



**“GTU Sponsored and ISTE Approved
One-week Faculty Development
Programme**

On

**“Recent Trends in Information and
Communication Technology for Smart
City”**

7th – 12th January 2019”

Organized at

Electronics & Communication

Department

BVM Engineering College

(Affiliated to Gujarat Technological University)

(An Autonomous CVM Institution)

Brochure of FDP

Registration Form

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On
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Communication Technology for Smart City"
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at
BVM Engineering College
(An Autonomous CVM Institution)**

Name: _____
Designation: _____
Department: _____
Institute/ Organization: _____

Experience in years (Teaching / Industry): _____
Teaching: _____ Industry: _____
Address: _____

Contact Number: _____

E-mail: _____

ISTE Member (Yes / No): _____

If Yes, Life Membership Number: _____

Registration Fee Payment Details: _____

Bank & Branch: _____

DD No: _____ Amt (Rs): _____

Accommodation Required Yes/No: _____

I certified that above information is true to the best of my knowledge and the applicant is authorized to attend.

Signature of Applicant _____
Signature & Seal of Employer / Head of Institute

Last Date for Application: 31st December, 2018

Chief Patron

Er. Bhikhubhai B. Patel
(Hon. Chairman, CVM)

Patrons

Shri Manishbhai S. Patel (Vice – President, CVM)
Dr. S. G. Patel (Hon. Secretary, CVM)
Shri R. C. Talati (Hon. Jt. Secretary, CVM)
Er. Mehulbhai.D. Patel (Hon. Jt. Secretary, CVM)
Dr. Nikhil Zaveri (Hon. Group Director, CVM)

Advisory Committee

Prof.(Dr.) Navin Sheth Vice Chancellor, GTU
Prof.(Dr.) S.D.Panchal Incharge Registrar, GTU
Prof. Pratapsinh K Desai, President ISTE New Delhi
Prof. Vijay D Vaidya, Ex. Secretary ISTE New Delhi
Prof. K. M. Bhavsar, Chairman ISTE Gujarat Sec.
Prof. Nikul K.Patel, Hon. Secretary ISTE Guj. Sec.

Organizing Committee

Dr. R. C. Rana	Prof. A. B. Bambhania
Dr. P.S. Bhakhar	Prof. H. J. Patel
Prof. G. B. Rathod	Prof. P. K. Patel
Dr. S. R. Unadkat	Prof. A. A. Vahora
Prof. R. R. Vashi	Prof. A. H. Choksi
Prof. K. R. Patel	Prof. M. M. Sevak

Registration Details

- Registration can be done by filling the registration form in the prescribed format along with the registration fees.
- Accommodation will be provided on first come first served basis in the guest house of BVM College on chargeable basis. For Accommodation contact Prof. A. H. Choksi (9723786348)

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One-week Faculty Development
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7th – 12th January 2019



**Organized by
Department of
Electronics & Communication Engineering
Birla Vishvakarma Mahavidyalaya
Engineering College**

President

Dr. Indrajit N. Patel
(Principal, BVM Engineering College)

Coordinator

Dr. Bhargav Goradiya
Professor & Head,
Electronics & Communication Department

Co- Coordinators

Dr. Darshan C. Dalwadi Prof. Robinson P. Paul
(9426478026) (9106747249)

About CVM

Charutar Vidya Mandal was established in the year 1945 by Shri Bhaikaka and Shri Bhikabhai Saheb as a charitable trust with a prime objective of rural development through education to bring about the social awakening, social upliftment and enrichment. Over the subsequent years, Dr. H M Patel (the first finance minister of India) consolidated the efforts put in by the founders. Various self-financed educational institutions started being established in the areas of Technology, Science and Engineering, Commerce and Management, offering emerging and innovative courses and programs. At present, CVM operates 48 educational Institutions with 45000 students on the rolls from 18 states and 12 countries across the world under the dynamic chairman Shri Bhikhubhai Patel.

About BVM

BVM is one of the premier institute and first engineering college of Gujarat state established way back in 1948. BVM is the first Autonomous Engineering institute of Gujarat to obtain academic autonomy for all its UG & PG programs, from University Grant Commission (UGC). More than 20000+ engineers have graduated from BVM College. It offers B.Tech and M.Tech degree courses. The college is affiliated to the Gujarat Technological University. It is a matter of pride, that the Institute has successfully completed prestigious World Bank Assistance Project, TEQIP-II of INR 10 crores and further has been awarded with TEQIP-III grant of INR 7 crores. Majority programs of BVM are awarded accreditation by NBA-AICTE. BVM is listed in top 200 Engineering institutes in NIRF ranking 2017.

About Electronics and Communication Department

The Departments of Electronics and Communication Engineering was established in year 2006 at BVM Engineering College. Dedicated faculty members, meritorious students, well equipped laboratories, and skilled support staff, are major strengths of the department.

About the Course

Course Objectives

1. To understand the smart city concept.
2. To familiar with the guidelines to implement and manage smart cities.
3. To understand the role of information and communication technology for smart cities.
4. To study smart transportation, health care management and sage parking system.
5. To learn waste management system.
6. To understand new system architectures, networks and protocols.
7. To understand Quality of Service (QoS) and Quality of Experience (QoE) and its monitoring.
8. To explore the tele-education concept.
9. To familiar with the e-commerce concept.

