

Shri Manibhai Virani & Smt. Navalben  
**VIRANI SCIENCE COLLEGE**  
(Autonomous College)



*Golden*  
**EVENTS** 50



The logo for the 50th Golden Jubilee of Virani Science College, featuring a large '50' with a flame-like design above the '0' and the text "GOLDEN JUBILEE" and "SHREE M. & N. VIRANI SCIENCE COLLEGE YOGIDHAM-RAJKOT" around it.



"Yogidham Gurukul", Kalawad Road, Rajkot - 360005. (Gujarat) India

## Inspiration & Divine Blessings



H.D.H. Hariprasad Swamiji Maharaj  
President,  
Yogi Divine Society, Haridham - Vadodara  
Sarvoday Kelavani Samaj - Rajkot

ભાગ્યનાં લેણાં જોઈ પુણ્યકિર્તિને તે મળી પડી ભાગ્યેથી  
તેમનાં મનમાં પૂજન ભાવજાગી જોઈ



Late Shree Manibhai  
Virani



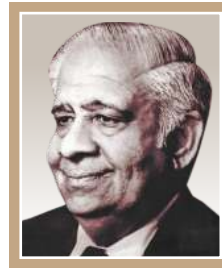
Late Smt. Navalben  
Virani



Shree Anilbhai  
Virani



Shree Arunbhai  
Virani



Shree Atulbhai  
Virani

*"Their Altruism made  
a Difference !"*

# Preface

Golden were the thoughts of the **Shri Harsukhbhai Sanghavi, Founder President** of **Sarvodaya Kelavani Samaj** to start **Shri Manibhai Virani and Smt. Navalben Virani Science College, Rajkot** in 1968, & to hand it over into the golden hands of **GuruHari P.P. Hariprasad Swamiji Maharaj** in 1988, to nurture Youth Development. The Midas Touch of **GuruHari P.P. Hariprasad Swamiji Maharaj** & able leadership of **P.P. Tyagvallabh Swamiji**, has brought us on the golden path of the celebration of the Golden Jubilee. The milestones of growth and development have been aplenty, and is being shared elsewhere. However, the golden events of the college during the **Golden Jubilee Year (2018-2019)** are representatively illustrated here.

The quality of an institution and that of the learners and all its stakeholders does not rest only in its classrooms with syllabus, books & examinations. It is dependent on progressive competency mapping, capacity building, sharing of knowledge for impact & transformation and recognition of potentials. Hence, **Shri Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot** gone beyond classrooms in all its years, and especially so during the Golden Jubilee Year, to adopt the above in a proactive manner.

**The Golden Jubilee year had 52 weeks** and **40 weeks in the Academic year** of which **6 weeks were for Semester End Examination, 4 weeks for internal examinations** hence only **30 weeks for effective academics wherein, besides general learning experiences, learning of all stakeholders happened through 55 events** conducted in **4 categories** under **8 sub-categories**, which is on an average **2 events / week !**

The plethora of these Golden Events is just unimaginable, what with the academic workload of the faculty members and students! Yet, as a team and with a smile, they were accomplished!

The categories and sub categories were :

- A. Capacity Building :** I. Faculty members      II. Support staff
- B. Student Initiatives :** I. Academic training      II. Academic presentations      III. Competitions
- C. Exhibitions & General activities :** I. Exhibitions      II. Celebrations
- D. Outreach & Social Activities**

One Golden era is now the past. The next Golden era is ahead of us!

We re-dedicate ourselves in the march towards further progressive quality in all our endeavors!

**Jay Swaminarayan!**



## ॥ અનેરું

જીવનમાં ક્ષણની કિંમત શી છે? એ શીખવે તે શિક્ષણ ! પણ આ કિંમત જાણ્યા પછી જીવનની પ્રત્યેક ક્ષણને કઈ રીતે વાપરવી ? તે શીખી શકાય સંસ્કારથી. આથી જ આપણી સંસ્કૃતિમાં શિક્ષણ અને સંસ્કારના સમન્વયનું મહાત્મ્ય છે. ને આ સમન્વય જ જીવનની ઈમારતને મજબુત બનાવે છે. લાઓત્સેએ કહેલું, 'હજારો માઈલની સફરની શરૂઆત







# વિદ્યાતીર્થ ॥

એક મક્કમ કદમથી થાય છે'. જીવન સાફલ્યની સફરનું આવું એક મક્કમ કદમ એટલે 'આત્મીય - રાજકોટ' માં અભ્યાસ માટે પ્રવેશ પરિવાર, સમાજ, રાષ્ટ્ર અને વિશ્વની સેવામાં યશસ્વી યોગદાન આપી શકે તેવા યુવાનોનાં સર્જન કેન્દ્રસમાં 'આત્મીય' ના સર્જક છે.

