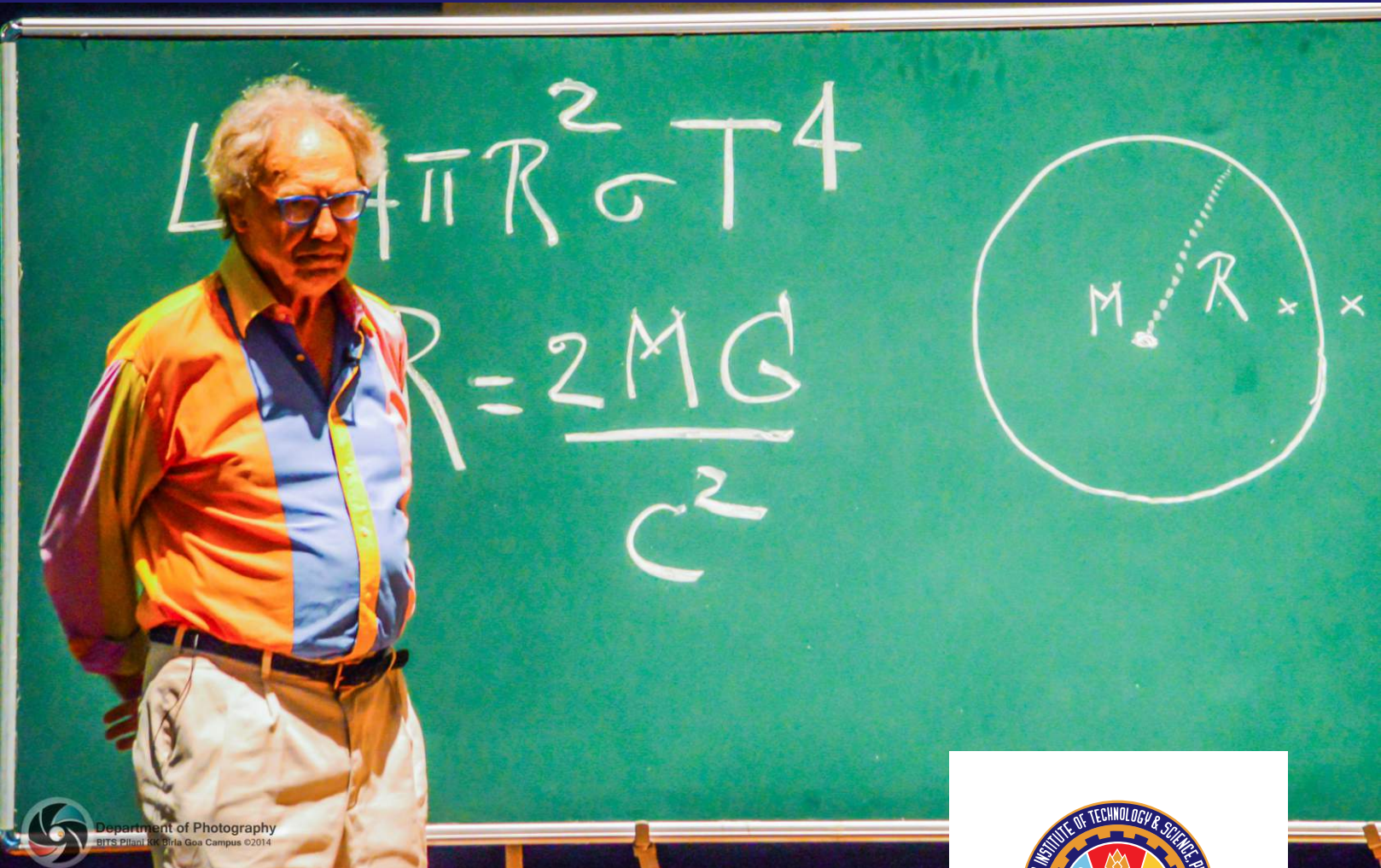


Semester-II notes 2013-14

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K K Birla Goa Campus



BITS Pilani
K K Birla Goa Campus

from the editor

Having entered into its Golden Jubilee year, BITS Pilani has been relentlessly marching ahead to achieve its Vision 2020. Aligning with the Mission and Vision of the University, K K Birla Goa Campus has been striving to embark on several activities involving innovations in academics, research and administration.

