



RESONANCE @ GDEC

GDEC NEWS LETTER

For limited Circulations Only

College at Glance

GIDC Degree Engineering College is working on PPP mode. It is run by GIDC Education Society, GIDC Gandhinagar, under the aegis of dynamic management & visionary principal Dr. K. N. Mistry. The college has successfully completed 4 year with eminent growth by producing the students as Skilled Technocrats. According to the needs of Society we are facilitating by running the best leading courses such as Automobile Engineering (60), Civil Engineering (120), Computer Engineering (60), Electrical Engineering (60), and Mechanical Engineering (120).

70th Independence Day Celebration @ GDEC

The national festival of 70th Independence Day was celebrated with joy and pride at GIDC Degree Engineering College, Abrama, Navsari, in the valuable presence of honourable Shri. Hasmikhbhai Shah, VIA, Vapi; Shri. N.S.K. Srinivasan, Ex. GM, Atul LTD., Shri. Lalitbhai Kothari & Shri. Krishnakantbhai from Gayatri Parivar, Gandevi, along with the trustees, principal sir, teaching, non-teaching, supporting staff and students. After the introductory words about Independence Day by Prof. Harshal G. Vashi and Principal Dr. K. N. Mistry welcomed all the guests. The flag was unfurled by Shri Hasmikhbhai Shah. Everyone gave respect to the National flag by saluting it and by rhythmic singing of the National Anthem. Top 3 Students (CGPA wise) of each branch of engineering of final year passed out students (First Batch of GDEC) were honoured on Independence Day with certificate of excellence. All the guests gave inspirational speeches to all of us. Prof. Dr. Shailesh S. Patel gave vote of thanks to everyone. After completion of the formal ceremony, 7th semester students presented posters of their final year project work, 3rd and 5th semester students presented posters on design engineering and 1st semester students presented posters on their outputs of village visits. In this way the 70th Independence Day was successfully celebrated with zeal and pride at our institute.

Reported by: **Dr. Shailesh S. Patel** and **Prof. Harshal G. Vashi**



Swachh Bharat Abhiyan

Under the "Swachh Bharat Abhiyan" all the 1stsem students of civil engineering branch participated in Swachh Bharat Abhiyan during 29/8/2016 to 2/9/2016 at HANSAPOR Village. The main purpose behind the organizing of such a program is rural development and social involvement of first year students in their academic activities through SHRAMDAAN for construction of toilets under SBM(G).



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Editorial Team

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Prof. Kushal D. Patel

Prof. Avani P. Patel

Designed by

Mr. Nilesh G. Patel

GDEC Team

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(Dean, South Zone, GTU)

Dr. H. S. Patil,
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Head, Automobile Engg. Dept.

Prof. Archana Nayak,
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Principal's Message

It is my immense pleasure to well-come you at GDEC News Letter October 2016. GIDC Degree Engineering College is regularly publishing quarterly newsletter. The purpose of newsletter is to publish the activities of the college, achievements of the students, faculty and staff of the college. College is the host for the Navsari Innovation Sankul covers the Navsari district, Bardoli and Mandvi which includes the colleges of professional courses like Engineering, Polytechnic, Pharmacy, Computer applications and Management. The Industries related to these professions also meet regularly to discuss the innovations on the professional ground for the mutual benefits of the Industries and college students.

Apart from its technical education, college has planned to enter the extra co-curricular activities. These extra co-curricular activities will give the opportunities to students to

grow their inherent talent in all directions. We have nearly 1300 students include 33 International Students sponsored by ICCR & GTU, enrolled so far for studying computer, mechanical, automobile, electrical and civil engineering. College has target to educate these student not only the academic growth but to enrich them the real life experience. For this purpose college has motivation to explore the laboratory experimental test rig to use them for the testing, consultancy and research purpose for the Industries. By this Way College will generate not only revenue, but will enriched the experience of faculty and in turn educate students the real life applicability. College being sponsored by the GIDC education society, GIDC them self has more than 1 million industries and 2 million professional working in different fields. The college has the target that when the current students enters in the final year 75% students will get the placement before they pass out. Rest 25% students will be motivated for higher education or technopreneurship. College

also provide the International Experience Program of GTU. College has arranged the entrepreneurship awareness camp in association with Centre of Entrepreneurship Development and MSME, Govt. of Gujarat.