- પ્રગટ ગુરુહરિ પ.પૂ.હરિપ્રસાદ સ્વામીજી (હરિધામ-સોખડા)





## **SDP** **"Good Laboratory Practices"**

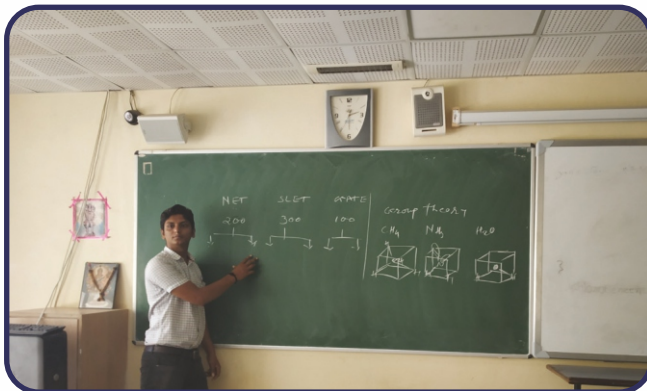


The laboratory assistants of Life sciences departments were trained in calibration & maintenance of minor instruments & equipments along with Laboratory records keeping. They have been also exposed to new techniques & protocols for UG practical courses. The SDP was conducted by PG students who have received summer training @ Ruia College, Mumbai.



## Gurupurnima Essay Competition

### Guest Lecture NET/GATE Chemical Science



As a part of Gurupurnima celebration, the Department of Microbiology had organized an essay competition for all the students of Atmiya campus. The topic of the essay was – “My Ideal Guru”. The essays were evaluated and were awarded 1st, 2nd and 3rd prize in each language category.

Dr. Mayur Shiyal, Head, Department of Chemistry, TN Rao College, Rajkot conducted a session on "Preparation for Competitive Examination in Chemical Science (NET/SLET/GATE)". He elaborated Framework of NET/SLET/GATE Exams, Preparation Strategy & Question types, Short Tricks & Techniques to solve numerical.





## **FDP**

# **Research Publication**

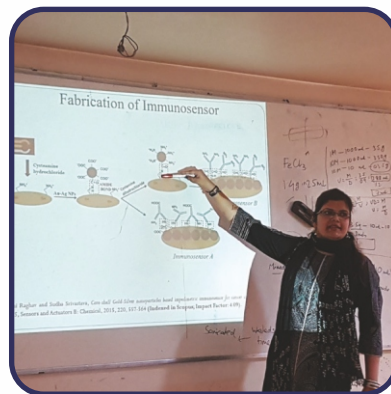


Dr. Datta Madamwar, former Professor, SP University, addressed research scholars & faculties about the trends in scientific writing & research publications. He sensitized faculties to apply for sponsored research projects under various schemes.





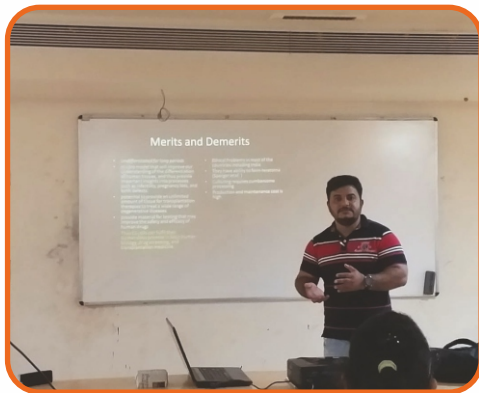
## FDP- Workshop Introduction to Nanotechnology



Lectures on Introduction to Nanobiotechnology, Synthesis & Characterization of Nanomaterials-Metal, Metal oxides & Semi-conductor nanoparticles, and Application of Nanotechnology in Life Sciences followed by hands-on workshop on synthesis of nanoparticles using co-precipitation method. The Characterization of nanomaterials employing various techniques such as UV-Viz., FTIR, SEM/TEM, EDX etc. were explained.



