAI | |
| 7 | 14CL005 | BHOYE NIKHILBHAI DHANASRAMBHAI | |
| 8 | 14CL006 | BHUDIA DIXIT BHIMJI | |
| 9 | 14CL007 | BODA RAJKUMAR ASHVINBHAI | |
| 10 | 14CL008 | BRAHMBHATT VRUSHANK MUKESHBHAI | |
| 11 | 14CL009 | BUDASANA MILAN CHANDULAL | |
| 12 | 14CL010 | CHAUDHARI KINNARIBEN DALSINGBHAI | |
| 13 | 14CL011 | CHAUDHARI KRUNALKUMAR MAHADEVBHAI | |
| 14 | 14CL015 | CHAUHAN DIVYAPRATAPSINH DIGPALSINH | |
| 15 | 14CL016 | CHAUHAN JAYMIN CHETANBHAI | |
| 16 | 14CL017 | CHAVDA SUJEET MAHOBATSANG | |
| 17 | 14CL018 | CHHAYANI ROMIT JAYESHKUMAR | |
| 18 | 14CL019 | CHIKHALIYA KAMAL DILIPBHAI | |
| 19 | 14CL021 | DESAI ASHAY ASHISHKUMAR | |
| 20 | 14CL022 | DESAI CHINMAY PARESHKUMAR | |
| 21 | 14CL023 | DOBARIA JENIL BATUKBHAI | |
| 22 | 14CL025 | GANDHI KEYUR NITINKUMAR | |
| 23 | 14CL026 | GHAYAL DARSHAN ASHWINBHAI | |
| 24 | 14CL027 | GOHIL VISHWAJEETSINH SAHDEVSINH | |
| 25 | 14CL028 | GOTI AKSHIL PRAVIBHAI | |
| 26 | 14CL029 | HADWANI ROMIL AJESHKUMAR | |
| 27 | 14CL030 | JAIN HIMANSHU AVINASH | |
| 28 | 14CL031 | JAKASANIYA DHRUVIL CHANDULAL | |
| 29 | 14CL032 | JOSHI RAJAN KAUSHIK | |
| 30 | 14CL033 | KAKLOTAR RUTVIK GAJENDRABHAI | |
| 31 | 14CL034 | CHIRAG RAMESHBHAI KALSARIYA | |
| 32 | 14CL035 | KANSARA DHRUV ASHUTOSH | |
| 33 | 14CL036 | KANSARI ABHISHEK KIRITKUMAR | |
| 34 | 14CL037 | KANSODARIYA MITUL SHARADBHAI | |
| 35 | 14CL038 | KANTARIYA HARDIK RAGHAVBHAI | |
| 36 | 14CL040 | KHODIFAD MITUL VITTHALBHAI | |
| 37 | 14CL041 | KUMAR ROHIT JAYANT | |
| 38 | 14CL042 | LAD AKSHAY RAMESHCHANDRA | |
| 39 | 14CL043 | LADOLA PRADIP JIVRAJBHAI | |
| 40 | 14CL044 | LIMBANI DIGANT JITUBHAI | |
| 41 | 14CL045 | MACHHI MANISHABEN JETHABHAI | |

# ATTENDANCE SHEET- Expert Talk

**CL 408 :Irrigation and Hydraulic Structures (7th semester of B.Tech Civil Engg.) Topic:** Opportunities & Introduction of Micro Irrigation System (MIS). By: **Dr. Dinesh Patel and Mr. Jignesh Karakr,** Netafim Irrigation, Vadodara, 01 **September 2017,12:00 to 2:00 pm, RPCP Auditorium**

| | | | |
|---|---|---|---|
| 42 | 14CL046 | MAHERIYA SUNILKUMAR RAMESHBHAI | |
| 43 | 14CL047 | MANIYAR YASH SANJAYBHAI | |
| 44 | 14CL048 | MARFATIA UMANG MAHESHKUMAR | |
| 45 | 14CL049 | MIRCHANDANI JIGAR VINODKUMAR | |
| 46 | 14CL050 | MISTRY DHARMINKUMAR BALVANTBHAI | |
| 47 | 14CL051 | MONPARA VIKAS DEVJIBHAI | |
| 48 | 14CL052 | NAVAPARA RUPESHKUMAR PRAVINKUMAR | |
| 49 | 14CL053 | ABHIJEETSINH DIGVIJAYSINH PADHIYAR | |
| 50 | 14CL055 | PANCHAL AKSHAY RAJUBHAI | |
| 51 | 14CL056 | PARMAR AVINASH RASIKBHAI | |
| 52 | 14CL057 | PARMAR HARSHIL ASHOK | |
| 53 | 14CL060 | PATEL ANANT SURESHCHANDRA | |
| 54 | 14CL062 | DHAIRYA DILIPKUMAR PATEL | |
| 55 | 14CL063 | PATEL DHRUV ALPESHKUMAR | |
| 56 | 14CL064 | PATEL FAGUN DINESHBHAI | |
| 57 | 14CL065 | PATEL HIM HARSHADBHAI | |
| 58 | 14CL066 | PATEL JAY NITINBHAI | |
| 59 | 14CL068 | PATEL JAYMIN RAJESHBHAI | |
| 60 | 14CL069 | PATEL JEET BHARATBHAI | |
| 61 | D15CL153 | PARMAR HARSHKUMAR HASMUKHBHAI | |
| 62 | D15CL154 | PATEL KANDARP UMANGBHAI | |
| 63 | D15CL155 | GAJERA VAIDIK JAYANTIBHAI | |
| 64 | D15CL156 | RADHANPURI SADABHUSAIN MOHMMED SIDDIQ | |
| 65 | D15CL157 | PRAJAPATI NIRAV ASHOKBHAI | |
| 66 | D15CL158 | BHATT GAURANG AJAYBHAI | |
| 67 | D15CL159 | GAJJAR SHUBHAM HITESHKUMAR | |
| 68 | D15CL160 | CHAUHAN SMIT GAJENDRABHAI | |