Course Outcomes

Participants will acquire the basic knowledge of health care management, transportation and sage parking system, tele-education system, smart security system, waste management system, ecofriendly technology and e-commerce concept. Participants will also acquire the concept that how to improve the cooperation between the public and private sectors in research and the implementation of the most innovative solutions to sustainable urban environments.

About the Experts

Experts from various reputed Institutes such as IITs, NITs, CEPT, IITRAM, Govt. Policy makers and industry professionals.

Who should attend?

Teaching faculty members from government, government aided engineering colleges and self-finance institutions, Research scholars, PG Students and Industry person. Maximum 30 participants will be selected on first come first serve basis.

Registration Fees and General Information

Faculty Members, Research scholars, PG Students, Industry person. **Rs. 1000/-**

The registration fees should to be paid in form of Cash or Bank Demand Draft drawn in favor of "Principal, BVM Engineering College", payable at Vallabh Vidyanagar. The duly filled registration form and the Demand Draft should be sent to the following address so as to reach on or before **31st December, 2018**. The registration fees include course material, participation kit, Breakfast, Tea and lunch. No TA/DA will be paid.

Address

Department of Electronics and Communication Engineering, BVM Engineering college, Vallabh Vidyanagar, Anand-388120, Gujarat.

Confirmation of Participation:

5th January, 2019 (by e-mail)

For any query Email:

darshan.dalwadi@bvmengineering.ac.in
robinson.paul@bvmengineering.ac.in

Schedule of FDP

BIRLA VISHVAKARMA MAHAVIDYALAYA ENGINEERING COLLEGE (AN AUTONOMOUS INSTITUTION) ELECTRONICS AND COMMUNICATION DEPARTMENT ORGANISE GTU SPONSORED - ISTE APPROVED FDP ON "RECENT TRENDS IN INFORMATION AND COMMUNICATION TECHNOLOGY FOR SMART CITY" SCHEDULE						
TIME (Tues to Sat)	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10:00 AM to 10:30 AM	Registration & High Tea (9:00 to 9:30) Inaugural function (9:30 to 10:30)	High Tea	High Tea	High Tea	High Tea	High Tea
10:30 AM to 12:30 PM	Keynote Speech by Er. Jigar Patel (Assistant Engineer SMC ISD) & Photograph	Dr. Janak Joshi - (VMC), Geo-spatial technology in the development of smart city	Mr. Tapan Upmanyu (Matrix - Vadodara) Advanced Communication technology over the voice	Session on Art of Living	Smart Village (Punsari) Visit - departure at 9:00 AM	Test (10:30 to 11:30) Valedictory function (11:30 to 12:30)
12:30 PM to 1:30 PM	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
1:30 PM to 3:00 PM	Er. Bhargav Ravat - (Tech lead Embedded system - TASOL tailored pvt ltd) Smart Logistics and significance of data in smart parking	Er. Ravi Prajapati (Director AR Electronics) Smart light solutions for smart city	Mr. Arunav Misra (Hygiea Service) Solid waste management technology present & future	Mr. Pragnesh Gor - (Center head - Zydus hospital anand) Smart solutions for health care and role of IT	Smart Village (Punsari) Visit -	
3:00 PM to 3:15 PM	Tea Break				Interaction with Mr. Himanshu Patel	
3:15 PM to 4:45 PM	Er. Abhishek Singh - (Founder and CEO Bizician tech solu) Public Empowerment and Local body working Efficiency Improvement & Operating cost reduction using IoT	Er. Darshan Shah (Deputy Collector - Anand) Govt Policies, Implementation strategies for smart cities with case study	Mr. S. N. Jha - (Director Supernova Technologies) - Role of wind and solar energy for energy conservation in smart city	Er. Harshit Lalpura - (Director Hash Media) Role of Information technology in Smart City	and village authorities, visit to important places of village, interaction with citizens	

Chief Guest during Inaugural Ceremony



Vice-Chancellor GTU Prof. (Dr.) Navin Sheth

Prof. (Dr.) Navin Sheth took over as the Vice-Chancellor of the Gujarat Technological University on December 31, 2016. A renowned educationist and administrator, Prof. Sheth started his academic career way back in 1979 and during the course of time, emerged as a tireless academician and herbal scientist.

He obtained his B.Pharm. and M. Pharm degrees from L. M. College of Pharmacy, Gujarat University, Ahmedabad, the oldest pharmacy college of India. He was awarded the National Merit Scholarship for his graduation studies. He obtained Ph.D. degree from the Saurashtra University, Rajkot.

He started his academic career in 1979 as an assistant lecturer at the B. K. Modi Government Pharmacy College, Rajkot and was gradually promoted as the Lecturer, Reader and Principal there. In 2007, he joined the Department of Pharmaceutical Sciences, Saurashtra University, Rajkot as the Professor and Head. He has also served the Saurashtra University under various capacities like the Dean, Faculty of Pharmacy, the Chairman, Board of Pharmaceutical Sciences, the Member of the Senate and the Academic Council.

