



VOICE OF BVMITES

CHAIRMAN'S MESSAGE



With this second issue of the newsletter, I wish that BVM Engineering college will strive to provide trained and innovative engineers with core values to meet the challenges and needs of the society. I wish that the institute would focus on employability of students by disseminating skills and creating knowledge. I extend my best wishes and blessings to the editorial board for bringing out this issue.

-DR. C. L. PATEL

PRINCIPAL AND CHIEF EDITOR'S MESSAGE



Technical education is the backbone of every nation and the stepping stone for a country to move into the niche of a developed nation. I am happy to have this opportunity to serve this country goal of taking this institution's name to great heights as the principal of this technical

institution. Through this newsletter we wish to bond with every soul associated with BVM and provide them a platform to express themselves. Lastly, I would like to give my best wishes to the entire team of this newsletter in carrying forward BVM's never ending legacy.

-DR. I. N. PATEL

CONTENTS

- 2** GLIMPSE INTO GREATNESS
- 3** BVM INSIDER
- 8** STTP
- 10** BVM Special Events
- 11** ACCOMPANY TCS
- 12** VICINAGE Robocon
- 14** BRAIN SCRATCHERS
- 15** COMMITTEE

GLIMPSE INTO GREATNESS



Name: **DR. F. S. UMRIGAR**

Date of Birth: 16-6-54

Academic Qualification: B.E.(Civil), 1976, S.V.Regional College of Engg. & Technology (Now SVNIT) Surat
South Gujarat University (4 th rank)
- M.Tech. (Civil) Transportation System Engg., 1982, Indian Institute of Technology, Kanpur.
- Ph.D. (Civil Engg.) Transportation Engg., 1990 University of Roorkee (Now IIT, Roorkee)

Membership of Professional Bodies:

- ⊙ Life Member, Indian Roads Congress (LM IRC)
- ⊙ Life Member, Indian Society for Technical Education (LM ISTE)
- ⊙ Fellow of Institution of Engineers (FIE)

Professional Experience :

- ⊙ Building Supervisor and Junior Engineer for 2 years (1976-1978) at Surat.
- ⊙ Teaching Experience at Civil Engineering Department in Birla Vishvakarma Mahavidyalaya (BVM) Engineering College, Vallabh Vidyanagar, Gujarat
 - Asstt. Lecturer from 23-1-78 to 22-1-80;
 - Lecturer from 23-1-80 to 31-7-84 (Upgraded & Selected);
 - Asst. Professor from 1-8-84 to 31-8-94;
 - In-charge Transportation Engineering Section from 12-8-93 &
 - Professor of Civil Engg. from 1-9-94 to 3-4-02.
- ⊙ In-charge of Credit System, BVM Engineering College from 29.10.96 to 18.12.1998.
- ⊙ Principal, BVM Engg. College from 04.04.2002 to 30.06.16.
- ⊙ Dean, Faculty of Engineering & Technology, Sardar Patel University, Vallabh Vidyanagar since 2002.
- ⊙ Member of Academic Committee for 4 Year Engineering degree program at Gujarat Technological University, Ahmedabad.

- ⊙ Syndicate Member, Sardar Patel University, Vallabh Vidyanagar since 2002.
- ⊙ Recognized PG Teacher for M.E. & Ph.D.(Civil Engineering & Transportation Engineering).
- ⊙ Member of the Academic Committee for proposing course structures for 4 year engineering degree programs and detailed syllabi of Gujarat Technological University.
- ⊙ Chairman, GTU Innovation Sankul – Vallabh Vidyanagar Zone – II.
- ⊙ Evaluation Referee – Indian Road Congress, New Delhi.

Publications : Published over 77 papers at National and International levels.

Participation in Co - Curricular Activities : Participated as Chairman, Member, Hon. Secretary, Rector, Dean for various academic, Experts or literary activities.

Participation in Professional Meetings : Participated in 56 Professional meetings in the form of Summer/Winter Schools, Workshops, Seminars, Conferences (National / International), Annual Convention.

Consultancy & Extension Services : One of the consultant for Transportation Planning Project and Interaction Design, organized 6 Short Term courses / workshop / seminar, delivered 10 special lectures in Transportation Eng. And Technical education field, Examiner at UG/PG programmes of other Universities and co-authored two books.

MECHANICAL DEPT.