Annexure - III

# CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT), CHANGA – 388 421

## Chandubhai S. Patel Institute of Technology

### M. S. Patel Department of Civil Engineering

# Event Report

| | | |
|---|---|---|
| Name of Event | : | Certificate course on STAAD Pro. and ETABS |
| Date and Time of Event | : | 11th May 2018 to 17st May 2018 |
| Event coordinator | : | Dipali Patel & Mohammad H. Jinyawala |
| Resource person details (if any): | | Dipali Patel & Mohammad H. Jinyawala |

| Sr. No. | Name of the resource person | Organization of resource person |
|---|---|---|
| 1 | Dipali Patel | CHARUSAT |
| 2 | Mohammad H. Jinyawala | CHARUSAT |

**Event Schedule:**

| Date | Time | Activity |
|---|---|---|
| 11/05/2018 – 17/05/2018 | 9:00 to 04:30 | Hands on training on software |

**Summary of the Event (Maximum 200 words):**

A six days software certificate course on STAAD.Pro and ETABS was organized by M. S. Patel Department of Civil Engineering, CSPIT, CHARUSAT from 11th May to 17th May 2018. Civil engineering is an extensive field where number of companies are working in different areas like planning, designing, construction,

management etc. Software skills are highly sought after skills in the industry today. The main objective of the workshop was to make the students aware about the advanced technology being used in civil engineering field and thus fill the gap between industrial demand and the academic supply.

The topics like modelling of beam, plane frame, space frame and Industrial building were explained with the application of primary loads and secondary loads including Earthquake load and wind load. Also the design of steel structures and RCC structure were explained in detail. The students gained the skill of modeling, analyzing and designing the structures with the help of softwares.

**Course Outcome:**

After successful completion of course:

- Students will be able to model the space frame / real building using STAAD Pro. and ETABS software
- Students will be able to design the structures for primary and secondary loads.

**Registration fee (if any):** Rs. 3000

**No. of Entries:** 12

**List of Participants:** (Find Enclosure)

**Amount sanctioned by CSPIT/CHARUSAT:** Nil

**Overall impact of workshop:** Very Good

**Coordinator Sign:** Dipali Patel

**Head of Department Sign:**

## List of Entries

| ID No. | Your Full Name |
|---|---|
| 15CL122 | Zaveri Vikhyati |
| D16CL132 | Tej Chavda |
| 16CL106 | Nikhil Wadhwani |
| 16CL083 | Jayrajsinh Rathod |
| D16CL147 | Gohil Manish |
| D16CL152 | Yash Patel |
| 15CL019 | Manal Desai |
| 15CL034 | Dharamaraj Hindustani |
| D16CL137 | Jatin Bhanushali |
| 14CL089 | Neha Rajput |
| 15CL040 | Darshil Kalariya |
| 15CL041 | Darshit Kalavadia |

**Event Photograph:**



# CHAROTARUNIVERSITY OF SCIENCE AND TECHNOLOGY
## Chandubhai S Patel Institute of Technology
### Manubhai Shivabhai Patel Department of Civil Engineering

**ACTION TAKEN ON FEEDBACK FROM STAKEHOLDERS (Year 2018 - 19)**

Suggestions given by stakeholders were considered and following actions were discussed and implemented.

- Change of teaching and examination scheme of Environment Sciences was made which will be implemented from year 2019-20: **(Annexure – I)**

| Evaluation | Pedagogy |
|---|---|
| External | Practical Examinations, Presentation with Report, Case Studies, MOOCs, etc. (70 Marks) |
| Internal | Attendance (5 Marks) |
| | Continuous Evaluation (From Quiz, Assignments, Seminars, Projects, Presentation, etc.- 25 Marks) |

- For raising awareness about the 17 SDGs, their targets and the 2030 Agenda for Sustainable Development amongst youth, build a platform for discussion, and create conditions for their active engagement, SDG Handprint Laboratory was introduced in B. Tech. Semester 3 as University Elective and implemented from year 2019-20. **(Annexure – I)**
- Following methods of learning are adopted: **(Annexure – I)**

  Taking presentations so that students can learn to present themselves.

  Teachers' Blog/ Google Classroom

  Students' participation in various technical events / workshops / Expert Talks / Field Visits

  MOOCs / NPTEL online courses

  Involving students in projects
- Faculty members have introduced various assessment tools under pedagogy as per the course requirements. **(Annexure – I)**

Vedanti M.V.