A distinguished academician, staunch disciplinarian and an efficient administrator, Prof. Sheth has also been the Member of the Peer Teams of the National Assessment and Accreditation Council - NAAC and NBA. He has also served as the Member and Chairman of the various Committees of UGC/ AICTE /DST/ GUJCOST and several Universities in India. He had been the Advisor and later on, Member of the GPSC. In 2016, he took over as the Chairman of the Board of Pharmacy Education, AICTE. Prof. Sheth has attended many national and international conferences in India and abroad. His research interests include Traditional Drugs, Herbal Drugs and Standardization, Herbal formulations. His exuberant involvement in R&D has been recognized by his 100+ publications including 65 technical papers in renowned research journals, 42 papers in National Conferences 21 papers in the International Conferences.

Till 2017, 20 research scholars had successfully completed their doctoral research under his guidance. At present, 8 research scholars are pursuing their Ph.D. under his supervision. About 21 of his former PG students are occupying key positions in the various fields of Pharmacy. Prof. Sheth is awarded by Life Time Achievement Award at KLE University, Karnataka during 20th National Conference of ISP at Belgaum, Karnatak, Indian Society of Pharmacognosy 2017 at Aurangabad and World Education Convention 2017 at New Delhi.

Prof. Sheth has been associated with various national and international associations and professional bodies as a member or a life member; these include Indian Society of Technical Education, Indian Pharmaceutical Association, Indian Society for Pharmacognosy, the Association of Pharmaceutical Teachers of India, All India Council Of Technical Education (AICTE), Pharmacy Council Of India (PCI), Indian Institute of Management-Ahmedabad, Gujarat Forensic Sciences University and B. V. Patel Pharmaceutical Education & Research Development (PERD) Centre.

His dream, vision, mission and efforts are directed towards making the Gujarat Technological University to a world class University in the field of Science and Technology.

Chief Patron



Shri Bhikhubhai Patel

Er. Bhikhubhai Patel Sir, Hon'ble Chairman, Charutar Vidya Mandal and a BVMites. He is a Graduate of 1974 batch of Civil Engineering department of B V M Engineering College. During his college time...he was active in sport and cultural activities as a leader. He was associated with Sardar Patel University as the senate and Syndicate member. Since more than two decades.

He has been the President of Shri Vansol Sattavis Patidar Samaj. He has organized many activities for the development of the people. Under his leadership a state of art Sanskrutik Kendra have been established and flourished near village Bhalej and also a well-Managed school in his own village.

He is also President of Sardar Patel Seva Samaj having wide range of association from. Mahesana to Surat for welfare of the society. Apart from this, he has active involvement in different trusts and organizations across Gujarat. He and his family is engaged in many charity works, always supporting to the needy people of the society. He speaks less but his work always speaks about his dedication and commitment towards the holistic development of society at large.

Principal



Dr. Indrajit N. Patel

Prof. (Dr.) Indrajit Patel has over two and half decades of academic & Professional experience in the field of Civil, Structure and Concrete Engineering and Technology. At present he is working as Principal of BVM engineering College, VV Nagar.

He has successfully worked on many national and international projects and activities in context to academic excellence, quality assurance and improvement, exchange program, department and institute development program.

To his credit there are more than 70 research publication at national and international level conference and journals. He has successfully organized more than 70 International & national workshops, seminars, training Programs and conferences for faculty as well as young technocrats development.

He is recipient of Gujarat Technological University (GTU) Pedagogical Award, Young designer's award, Best Teacher Award ISTE Awards, SSIP Awards and Promising Engineering Teacher award.

Presently, under his dynamic leadership BVM engineering college has received TEQIP – III grant of Rs. 10 crores, Student startup support and innovation grant of Rs. 2 Crores, AICTE grant for various project of Rs. 2.5 crores. He is constantly working for making different Fruitful and effective outcome base education policies.

He has put strong efforts in internationalization of engineering education, which resulted in to 8 MOU with foreign premier universities and 72 MoU with reputed industries. Under his mentorship BVM his established Center of excellence in soil engineering which is first of its kind in India.

Currently He is associated with S.P. University (as syndicate member), Chairman of Institute of engineers (India)- VallabhVidyanagar Local center and Indian Society for Technical Education in various capacities. He is also member of American Concrete Institute, Institute for Steel Development And Growth, Indian Concrete Institute and International Structural Engineering Association.

He is not only serving for institute but also working for society and training to young technocrats by the project of “Vishwakarma Yojana, Mission Antyodaya Govt. of Gujarat for the village development and train to young students as director of these projects.

He is also providing Structural Consultancy to Prestigious Institutions, Organizations, NGO, Privet and Public Sector through Institutional consultancy work. He is playing pivotal role in the development of institute.

FDP Coordinator



Dr. Bhargav C. Goradiya

Dr. Goradiya is presently Professor and Head of Electronics and Communication department at BVM Engineering College; He is working in the college since 2002. Dr. Goradiya had played a pivotal role in developing the departmental laboratories, smart class rooms and state of the art seminar hall. Presently Dr. Goradiya is also holding position of Vice President BVM Central committee, Board Member BVM BoG, Advisor T& P Cell, Mentor of students support system criteria 9 of Accreditation, Nodal officer NIRF, Advisor Prize distribution committee.

Dr. Goradiya was one the key member in preparing the draft of the TEQIP II in the year 2007. He was instrumental in designing the policy draft for the SSIP project at BVM. Along with academics he has focused outcome based and project based education. He has been mentoring the faculty, staff members and students very effectively.