The college provides an environment which is not only pollution free but is also immensely suited for the holistic growth and the development of the students. Every effort is made to make the student to have a sound personality by imbining not only technical skills but also values and social adaptability and human sensibility as integral part of his/her mind-set and to make him/her a complete "self". The soft skill training is provided to the students such that they become globally acceptable personalities with communication skills, proper attitudes and aptitudes, problem solving capabilities and to work as team players.

Dr. K. N. Mistry

Dynamic Management

Name of the Member	Designation in the GES	Current Position/Organization
Smt. D. Thara IAS	Chairperson	Vice Chairperson & Managing Director, GIDC, Gandhinagar
Shri. G. N. Jogiani	Member Secretary	Director (NA) & General Manager GIDC, Gandhinagar
Shri H. R. Parmar B.E Civil	Member	Superintending Engineer GIDC, Surat
Dr. V. S. Purani M.E Civil, Ph. D.	Member	Joint Director, Commissioner of Technical Education, Gandhinagar
Dr. A. K. Dave B.E Mechanical, M.E, Ph. D.	Member	Ex. Director, SVNIT, Surat
CA. V. G. Desai M.Com, F.C.A.	Member	Chartered Accountant, Navsari
Dr. D. G. Naik M.A, M.Ed, Ph. D.	Member	Director, Naran Lala College Campus, Navsari
Shri Mahadevbhai Desai B.E Civil, LLB, MIE, MASCE(USA)	Member	CMD, Sthapati Designers, Navsari

ORIENTATION PROGRAMME

To welcome and enhance the freshmen orientation program was arranged on 4th August. The program was conducted in two seminar halls in parallel. Students of Automobile, Civil and Computer engineering were assembled in Electrical Department Seminar Hall. Principal Dr. K. N. Mistry presided over the function along with the concerned department HoDs. Principal welcomed all the students in the environment of the college campus and motivated the students to show their skills in the career. Dr. Shailesh Patel had given all the guidelines regarding the bridge course and other infrastructure and facilities like library,

transportation, laboratories, canteen, etc. The program was anchored by Prof. Nisha Parekh.

Students of Mechanical and Electrical engineering were assembled in Mechanical Department Seminar Hall. Shri C. A. Vinodchandra G. Desai presided over the function along with Shri Madhubhai Kathiriya as a chief guest (Ex. Mamlatdar) and the concerned department HoDs. Shri C. A. Vinodchandra G. Desai welcomed all the students with his inspirational speech, Shri Madhubhai motivated the students by giving examples of technocrats. Prof. Harshal Vashi had given all the guidelines regarding the bridge course

and other infrastructure. The program was anchored by Prof. Ishita Panchal.

After the completion of the session, the parents meeting was conducted by Principal to take care of their wards and advised them to cooperate in disciplinary manner for the betterment of the students. At the same time students were taken for the college tour by respective department faculty members to introduce about the facilities provided by the college.

*The whole function was organized by
Dr. Shailesh S. Patel & Prof. Harshal G. Vashi.*

GPSC/UPSC Awareness Seminar

G PSC and UPSC awareness seminar by Sardar Patel Institute of Public Administration (SPIPA), Navsari was held at GIDC Degree Engineering College on 8th July, 2016. Mr. Jitu Bhoje, coordinator, SPIPA, Navsari, has gave introductory speech about SPIPA, Navsari. Mr. Nachiketa Dave District Employment Officer, Navsari gave very useful and encouraging speech. Ms. Naitika Patel Public Relation Officer SPIPA, Navsari was also present. Dr. K. N. Mistry, Principal GIDC Degree Engineering College, gave very motivated speech. Numbers of Students from our college as well as

from other Institutes were present. Very informative & helpful guidance was provided by Mr. Pratik Tailor, SPIPA Navsari & Mr. Harshit Naik, Assistant Professor, GIDC Degree Engineering College, Navsari. The doubts and queries regarding various government examinations, recruitment process, qualification, and other things were solved. The program was proved to be very helpful for the students for selecting their career paths.

Reported by
Prof. Harshit Naik

Entrepreneurship Awareness Camp

GIDC Degree Engineering College, Abrama, Navsari has organized Three Days Entrepreneurship Awareness Camp in collaboration with "Centre for Entrepreneurship Development" (CED), Government of Gujarat. The students were identified based on their aptitude and background so that the training through this Camp becomes fruitful. 67 students and faculty members i.e. from computer Department Prof. Kaushal Kevadia, Prof. Brijesh Patel, from civil department Prof. Sunil Jaganiya, from electrical department Prof.