Inaugural ceremony of one week STTP "Finite Element Simulation using ANSYS"

Nitin Nathani qualified for finals in National level event "Spell Bug" held at HLIC(H L Institute of Commerce) in May 2016.

Paper by Prof. Hitesh Bhargav , titled "Hybrid system of solar water heater and absorption refrigerator" got published in Solar energy society of India(SES) in June 2016.

Paper titled "Design and finite element analysis of a transformer tank-A review paper" by Prof. Shashank P Joshi ,Prof Ronak R Patel & Dhruvesh Gajjar (ME Student), got published in the International Journal of Advanced Research and Innovation in June 2016.



One week STTP on 'Computer Aided Engineering using CREO"

Paper by Prof Shashnak P Joshi , Prof Ronak R Patel & Mihir Dhobi(ME student), titled "A review of computer aided fixture design approaches" was presented in 1st International Conference on Automation in Industries, in April 2016.

An in house training program, "ANSYS CFX", for the faculty, is to be conducted by the department from 11th July till 22nd Aug 2016.

MATHEMATICS DEPT.

Prof. R. B Gandhi submitted a paper of "A summation –Integral type modification of Szasz-Mirakjan Operators in Mathematical Methods in the Applied Sciences.



ELECTRONICS & COMM. DEPT.

Prof Ripal Patel's paper titled "Human action recognition using fusion of features for unconstrained video sequences" got published in an International Journal on 18 June, 2016.

Paper titled "Resource allocation and appropriate selection of D2D pair as trade-off between throughput and power" by Dr. Mehul B. Shah got published in a national journal.



PROJECT EXPO 2016



INDUSTRIAL TOUR GANDHINAGAR

INFORMATION TECHNOLOGY DEPT.

Paper titled "Survey for Improving Cost-sensitive Semi-supervised Learning Algorithm" by Prof. Prachi Shah was published in International Journal of Advance Engineering and Research Development, dated 7th April, 2016.

Prof. Nikita Patel presented a paper titled "7-SQL Injection & XSS Vulnerability Detection and Prevention in Web Application" on 12th June, 2016 and also presented a paper titled "Image Super Resolution" dated 16th June, 2016 in International Journal of Advance Research in Engineering, Science & Technology (IJAERST).



CIVIL DEPT.

A paper by Prof. C. B. Mishra , Prof. N. F. Umrigar , Dr. Sangita , Tanuj Parmar, titled “Potholes Repair Technology - A Review” , got published in International Journal for Scientific Research & Development in April-2016.

Paper by Dr. F.S. Umrigar , Dr. L.B. Zala, Prof. A.A. Amin , Mrugesh J. Solanki, titled “Application of moving car observer method for measuring Travel time, delay and vehicle flow under Heterogeneous Traffic conditions of C.B.D. Area.

Paper by Vyas D. S., Galgalikar Esha, Andhare Santosh , titled “Study and Development Of Methodology Of Total Suspended Solids Reduction From Treated Pharmaceutical Waste Water “ got published in International Journal of Advance Research in Engineering, Science & Technology (IJAREST) in April-2016.

A workshop on disaster management is going to be organized by the department on 29 July, 2016.



Project Expo on 12 April 2016



Technical Visit to L&T, Ahmedabad in STTP of Construction Project Management on 16 June 2016

ELECTRICAL DEPT.

Paper titled “Revisiting ZPF method in novel computing environment” by D. K. Patel, J. K. Chauhan, A. R. Patel, N. G. Mishra, got published in International Journal on Recent and Innovation Trends in Computing and Communication (IJRIT)Volume 4, Issue 4, April 2016.

Paper titled “66/11 kV Distribution Sub-Station Design” by A.M. Patel, got published in IJARIE, Volume-2, Issue-3, June 16.

46 students out of a total of 72 were selected in companies leading to 63.88% campus placement and consecutively became the second highest placement in college among all the departments.

COMPUTER DEPT.

Dr. J. M. Rathod presented a paper titled "Review and analysis of recent techniques used for Microstrip patch Antenna for Ultra Wide Band Application" in NCERTE – 2016 organized by SPFU (CTE) – Gujarat along with Institute for Plasma Research and TEQIP – II.

Dr. Tanmay Pawar presented a paper titled "Detection of tremors in Hand Movement by video Analysis" in National Conference on Emerging Research Trends in Engineering, NCERTE-2016, April -2016.