## Hands-on Workshop on Basics of Stem Cell



Dr. Jaymesh Thadani, Stem Cell Scientist, Total Potential Cells (P) Ltd, Vadodara and Ms. Shivani Vakodikar (Virani Alumnus), Technical Assistant, Genetic Division, Schamka Technology, Vadodara delivered lectures on basic of Stem Cells Research, Cell Lines, Characterization and Flow Cytometry followed by hands on experience to PG students on isolation & culturing of cord blood cells and evaluation of cultivation of cells during August 2018.



## **Exhibition Laboratory Instruments & Equipments**



Analytical and general laboratory instruments and equipments were displayed for the UG & PG students and faculties as well for one to one interaction with application scientist from pool of scientific equipment manufacturing companies like Meditron, Equitron, Shimadzu etc.



## Social Welfare Activity "Old Age Home Visit"



To sensitize the youth of today and inculcate in them the values of empathy and compassion and to have a positive mindset towards societal harmony; a visit to Old Age Home was conducted.





## State Level Seminar "Ozone Layer Depletion & Climatic Changes"



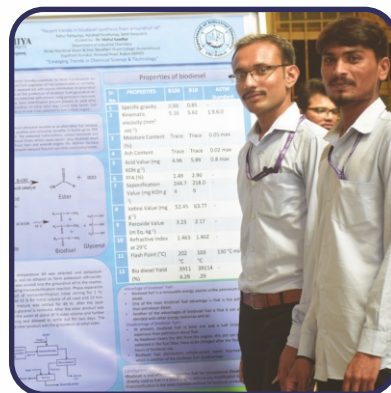
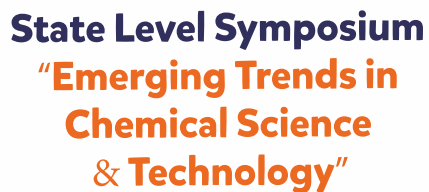
World Ozone Day 2018 was celebrated with the theme "keep it cool". Department of Industrial chemistry in association with GPCB, Regional Office have organized the seminar. 300+ students from various colleges have been sensitized towards ozone layer depletion and its solutions.



## Awareness Seminar Standalone Solar Power System



Solar energy is a major safe renewable energy source with the potential to meet many of the challenges facing the world. The premises on campus are equipped with solar panels capable of producing 20% of the electricity consumption. The seminar focused on the installation & maintenance of solar power panels.



Recent trends in chemical science and technology were demonstrated in the form of posters and static & dynamic models by the students from various colleges & Universities. The event was evaluated by Scientific Officer Gujarat Pollution Control Board, Rajkot.





## Industry Interaction Program Women Scientist Empowerment



Industry Interaction Program conducted on “Women in Science” @ Oxygen Healthcare Research Pvt. Ltd. Ahmadabad to commemorate International Women’s Day. Students witnessed field/ research activities carried out in Industry. Technical head explained Research career in pharmaceutical and allied industries.





## Model Exhibition Central Dogma of Life & Common Health Diseases



The students of vocational program have presented conceptual models representing Central dogma of Life and Common Health Diseases like Cirrhosis, Atherosclerosis, Myocardial Infection, Goiter, certain Genetic Disorders, Kidney Stone, COPD, Diabetes mellitus, Gout and Rheumatoid Arthritis etc.



## Free Eye Checkup Camp



Dr. Anurath Savaliya, Savalia Hospital have introduced stakeholders of the college to eye disorders, diseases and eye care. More than 800 stakeholders have been examined by Dr. Shilpa Goraniya, Dr. Shreyabaa Rajput and team of Savalia Hospital for two days in the month of September 2018. The advanced treatment for free was also facilitated by Savalia hospital.