Day-1: Keynote Speech



Mr. Jigar Patel.

Assistant Engineer (Computer) Surat Municipal Corporation (Information Systems Department) November 2011 – Present (3 years 8 months) Monitor Systems Development and Implementation. Finalizing the Software Requirements for various applications Procurement of necessary Server Hardware & Software Android based Application Development

Integrated Training Pipeline for Scientific Visualization or Sci-Vi at California State university Los Angeles. He trained undergraduate and graduate students from three different disciplines. The UG students were the branch of Art, Physics and Astronomy and Computer Science to develop accurate and effective scientific visualizations of topics in Cosmology.

Responsibilities: Development of a project management website using JSP, Spring, Hibernate, JSLT, Apache Ant, Postgre SQL, Apache Tomcat, XML, JavaScript. System Administration, Web Content Management and development for internal website (Joomla based).

He was working in Department of Mathematics, California State University Los Angeles. Responsibilities: Development of a web based software using HTML and JavaScript.

He had also worked in Orient Information Technology Ltd, Mumbai, India. Responsibilities: Designed, tested and maintained career portal website www.it-people.com. He developed software to maintain resumes' consistency on the server with the database.

He is having a good knowledge of C++, Java, J2EE, Spring, EJB, JSP, JDBC, JSTL, Struts, Hibernate, JavaScript, Perl, OpenCV, OpenGL, CGI, Apache Ant, Apache Tomcat, JBoss, IBM WebSphere, HTML, DHTML, XML, WEB 2.0, AJAX, Oracle10g, MS-SQL, PgSql, Mysql, MS-Access, Eclipse, Visual Studio-2008

Day-1: Experts



Er. Bhargav Ravat

Total Experience: 5 Years

Companies Worked for: CMC Limited (TCS) – Hyderabad, eInfochips, Ahmedabad, Reve Automation, Gandhinagar, Tailored Soutions Pvt Ltd – Ahmedabad.

Projects Worked On:

- Face Recognition
- Gender Identification
- Vehicle Detection, Track and trace on Specific Path
- Elevator Control Systems
- Cloud Enabled Video Surveillance System
- Human / Inventory Detection in Fixed Area
- EPHS – Testing (MISRA –C Compliance)
- Automation of Multiple Zone well Completion
- Number of Publication : 7 International Journals and 2 National Level Conference
- Academic Background : BE (E&TC) : 2012 BVM , VVN
- M. Tech (Embedded Systems.



Er. Abhishek Singh

He is CEO and Founder at Bizician Tech Solutions Pvt Ltd

Education:-B.E. (Electronics & Telecommunication) - BVM Engineering College

Currently Pursuing Executive MBA from IIM (Rohtak)

Experienced Cross Domain Technology Consultant. Worked in Banking, Financial Services & Insurance, Manufacturing and Power Utility sector predominantly focused on implementing solutions in the Digital Transformation, Financial Infrastructure, and Risk management, Resource Planning, Process Optimizing and Product Development.

He is having active Interests in Big Data Solutions, Fin-Tech, Artificial Intelligence, Cloud Architecture / Strategies, BOTs, Machine Learning, IOT Analytics.

He was presented a seminar on Public Empowerment and Local Body Working Efficiency Improvement & Operating Cost reduction using IOT

Day-2: Experts



Dr. Janak P. Joshi

Expertise: In the field of Applied Geography, Urban Studies, Digital Mapping and Spatial Analysis, 3D Analysis, Modeling using RS & GIS Techniques. 08 years of Teaching at Graduate and Post Graduate level, in fields of Environment science, Geoscience, Geography, Urban and Regional Planning, RS and GIS.

Current Employment Position: GIS Specialist Organization: VSCDL (SPV of Vadodara Municipal Corporation)

Job profile: Designing and implementation of the GIS for the entire VMC. Including conceptualization of the web based GIS, its implementation and training of the manpower.

Achievements and Recognitions: 04

Second best paper presentation in the National Seminar “Remote Sensing: Enabling Our Future” 7th-8th October, 2016. Organized by ISG Vadodara chapter and Dept. of Botany, The Maharaja Sayajirao University of Baroda, .Vadodara.

Received Certificate of Appreciation for contribution in research by Faculty of Science, The M S University of Baroda, Vadodara. 2012

Best Research Paper presentation in student Category (Earth Science Session) in XXVI Gujarat Science Congress 2012 February 26th, 2012, held at The M S University of Baroda, Vadodara.

Received best paper award in the 42nd regional science conference in 2011 on the theme “Glocalisation and Regional Performance.”



Er. Ravi Prajapati

BE. EC BVM Engineering college
Founder of AR Electronics, Gandhinagar.

He is working on smart LED lights, street lights.
Manufacturing of smart lights.

One of the leading start-up by Er. Ravi Prajapati in 2014. Now AR electronics is developing and manufacturing finest product based on LED lightings.

- LED Street light
- LED flood light
- LED street light for housing

- Industrial LED lights
- High Bay light



Er. Darshan Shah

Deputy Collector- Anand

Er. Darshan has completed his graduation in the Bachelor of Engineering from BVM Engineering College in the field of Electronics and Telecommunication.