Ms. Mitali Vedanti
Assistant Professor

Dr. V. R. Panchal,
Professor and Head,
M S Patel Department of Civil Engineering,
CSPIT, CHARUSAT

Annexure - I

## Minutes – 17th Meeting of Board of Studies in Civil Engineering

**Date : 31st August 2019, Saturday**

**Time : 10:00am**

**Venue: Civil Engg. Dept., CSPIT, CHARUSAT**

The 17th meeting of the Board of Studies (BOS), Civil Engineering, Faculty of Technology and Engineering, Charotar University of Science and Technology (CHARUSAT) was held as per above schedule.

Following members were present:

| | | | |
|---|---|---|---|
| 1. | Dr. V. R. Panchal | Chairman | Professor & Head, Department of Civil Engineering, CSPIT |
| 2. | Ms. Neha Chauhan | Internal Member | Asst. Professor, Department of Civil Engineering, CSPIT |
| 3. | Ms. Dipali Patel | Internal Member | Asst. Professor, Department of Civil Engineering, CSPIT |
| 4. | Dr. Hiteshri Shastri | Internal Member | Associate Professor, Department of Civil Engineering, CSPIT |
| 5. | Dr. N. C. Shah | Invitee | Advisor, Uka Tarsadiya University, Bardoli |
| 6. | Dr. H. M. Patel | External Expert | Professor, Department of Civil Engineering, Faculty of Technology and Engineering, The M. S. University of Baroda, Vadodara |
| 7. | Prof. D. G. Panchal | External Expert | Dean, Faculty of Technology, D. D. University, Nadiad |
| 8. | Dr. Jay Shukla | External Expert | Principal Engineer, Geodynamics Vadodara |
| 9. | Dr. Sanjay Dhiman | External Expert | Associate Professor, Civil Engineering Department, B. V. M. College of Engineering, V. V. Nagar |

| | | | |
|---|---|---|---|
| 10. | Mr. Bhavin Shah | External Expert | Chief Executive officer (CEO) VMS Engineering & Design Services Pvt. Limited, Ahmedabad |
| 11. | Dr.Bimal A Shah | External Expert | Associate Professor & Head, Applied Mechanics Department, M. S. University of Baroda, Vadodara |
| 12. | Dr. Sharad Purohit | External Expert | Professor, Department of Civil Engineering, Institute of Technology Nirma University, Ahmedabad |
| 13. | Mr. Indranil Basu | External Expert | Senior Deputy General Manager, L & T Power, L&T Knowledge City, Vadodara |

**Initiation:**

Chairman welcomed members of Board of Studies (BOS) and introduced them and initiated the proceedings by taking up the agenda for discussion by members.

**Proceedings & Resolutions:-**

**Agenda No. 17.01: For Confirmation:** Approval of Minutes of the 16th BOS Meeting

**Proceeding No. 17.01**

Minutes of 16th Meeting of BOS, Faculty of Technology & Engineering were circulated to BOS members in advance. Chairman outlined the summary and the actions taken on the received suggestions of 16th Meeting of Board of Studies and invited further comments.

**Resolution No. 17.01**

As no comments were received on circulation of Minutes, the minutes of meetings were confirmed. The same are attached as **Annexure - 1.**

**Agenda No. 17.02: For Discussion:** Review of Results of Academic year 2018-19

**Proceeding No. 17.02:**

Chairman presented the University Exam Results B. Tech and M. Tech of Academic Year 2018-19 semester wise and course wise to the Board members. The same is attached as **Annexure - 2.**

**Resolution No. 17.02**

The Board deliberated on the courses which were having more than 10% failure. Following suggestions were given by the Board to improve the results in future:

1. Engineering Graphics Subject can be shifted to 2nd semester as students do not have imaginative and creative thinking in 1st semester.
2. Encourage student to refer more books for analytical subjects.
3. Starter Courses including outline of role of engineering society should be given to newly admitted students to increase their analytical skills.
4. Mathematics subject should be continued up to 6th semester.

**Agenda No. 17.03: Discussion:** Placements activities carried out in Academic year 2018-19

**Proceeding No. 17.03:**

Chairman presented details of placement activities carried out in Academic year 2018-19 and briefed about the placement details of students. The details are attached as **Annexure - 3.**

**Resolution No. 17.03**

Following suggestions were given by the Board to improve the placement in future:

1. Conduct AMCAT employability test to check the aptitude, technical skills, mental ability and reasoning skills of candidates seeking a job with top MNCs.

**Agenda No. 17.04: Discussion**: Research Activities, Projects and Consultancy, etc. carried out during AY 2018-19

**Proceeding No. 17.04:**

Chairman presented the details of research activities, projects and consultancy carried out in Academic year 2018-19 and briefed about the same. The details are attached as **Annexure - 4.**

**Resolution No. 17.04**

Board members appreciated efforts made by members of Environment Audit Cell. Following suggestions were also given by the Board to improve research activities and projects in future:

1. Faculty members involved in Audit of industries should take up consultancy projects of Environmental Impact Assessment (EIA).