Dr. Dipak Patel presented paper titled "IOT based Environment parameter monitoring using Beaglebone back" in International Conference on Innovative Advancements in Engineering & Technology IAET-2016. He also presented papers titled "IOT Based Remote Health Monitoring System" in National Conference on Emerging Research Trends in Engineering, NCERTE-2016.

Book titled "Computational method for image Registration" by Dr. M. S. Holia, was published by Lambert Academic publishing, Germany in June 2016. She has also written Chapter 27 titled "Multiview Image Registration" of the book series titled Smart Innovations, Springer Publication, published Internationally in April 2016.

PRODUCTION DEPT.

Paper titled "Characterization of Submerged Arc Welded Cr-Mo Alloy Steels" by Prof. R. S. Barot and Prof. K. D. Bhatt was published in Smart Innovations in Mechanical & Allied Engineering Journal dated 8-9th April, 2016.

Prof. R. S. Barot presented a paper titled "Characterization of Submerged Arc Welded Cr-Mo Alloy Steels" in the 7th National Conference on Emerging VISTAS of Technology in 21st Century on 9th April, 2016. He also delivered 3 Expert lectures in TEQIP-II sponsored by STTP on "Design of Experiments" organized in BVM college.

Prof. Akhil H Jariya delivered an expert lecture in TEQIP-II sponsored by STTP on "Design of Experiments" organized by BVM college.



Organized Design of Experiments (DOE) during 30th May to 4th June '2016



Organized GD & T and Coordinate Metrology during 23rd to 28th May '2016

STRUCTURAL DEPT.

Paper titled “Study of Mechanical and Durability Properties of High Performance Self Compacting Concrete with Varying Proportion of Alccofine and Fly Ash” by Dr. Deepa A Sinha got published in International Journal of New Innovations in Engineering and Technology, Volume 5 Issue 1 – May 2016.

Prof. V. A. Arekar's paper titled “An Experimental and Analytical Investigation on a Newly Developed Truncated Hexahedron Connector” got published in the Indian Journal of Science and Technology, Volume 9(15), April 2016. His papers titled “Comparative Study of curved beam using FEA and IGA” and “Parametric study of Steel beam with web opening” got published in International Journal of Advance Research in Engineering Science and Technology, Volume 3(04), April 2016.

Papers titled “Parametric study of Steel beam with Web opening” , “Effect of Mega column in outrigger system of High-Rise Building” and “Time History analysis of elevated water tank with different type of Bracing system using SAP2000” by Prof. V. V. Agrawal, was published in International Journal of Advance Research in Engineering Science and Technology (IJAREST), ISSN (online) 2393-9877, ISSN (print) 2394-2444, Impact factor: 2.125, Volume 3, Issue 04, April- 2016.

Dr. Snehal V. Mevada's papers titled “Comparative Study of Diagrid Structures with Conventional Frame Structures” , “Seismic Response of Non-Structural Element Placed on Single Story Two-Way Asymmetric Building under Bi-Directional Excitations” , “Comparative Study of Response of Structures Subjected To Blast and Earthquake Loading” and “Seismic Response of Adjacent Buildings Connected With Non-linear Viscous and Viscoelastic Dampers” got published in International Journal of Engineering Research and Applications, May,2016. Also, her paper titled “Effect of Various Positions of Floating Columns on a Building With and Without Provision of Infill Walls”, was published in International Journal of Advance Research in Engineering Science and Technology, April 2016.

Prof. (Dr.) Indrajit Patel has recently Visited Ural Federal University, Russia under International Exchange Program under GTU for the academic collaboration Indo- Russia project during 19- 25 June, 2016.