## Hands on training CPR-COLS



Dr. Jaman Sakaria, Kalindi Hospital delivered a talk on importance of CPR followed by a demonstration. Team of Society of Anesthesiologists including former Gujarat state anesthesiologist Dr. Ashit Vaishnav trained students of the college in CPR - an emergency procedure that combines chest compressions often with artificial ventilation in an effort to manually preserve intact brain function until further measures are taken to restore spontaneous blood circulation and breathing in a person who is in cardiac arrest.





## Poster Presentation Chemistry for Mankind



Chemistry as a subject has a significant importance in our daily lives and the society in general. More than 200 Students from various colleges have presented review / research papers on current trends in chemistry.





## Breast Cancer Awareness



The students were introduced to the challenges & solutions offered to Breast cancer patients. Dr. Darshna Pandya, Gynecologist, Ashutosh Maternity Hospital enlightened the students with the symptoms and treatment of Breast Cancer – 29th Sept. 2018.



## Guest Talk Personality Development



Dr. Anil Ambasana, former Professor & Head, Education Dept. Saurashtra University has delivered insightful lecture on the journey from “Signature to Autograph”.



## Book Exhibition Chemical Science



More than 300 students have visited the exhibition of books, periodicals & e- resources pertaining to pure and applied chemistry



## Blood Donation Camp



The camp was arranged with the support of Atmiya University, Life NGO and PDU Medical hospital Blood Bank; 227 units were donated by the student and staff members for the benefit of Thalassemia patients.





## Poster - Model Exhibition



An exhibition of posters & models related to microorganisms & microbial activities organized on 1st Oct 2018. 100+ Students participated and 500+ students from nearby schools & colleges visited and appreciated.



## State Level Science & Engineering Fair INSEF – Level 2



INSEF Level-2 Fair was organized in collaboration with Science Society of India, Bangalore. More than 1000 students from science & engineering background have displayed innovative scientific solutions through dynamic and static models.



## Swachhta Abhiyan



The GORAS MELA (Janmastmi Fair- 2018) lasted for around 120 hours where around 5 lakhs people visited the same during Janmastmi festivals. Team Computer Science & Information Technology and RMC collectively took up this task and invested 1350 Man hours to clean and segregate the general and plastic waste. The college have also conducted cleanliness drive from campus to Saurashtra University via Prem mandir Kalawad road on the birth anniversary of Mahatma Gandhi.





## Gandhi Jayanti Celebration 2018



The day was observed by Prayer, Prabhat Feri, Swachhta Abhiyan, Exhibition on Life & work of Mahatma Gandhi, Online Quiz, Treasure Hunt and Live Painting.



## Workshop Paper Bag Making



Workshop on paper bag making was organized; Mr. Sachin dave local paper recycler have demonstrated professional paper bag making form paper waste/ news paper.



## Thalassaemia Screening Camp



Thalassemia awareness and screening camp was organized where 3000 students have been screened. Mr. Nishit Vachhani, Indian Medical Scientific Research Foundation-Life, Rajkot and Volunteers of vocational program have assisted blood sample collection.





## Model Exhibition "Snoop to Microbiome"



The under graduate students have presented the static models on ecological interactions and application of Microbiome. The theory and experimental facts related to Microbial interactions - Mycorrhizae, Bioleaching, Bioremediation phenomena etc. have been explained effectively through models.



## Hands-on Workshop "Foldscope"



A hand-on workshop was organized on "Foldscope" in collaboration with Microbiology Department of R. K. University, Rajkot. Total 110 participants from the biological sciences learnt the technique of paper microscope and its uses.



## **Making & Distribution Hanging Nest for Birds**



The non teaching staff and support staff have collected Garba and converted into hanging bird nest and distributed the same.





## Free Medical Camp



Cupping therapy is a form of ancient alternative medicine in which a local suction is created on the skin. Bolbala Trust conducted cupping and zapping therapy diagnostic and therapeutic sessions by therapist Mr. Jitendra Kukadiya and Ms. Magdale . Total 146 patients were benefited by the camp.



## Exhibition Biodiversity



Biodiversity refers to the variety and variability of all types of microbes, plants and animals on the earth. The exhibitions consist of prokaryotes and eukaryotes plants and animals with slides, charts, posters, specimens and herbarium of selected plants. Approximately 400 students and faculties have visited the exhibition.