**Agenda No. 17.05: Discussion**: Review of question papers scrutiny report 2018-19

**Proceeding No. 17.05:**

Chairman presented the question paper scrutiny report of question papers of the year 2018-19. Board members deliberated on the report. The report is attached as **Annexure - 5.**

**Resolution No. 17.05**

Board members noted that majority of the question papers reviewed by the subject experts were of **"Good"** to **"Very Good"** Category and few were of **"Excellent Category"**. The external experts of the Board were of the opinion that the standard of question papers is generally of very good category. The following suggestion was given by the members:

1. Question Paper should be drawn as per Bloom's Taxonomy.
2. Take question paper feedback from NIT faculties, also.
3. Student should be educated about the question paper pattern.

**Agenda No. 17.06: Discussion**: Admission and Quality of Inputs

**Proceeding No. 17.06:**

Chairman gave brief note about the admission of current year and invited suggestions to improve admission in future. The details are attached as **Annexure - 6.**

**Resolution No. 17.06**

BOS members remarked on the falling demand of Civil engineering and emphasised the requirement of enhanced outreach activity, by which the common public can be sensitized about Civil engineering

Board suggested the following activities:

1. Increase Placements
2. Give More Weightage to Hands on training
3. Increase Industry Liaison.
4. Invite Faculty members from IITs and NITs as Adjunct Professors.
5. Conduct Civil engineering competitions and workshops at school level to enhance the awareness.
6. Undertake Civil engineering projects from nearby villages and extend free consultancy services.
7. Motivate students to adopt villages nearby and solve the civil engineering issues by way of projects.
8. Expose students to international civil engineering practices.

**Agenda No. 17.07: Approval:** Review and approval of course structure and First and Second Year syllabi of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students, who are enrolled in AY 2019-20.

**Proceeding No. 17.07:**

Chairman presented course structure and First (CL142.01, CL142A.01 and CL143) and Second Year syllabi of CBCS based B.Tech. (Civil Engineering) program. Members deliberated on the course structure and First and second year syllabi. The details are attached as **(Annexure - 7a).**

Chairman gave brief note about the modification made in teaching and examination schemes of Environmental Sciences course (CL142/CL142A) (which is being offered across the University in Theory mode during odd and even semesters) and informed new course code (CL142.01/CL142A.01).

Chairman informed about the revisions in the credits of few subjects, which has resulted in reduction in the total credits of B. Tech course structure to be earned by the students (who are enrolled in Academic Year 2019-20) from 192 to 176.

**Resolution No. 17.07**

Board reviewed and granted approval to course structure of CBCS based B. Tech (Civil Engineering) along with its first and second year syllabi and total credits **(for students enrolled in 2019-20).** Board also approved new course code of CL142/CL142A and modification made in teaching and examinations schemes of the course. Following suggestions were also given by the Board:

1. Environmental Sciences course should be of 01 credit.
2. Communication Skills subject should be practical based.
3. Civil Engineering related mechanics should be taught in Engineering Physics as per AICTE model Curriculum.

**Agenda No. 17.08: Approval:** Review and approval of course structure and Third Year syllabus of CBCS based B.Tech. (Civil Engineering) program **(for students enrolled in AY 2018-19)**

**Proceeding No. 17.08:**

Chairman presented course structure and Third Year syllabus of CBCS based B.Tech. (Civil Engineering) program. Members deliberated on the course structure and third year syllabus. The details are attached as **(Annexure – 7b).**

**Resolution No. 17.08**

Board reviewed and granted approval to course structure of CBCS based B. Tech (Civil Engineering) along with its third year syllabus **(for students enrolled in 2018-19).** Following suggestions were also given by the Board:

1. Estimation and Valuation course should be offered at third year level, if possible.
2. Earthquake Engineering course should be offered as compulsory subject, if possible.
3. Number of Courses of B. Tech. $7^{th}$ semester should be reduced, if possible.
4. Credit should be given to tutorials as per AICTE model Curriculum.
5. Tutorial should be removed from CL 349 syllabus.
6. Term "NDT" should be used in place of "UPV" in CL 349 and remove rebound hammer test.
7. In CL 352, increase the weightage of diversion head works and reduce the weightage of ground water hydrology.

**Agenda No. 17.09: Approval:** Review and approval of course structure and Second Year syllabus of CBCS based M.Tech. (Civil – Structural Engineering) program to be implemented for the students, who are enrolled in AY 2019-20.

**Proceeding No. 17.09:**

Chairman presented course structure and Second Year syllabus of CBCS based M.Tech. (Civil – Structural Engineering) program. Members deliberated on the course structure and second year syllabus. The details are attached as **(Annexure - 7c).**

Chairman informed about the revisions in the credits of few subjects, which has resulted in reduction in the total credits of B. Tech course structure to be earned by the students (who are enrolled in Academic Year 2019-20) from 102 to 90.

**Resolution No. 17.09:**

Board reviewed and granted approval to course structure of CBCS based M. Tech (Civil – Structural Engineering) along with its second year syllabi and total credits **(for students enrolled in 2019-20).**

**Agenda No. 17.10: For Discussion:** Pedagogy & Suggest improvement for its modification

**Proceeding No. 17.10**

The current Pedagogy of all courses of odd and even semesters of AY 2018-19 was presented by the Chairman. The pedogody is attached as **Annexure - 8**

**Resolution No. 17.10**

The following suggestions were given by the Board members:

1. Evaluation of the students should be done on the basis of conceptual understanding.
2. More workshops having practical exposure shall be organised at the department level for both students and faculty members.
3. Emphasis should be given on project work.
4. Theory and practical should go simultaneously.
5. Faculty and students should be involved in live projects with industries.
6. Application oriented teaching should be practiced.
7. Collect feedback from stake holders and do extensive analysis of feedback to do necessary updates in the syllabus and curriculum.