He has worked with TCS as Assistant System Engineer for more than 1 year.

Day: 3: Experts



Mr. Tapan Upmanyu

Working in Matrix Comsec, Vadodara
September 2014 – Till Date

Current Designation: Functional Lead – Technical Operations

Work Profile:

He had handled and managed International technical support and training activities for Telecom and Security Domain.

He had done Technical Training, Sales Training, and Solution Training Preparation and Delivery of more than 30000 Man Hours. He is having a good knowledge of Rich Solution Designing and Pre-Sales Support Experience in Domestic and International Market, Training Document Preparation, Solution designing documentation, Technical and Marketing Video Preparation.

He is having expertise in Standard Operating Procedures for Training Video Preparation, Training Delivery and Deputation Programs, Policy Documentation for Preparation for Training, Deputation, Multi-Location Installation, DOA, RMA etc.

He is also involved in recruitment of technical operations team & their training and development. Maintaining quality control, satisfaction records and constantly seeking new ways to improve product quality by sharing market needs and feedbacks with R&D team.



Mr. Arunav Misra

Chief Executive Officer at HYGIEA Service

Since over 18 years i have been working in the field of water, wastewater and solid waste treatment and engineering. Specialties: I have developed Cradle to Cradle design of bio reactor that can convert organic medical waste into compost within 30 days. Invented technology for separation of whey protein from dairy waste that had been a tedious job was made easier by application of a special treatment. This has resulted 90% reduction of C.O.D. and B.O.D. The system is also capable of handling any plant where variation in pH value fluctuates from. 2.5 to 11.

He was recognized as Innovator of India in 2007 by DSIR, Govt of India, for research and development of Worm Compost to treat Medical Waste. The project was installed at a 500 bed medical college and hospital to treat organic medical waste, Gujarat, India.



Mr. Shreelal Jha

Awards and Honors:-

- (a) National Award for Invention by President of India Dr APJ Abdul Kalam for the invention of Braille Language Laboratory for Blind & Battery Operated Tricycle on 3rd December 2002 with Cash award of Rs. 50,000.
- (b) Dr. Vikram Sarabhai Award for the year 2002-03 in the field of Information Technology for the work related to Computerization of Multi-Lingual Braille Language Laboratory for Visually Impaired People (Indian or Foreign) with cash award of Rs. 1 Lakh.
- (c) Honored by Chief Minister of Gujarat for the various works in Development of State and the Nation in different sector of science on 15th August 2004.
- (d) Developed Country's First Indigenous Small Wind Generator which was inaugurated by H. E. Governor of Gujarat on May 21st 2004.
- (e) Honored by Chairman Dr. C. L. Patel of Charutar Vidhya Mandal on Vallabh Vidhyanagar Day 3rd March 2003 by presenting the momento of Gaurav Chinha.
- (f) Rashtriya Udyog Ratan Award for Individual contribution for nation's Development by Indian Organization for Business Research & Development, New Delhi on 20th August 2007.
- (g) Honored by S.P. University for designing countries first indigenous technology Dual Axis Solar Tracker system for Vice-chancellor Office on 26th April 2013 along with Rs 51,000/- Award money.
- (h) Shreelal N Jha received Award on behalf of Supernova Technologies Pvt. Ltd. in the category of small wind mill for successfully completing the document review and type testing protocol at NIWE (National Institute of Wind energy) on 1st July 2016 at Pune.

Information Note:-

1. Nominated 2nd time for National Award by Ministry of Social Justice & Empowerment, Government of India, New Delhi. (2006-7, for work of Hearing Impaired Language Laboratory, but post delay restricted procedure)
2. Nominated two times for Dr. Vikram Sarabhai by Gujarat Science and Technology (GUJCOST) Government of India in power sector for small wind generator (Presentation on 30th April 2007).
3. Nomination for Gujar Mal Modi Award for Innovative Science and Technology for year 2012 by Gujarat council on science and technology.

Special Project, Design, Developed and implemented for Government and NGO'S:-

1. Battery charging Wind mill for Mahatma Mandir project at Gandhinagar, Gujarat. 2014.
2. Design Road circle for Vadnagar town entry for high lighting singers Tana and Riri 2011.
3. Flame proof, low power consuming and continuously 6 hours operating Motorized gong bell for Gujarat Vidhansabha 2008.
4. Designed technical mimic of Narmada Project for handing over the Narmada project to Nation by Hon. C.M. Shri Narendra Modi on 19th January 2007.
5. Security Alarm for Gujarat C. M. House and Governor House 15th Feb 2010.
6. Hand operated battery charging device along with wood gas fired stove for huts lighting, radio entertainment and operating wood gas fired stove for **Carter foundation** 2008.
7. Self-driven Aerator system for Yamuna River cleaning project by NRI for NGO in 2009.