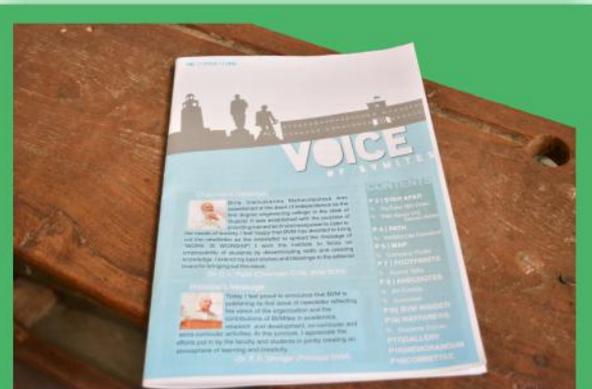
SHORT TERM TRAINING PROGRAM

No of Registered Candidates/ Name of Faculty(if Organized):	Topics (Covered)	Organized/ Attended	Duration and Venue
Mechanical Department			
Total Participants-40	Finite Element Simulation Using ANSYS where participants learnt to apply ANSYS for different applications	Organized	2-6 May 2016
Total Participants-30	Computer Aided Engineering Using CREO	Organized	16-20 May 2016
Production Department			
Prof. K. D. Bhatt	Computer Aided Engineering using CREO	Attended	16-20 May 2016
Total participants-29 / Dr. A M Trivedi , Prof. K. D. Bhatt, Prof. J B Thakkar	GD & T and Coordinate Metrology	Organized & Attended	23-28 May 2016
Total participants-44 / Dr. A M Trivedi / Prof. R S Barot, Prof. P D Chauhan	Design of Experiments (DOE)	Organized & Attended	30 May - 4 June 2016
Prof. P. D. Chauhan	ICT Enabled Academic & Administrative Governance in Technical Institutions	Attended	9-21 May 2016
Electronics Department			
Dr. M. S. Holia	Expert talk on "Digital Image Processing Using Matlab and its application"	Organized	24 May 2016
Electronics & Communication Department			
Dr. Bhargav C. Goradiya AND Dr. Mehul B. Shah	BVM Curriculum development program	Attended	3 days at Bhopal

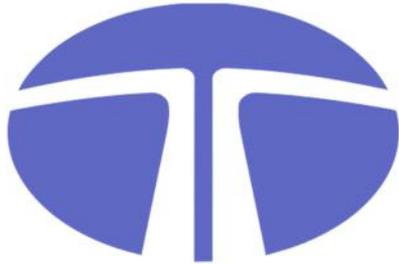
No of Registered Candidates / Name of Faculty (if Organized):	Topics (Covered)	Organized/ Attended	Duration and Venue
Mathematics Department			
Total participants-73 Dr. T.A.Desai, Prof. R.B. Gandhi, Dr. M.E.Shimpi, Dr. N.S.Sathe, Prof. S.D.Bhagat, Prof. A.N.Roghelia, Dr. V.G.Khambholja	ICT enabled Academic & Administrative Governance in Technical Institutions (ITEAAGTI – 2016)	Organized	9-21 May 2016
Prof. R.B. Gandhi	Mathematical Modeling, Optimization, Fractional Calculus and their Computations in Engineering and Sciences (MMOFCCES – 2016)	Attended & delivered 5 expert talks	21-25 June 2016, SVNIT Surat
Structural Department			
Total Participants-35/ Dr. Snehal V. Mevada, Prof. V. A. Arekar, Prof. V. V. Agrawal, Dr. Darshana R. Bhatt	Recent Trends in Foundation Engineering	Organized and Attended	16-28 May 2016
Dr. Snehal V. Mevada	Management Capacity Enhancement Training	Attended	23-28 May 2016 at IIM Trichy, Chennai Centre
Dr. Darshana R. Bhatt	Construction Project Management	Attended	13-18 June 2016
Prof. P. D. Chauhan	ICT Enabled Academic & Administrative Governance in Technical Institutions	Attended	9-21 May 2016
Computer Department			
Total participants: 51 Prof. Bhavesh Tanawala , Prof. Kirtikumar J Sharma	MATLAB® and its Applications	Organized	23 May - 4 June 2016

No of Registered Candidates / Name of Faculty (if Organized):	Topics (Covered)	Organized/ Attended	Duration and Venue
Electrical Department			
Prof. A R Patel Prof. S V Arya	Finishing School on "MATLAB" for 2nd Year EE Student	Organized	18-25 April 2016
Dr. N G Mishra	Wind Energy & Issues Related to Grid Integration	Organized	16-17 May 2016
Dr. N G Mishra, Prof. A M Patel Prof. J C Baria	Protection and Monitoring of Power System Network in Smart Grid/Micro-Grid Environment	Attended	June-July 2016, 1 week
Dr. N G Mishra Prof. M N Sinha	Two Days Tutorial Programme on Smart Grid and Power Quality	Attended	3-4 March 2016
Civil Department			
Prof. N. F. Umrigar	Comprehensive Transportation Planning Practices	Attended	16 - 27 May 2016 , SVNIT , Surat
Total participants: 40	Environmental Degradation and Control	Organized	25 - 30 April 2016
Total participants: 43	Construction Project Management	Organized	13-18 June 2016