Quark 2014 Inauguration



Semester II, 2013-14 was testimony to activities related to Golden Jubilee celebrations, achievements by students and faculty, visits by eminent personalities, MoUs with reputed organizations, and the vibrant ambiance during Techno – management festival Quark and Sports festival Spree. For the first time, the campus got two Deans (one University-wide and one Campus specific) and nine Associate Deans to manage various functions of the Campus.

Smt. Bombay Jayashree at the Auditorium



Prof. Walter Lewin's visit, achievements by students and faculty members, international visits by faculty members for paper presentations and university/industry immersion, their publications in national and international journals, major festivals Quark and Spree, collaborations with Indian Navy and Pollution Control Board, societal initiatives by Nirmaan, etc., marked the semester II, 2013-14.

An article about the MoU between BITS Goa and PCB



Started with the events of 2009 -10 Semester II, BITScan has been able to garner your energetic support and enthusiastic participation at every stage and we are quite sure that we would be able to receive your continued support in future as well.

MoU signing between BITS Goa and the India Navy



GOLDEN JUBILEE CELEBRATIONS(GJC)

A bouquet of events encompassing a broad spectrum of topics was organized as a part of the Golden Jubilee Celebrations at the BITS Pilani, K K Birla Goa campus. The celebrations kicked off with the Convocation ceremony of the year 2013, which was held on the 11th of August, 2013. A plethora of academic, socio-cultural, technical and extracurricular activities were organized to celebrate 50 glorious years of existence of BITS Pilani University.

Prize Distribution by Prof. K.E. Raman



Some of the prominent events included: a concert by renowned Carnatic music vocalist and music composer, Bombay Jayashri organized on the event of Founders Day; a scintillating talk on “Birth and Death of Stars” together with some awe inspiring demonstrations by Prof. Walter Lewin, Emeritus Professor of Physics at MIT, on 14 March 2014 ; popular talk by Dr. Roop Mallik , Tata Institute of Fundamental Research(TIFR) and a Senior WELLCOME-DBT Fellow on the Dynein motors on 19 April 2014.

The Memorial Run



The Department of Economics organized a series of Lectures : 'Fertilizer Industry: Problems and Prospects' by Mr. Nitin Kantak, Vice President, Operations, Zuari Industries on 16 February 2014 ; “Lifestyle Diseases” by Dr. Padmanabh Rataboli, Professor Pharmacology on 22 March 2014; “Artificial intelligence: Big Data, Internet of things and Beyond” by Professor Karamjit Singh Gill, Professor Emeritus and Professor of Human Centred Systems, University of Brighton and Professor in Cambridge University on 25 March 2014.

Carnatic Vocalist Bombay Jayashri's Concert



A number of events in Photography, Creative Writing, Short Story, T-Shirt Designing and other competitions involving both students and faculty were also organized. A Memorial Run was organized in memory of former Director, Late Prof. Sanjeev K Agarwal on the 26 January 2014. Department Days were organized by the Departments of Biology, Mathematics and Chemical Engineering.

GJC celebrations were coordinated by Prof. Ranjan Dey and students Mansi Baveja, Param Shah, Raag Gupta, S L Narayanan and Bhargav Mistry Atul.

DEPARTMENT DAYS

Biological Sciences

The Department of Biological Sciences, BITS Pilani, K K Birla Goa Campus organized 'Department Day' on 12 February, 2014 as part of the ongoing Golden Jubilee Celebrations of BITS, Pilani. The theme was "Celebrating Darwin and Evolution" to commemorate Charles Darwin's birthday, which was on the same day. The event saw widespread participation from across the campus, as well as outside. Live demonstrations of popular biological phenomena were organized by the faculty and scholars of the Department for children of Mount Litera Zee School and Girls Higher Secondary School, Zuarinagar. Several events like treasure hunt, crosswords, t-shirt designing, wild life photography were conducted during the day. The quiz program was a major hit with 25 teams competing from the campus and from colleges like Dhempe, St. Xaviers, Chowgule, etc. The day was rounded off with a snake show organized on behalf of the Forest Department.