**Agenda No. 17.11: Approval:** Panel of Examiners for 2019-20

**Proceeding No. 17.11**

Chairman presented the panel of examiner and asked for the suggestion. The details are attached as **(Annexure – 9)**

**Resolution No. 17.11**

Member suggested to include Mr. B. R. Naidu retired Environmental Engineer from CPCB.

**Agenda No. 17.12: Approval:** Review and approval of course structure of newly introduced SDG handprint laboratory (CL283), to be offered as a University Elective - I in 3rd Semester across the University and to be implemented for the students, who are enrolled in AY 2019-20.

**Proceeding No. 17.12**

Chairman presented course structure of SDG handprint laboratory (CL283). Members deliberated on the course structure. The details are attached as **(Annexure - 10).**

**Resolution No. 17.12**

Board reviewed and granted approval to course structure of SDG handprint laboratory (CL283) **(for students enrolled in 2019-20).** Following suggestions were also given by board members.

1. Introduction of SDG handprint laboratory course for all students of University is a good initiative taken by Civil Engineering Department and this course can be considered as industry defined course.
2. Remove the term **"lectures"** from the pedagogy of SDG handprint laboratory.

**Agenda No. 17.13: For information:** NBA Accreditation for Civil Engineering

**Proceeding No. 17.13**

Chairman briefly provided information regarding obtaining the NBA accreditation as a University policy. However, the Civil Engineering Department can't go for the NBA accreditation in the current academic year as number of available PhDs in the department is less than 20% of the number of faculty members of department as per NBA requirement.

**Resolution No. 17.13**

Members suggested to recruit more faculty members having PhD degree before going for the NBA Accreditation.

**Agenda No. 17.14: For Discussion:** Massive Open Online Courses (MOOCs) on SWAYAM Platform

**Proceeding No. 17.14**

Chairman gave a brief overview about the university initiative about the SWAYAM courses and informed that UGC has also issued UGC Regulations, to allow credit transfer up to 20% on the basis of MOOCs on SWAYAM.

**Resolution No. 17.14**

Board members suggested to identify the MOOCs related to Civil Engineering from SWAYAM Platform, which can be offered to the students of Civil Engineering and put the same before Board of Studies for approval.

**Agenda No. 17.15: For Discussion:** Examiner feedback review of question papers

**Proceeding No. 17.15**

A brief overview of the process of taking feedback from examiners on the question papers was given to the Board members by the Chairman. The existing feedback forms were shown to the Board members.

**Resolution No. 17.15**

Board members noted that feedbacks received from external examiner are satisfactory.

**Agenda No. 17.16: For Discussion:** New Programs

**Proceeding No. 17.16**

Chairman invited suggestions on proposed engineering programs that may be taken up in future.

**Resolution No. 17.16**

The following suggestions were given by the board members.

Board members suggested to start new M. Tech. Programs in (Environmental Engineering)/ Construction Engineering and Management/ Transportation Engineering. However, Chairman informed that Master Programs can not be started as department is not accredited by NBA.

**Agenda No. 17.17: For Discussion**: Road-Map 2024 document

**Proceeding No. 17.17**

Chairman invited suggestions from Board members regarding Road-Map 2024 document.

**Resolution No. 17.17**

The Board pointed out to prepare a document emphasising the benchmark achievement for the next 5 years and the same need to be audited every year for the evaluation of shortfall.

**Agenda No. 17.18: For Discussion:** Quality of Research in Ph.D

**Proceeding No. 17.18**

Chairman invited suggestions from Board members regarding Quality of Research in Ph.D.

**Resolution No. 17.18**

Teaching learning environment in the department can be enhanced by involving more students in research activities on-going in the department. Students and faculty members may be motivated to visit research organizations for gaining exposure and knowledge. A talk and

discussion by external experts drawn from R & D organizations should be arranged for faculty members and students.

**Agenda No. 17.19: For Discussion:** Part-time Post Diploma Degree Course (PDDC)

**Proceeding No. 17.19**

Chairman invited suggestions on proposed Part-time Post Diploma Degree Course (PDDC) that may be taken up in future.

**Resolution No. 17.19**

Board members suggested to start Part-time Post Diploma Degree Course (PDDC) and advised that before starting of such program feasibility study should be carried out and the study should cover following:

1. Scenario in Gujarat,
2. Detailed syllabus and teaching and examination schemes of all years of program,
3. Laboratory and infrastructure facilities required,
4. Requirements of Statutory body approval
5. Eligibility criteria for candidates as per Government Rules
6. Estimate for starting PDDC program

**Agenda No. 17.20: For Discussion:** Achievements of Students and Faculty members

**Proceeding No. 17.20**

Chairman presented Achievements of Students and Faculty members for the AY 2018-19. The details are attached as **Annexure – 11**.