## Science Popularization Activity



The main objectives of Science Popularization activity are to disseminate the scientific knowledge, to create scientific attitude and to develop scientific temper among the higher secondary school students. Lecture followed by Hands-on workshop on basic experimental techniques in chemistry and chores chemistry was conducted for Higher Secondary school students.





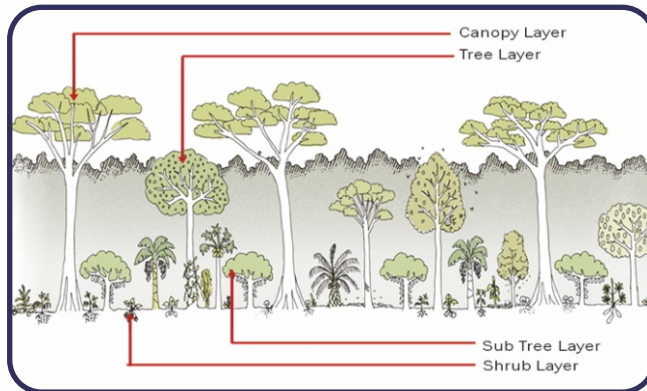
## State level Hands-on Workshop "Introduction to Geo Gebra"



Geo Gebra is an interactive geometry, algebra, statistics and calculus application, intended for learning and teaching mathematics and science from primary school to University level. Two hands-on workshops (regional & state level) for faculty and students have been organized in association with science faculty of Saurashtra University.



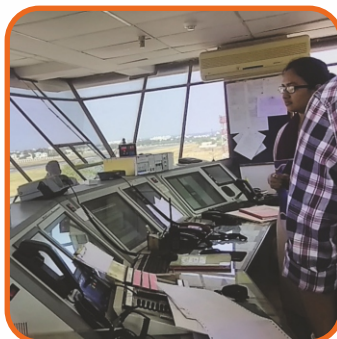
# Agro-Forestry A Step Towards Harmony



Faculty members of Value Education for Consciousness Development Cell of the college visited Ms. Sojitara's farm in Daliya Village on 2nd Oct 2018 to understand Miyawaki model of Agro-forestry which is inspired by Dr. Akira Miyawaki model of forestry for optimum utilization of vertical and horizontal space of farm. The concept of organic farming was explained which used "Gau-Mutra" and other natural materials for farming.



## Visit Weather Forecasting Laboratory



The visit at meteorology department and ACT (Air Control Tower) tower at Rajkot Airport have made students to understand the various parameters, instrumentations, collection & correlation of information that supports forecasting and severe weather warning services.





## International Seminar Nanoparticles & Proteomics in Therapeutic Application



Dr. Harish Madhyastha, Professor, University of Miyazaki, Japan delivered a talk on 'Nanocetrical hybrid conjugates in dermal wound healing precepts & prospects. Dr. Datta Madamwar, former professor, SP University addressed on 'Characterization of Cyanobacteria Phycobili proteins by X-ray Crystallography & their therapeutics applications.



## Webinar Series on Current Sciences by International Alumni





**This webinar series has been conducted by alumni of the college who are pursuing research and development as their careers and industrial professionals.**

**WT- 1** Ms. Namita Satija, Post Doctoral Fellow, Icahn School of Medicine at Mount Sinai, New York, USA delivered a talk on “Genetically encoded switch for studying latently HIV infected cells in humanized mouse models”

**WT- 2** Ms. Khushbu Patel and , Ph.D. scholar, Dept. of Medicine, Albert Einstein College of Medicine and Ms. Foram Patel, Ph.D. scholar, Icahn School of Medicine at Mount Sinai, New York, USA delivered a talk on “Educational Opportunities in USA”

Dr. Ana Maria Cuervo, Asst. Prof. Dept. of Developmental & Molecular Biology & Dept. of Medicine, Albert Einstein College of Medicine, USA delivered a talk on “Selective Autophagy in the Fight Against Aging & Age Related Disorders”

**WT- 3** Dr. Hirendra Parmar, Research Associate at Ottawa Hospital Research Institute, Ottawa, Canada delivered insightful talk on “Ins & Outs of Protein Trafficking Pathways: Insights from p15 FAST Protein”