Biological Sciences Day



Chemical Engineering

The Department of Chemical Engineering celebrated "Department Day" on 14 March 2014. As part of the celebrations several events were conducted including expert lectures, poster presentation, drama and debates. Padma Shri awardee Dr. Chaitanyamoy Ganguly presided over the function as the Chief Guest. Dr. Ganguly and Prof. K. N. Ponnani delivered expert lectures in the area of Nuclear Engineering and Process Safety Management. Shareq Mohd. Nazir, an alumnus of the Department was also felicitated during this event.

Chemical Engineering Day



Mathematics

The Department of Mathematics celebrated its Department Day on 23 March 2014. Inaugurated by Prof. Govindan Rangarajan, Department of Mathematics, IISc Bangalore the ceremony witnessed the release of the first edition of 'Convergence', the official magazine of the Department. Prof. Rangarajan gave a special talk on Brain Machine Interface and Dr. Tarkeshwar Singh delivered a lecture on graph theory. The event saw participation from both students and faculty. The session was followed by a problem solving contest, where the participants were presented with two real – life problems; Knight's Tour Problem and Tower of Hanoi Problem. Other events like Rigorous Solving, Math Quiz, <math.h>, PiQ, Problem Creation were held with an overwhelming participation from students.

Mathematics Day



Walter Lewin

Prof. Walter H. G. Lewin, renowned Dutch Astrophysicist and Professor Emeritus of Physics at Massachusetts Institute of Technology, explained 'Birth and Death of stars' at the Campus auditorium on 14 March, 2014 as a part of BITS Pilani University's Golden Jubilee Celebrations.

Dr. Gaurav Dar, introduced Prof. Lewin, calling him 'one of the most famous Professors in the world.' Lewin is popular for his video lecture series on Physics and massive online courses taught on MIT OCW (Open Course Ware). In 2012, Princeton Review named him among 'The Best 300 Professors in the US.'

Prof. Walter Lewin addressing the students



A member of Royal Netherlands Academy of Arts and Sciences and a fellow at American Physical Society, Prof. Walter Lewin started the lecture by explaining the birth of stars by the gravitational collapse of a gaseous nebula of material composed primarily of hydrogen and helium. He discussed the nuclear fusion of hydrogen into helium in the stars' core, which releases massive amounts of energy. Then he enlightened the audience on the death of stars where the core becomes a stellar remnant: a white dwarf, a neutron star or a black hole depending on the star's mass; the Sun, being fairly light in mass, will turn into a white dwarf in around 5 billion years.

Recipient of various awards including the NASA Award for Exceptional Scientific Achievement (1978) and NASA Group Achievement Award for the Discovery of the Bursting Pulsar (1997), Prof. Lewin is renowned for his propensity for teaching concepts of Physics using practical examples in a dynamic style.

After he explained the Doppler Shift using two lucid examples that of a tuning fork and a rotating frequency emitter, it was apparent as to why his video lecture series is a sensation on the internet. He explained, "Doppler Shift of spectral lines in binary systems played a key role in the discovery of stellar mass black holes." Prof. Lewin concluded the lecture by commenting, "For stars, there is really life after death, provided they find the right companion and it is my wish that all of you during life-not after death-find the right companion, radiate and be happy." He also offered to sign souvenirs for anyone interested in meeting him after the lecture. The auditorium was packed to capacity by students and faculty from the campus and from various colleges of Goa.

MoUs

Memorandum of Understanding between BITS Pilani, K K Birla Goa Campus and Indian Naval Academy, Ezhimala, Kerala

Signed by Prof. K.E. Raman, Director, BITS Pilani, K K Birla Goa Campus and Cmde S.R. Sridhar, Registrar, INA on Wednesday, 19 March 2014, the MoU broadly emphasizes faculty development through exchange of know-how, expertise, knowledge and participation in events organized by BITS and INA, including research programs offered by Department of EEE and E&I and Department of Mechanical Engineering.