Dhruvang Gayakwad and Prof. Bhavin Trivedi, from Mechanical department Prof. Mayur Patel and Prof. Daksh Tandel, from Automobile Department Prof. Ashish Jain and Prof. Ankit Patel of this college attended the Camp. All speakers dealt the topic very effectively and had very good interaction with the students. Students were also exposed to real employment scenario by Mr. Mayank Mehta. Students have shown lot of inquisitiveness. The students whose parents have got some industries are motivated to think of innovation and expansion. The camp

has provided direction to many budding engineers of this college to be entrepreneurs.



Reported by: **Prof. Harshal Vashi**

Implementation of Bridge Course @ GDEC

As every year, this year also GTU has implemented Bridge Course with different course content to familiarize students with the institute environment. As per the guidelines received from our honourable Vice Chancellor Dr. Rajul Gajjar, each and every engineering institute affiliated with Gujarat Technological University have to conduct Bridge Course during 4th August, 2016 to 31st August, 2016.

As per the defined activities in Bridge Course'2016 some set of rules needs to be considered and followed as per the following for planning as well as conduction of activities of Bridge Course'2016 under the coordinator ship of **Dr. Shailesh S. Patel**.



Activity	Contents to be considered
Village visit	Student has interviewed Sarpanch. Villagers Gathered all details related to village and villagers life style Comparison of student's life style with Villagers life style
Learning Engineering	Technical Movies Bloom's Taxonomy Study of Disaster/Innovation Presentation
History of Science & Technology	Various activities regarding History of Science & Technology are executed.
Life Skill	Yoga and Tree plantation are defined to create awareness and importance amongst students within bridge course but it is recommended that these kinds of activities should be continued throughout four years by all the students In addition, Students have carried out following activities in Life Skills: Develop Self-Discipline skills, Anger Management, To Be Happy & To Make Others Happy, Give the information regarding Social Skills

Thalassemia Screening & Prevention Programme

The GIDC Degree Engineering College with assistance of Red Cross Society Ahmedabad Branch organized Thalassemia Screening and Prevention Programme in the college premises on 24th August 2016. Thalassemia testing was held consecutively for 4th time in the campus. About 226 first year admitted students from all five branches were participated in Thalassemia Screening and Prevention Programme and understand the meaning of testing Thalassemia and its advantages for coming generation. The GDEC teaching and supporting staff played a key role in successful organization of the camp. This camp helped students in getting awareness about their social responsibilities and showed enthusiastic participation for the same.



Co-ordinated by **Dr. H. S. Patil**

Open Source Technologies Club

GTU has introduced Open Source Technologies Club (OSTC) initiative for all the GTU affiliated colleges in collaboration with Spoken Tutorial Project-IIT Bombay. The objective of Spoken Tutorials is to learn Free and Open Source Software (FOSS). It helps the students to learn complicated topics through simple tutorials and also proves cost effective. This method is highly conducive to self-learning. An Open Source Software which is very useful for research work for students as it is freely available, no licenses is needed. Spoken Tutorial Project managed by IIT Bombay, which is helpful to learn the functioning of all Open Source Software from anywhere and anytime by using their portal.

GIDC Degree Engineering College, Abrama has established Open Source Technologies Club (OSTC) through a tie up with Spoken Tutorial Team – IIT Bombay & GTU. With the initiative under OSTC, Computer Department successfully organized following workshops for the students:

Workshop Name	Year/Semester	Date	No. of Participant
LibreOffice suite Calc	BE-II, Semester - III	16 July, 2016	52
PHP & MySQL	BE-IV, Semester-VII	22 August, 2016	49
Java & Net Beans	BE-III, Semester - V	09 Sept, 2016	42

OSTC Workshop Team

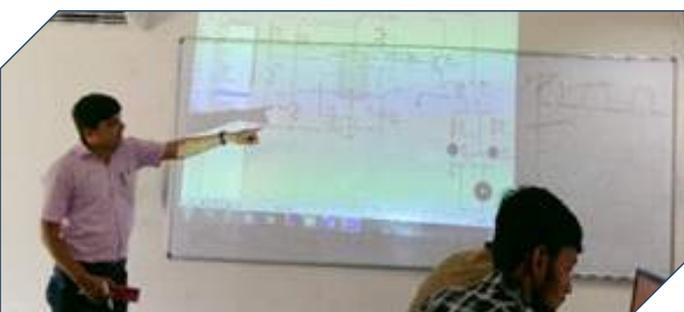
Patron	Organizer	Coordinator	Lab Assistant
Dr. K. N. Mistry	Prof. Archana Nayak	Prof. Mihir Mishra	Mr. Nilesh Patel



