

A Report

on

ISTE-SRM Sponsored One week STTP

"Recent Advances in Concrete Technology

&

Sustainable Concrete Construction Practice"

during

(19th - 23rd May, 2014)



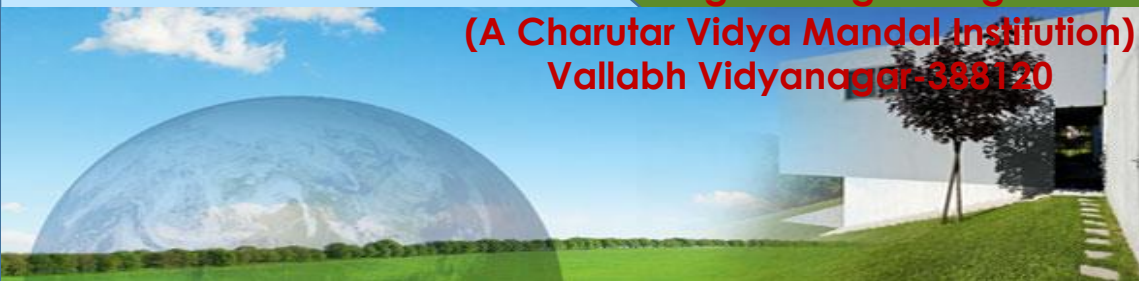
Presented By:

Prof. (Dr.) Indrajit Patel & Ms. Jagruti Shah

Organizers:



**Department of Structural Engineering
BVM Engineering College
(A Charutar Vidya Mandal Institution)
Vallabh Vidyanagar-388120**

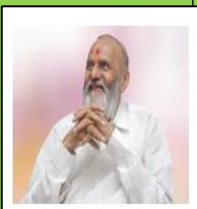


ISTE-SRM Sponsored One week STTP

*"Recent Advances in Concrete Technology
&
Sustainable Concrete Construction Practice"*

The Concepts:

The main goal of ISTE is to serve as a common agency for stimulating and guiding its members to formulate the general goals and responsibilities of technical education for the service of mankind and the advancement of general welfare. - **Dr. R. Murugesan, President, ISTE**



CVM is one of India's leading NGO and non-profitable charitable organization working in the field of education founded to cater education to the rural mass of Gujarat. In this age of the Global Village, when global interdependence and competition are upon us, CVM is trying to educate and train our youngsters to keep up and keep pace with the best and the brightest in the world. CVM is offering all the programmes of study appropriate to the modern age, and maintaining high standards of education. CVM is always supporting all the activities for Students and faculties' development. – **Dr. C. L. Patel, Chairman, CVM**

To encourage Research, Innovation & Globalization, GTU is continuously involved in organizing seminars, workshops and conferences at national and international level. Centers like Curriculum Development Centre, Innovation Council, Integrated Training and Placement Cell, PG Research Centers are set for the constant development and up gradation of the education at the University. GTU is constantly taking step towards development of faculties and industry academia partnerships. - **Dr. Akshai Aggarwal, Vice Chancellor, GTU**



About STTP:

For buildings and civil engineering structures of all kinds, concrete is the second most widely used construction material in the world after the water. Numerous advances in all areas of concrete technology including materials, mixture proportioning, recycling, structural design, durability requirements, testing and specifications have been made. In recent years, researchers have focused on the improvement of concrete quality regarding its mechanical and durability properties, service life and environmental aspects. These can be achieved by some strategic policies such as application of the supplementary cementitious materials regarding energy and pollution mitigation. Advancement in concrete technology, novel materials and practices has led to the improvement of concrete durability, extending its application as a key element in sustainable development. Sustainable construction is of recent origin. However, its importance in the future evolution of our civilization cannot be denied. As resources diminish globally and the environment comes under increasing stress, the adoption of sustainable design and construction practices is an important strategy to meet the needs of the present without compromising the ability of future generations to meet their needs.

With the Support of ISTE & SRM University, Department of Structural Engineering, BVM engineering College had organized one week Short Term Training Programme on "Recent Advances in Concrete Technology & Sustainable Concrete Construction Practice" during 19th-23rd May, 2014 at BVM College, Vallabh Vidyanagar.

Inaugural Session:

The STTP had inaugurated by esteemed Chief Guest Prin. Er. V. M. Patel, Hon'ble Jt. Secretary, CVM, VV Nagar, Eminent Key Note Speaker, Dr. M. K. Kamat, CMD, Krishna Conchem Products Pvt. Ltd, Navi Mumbai, Maharashtra, Guest of Honour Dr. F. S. Umrigar, Principal-BVM College, Dr. A. K. Verma, Head-Structural Engineering Department & Program Coordinator Dr. Indrajit Patel, Professor, Structural Department.

36 participants from various polytechnics, Engineering colleges and Industrial professionals across Gujarat, Heads of Different sections, Eminent expert speakers Dr. C. D. Modhera and Dr. D.B. Raijiwala, SVNIT-Surat, Faculty Members, PG Students, Dr. Darshana Bhatt, Program Co-coordinator, Prof. Vimlesh Agrawal, Prof. Vishal Arekar, Prof. Vishal Patel & Ms Jagruti Shah, Organizing secretaries were remain present in the inaugural session. As per the Indian tradition, the STTP had inaugurated with Prayer and Lighting of the lamp.