Five-year Memorandum of understanding between BITS Pilani, K K Birla Goa Campus and the Goa state pollution control board (GSPCB)

On 5 June 2014, GSPCB has signed a five-year memorandum of understanding with Birla Institute of Technology and Science, Pilani, with an objective of fostering collaboration between the two organizations to promote academic interaction. Under this MoU, BITS will design and operate educational programmes to meet the learning and development needs of GSPCB leading to specific degrees of BITS through its work-integrated learning programmes. The memorandum was signed by Mr. Levinson Martins, GSPCB member secretary and Prof. G.Sundar, Director Work Integrated Learning Programmes and Industry Engagements, BITS, Pilani. The educational programmes will offer GSPCB employees an opportunity to enhance their academic qualification and synergize theory with practice on a sustained basis. BITS students and staff will work with GSPCB on pressing issues like hazardous waste, sewage treatment and effluent treatment etc.

a confluence of ideas academia

seminars / conferences /
workshops / training programmes

tiNai Ecofilm Festival 2014

Inaugurated by Alan Olivier, Director, Quebec Bureau, Mumbai and Mathieu Roy, eminent film maker from Canada, the two day Ecofilm festival, named as tiNai Ecofilm Festival (TEFF) 2014 was organized by the Department of Humanities and Social Sciences during 31 January- 01 February at the K K Birla Goa Campus of BITS Pilani. The festival was convened by Dr. Rayson K Alex of the department.

With Prof. K E Raman welcoming the guests and Prof. Meenakshi Raman presenting the theme of the festival, the inaugural function witnessed the insightful addresses by the two distinguished guests and the vote of thanks by Dr. Rayson. Surviving Progress directed by Mathieu Roy and produced by Martin Scorsese was the inaugural film of TEFF 2014. The festival mainly aimed at using the powerful medium of cinema to understand the issues on ecological and environmental issues and strengthening the course Ecocriticism offered on the campus. Twenty-two films whose themes centered on such issues were screened during the festival. Around two hundred students from Colleges in and around Goa and fifty delegates from India and abroad participated in the festival by attending lectures, workshops, discussions and watching films.

TEFF Inaugurated by Alan Olivier



Four films from the seventy entries, won awards. The films Have you seen the Arana? (Best Eco-documentary Feature); City's Edge (Best Short Eco-documentary); In God's Land (Eco-documentary Feature - Runner-up) and

Timbaktu (Short Eco-documentary - Runner Up) were given Rs.20, 000 and Rs.10, 000 as cash awards along with certificates and trophies. The awards were sponsored by Kuala Lumpur Ecofilm Festival, Malaysia. Eminent social and environmental scientist, Padma Bhushan and Padma Sri awardee, Prof. Madhav Gadgil delivered a lecture on the role of teachers and students of Goa in environment monitoring leading to preservation. He was also a part of the panel discussion titled, 'Can development be Ecocentric?' along with professors, activists and filmmakers. Eminent Ecocritics, Prof. Nirmal Selvamony (Central University of Tamil Nadu) and Prof. N. Nagaraju delivered lectures on Ecocriticism and led an open discussion on Ecocriticism with the research scholars who participated from across India.

Alongside screening films, four workshops, three lectures, one lecture-cum-demonstration and a panel discussion were also organized as part of TEFF 2014. The festival concluded with the screening of four award-winning films of TEFF 2014. For more details, check the website: www.teff.in

Indo-Chile Workshop on Big Data

Department of Computer Science of K K Birla Goa Campus and Pilani Campus jointly hosted an international workshop "Indo-Chile Workshop on Big Data" (ICWBD-2014) during 4-6 June 2014 at K K Birla Goa Campus. The workshop was sponsored by DST (India) and CONICYT (Chile).

Aimed to bring in the research expertise from both academia and industry of India and Chile and to enable practitioners and educators to gain insight into the exciting fields of data analytics, the workshop covered current research in several related topics like Data Science, Data Visualization, Bioinformatics/Agri-bioinformatics, Web Mining & Information Retrieval, Social Media Analytics, High Performance Computing, Big Data in Astronomy, etc. Eminent researchers from India and Chile delivered lectures as part of the workshop. The workshop was well received and had participants from all over India.