**Resolution No. 17.20**

Board members appreciated efforts made by Department, Institute and University for encouraging students to participate in the international internships by providing special leaves and faculty members to participate in events by providing financial assistance.

***As there was no other item, the meeting ended with a vote of thanks by the Chairman.***

**Dr. V. R. Panchal**
**Chairman, BOS**

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# CHAROTARUNIVERSITY OF SCIENCE AND TECHNOLOGY
## Chandubhai S Patel Institute of Technology
### Manubhai Shivabhai Patel Department of Civil Engineering

**ACTION TAKEN ON FEEDBACK FROM STAKEHOLDERS (Year 2019-20)**

Suggestions given by stakeholders were considered and following actions were discussed and implemented.

- In all the courses group activities, case studies, presentations, report writing is included in the pedagogy. **(Annexure – I)**
- Courses were accordingly designed in a manner that shall help the students to cope up with the contents of competitive examinations. **(Annexure – I)**
- To have detailed study of structural design, design of concrete and steel structures are separated as different courses and will be implemented from year 2021-22. Also, discussion on failure of structures and load assessment is included to make students conscious about importance of good structural design. **(Annexure – I)**
- Minor specialization in the EMERGING AREAS viz., Artificial Intelligence (AI), Internet of Things (IoT), Blockchain, Quantum Computing, Data Sciences, 3D Printing and Design, Augmented Reality/Virtual Reality (AR/VR), etc. were introduced in B.Tech. Civil Engineering. **(Annexure – I)**
- To implement minor specialization, experts of the field (both from Computer Engineering and Civil Engineering) were consulted. The minor specialization courses are offered as institute electives. **(Annexure – I)**

Vedanti M.U.

Ms. Mitali Vedanti

Assistant Professor

Dr. V. R. Panchal,

Professor and Head,

M S Patel Department of Civil Engineering, CSPIT, CHARUSAT

Annexure - I

## Minutes – 18th Meeting of Board of Studies of Civil Engineering

**Date : 4th July 2020, Saturday**

**Time : 10:00 a.m. onwards**

**Venue: Through Google Meet**

The 18th meeting of the Board of Studies (BOS), Civil Engineering, Faculty of Technology and Engineering, Charotar University of Science and Technology (CHARUSAT) was held as per above schedule.

Following members were present:

| | | | |
|---|---|---|---|
| 1. | Dr. V. R. Panchal | Chairman | Professor & Head, Department of Civil Engineering, CSPIT |
| 2. | Dr. Hiteshri Shastri | Internal Member | Associate Professor, Department of Civil Engineering, CSPIT |
| 3. | Ms. Neha Chauhan | Internal Member | Assistant Professor, Department of Civil Engineering, CSPIT |
| 4. | Ms. Dipali Patel | Internal Member | Assistant Professor, Department of Civil Engineering, CSPIT |
| 5. | Dr. N. C. Shah | Invitee | Advisor, Uka Tarsadiya University, Bardoli |
| 6. | Dr. H. M. Patel | External Expert | Professor, Department of Civil Engineering, Faculty of Technology and Engineering, The M. S. University of Baroda, Vadodara |
| 7. | Dr. Sanjay Dhiman | External Expert | Associate Professor, Civil Engineering Department, B. V. M. College of Engineering, V. V. Nagar |
| 8. | Mr. Bhavin Shah | External Expert | Chief Executive officer (CEO)<br>VMS Engineering & Design Services Pvt. Limited, Ahmedabad |
| 9. | Dr. Sharad Purohit | External Expert | Professor, Department of Civil Engineering, Institute of Technology, Nirma University Ahmedabad |

**Initiation:**

Chairman welcomed members of Board of Studies (BOS) and introduced them and initiated the proceedings as per Agenda.

**Proceedings & Resolutions:-**

**Agenda No. 18.01: For Approval:** Approval of Minutes of the 17th BOS Meeting

**Proceeding No. 18.01**

Minutes of 17th Meeting of BOS, Faculty of Technology & Engineering were circulated to BOS members in advance. Chairman outlined the summary and the actions taken on the received suggestions of 17th Meeting of Board of Studies and invited further comments.

**Resolution No. 18.01**

As no comments were received on circulation of Minutes, the minutes of meetings were confirmed. These are attached as **Annexure – 1.**

**Agenda No. 18.02: Approval:** To review and approve course structure and Third Year syllabi of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students enrolled in AY 2019-20.

**Proceeding No. 18.02**

Course structure and Third year syllabi of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students enrolled in AY 2019-20 were presented. Members deliberated on the course structure and Third year syllabi. The course structure is attached as **Annexure – 2.**

**Resolution No. 18.02**

Board reviewed and granted its approval to course structure and Third Year syllabus of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students enrolled in AY 2019-20.

**Agenda No. 18.03:Approval**:To review and approval of Course structure and Final year syllabi of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students enrolled in AY 2018-19.

**Proceeding No. 18.03**

Course structure and Final year syllabi of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students enrolled in AY 2018-19 were presented. Members

deliberated on the course structure and Final year syllabi. The course structure is attached as **Annexure – 3.**

**Resolution No. 18.03**

Board reviewed and granted approval to Course structure and Final year syllabi of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students enrolled in AY 2018-19.Following suggestions were given by the Board members:

1. "Load assessment and Design Philosophies" should be added as first unit in CL451 Design of Reinforced Concrete Structures.
2. Design of conventional and continuous slab should be clubbed in one unit in CL451.
3. Failure of Structures should also be added as a unit in both courses CL451 and CL452, to sensitize students to the importance of good structural design.