Day-4: Experts

Brahmakumari Jagrutiben



બ્રહ્માકુમારી જાગૃતિ - પરિચય

પ્રજાપિતા બ્રહ્માકુમારી ઈશ્વરીય વિશ્વ વિદ્યાલય
વિશ્વકલ્યાણ, પ્લોટ નંબર - 716, મહાદેવ વિસ્તાર
પ્રગતિમંડળ પાછળ, વલ્લભવિદ્યાનગર-388120
ફોન-02692-235270 ઈ-મેલ : vidyanagar@bkivv.org

- ભૂમિકા બ્રહ્માકુમારી જાગૃતિબનના સક્ષમ અને ગાંતીશીલ નેતૃત્વના નેજા હેઠળ બ્રહ્માકુમારીઝ, વલ્લભવિદ્યાનગર કેન્દ્રની સ્થાપના ઈ.સ. ૧૯૯૪માં કરવામાં આવી.ત્યાર બાદ કુલ ૮ નવા સેવાકસન્દ્રો દ્વારા ઈશ્વરીય સેવાઓનો પ્રવાહ આગળ વધ્યો. તેઓ પાછલા 40 વર્ષથી રાજયોગના અભ્યાસી છે અને સમાજના વિવિધ વર્ગોને ઈશ્વરીય જ્ઞાનનો લાભ આપી રહ્યાં છે.
- વર્તમાન કામગીરી
 - બ્રહ્માકુમારીઝ, વલ્લભ વિદ્યાનગર સેવાકેન્દ્ર સહિત 9 (નવ) સેવાકેન્દ્રોનું મુખ્ય સંચાલન
 - સંયોજિકા (ગુજરાત ઝોન)
યુવા પ્રભાગ (યૂથ-વિંગ) રાજયોગ એજ્યુકેશન એન્ડ રિસર્ચ ફાઉન્ડેશન - (આર.ઈ.આર.એફ.), બ્રહ્માકુમારીઝ, માઉન્ટ આબુ - રાજસ્થાન
- સામાજિક ફાળો રાષ્ટ્રીય કાર્યક્રમોને માર્ગદર્શન
 1. યુવાઓનું નૈતિક પુનર્જાગરણ - મોરલ અવેકનિંગ યૂથ પ્રોગ્રામમાં નેતૃત્વ
 2. રાષ્ટ્રીય એકતા માટે સાચકલ યાત્રા - અલ્હાવાદ થી ન્યૂ-દિલ્હી
 3. યુવા વિકાસ અભિયાન : માઉન્ટ આબુ થી ગોવા
 4. ધરતીકંપ રાહત કાર્ય -ભુજ માં સંયોજિકા
 5. ઊમરેડ અને સુરતમાં પંચકમાં પૂર રાહત કાર્ય (2005-2006)



Mr. Pragnesh Gor

Centre Head at Zydus Hospitals and Health Care Research Pvt. Ltd.

Experience

Zydus Hospitals and Health Care Research Pvt. Ltd.

Centre Head, December 2014 - Present

Anand. Operations and Hospital Services



Er. Harshit Lalpura – Director Hashmedia

He is working and developing products on Augmented Reality, Virtual Reality, Mixed Reality, Holographic Display, Interactive Surfaces, Interactive Floor.

Experienced Chief Technology Officer with a demonstrated history of working in the computer software industry. Skilled in JAVA, Python, PHP, Android, and Objective-C. Lot of experience in AR, VR, MR & Interactive Surfaces field. Strong entrepreneurship professional with a Diploma focused in Information Technology from Nirma Institute of Diploma Studies.

Day-5: Village Visit



Mr. Himanshu Patel

Ex-Sarpanch of Punsari Smart Village, Gujarat.

Himanshu Patel was born and brought up in Punsari village in Sabarkantha district of Gujarat. However, once he was done with his schooling, the family shifted to a nearby town for Himanshu further education.

It was then that the difference between town and village became clear to Himanshu, in his trips back to the village during his holidays.

In the village, there was no electricity, no water system and law and order were almost out of control. There would be at least one police case every month due to feuds in the village. By

the time Himanshu completed his graduation, the situation had worsened.

The road ahead was not that easy!

There were 23 different communities in the village, which today has a population of 6000. People were non-cooperative when it came to adopting a better living style. 98 per cent of the villagers were uneducated and in the agriculture or dairy farm business. The Panchayat had no funds at all. Rather, it had a debt of Rs 1.2 Lakh, and there were influential people always ready to oppose the new Sarpanch.

The first step that Himanshu took to improve the village was to build trust among the villagers. He tried to understand the priorities of the villagers and what they wanted.

In the first three years of his tenure, he took care of all the basic needs of the villagers. Himanshu was very firm in that he would not seek the help of any NGO or CSR or any donations for funds. Instead, he used government schemes to fill the gap.

He started applying for schemes efficiently and adjoined new schemes too. Within two years, i.e. by 2008, the village had electricity, street lights were installed at appropriate places, a water distribution system was installed, pucca roads were developed, and a toilet was built at every house of the village.

In 2009, Himanshu installed 12 speakers across the village to communicate with the villagers. The speakers were connected to the Gram Panchayat office from where he would announce government schemes that could help villagers. He would also give birthday wishes and condolences on someone's death from this central announcement system.

This filled in all the communication gap between the villagers and the Gram Panchayat. Himanshu has also connected his mobile to these speakers so that he can stay in touch with the villagers even if he is out-of-station.

Sarpanch Himanshu also encouraged three young boys of the village to start an RO water plant in public-private partnership model, and Punsari has been getting 5-litre cans of mineral water for Rs 4 since 2010 thanks to this plant.

The village is also WiFi enabled. The villagers can get 30 Mbps data by registering themselves at the panchayat for Rs 50 per month.