DST-PAC Meeting

Dr. Vikas Chaudhari and Prof. D M Kulkarni from Mechanical Engineering department organized Department of Science and Technology | Programme Advisory Committees (DST | PAC) meeting in the area of Mechanical & Manufacturing Engineering and Robotics on 29th and 30th May 2014.

INDO- UK INTERNATIONAL WORKSHOP (AMAN 2014)

Indo-UK International Workshop on Advanced Materials and Their Applications in Nanotechnology (AMAN 2014) was organized jointly by Department of Chemistry, BITS Pilani, KK Birla Goa Campus with University of Leeds, UK during 17- 19 May 2014 at BITS Pilani, KK Birla Goa Campus. This workshop was a part of the Indo-UK project sponsored by DST-UKIERI and covered a wide range of interdisciplinary and cutting age research topics related to advanced materials and their applications in nano technology. Prof. Narendra Nath Ghosh and Dr. Paul A Millner (University of Leeds) were the Chairmen of the workshop while Prof. Sunil Bhand was the convener. Prof. Lars J C Jeuken from University of Leeds delivered the key note address. 30 invited talks were delivered by prominent scientists from reputed research organizations and universities of USA, UK and India such as Drexel University USA, University of Leeds UK, Uppasala University Sweden, IISc Bangalore, IIT Kharagpur, NCL Pune, IIT Delhi, IGCAR Kalpakkam, CGCRI Kolkata, IACS Kolkata, CSIR- IMMT Bhubaneswar, BARC Mumbai, NCCCM Hyderabad, etc.

Inaugural Function of the Workshop



About 175 scientists, faculties and young researchers participated in this workshop. Inaugurated by Dr. S.K. Varshney, Head, Bilateral Cooperation Division, Department of Science & Technology and Mr. B. P. Das, Executive Director (R&D), Indian Oil Corporation Limited, the workshop was sponsored by DST, BRNS, Dept. of Atomic Energy, Dept. of Science Technology and Environment Govt. of Goa, Cognizer, Indian Oil corporation, Beckman Coulter, Malvern Aimil, Kunash Instruments, Toshvin Analitical and BITS Pilani KK Birla Goa Campus. This workshop was a part of Golden Jubilee Celebration of BITS Pilani.

New Facilities

Weather Observatory was inaugurated on 2 May 2014, in the Golden Jubilee Year of the University. This Observatory has been developed as a central facility for monitoring 14 different weather parameters, with standard equipments. The recorded data will be useful resource for research and forecast related to Weather, Water and Energy, on Campus. The Observatory has been jointly developed by the Department of EEE and E&I, Department of Mechanical Engineering, and Maintenance Division.

MATLAB & Simulink enabled Campus

The Institute has created one more industry standard central facility for developing much desired skill set among students, faculty and staff of Institute. As a result of an initiative taken by four Departments namely, EEE and E&I, Mechanical Engineering, Physics, and Mathematics, a comprehensive annual TAH License for MATLAB, 2014a and Simulink has been subscribed from MathWorks, USA. The tool boxes and capability of MATLAB and Simulink environment will be much useful for students and researchers in all Departments of the Institute.

Under the agreed arrangement, Math Works will provide Training and technical support for all users. The licensed software can be downloaded on any number of machines. Math Works will also sponsor technical Meetings of industry experts with students and staff of Institute at regular intervals throughout the next year.