**Agenda No. 18.04: Approval:** To review and approve course structure CBCS based B.Tech (Civil Engineering) program and detailed syllabi of 1st and 2nd years applicable for 2020-21 Admission Batch.

**Proceeding No. 18.04**

Course structure CBCS based B.Tech (Civil Engineering) program and detailed syllabi of 1st and 2nd years applicable for 2020-21 Admission Batch were presented. The details are attached as **Annexure – 4.**

Chairman briefly informed about the modification made in Course structure and syllabus of Environmental Sciences course (CL142.01/CL142A.01) (which is being offered across the University in practical mode during odd and even semesters) and informed new course code (CL144A/CL144B/CL144C). The same is attached as **Annexure – 5.**

**Resolution No. 18.04**

Board reviewed and granted approval to Course structure CBCS based B.Tech (Civil Engineering) program and detailed syllabi of 1st and 2nd years applicable for 2020-21 Admission Batch.

The new course structure and syllabus of Environmental Sciences were approved by the board members with a suggestion to visit the Gujarat Ecological Commission by concerned faculty members.

**Agenda No. 18.05: Approval:** To review and approve M Tech program in online mode planned by Civil Engineering Department

**Proceeding No. 18.05**

Chairman asked M Tech Coordinator (internal member of BOS) to present the details of M Tech program in online mode planned by Civil Engineering Department.The details are attached as **Annexure – 6.**

**Resolution No. 18.05**

Board Members approved with the suggestions that only up to 20% credit transfer should be permitted in every semester through online courses provided through SWAYAM platform.

**Agenda No. 18.06: For Discussion:**Analysis and discussion on the semester end results of the Academic year 2019-20 and steps taken for the remedial actions.

**Proceeding No. 18.06**

Semesters wise and Course wise End Semester Examination results of B. Tech and M. Tech programs of Academic Year 2019-20 was presented to the Board members. The same is attached as **Annexure –7.**

**Resolution No. 18.06**

The Board deliberated on the courses which were having more percentage failure. Following suggestions were given by the Board members to improve the results in future:

1. Geotechnical Engineering - II (CL 444) course should be taught in such a way that it should include questions of competitive examination such as GATE and also include advance topics to develop interest in the students, if not included.
2. Extra efforts should be made for the slow learners.

**Agenda No. 18.07: Discussion:** Analysis on placement of AY 2019-20.

**Proceeding No. 18.07**

Chairman presented details of placement activities carried out in Academic year 2019-20 and the placement details of students. The same is attached as **Annexure – 8.**

**Resolution No. 18.07**

Board members suggested that proposed B. Tech in Civil Engineering with minor specialization will improve the placement of students in future.

**Agenda No. 18.08: For Approval:** Approval of Synopsis and panel of potential reviewers/referees for PhD thesis of Ms. Hema R. Parmar (12DRCL001), Research Scholar, Department of Civil Engineering.

**Proceeding No. 18.08**

Ms. Hemaben R. Parmar (12DRCL001) presented her synopsis on "Hydro Geological Study of Multi Aquifers Causing Water Logging and Salinity in Dharoi Command Area" to the BOS members. Itis attached as **Annexure – 9a**. Suggestions for the panel ofpotential reviewers/referees for her Ph. D. Thesis of Ms. Hemaben R. Parmar were invited by the Chairman.The same is attached as **Annexure – 9b.**

**Resolution No. 18.08**

Members of Board of Studies approved the synopsis of Ms. Hemaben R. Parmar (12DRCL001) with minor corrections &the panel of reviewers/ referees.

**Agenda No. 18.09: Approval:** CBCS M. Tech (Structural Engineering) teaching and examination schemes to be implemented for the students enrolled in AY 2019-20 and to be enrolled in AY 2020-21.

**Proceeding No. 18.09**

The teaching & examination schemes for CBCS M.Tech (Structural Engineering) Program to be implemented for the students enrolled in AY 2019-20 and to be enrolled in AY 2020-21 were presented.The details are attached as**Annexures–10a and 10b.**

**Resolution No. 18.09**

Board reviewed and granted approval to CBCS M. Tech (Structural Engineering) Teaching and Examination Schemes to be implemented for the students enrolled in AY 2019-20 and to be enrolled in AY 2020-21.

**Agenda No. 18.10: Approval:** To review and approval of course structure of CBCS based B.Tech. (Civil Engineering) program to be implemented for the students, who are enrolled in AY 2017-18.

**Proceeding No. 18.10**

The course structure of CBCS based B.Tech. (Civil Engineering) program is to be implemented for the students, who are enrolled in AY 2017-18 was presented before BOS members. The same is attached as **Annexure –11.**

**Resolution No. 18.10**

Board reviewed and granted approval to the course structure.

**Agenda No. 18.11: For Approval:** To review and to approve panel of examiner for winter and summer examinations 2020-21.