BVM SPECIAL EVENTS



Treading into an exciting endeavor, BVM college launched its first ever official newsletter i.e. "VOICE of BVMites" on 28 April, 2016



TATA CONSULTANCY SERVICES

IT takes vision and wisdom. The Tata's had it in their blood! Tata Consultancy Services (TCS), established in 1968 was the first software company of India, largest Indian outfit and largest IT Services firm in Asia. It is also the 10th largest IT Service provider in the world and has also been placed into the BIG 4 IT Service brand in the world. TCS has big name in world markets.

SERVICES:

TCS offers a consulting-led integrated portfolio of IT and IT-enabled services delivered through its unique Global Network Delivery Model (GNDM), recognized as the benchmark of excellence in software development.

TCS offers Assurance Services, Business Intelligence and Permanent Management, Enterprise Solutions, Engineering and Individual Services, IT Infrastructure Services, Consulting, Supply Chain Management, iON-small and medium business.

TCS RECRUITMENT PROCEDURE:

First of all to be a part of TCS on campus or direct off campus placements you need to register yourself on Nextstep TCS online job portal so as to be eligible to sit in TCS future recruitment drives. Here below is complete information regarding TCS hiring process for freshers for the post of Assistant System Engineer Trainee.

The First Round in TCS consists of an Online Aptitude Test comprising of 30 questions of Moderate difficulty that includes quantitative aptitude, Verbal and Logical reasoning questions. Along with this Aptitude test you will also be having a 10 minutes Email Writing test where you will be judged on your English writing skills.

After clearing this you will go through the Face to Face Technical Interview Round where your engineering fundamentals would be tested.

After the Technical Interview round you will have a Managerial Interview round where your response to a given situation is tested.

That's it after Technical and Managerial Interview you will have a formal HR Interview round.

**-Saurabh Singh (2nd year, EL)
Yogesh Iyer (3rd year, EC)**

*True certainty of success comes from working with a partner you trust to provide the insight, support and expertise that will propel your business forward. Experiencing certainty with TCS means you can count on results, partnership and leadership.
And there goes the tagline of TCS – "Experience Certainty"*



I bet you've always wanted to make a robot that follows your commands, does the stuff for you, plays with you when you want to, fights the bad guys, and is always there by your side no matter what. So here is a chance for you to build your own little robot and compete it with others. Here is Robocon.

What is Robocon?

Robocon (ROBOTic CONtest) is an international event where engineers and enthusiasts from around the world gather together to see the wonders of a human brain in the form of a robot. Robocon is organised by Asia-Pacific Broadcasting Union (ABU), a collection of over 20 countries of Asia Pacific Region. NHK, Japan had already been organising such contests at national level and also became the host of the first ABU Robocon in 2002. Since then, every year one of the member broadcasters hosts this international event.

Why should I know about it?

We engineers are always keen to create something out of nothing that makes our lives easier and less miserable. Well, this chance couldn't be better for you to make this world a better place. Your robots can play badminton, fight the bad guys, and what not! Every year some or the other theme is selected which helps the engineers produce a variety of robots useful in various conditions. This year, Vadodara Institute of Engineering won the national contest and got selected to represent India in Robocon finals to be held in August in Bangkok, Thailand and the theme is "Chai-Yo: Clean Energy Recharging the World". The concept behind the theme is the utilization of renewable energy sources.

The story behind this theme:

We humans have been using the energy stored in the form of fossil fuel since centuries. But these fuels will be perished one day, and after that we won't be able to utilise the resources for our sustenance. So considering this problem, the game of Robocon 2016 is based. ABU Robocon 2016 is designed in order to create the awareness of efficient energy consumption and clean and renewable energy utilization. Each team has to build two robots; Eco Robot and Hybrid Robot. Eco Robot doesn't have an actuator to drive. It receives the driving energy from Hybrid Robot. Eco Robot has to use only one steering actuator to control its direction, to track the path containing Slopes and Hills, River, and Down Hill. Besides providing driving energy to Eco Robot, Hybrid Robot has to take Wind Turbine Propeller from Eco Robot and climb up Wind Turbine Pole in order to assemble Wind Turbine.