CCTV cameras were installed at various places such as classrooms and all the government offices in the village. The footage from the cameras can be viewed on mobile phones through an app.

Correspondingly, the Mother Mortality Rate (MMR) and Infant Mortality Rate (IMR) was high as even pregnant ladies had to do this. This issue was resolved by starting the village's own transport system.

A mini bus now drops the women every morning and evening to the milk bank and back to their home. Villagers can go anywhere in the village in this van by paying a token amount of just Rs 2.

After 2008 the village is 100% vaccinated. And the result is that the MMR and IMR have gone down to zero. There are no malnourished children in the village, and all the deliveries are done by qualified by doctors in the hospital and not at home.

Himanshu, who wants Punsari to become the world's best village, has completed his 10-year tenure as the Sarpanch of the village recently He continues his legacy he has trained 100 youngsters, who will contest for the Panchayat elections.

The only mantra that Himanshu gives to the next generation is that “Don't migrate from villages due to lack of amenities, rather get the amenities of the cities here but keep the spirit of the village alive”.

FDP Brief Summary:

A Faculty Development Program (FDP) on “Recent Trends in Information and Communication Technology for Smart City” was organized by EC Department, BVM Engineering College, Anand from 07/01/2019 TO 12/01/2019. A total of 30 participants including faculties from various degree and diploma engineering colleges from all over Gujarat and 1 Participant from Uttarakhand attended the FDP.

The inauguration ceremony was held on 07/01/2019 at 10:00 AM. The chief guest of the function was Honorable Dr. Navin Sheth, Vice Chancellor, Gujarat Technological University, Ahmedabad.

The Keynote speaker was Er. Jigar Patel, Assistant Engineer SMC ISD. The inaugural ceremony was also graced by Er. Bhikhubhai Patel, Chairman –CVM ,Dr. I. N. Patel, Principal- BVM, Dr L. B. Zala, Dr B. C. Goradiya, Dr. R. L. Patel , Dr. S. D. Dhiman.

In his speech, Dr. Navin Sheth stressed on the need of such training program on specialized topics. He also highlighted the need of quality education in engineering. Dr. I. N. Patel highlighted the achievements of the faculties and students of BVM.

Dr. Bhargav Goradiya, H. O. D, EC Department highlighted the department achievements and how the faculties and students played important role in overall development of the department. He also gave an overview of the STTP program.

In the keynote address Er. Jigar Patel gave a detailed plan and implementation of different Smart projects in Surat City of Surat Municipal Corporation. He also highlighted the need of Smart City in today's scenario keeping in mind the energy crisis and environmental concerns.

During the one-week period experts in the field of Electronics, Information Technology, Smart Waste Management and Govt. Policy Administrator shared their knowledge and experiences with the participants. Experts from industry also highlighted the industrial aspects of Smart City Projects.

Experts like,Er. BhargavRavat - (Tech lead Embedded system - TASOL tailored pvt ltd) ,Er. Abhishek Singh - (Founder and CEO Bizician tech solution) ,Dr. Janak Joshi - (VMC) , Er. Ravi Prajapati - (Director AR Electronics) ,Er. Darshan Shah - (Deputy Collector - Anand),Mr. TapanUpmanyu (Matrix - Vadodara), Mr. ArunavMisra (Hygiea Service) , Mr. S. N. Jha - (Director Supernova Technologies) , Mr. PragneshGor - (Center head - Zydus hospital anand) , Er. HarshitLalpura-(Director Hash Media) delivered expert lectures in various topics related to implementation of Smart City Projects and highlighted case studies. Special emphasis was given to the research work that can be carried in the area of Recent Trends in Information and Communication Technology for Smart City.

As part of the FDP Visit to 'Punsari' is also organized. Punsari is a village located in Sabarkantha district in the state of Gujarat. Punsari is considered as India's smartest village. The village has undergone a transformation under the panchayat. There has been use of new and advanced technology in education. This village has wi-fi connection for all people. Efforts have been made for the empowerment of women and increasing security in the village. Some of the facilities provided by the panchayat include local mineral water supply, sewer & drainage project, a healthcare centre, banking facilities and toll-free complaint reception service. Consequently, Punsari received the award of being the best Gram Panchayat in Gujarat. The village's model has been appreciated by delegates from Nairobi and they are keen to replicate this in Kenyan villages.

The workshop was highly appreciated by the faculty community. The faculty and P.G. students benefitted immensely from the lectures and experiences shared by the experts and industrialists which will help them in their academic career and in their research work.

The valedictory session was conducted in the afternoon hours on 12/01/2019. Dr. I. N Patel asked the faculties to come up with more such FDP which benefits the overall community. Faculties and P. G. students were also encouraged to do innovative work in their PhD research and M.E dissertation work. Certificates were distributed to the participants. Participants shared their feedback about the FDP. All the participants gave a positive feedback about the FDP and welcomed the initiative.

The ceremony was concluded by a vote of thanks followed by national anthem.