**Proceeding No. 18.11**

The panel of examiner for winter and summer examinations 2020-21 was put forward. The same is attached as **Annexure – 12.**

**Resolution No. 18.11**

Board granted its approval to the proposed panel of examiners.

**Agenda No. 18.12: Discussion:** Pedagogy of AY 2019-20 and suggestions for improvement or modification.

**Proceeding No. 18.12**

The current Pedagogy of all courses of odd and even semesters of AY 2019-20 was presented. The pedagogy is attached as **Annexure –13**

**Resolution No. 18.12**

The board members noted the current pedagogy.

**Agenda No. 18.13: Discussion:** Question Papers Scrutiny Report 2019-20

**Proceeding No. 18.13:**

The Question Papers Scrutiny Report 2019-20 was presented.Board members deliberated on the report. The reportis attached as **Annexure –14.**

**Resolution No. 18.13**

Board Members noted that majority of the question papers reviewed by the subject experts were of **"Good"** to **"Very Good"** Category and few were of **"Excellent Category"**.

**Agenda No. 18.14: Discussion:** Minor specialization in the Emerging Areas viz., Artificial Intelligence (AI), Internet of Things (IoT), Blockchain, Robotics, Quantum Computing, Data Sciences, Cyber Security, 3D Printing and Design, Augmented Reality/ Virtual Reality (AR/VR), etc. to be offered from AY 2020-21 admission batch to earn B. Tech in Civil Engineering with minor specialization in the Emerging Areas.

**Proceeding No. 18.14:**

Chairman explained about the requirements of minor specialization to be offered with Major Discipline like Civil Engineering and sought suggestions from board members regarding choice of minor specialization to be offered.

**Resolution No. 18.14:**

Following suggestions were given by the Board members:

1. The board members appreciated the move and recommended that senior faculty members of Civil Engineering Department in consultation with Experts/faculty members related to the emerging areas can finalizeminor specialization to be offered to the students of 2020-21 admission batch.
2. It was also suggested that prerequisites related to the minor specialization should be checked and offered for effective knowledge impartation.

The Board authorized chairman of BOS of Civil engineering to initiate action in the matter and subsequently inform the board after finalization of course structure and syllabi.

**Agenda No. 18.15: Discussion:**Planning of online course conduction and its effective implementation.

**Proceeding No. 18.15**

Chairman opened the discussion by talking about the plans of online education impartation and challenges faced.

**Resolution No. 18.15**

1. Board members agreed that online education was a challenge especially for analytical subjects. They also agreed that maintaining student attentiveness, network issues, platform constraints are other issues that everyone is facing.
2. Members suggested taking a small quiz at the end of the lecture to check the attentiveness of the students.
3. Making videos of the experiments to be performed was also suggested for conducting lab sessions. Virtual labs can also be utilized for the same.

**Agenda No. 18.16: Discussion:** Examiner feedback review of question papers of AY 2019-20.

**Proceeding No. 18.16**

The existing feedback review of question papers of AY 2019-20 were shown to the Board members. The same is attached as **Annexure – 15.**

**Resolution No. 18.16**

Board members noted the feedbacks received from external examiners.

**Agenda No. 18.17: Discussion:** Research Activities, Project and Consultancy of AY 2019-20 and preparation of the action plan for the same.

**Proceeding No. 18.17**

The details of Research Activities, Project and Consultancy of AY 2019-20 were presented.The same is attached as **Annexure – 16.**

**Resolution No. 18.17**

Board members appreciated the efforts made by the Department.

**Agenda No. 18.18: Discussion:** Admissions and Quality of Inputs of AY 2019-20.

**Proceeding No. 18.18**

The details of admissions of AY 2019-20and efforts made by faculty members of Civil Engineering Department to improve the admissions were presented. The same is attached as **Annexure – 17.**

**Resolution No. 18.18**

Board members noted the admissions and efforts made by the Department.Board members suggested that proposed B. Tech in Civil Engineering with minor specialization will improve the admission of students in future.

**Agenda No. 18.19: Discussion:** Discussion on the feedback of the stakeholders to improve the various practices adopted by Civil Engineering Department.

**Proceeding No. 18.19**

The feedback of the stakeholders to improve the various practices adopted by Civil Engineering Department was presented. The same is attached as **Annexures – 18a and 18b.**

**Resolution No. 18.19**

Board members noted the feedbacks received from various stake holders.

**Agenda No. 18.20:** Discussion on effective implementation of Outcome-Based Education (OBE) and utilization of Smart Class Room (ICT) based Teaching Learning.

**Proceeding No. 18.20**

Chairman asked for the suggestions on the effective implementation of OBE.

**Resolution No. 18.20**

Board members suggested to make students aware about the OBE process and its importance.

**Agenda No. 18.21:** Discussion on the preparation of NBA and NAAC done by the Civil Engineering Department.

**Proceeding No. 18.21**

Chairman informed efforts made by faculty members of Civil Engineering Department regarding NAAC preparations. He also informed that the Civil Engineering Department can't go for the NBA accreditation due to non-compliance of criteria of Pre-qualifier.

**Resolution No. 18.21**

Members suggested to fulfil the criteria of Pre-qualifier before applying for NBA.

***As there was no other item, the meeting ended with a vote of thanks by the Chairman.***

**Dr. V. R. Panchal**
**Chairman, BOS**

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