Technical Workshops

Electrical Engineering Department organized two workshops:

- 1) Workshop on "Industrial Electrical Engineering" for 3rd & 4th year Electrical Engineering Students was organized for three days that is 15th - 16th & 30th July, 2016. Total 55 students participated in this workshop. The workshop was organized by **Prof. Dhaval K. Patel** & Rahat Electric Works.
- 2) Workshop on "PCB Design and Simulation" for 3rd year Electrical Engineering Students was organized for Two Days 2nd & 3rd September, 2016. Total 42 students have participated in this workshop. Workshop was organized by **Prof. Ketan K. Lad, Prof. Dhaval K. Patel, Prof. Rohit B. Damor** and **Prof. Khyati K. Naik**.



SAE INDIA

Automobile Engineering Department had organized a seminar on "SAE INDIA" presented by Dr. Sudhir Gupte (H.O.D. at Automobile Engineering Dept. A.D. Patel Institute of technology, New Vallabh Vidyanagar) on 7th September, 2016. All the students and faculties of Automobile Engineering Dept. had attended this seminar. It was a useful and informative seminar for the students as well as for faculties regarding SAE INDIA (Society of Automobile Engineers India) Club and also about SAE BAJA 2016 event (Intercollegiate design competition run by SAE in which Teams of students from universities all over India design and build small off-road cars).



Training & Placement

GDEC T & P Cell Organized Workshop in association with iTeknika Service & Solutions, Pune

Date: 13th August, 2016

Venue: Electrical Department Seminar Hall

Director of iTeknika has presented Information about company and placement scenario. Then, Mr. Rohit Runwal has taught about easy technique to solve Quantitative Aptitude. Later, Saloni Ranka and Vimal Kumar has given overview about basic computer languages(C, C++, Java). At last, doubts of college Management are solved by Director of company.

Company Visit by Computer Department Faculties

Computer Department Professors **Prof. Kaushal T. Kevadia, Prof. Brijesh U. Patel, Prof. Kushal D. Patel** visited diverse IT companies at Surat, Valsad, Navsari respectively. They invite companies to visit our college for the campus placement for the final year students. In addition, they request companies to facilitate training to the pre final year students for their final year projects. Various companies responded with positive reaction and ready to come for campus as per their requirement in nearer future.

List of Company Visited

Atul Limited	Bosleo	Finlogic(NJ Group)
Sai Krupa IT Solutions	Mango Software	SailFin
Meta Tree	eZee Solutions	LaNet
Synergy IT Services	FlickDevs	WebTech Solution
Jzero Solution	nCode Solution	Ratnakala Software
WeeTech Solution	SuccessSoft	Softyug Solution

Report by: **Prof. Kushal Patel**

HallaBol Season II

Women Safety and Security

GIDC Degree Engineering College (GDEC) organized "HallaBol Season II" for Women Safety and Security on 22nd August, 2016 to spread awareness amongst the girl students for self-defense techniques and Indian Laws & Services regarding Women Safety and Security. The event was conducted in ordinance with Wajra O Force Empowerment Foundation, Ahmadabad Police Department and Gujarat Technological University(GTU).

Women can fill a registration form at policeheart.com. When women are in emergency situation, get immediate help by a missed call/call on toll free no. 1091 i.e. Public Service Helpline 1091. A digital presentation, were provided by Ms. Ruzan Khambhatta (founder of 1091 and entrepreneur) that increased the awareness of self-defense and Laws of women security and safety, it's needed to be physically fit to face unexpected situations. Total 90 girl students of institute participate in the event.