Dr. Manoj Parmar, Ph.D. in Pharmaceuticals Sciences, University of Alberta, Edmonton, Alberta, Canada delivered a talk on “Polymeric Delivery of siRNA for Breast Cancer Therapy”

Mr. Divyesh Thakar, Innovation & Idea Management Process Manager BIOTRONIK SE& Co. KG, Berlin, Germany guided on “Power of Education & Educational Opportunities in Germany”

**WT- 4** Ms. Urvi Mehta, Sr. Associate, Regulatory Affairs, CMC, USA lectured on “My Education and Experience”

Dr. Manmeet Raval, Post Doctoral Research Associate, University of Southern California, USA talked on “Mechanism of Class III Myosin Mediated Regulation of Actin Bundle based Protrusions”

**WT- 5** Dr. Bhavik Mehta delivered a talk on “Yogidham A Gateway towards Globalization”

**WT- 6** Dr. Sujay Guha explained “Model Organisms a Powerful Tool for Drug Discovery”





## Tree Plantation



Trees play an important role in an ecosystem by maintaining ecological balance and equilibrium. A micro-habitat formed by planting trees can create a green and natural area, and a micro-climate that is healthy for all the life forms, including man, that inhabit the area. Students and faculties planted 151 trees.



## Expert Talk IPR Practical Approach and Current Trend in Patenting



Mr. Suhas R. Kulkarni, Examiner of patent and design, Officer of Controller General of Patents, design & trademark, Mumbai delivered a talk on IPR: Practical Approach and Current Trend in Patenting.



## Road Traffic Safety Awareness



The methods and measures used to prevent road users from being killed or seriously injured; have been presented by Joint Commissioner of Police and CEO- RTO Rajkot on 8th December 2018. More than 1000 students of first year have been benefited.





## Awareness Seminar Cycling and Its Impact on Environment & Health



The Impact of cycling on environment & health are almost as endless. Mr. Marshal Donga explained numerous benefits of bicycle to environment and health in comparison with motor vehicles, including the sustained physical exercise involved in cycling, easier parking, increased maneuverability, and access to roads, bike paths and rural trails.



## Mathematical Rangoli Competition



The themes were 3D mathematical & statistical figures and puzzles. The students have explained various Mathematical concepts through creative expression-Rangoli.



**State Level Hands-on  
Workshop**  
**"Advanced Analytical  
Techniques for  
Materials  
Characterization"**



The principle, instrumentation and applications of FT-IR, GC-MS, HPLC, MP-AES, Flash Chromatography, Lyophilizer, Hydrogenator, parallel synthesizer, Microwave synthesizer etc. have been explained through demonstration followed by hands on experience in the use of sophisticated instruments.





## BMI Checkup Camp



Body Mass Index (BMI) is a person's weight in kilograms divided by the square of height in meters. A high BMI can be an indicator of high body fatness. BMI can be used to screen for weight categories that may lead to health problems but it is not diagnostic of the body fatness or health of an individual. Total 600 + students & staff have been benefited by this camp organized by vocational program students. The results showed 410 normal, 166 underweight and 77 overweight and 9 obese students & staff.



## Awareness Program Hand Sanitization



Demonstration of lab made sanitizer employing Citrus limonum agro waste (peel extract) and a hands on session on the usage of sanitizer ; Poster presentation, video display and interactions with primary standard students, teachers of secondary schools. The students were made aware on personal hygiene, asepsis with application of sanitizer and its safety issues.



## Independence & Republic Day Celebration



The entire campus observed the Independence & Republic Day with hosting the Flag, March-past, patriotic skits & dances, Rope-Yog performance, motivational speeches by students & dignitaries and felicitating achievers of NCC & NSS candidates and contributors.





## Industrial Workshop "Industrial Safety and Ergonomics"



Industrial Training is the important strategy to expose students to real work life situations and to equip them with the necessary skills that intensify their job acumen. The PG students of Industrial Chemistry Department have participated in this workshop @ Tata Chemicals Limited, Mithapur.