Prof. (Dr.) Indrajit Patel, Program Coordinator had welcomed all. He briefed all about the STTP and its importance. He briefed about different activities of ISTE. He explained various outcome of the program and primly focused in sustainable construction practices in modern era. He had given brief outline of program and requested to all participants to enrich their knowledge from this STTP by effective participation. He thanked CVM for always supporting for faculties and students development programs.

Dr. A. K. Verma, Head, Structural Engineering Department had briefed about the Structure Department profile, activities and Laboratory facilities.

Dr. F.S. Umrigar, Principal, BVM College shared his view on this subject. He motivated all the participants by explaining the importance of such kind of programs and their significance.

Prin. Er. V. M. Patel, Chief Guest, Hon'ble Jt. Secretary, CVM shared his views for the program. He informed that CVM always supports these kinds of faculty development programs through which the knowledge can be passed to students for their development in modern era. He congratulated Institute for organizing such a program which indirectly benefits to society.

Dr. Darshana Bhatt thanked all dignitaries, Expert Speakers, invitees, organizing partners, Supporters and participants for their valuable inputs to the program.

All the technical sessions had delivered by experts from industries, professional and academicians from relevant fields. The different experts had covered the following areas:

Day	Topic	Expert
1	Durability of Concrete	Dr. M. K. Kamat CMD, KCPL, New Mumbai
	Green Concrete Using Recycle Aggregate	Dr. C.D. Modhera , Professor & Head, SVNIT- Surat
	Geopolymer Concrete	Dr. D.B. Rayajiwala , Professor SVNIT- Surat
2	Slag Cement	Shri Maulesh Shah , ABG Cement Pvt. Ltd. Vadodara
	Green Concrete	Dr. Urmil Dave , Professor Nirma Uni. - Ahmedabad
	Reactor Powder Concrete	Dr. M.K. Marolia , Professor M. S. University- Vadodara
3	Recent advances in Concrete Technology and Sustainable development	Dr. Indrajit Patel , Professor BVM- V V Nagar
	Self-compacting Concrete	Dr. Dinesh L. Shah , Professor, SVIT- Vasad
	Micromechanics to develop high performance fibre reinforced cementitious composite	Dr. J.D. Rathod , Professor M. S. University , Vadodara
4	High Performance Concrete	Mr. Ashwin Moghe , Vice President & Zonal Head-Technical Services, West Zone, Ultratech Cement Ltd., Maharashtra
	Non Destructive testing with Practical session	Mr. Nishant Shukla & Team , AIMIL Industries, Vadodara
	Ensuring Durability in Concrete	Shri Kamlesh Warriar , BASF India Ltd., Ahmedabad
5	Health assessment of Concrete, as a material & Concrete structures	Er. Chetan Raikar , Chairman & Md, M/S. Structwel Designers & Consultants Pvt. Ltd, Navi Mumbai, Maharashtra
	Industrial Visit by Post Tension Services India Pvt. Ltd., Vadodara	



Glimpse of the Technical sessions:



Practical session with participants:



Industrial Visit with participants at BAPS Chhatralay, AV Road, Anand:



Valedictory Session:

The workshop was concluded with valedictory session with the Certificate distribution to all the participants. In the Valedictory session, Chief Guest Prin. R. C. Desai, Hon'ble Jt. Secretary, CVM, Dr. F. S. Umrigar, Principal, BVM college, Dr. A. K. Verma , Head , Structural Engineering Department and Er. Aarun Sankhat, Structural Consultant, PTSI Pvt. Ltd, Vadodara were remain present.

The concluding remarks were given by Prof. (Dr.) Indrajit Patel, Program Coordinator. He highlighted the immense contribution of the various sponsors and organizers and special thanks to CVM for the massive support for the workshop. He shared his view for such workshops which need to be taken more with great enthusiasm. Academicians and professionals also shared their feedback about the program. Dr. A. K. Verma Shared his views for the STTP and congratulated to the department and team for organizing the STTP successfully.

Hon'ble Chief Guest Prin. R.C. Desai shared his experience and demand of cement & concrete before freedom when VV Nagar was founded for Education hub. He shared that the demand of concrete is high after the freedom as of to develop our country in each and every sector. His speech was very inspiring for all the participants. He congratulated all and mentioned that CVM is always supporting for the growth of students as well as faculties to build strong nation by enriching the education.

Prof. Vimlesh Agrawal thanked all the participants, organizers, supporting partners, CVM, all the faculty members and all who directly or indirectly supported the STTP for successful completion.

The valedictory session ended with the national anthem.

Glimpse of the Valedictory Session:



On behalf of organizers:

Prof. (Dr.) Indrajit Patel, Dr. Darshana Bhatt, Prof. Vimlesh Agarwal, Ms Jagruti Shah