distinguished lectures

| SPEAKER | DESIGNATION | TOPIC | DATE |
|-------------------------|---|---|-------------------|
| Prof. T.E.S. Raghavan | Emeritus Professor, Department of Mathematics, Statistics and Computer Science, University of Illinois at Chicago | Game Theory and its Applications ; Graph Theoretic Algorithms for Assignment Games | 9-10 January 2014 |
| Dr. Vishal Saraswat | Assistant Professor, C.R.Rao Advanced Institute of Mathematics, Statistics, and Computer Science, University of Hyderabad. | Public-Key Encryption with Searchable Keywords based on Jacobi Symbols | 23 January 2014 |
| Prof. Rajiv Gupta | Adjunct Professor of Mechanical Engineering at BITS Pilani. | Perspectives on Teaching and Learning: What We can Learn From Deming | 27 January 2014 |
| Dr. J V Yakhmi | Chairman, Atomic Energy Education Society and Ex- Associate Director, BARC,Mumbai | From Matter and Materials to Movement and Life | 28 January 2014 |
| Dr. A. K. Singh | Scientist-D, DST India | Various Schemes in DST for Students and Faculty | 01 February 2014 |
| Mr. Nitin Kantak | Vice President, Operations, Zuari Industries | Fertilizer Industry in India: Problems and Prospects | 10 February 2014 |
| Prof. Gopal Kundu | Scientist-G, NCCS, Pune and Recipient of Shanti SwarupBhatnagar Prize in Biological Sciences | Theragnostic Significance of Osteopontin and Associated Genes in Cancer | 17 February 2014 |
| Prof. Manfred Schneider | Professor of Organic Chemistry at the BergischeUniversittin Wuppertal, Germany and Guest Professor at Indo- German Centre of Sustainability, Chennai | Biocatalysis For Bio-based Materials:Using Lipases and Novel Oleochemicals For the Preparation Of Combination Products From Renewables | 20 February 2014 |
| Mr. Blaise Costabir | MD, GMI Zarhak Moulders Pvt. Ltd., Goa | Workplace Communication, Perspectives and Challenges | 20 February 2014 |
| Prof. Paul A. Millner | Professor of Bionanotechnology and Head of School of Biomedical Science University of Leeds, U. K. | Biosensors, Nanoparticles and Nanofibers: How surface structure affects their performance | 21 February 2014 |

| SPEAKER | DESIGNATION | TOPIC | DATE |
|------------------------------|--|--|-------------------|
| Dr. Tim Gibson | Chief Scientist, Roboscientific Ltd., UK | Bloodhound® Electronic nose Technology: Applications in diagnosis of Tuberculosis | 21 February 2014 |
| Prof. D. Velmurugan | Director, Centre for Advanced Studies in Crystallography and Biophysics, University of Madras | Design of Anti-virals for Dengue NS2B-NS3 Protease | 01 March 2014 |
| Dr. Shakti Singh Gupta | Associate Professor, Department of Mechanical Engineering, IIT Kanpur | Mechanical Behavior of Single Walled Carbon Nanotubes (CNT) and Graphene sheets | 20 March 2014 |
| Prof. Rataboli | Director, Medicine, Goa Medical College | How to Tackle Life Style Diseases | 22 March 2014 |
| Prof. Govendan Rangarajan | Department of Mathematics, IISc Bangalore | Brain Machine Interface | 23 March 2014 |
| Prof. Karamjit Singh Gill | Professor Emeritus and Professor of Human Centred Systems, University of Brighton and Professor at Cambridge University | Artificial intelligence: Big Data, Internet of things and Beyond | 25 March 2014 |
| Prof. S. Arumugam | Director, National Centre for Advanced Research in Discrete Mathematics(n- CARDATH) Kalasalingam Univeristy Tamil Nadu. | Risk Management in Portfolios-Applications of Signed Graphs | 03 April 2014 |
| Dr. Mohan Ramanan | Professor and Former Dean, School of Humanities, University of Hyderabad | (i) Romanticism (ii) Modern British Literature and Society | 10 -11 April 2014 |
| Dr. Nivedita Chatterjee | Lecturer, Stem Cell Lab and Department of Pathology Vision Research Foundation, Sankara Nethralaya, Chennai | Immunity at the retina: modulating the innate response | 14 April 2014 |
| Dr. Roop Mallik | WELLCOME-DBT, Senior Fellow, Biological Sciences, TIFR, Mumbai | Chhota Bheem | 19 April 2014 |
| Prof. Susan Z. Andrade | Associate Professor of English, University of Pittsburg, USA | Naturalism ; Alex La Guma : A Walk in the Night | 22 April 2014 |

visits by faculty

enriching the learning experience

international visits

Mr. Swagat Kishor Mishra, Lecturer, Economics, presented a paper at the international conference organized by ECOMOD Network and Department of Statistics, University of Singapore held during 06-10 January 2014 on "Environmental Computable General Equilibrium (CGE) Modeling for Odisha's renewable energy sector and electricity Capacity Generating Plants (CGPs)"