Glimpses of the FDP:



Fig.1: Inauguration function



Fig.2: Group photo of FDP



Fig.3:Key Note Speech by Dr. Jigar Patel



Fig.4:Expert Session by Mr. S.N Jha



Fig.5 Expert Session by Er. Harshit



Fig.6: Expert Session by Mr. Arunav



Fig:7: Expert Session by Dr. Janak



Fig:8: Expert Session by Er. Darshan



Fig: 9: Punsari Village Visit



Fig:10: Sarpanch of Punsari Village



Fig:11: Discussion with Mr. Himashu Patel



Fig:12: Velidictory Fuction

Participants list:

GTU ISTE FDP on "Recent trends in Information and Communication Technology for Smart City" Date 7th to 12th January 2019							
Registration Details							
Sr. No.	Name of Participants	Designation	Organization	City	Mobile No.	Email ID	Signature
1	Mr. Sunil Bakhru	Retired Professor	-	Vidyanagar	9913737060	sbakhru97@gmail.com	
2	Dr. Mehfuza Holia	Assistant Professor	BVM	Vidyanagar	9824518679	msholia@bvmengineering.ac.in	
3	Dr. Milendrakumar Solanki	Assistant Professor	BVM	Vidyanagar	9825716003	mmsolanki@bvmengineering.ac.in	
4	Prof. Dhaval Patel	Assistant Professor	IICP (Pharmacy College)	New V.V.Nagar	9978554228	25dhavalpatel@gmail.com	
5	Dr. Trupti Desai	Professor	BVM	Vidyanagar	9825259094	tadesai@bvmengineering.ac.in	
6	Dr. Mukesh Shimpi	Associate Professor	BVM	Vidyanagar	9978090679	meshimpi@bvmengineering.ac.in	
7	Mr. Lalit Joshi	PhD Research Scholar	BTKIT, DWARAHAT	ALMORA, UTTARAKHAND	9917529999	lalitm.joshi09@gmail.com	
8	Prof. Shaifali Malukani	Assistant Professor	DDU	Nadiad	9725006242	shaifalimalukani.ce@ddu.ac.in	
9	Prof. Mahendra Prajapati	Assistant Professor	BVM	Vidyanagar	9427887713	mpprajapati@bvmengineering.ac.in	
10	Prof. Dipan Parikh	Assistant Professor	BVM	Vidyanagar	9377664508	daparikh@bvmengineering.ac.in	
11	Prof. Binal Jadawala	Lecturer	BBIT	Vidyanagar	9428737173	binal.jadawala2411@gmail.com	
12	Mr. Jatin Balsaraf	Research Scholar	Einfochips PVT LTD	Ahmedabad	9725803311	jatin.balsaraf@einfochips.com	
13	Prof. Aruna Solanki	Lecturer	BBIT	Vidyanagar	9924137384	amisolanki007@yahoo.co.in	
14	Ms. Tanvi Patel	Research Scholar	Einfochips PVT LTD	Ahmedabad	9825319768	tanvi.patel@einfochips.com	
15	Prof. Palak Patel	Assistant Professor	BVM	Vidyanagar	9898202688	palak.patel@bvmengineering.ac.in	
16	Mr. Gulafsha Bhatti	Research Scholar	Einfochips PVT LTD	Ahmedabad	8460427370	gulafsha.bhatti@einfochips.com	
17	Dr. Rajvirsinh Rana	Associate Professor	BVM	Vidyanagar	9898986633	rajvirsinh.rana@bvmengineering.ac.in	
18	Ms. Diksha Soni	Research Scholar	Einfochips PVT LTD	Ahmedabad	9409273502	diksha.soni@einfochips.com	
19	Dr. Darshankumar Dalwadi	Associate Professor	BVM	Vidyanagar	9426478026	darshan.dalwadi@bvmengineering.ac.in	
20	Ms. Ruchita Shah	Research Scholar	Einfochips PVT LTD	Ahmedabad	7043769667	ruchita.shah@einfochips.com	
21	Prof. Amit Choksi	Assistant Professor	BVM	Vidyanagar	9723786348	amit.choksi@bvmengineering.ac.in	
22	Prof. Mayur Sevak	Assistant Professor	BVM	Vidyanagar	7575884675	mayur.sevak@bvmengineering.ac.in	
23	Mr. Jeetu Gohel	Research Scholar	Einfochips PVT LTD	Ahmedabad	9974649839	gohiljeetu20@gmail.com	
24	Prof. Robinson Paul	Assistant Professor	BVM	Vidyanagar	9106747249	robinson.paul@bvmengineering.ac.in	
25	Prof. Vishalkumar Polara	Assistant Professor	BVM	Vidyanagar	9898434392	vishal.polara@bvmengineering.ac.in	
26	Dr. Hasmukh Chauhan	Assistant Professor	BVM	Vidyanagar	9427021843	hichauhan@bvmengineering.ac.in	
27	Prof. Kaushal Patel	Assistant Professor	BVM	Vidyanagar	8980943264	kaushal.patel@bvmengineering.ac.in	
28	Mr. Vishwas Patadiya	Research Scholar	Einfochips PVT LTD	Ahmedabad	9409209192	vishwas0513@gmail.com	
29	Prof. Gaurang Sharma	Assistant Professor	BVM	Vidyanagar	9824918977	gksharma@bvmengineering.ac.in	
30	Mr. Vinay Yadav	Research Scholar	Einfochips PVT LTD	Ahmedabad	9377075677	yadavinay77@gmail.com	