Women Empowerment Team

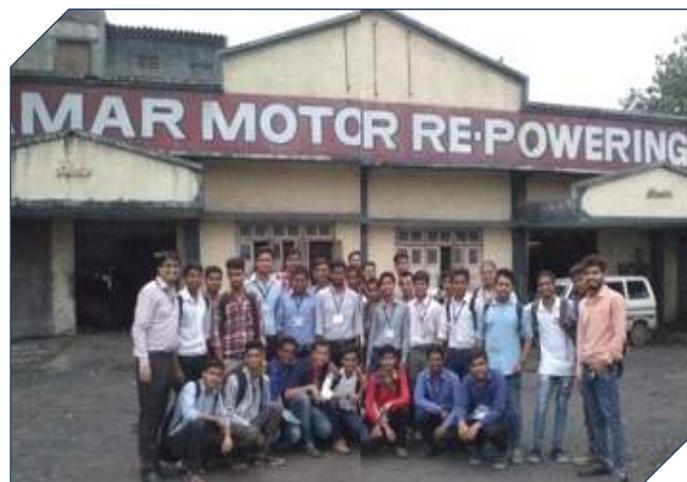
Principal	Event Co-ordinator	Department Co-ordinators
Dr. K. N. Mistry	Asst. Prof. Archana Nayak (HOD, Comuter Dept.)	Amruta Naik (Computer Dept.) Apexa Desai (Electrical Dept.) Anita Patel (Civil Dept.)



Industrial Visit

An Industrial Visit to "AMAR MOTOR REPOWERING WORKS", Kadodara, Surat was organized for 3rd Semester Automobile Engineering Students along with the 2 faculty members (**Prof. Ashish Jain** and **Prof. Arpit Panchal**) dated on 03/08/2016.

Mr. Happy Singh (Partner of AMAR) has guided students with their workshop's introduction and background. Their Workshop Manager has explained theoretically and practically demonstrated about the repairing and maintenance of the heart of Automobile i.e. ENGINE. This Industrial visit was really helpful to the students in understanding various Machines of Current studying Subject "Manufacturing Processes - 1" as they were given demonstration and understanding of Machines like Lathe Machine Tool, Boring Machine, Milling Machine, Honing Machining, Grinders and alignment machines etc. Finally the demonstration of valve seat preparation, valve grinding and valve lapping were shown by their technician. The service and requirements for obtaining proper compression ratio in an engine were explained beautifully by their Workshop Manager.



Lord Ganesha @ GDEC

On 5th September, i.e. Ganesha Chaturthi, Ganesha idol was implanted at Civil Engineering Department of our college. During this, students as well college staff participated in various religious rituals. On, 11th September, Ganesha Visarjana was held.



Tree Plantation

Tree plantation program was carried out to create awareness among students for protecting trees and environment. This program was carried out in all the branches, department wise. The main focus was on plantation of native trees like Neem, Banyan and Peepal trees. Students were divided in groups and each group carried out the activity allocated in guidance of the faculties.



VISHWA BANDHUTVA DIVAS

We have celebrated Vishwa Bandhutva Divas on 14-09-2016 for the first semester students of Electrical, Automobile and Computer branch, under the auspices of Vivekanand Kendra, Kanyakumari (Surat Branch). The presentation was delivered by Dr. Akhilesh Pandey, Officer in District Panchayat Health Department. The aim of the seminar was for the unity of the word. The programme was coordinated by **Dr. Shailesh S. Patel & Prof. Harshal G. Vashi.**

Lecture Series on MATLAB

Department of Applied Science & Humanities has started lecture series on MATLAB from 17th September, 2016 onwards. The aim is to develop Mathematical Problem Solving Approach for the research fellows and all interested faculty members of GDEC. Lecture Series will be continued on consecutive working Saturdays. The lectures will be delivered by **Dr. Shailesh S. Patel & Dr. Rajiv Singh.**

ENGINEERIA

Prof. Hardik Tandel of Automobile Engineering Dept. of our GIDC Degree Engineering College had coordinated in arranging a National level CAD Competition "Engineeria - Finding Emerging Engineers" with the collaboration of CADD CENTRE - Valsad on 10:30 am of 22nd September, 2016 at our Reputed Institute for college level (1st stage). 39 Students of 2nd, 3rd and 4th year Automobile Engineering Department have successfully participated in the competition.



Publications & Achievements

Computer Engineering Department

Faculty achievement

Paper Publications

- "Survey on Several Data Hiding Scheme for Encrypted Image by Reserving Space" by **Archana. M. Nayak, Kaushik S. Patel, Kaushal T. Kevadia, Brijesh U. Patel** in International Journal for Innovative Research in Science & Technology Volume 3 | Issue 01 | June 2016 (ISSN: 2349-6010) impact factor 3.559

Technical Membership

- **Prof. Kushal D. Patel** is an active member of Reviewer Management System (RMS) in International journal of Engineering development and research since July 2016. ISSN: 2321-9939 Holding Member ID: 111456.