## **Awareness Program** **Probiotics : The helpful** **microorganisms**



Demonstrative (poster, video, bacteria plate) interaction was made to make aware secondary school students on health benefits provided by probiotic bacteria, and on commercially available probiotic food and its importance in daily diet. The awareness program was conducted by second year students of the college.



## Motivational Talk Chess of Life



Dr. Kuldeep Luhana delivered a motivational talk to PG life science students. The lecture inspired the students to take up the challenges of life as an opportunity.





## Expert Lecture “Waste Management”



An expert lecture by Padmashree Prof. Sharad. P. Kale, former Prof. and Head, Technology Transfer Department (Biogas), BARC, Mumbai was organized on “Waste Management” for UG and PG students of biological sciences. Total 150 students attended the lecture followed by enlightening and fruitful interaction with Prof. Kale.



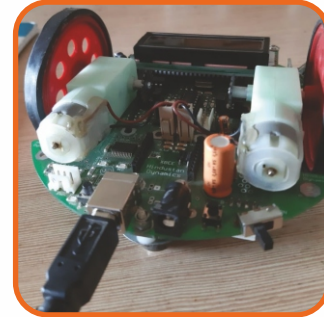
## Information Literacy Workshop



The Ph.D. chemistry students of Saurashtra University were exposed to operation and applications of sophisticated instruments like HPLC, GCMS, MPAES, Flow hydrogenator, Flash chromatography etc. In the second half the students were given hands on experience in the use of various e- resources like Science direct , N- LIST, Mendeley etc.



## Skill Development Workshop RobIntro

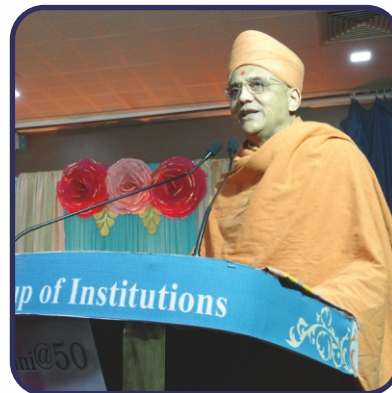


A one day skill development workshop on introduction to robotics at centre of excellence in embedded systems & robotics in association with team e-yantra IIT-Bombay was organized. The understanding of LED, LCD, Bargraph, Identification of sensors along with programming of sensors & actuators on fire bird-V robot were demonstrated.





## Alumni Meet 31st December, 2017





## Nurturing Creative Thinkers and Leaders Through **TRANSFORMATIVE LEARNING**

**Engineering & Technology – B.Tech., M.Tech., Ph.D**

**Pharmacy – B.Pharm., M.Pharm., Ph.D.**

**Management Studies – BBA, I-MBA, MBA, Ph.D.**

**Computer Application – BCA, MCA, Ph.D.**

**Science – B.Sc., M.Sc., DMLT, Ph.D.**

**Commerce – B.Com., B.Com [Logistics]**

**Education\* – 4 Yrs. Integrated B.Ed. || Law\* – L.L.B**



**IIT Bombay and IIT Kharagpur  
Remote Centre**



**Government of Gujarat  
Student Startup and Innovation Policy**



**Smart India Hackathon  
Runners Up - 2017**



**Government of Gujarat  
Summer Innovation Challenge Runners Up - 2018**



**Gujarat Pollution Control Board (GPCB)  
Environmental Auditor**



**SMART CITY**  
Gujarat Technological University  
Research Project Partner – GSSCD – 2015 & Onward



**Indian Society for Technical Education - ISTE  
Best Student Award - 2018**



**E-Yantra - IIT Bombay  
Center of Excellence - CoE  
Embedded Systems & Robotics - 2017**



**Indo Universal Collaboration for Engineering Education  
IUCEE - Consortium Member**



**Gujarat Technological University  
Center of Excellence in Telecom - 2017**



निजात्मानं ब्रह्मरूपं देहत्रयविलक्षणम् ।  
विभाव्य तेन कर्त्तव्या भक्तिः कृष्णस्य सर्वदा ॥



"કોઈ આત્મીય ભવે ક જાણે પોતે એ મહારાજ,  
માને અમલુ નહીં, મને અમલુ રાજો."



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