Conclusion:

For a robot and technology enthusiast this is surely a place to go because not only will you get to know the latest technologies that are being developed across the world, but it will also motivate you to take the stand and make the world a better place, because let's face it, every engineer wants to change the world and this could be achieved only when we take the stand to change it.

- Pancham Khaitan (3rd year, IT)



ROBOCON 2016 Details

Title	ABU Asia-Pacific Robot Contest 2016 Bangkok, Thailand
Contest Date	Sunday, 21 August 2016
Contest Theme	Clean Energy Recharging the World
Awards	ABU ROBOCON AWARD GRAND PRIX 1st RUNNER-UP 2nd RUNNER-UPs BEST IDEA AWARD BEST ENGINEERING AWARD BEST DESIGN AWARD SPECIAL AWARDS

Past winners

Year	National Winner
2016	Vadodara Institute of Engineering, Vadodara
2015	Institute of Technology, Nirma University
2014	Institute of Technology, Nirma University
2013	MAEER's MIT, Pune
2012	MAEER's MIT, Pune
2011	Institute of Technology, Nirma University
2010	MAEER's MIT, Pune

BRAIN SCRATCHERS

BVM REACTS

Is education spending predictor of success ?

1 If yes, then success would be a commodity, easily bought by the rich.

7 The missile man of India never had enough to spend for it, still he got it.

2 If I have the guts, I can do it even without a single penny.

6 What is the difference between us and our ancestors

3 If I have luxury to spend, why shouldn't I? Education is the best investment.

4 My family income doesn't define my potential.

5 If yes, then degrees would be sold at auctioning houses.

BRAIN TEASER

Answer

The culprit was Boy 1 since office 102 is actually Ladies Room. Hence, he is lying.

Winner:

Rahul Pipaliya
3rd year IT

DECRYPTION

If honesty is $\square\Gamma\Box\Box\triangleright\llcorner$ in an encrypted language, then what does the following mean in English?

$\triangleright\square\Box\ \square\Box\triangleright\ \triangleright\llcorner\llcorner$
 $\triangleright\llcorner\ \square\cdot\square\Box\Gamma\llcorner\ \triangleright\square\Box$
 $\llcorner\llcorner\llcorner\square\Box\ \Gamma\triangleright\ \triangleright\llcorner$
 $\llcorner\cdot\square\Box\triangleright\Box\ \Gamma\triangleright$

Mail your answers at
newsletter.students@gmail.com

COMMITTEE

CHIEF EDITOR

Dr. I. N. Patel (Principal)

CONVENER

Dr. Namita Sathe

ADVISORS

Dr. A. M. Trivedi

Dr. Trupti Desai

Prof. P. B. Swadas

EDITORIAL BOARD

Prof. N. G. Mishra
Prof. R. S. Barot

Prof. Elizabeth George
Prof. R. R. Patel
Prof. N. F. Umrigar

Prof. M. I. Hasan
Prof. R. C. Rana
Prof. A. N. Bhatt

Prof. V. G. Khambholja
Prof. B. N. Dalwadi

SUPPORTING FACULTY

Prof. Ishan Pandya

EDITOR

Enosh Vishwanathan

COLUMNISTS

Pancham Khaitan
Ishan Bhatt
Nishi Thacker
Yogesh Iyer
Kavan Amin
Rejoice Parackel
Kishan Karangiya
Ritesh Koul
Saurabh Singh

DOCUMENTATION

Megh Shah
Udit Patel
Kushal Mehta
Maaeez Malek
Yash Sankhala

INGENIOUS

Niharika Modi
Kalyani Bhatt
Chinmay Raval
Shubh Majumdar
Ritu Chhipa
Abhishek Dand
Rajal Shethiya
Mudit Batra

ILLUSTRATORS

Vatsal Trivedi

Tushar Gonawala

Vatsal Patel



BVM Engineering College
(An autonomous institute)
Vallabh Vidyanagar - 388120

Managed by
Charutar Vidya Mandal(CVM)

Disclaimer: All information published in this newsletter is based on events and reports that took place at Birla Vishvakarma Mahavidyalaya Engineering College (BVM). The Editor or Publisher does not take responsibility for content presented during the events. Errors, if any, are purely unintentional and readers are requested to communicate such errors to authorities.