Student achievement

Winner (1st Prize)

Ankit Mishra, students of semester V, BE III from computer engineering department had participated in an event held at SCET named "Youth Parliament (Debate)" on 17th September. In this event, he secure 1st rank.

Electrical Engineering Department

Faculty achievement

STTP Attended

- **Prof. Bhavesh S. Patel** Attended STTP (Short Term Training Project) on "Application of Power Electronics to Power System" on 13th-17th June, 2016 Organized By: SCET, Surat

Paper Publications

- "Reactive Power Compensation by Facts Thyristor Switched Reactor (TSR) Using Microcontroller" by **Prof. Bhavesh S. Patel** in International Journal of Engineering Research & Management, September 2016 ISSN: 2349-2058

Automobile Engineering Department

Faculty achievement

Paper Publications

- "Heat Transfer Analysis of Damping Fluid Using Shock Absorber Test Rig" by **Prof. Ankit Patel, Prof. Arpit Panchal, Prof. Dhiren Patel** and **Prof. Toral Patel** in International Journal of Scientific Review in Engineering and Technology (IJSRRET) Vol. 1 (5), ISSN: 2455-3603 in Aug 2016.

Mechanical Engineering Department

Faculty achievement

Paper Publications

- "Experimental Investigation of Hardness of FSW and TIG joints of Aluminium Alloys of AA7075 and AA6061" by **H. S. Patil** in International Journal of Fracture and Structural Integrity No. 37 July 2016 ISSN 1971-8993.

Student achievement

2nd runner's up in Model Presentation State Level Competition

The students of semester I, BE I from Mechanical engineering department of GDEC institute had participated

in an event held at FETR Bardoli named "Visvesmruti 2016" which was organized SETU Foundation and IEI, SGLC on 16th & 17th September.

Team member Name: 1. Naik Malhar K., 2. Mistry Nisarg H., 3. Desai Vedarth M., 4. Tandel Aalay A.

Civil Engineering Department

Student achievement

1st runner's up in poster presentation State Level competition

The students of semester V, BE III from civil engineering department of GDEC institute had participated in an event held at State level named "57th foundation day of the institute of engineer India" which was organized by IEI. They secured position of 1st runner's up under the guidance of **Prof. Rajan Lad** and **Prof. Manali Shah** and got the price of 1500 rupees.

Team member Name: 1. Rajesh Goswami, 2. Patel Smit, 3. Pathan Shahrukhkhan, 4. Komal Thoke

Applied Science and Humanity Department

Faculty achievement

- **Dr. Shailesh S. Patel, Prof. Harshal G. Vashi & Prof. Harshit K. Naik** had successfully completed "Training of Trainers" during 18th & 19th July, 2016 at Sardar Patel Institute of Public Administration, Ahmedabad organized by Department of Personnel and Training, Training Division, Government of India.
- **Prof. Harshal G. Vashi** and **Dr. Kaushal K. Thakkar** performed the duty of Jury Member at District Level Science Fair held at R. D. Patel High School, Kabilpore, Navsari on 7th September, 2016.
- **Prof. Harshal G. Vashi** has performed the duty of Judge and Expert at Visvesmruti-2K16- A State Level TechFest organized by Faculty of Engineering Technology and Research, Bardoli during 16th & 17th September, 2016.

Publications

- Paper on "The Study Of Longitude Dispersion Phenomenon In Flow Problems Through Laplace Transform Technique" by **Dr. Shailesh S. Patel** in IJRDO-Journal of Mathematics. (ISSN:2455-9210)
- Book entitled "Instrumentation & Control Systems for Combined Cycle Power Plant: An Operations Management Perspective" by **Prof. Harshal G. Vashi** (ISBN: 978-3-659-95327-9)
- Book entitled "Stress Management: Special Reference to Bank Employees" by **Prof. Harshal G. Vashi** (ISBN: 978-3-659-95180-0)
- Paper on "Spectroscopy and decay properties of Σ_b, Λ_b baryons in quark-diquark model" by Ajay Majethiya, **Kaushal Thakkar*** and P. C. Vinodkumar, Chinese Journal of Physics 54: 495-502(2016). Elsevier Publication ISSN: 0577-9073 (Impact Factor: 0.464).

Photo Gallery