Swagat Mishra



Dr. Sachin Waigaonkar, Assistant Professor, Mechanical Engineering, presented a paper "Simulation of Rotational Moulding of Plastics for a Rock and Roll Rotational Moulding Machine using ROTOSIM" at the International Symposium on Advanced Polymeric Materials 2014 under the 9th International Materials Technology Conference and Exhibition (IMTCE 2014) during 13-16 May 2014. The symposium was organized by the Institute of Materials, Malaysia at Kulalumpur, Malaysia.

Dr. Sachin Waigaonkar



Prof. Sunil Bhand, Dean Sponsored Research & Consulting Division (University wide), participated and presented two research papers at the 24th Anniversary World Congress on Biosensors, during 27-30 May 2014 in Melbourne, Australia (organised by Elsevier UK).

Dr. Aswini Kumar Mishra, presented a paper "An Assessment of Competitiveness in Emerging Asian Economies with Special Reference to India" at the SIBR-THEMMASAT Conference on Interdisciplinary Business and Economics Research, held at Bangkok, Thailand during 5-7 June 2014.

Prof. M. K. Deshmukh, Professor and Head, EEE and E&I, was invited by WindSim AS, to International users' Meet in Norway, held during 25-26 June 2014, in which about fifty participants from different countries including USA, Sweden, UK, Denmark, Spain, Germany, Italy, China, Argentina, India, and Thailand took part. This was followed by basic and advanced training on use of CFD technologies for Wind Resource Assessment, Annual Energy Production, and complete Wind Power Project Development.

Prof. M.K. Deshmukh with fellow participants



Dr. Ranjit S Patil, Assistant Professor, Mechanical Engineering, presented two papers "Effect of Superficial Velocity of Air and Riser Cross Sectional Area on Heat Transfer Characteristics of Circulating Fluidized Bed" and "Experimental Studies on Thermal Behavior of Downdraft Gasifier" at the 2014 International Conference of Mechanical Engineering - World Congress on Engineering at Imperial College London UK during 2-4 July 2014.

Dr. Ranjit S Patil



Prof. Srikanth Mutnuri, Associate Dean, International Programmes and Collaboration, delivered a key note lecture on Bioelectrochemical systems for nutrient recovery from wastewaters in the 2nd Asia Pacific – International Society of Microbial Electrochemistry and Technology Meeting held at National University of Singapore, Singapore during 21 -23 July 2014.

Dr. Ram Shanker Patel, Assistant Professor, Physics, visited Quantum Device Physics Laboratory, Chalmers University of Technology, Sweden during 15 June – 15 July 2014 for collaborative research experiments.

Prof. N. N. Ghosh and Prof. Sunil Bhand, Department of Chemistry, along with 2 Ph.D. students Mr. Shubhenjt Hazra and Mr. Souvik Pal visited University of Leeds UK as part of exchange visits within the UKIERI Indo –UK project, 2 faculty members Prof. Paul Millner and Dr. Tim Gibson from the University of Leeds along with a PhD student visited the campus.

Mr. Solano Da Silva, Lecturer, Humanities and Social Sciences, was invited by School of the Build Environment at Heriot-Watt University, Edinburgh, UK during May-July 2014 to research on the politics of land-use planning which is part of his PhD topic.

Mr. Solano Da Silva



Prof. Srinivas Krishnaswamy, Head, Department of Chemical Engineering attended the 8th International Conference on gas hydrates at Beijing China during 28 July- 1 August 2014 where his work titled "A theoretical approach to selection of suitable hydrate former for sea water desalination" (along with Prof. Ponnani and Parul Sahu) was accepted for presentation and publication in the Proceedings of the conference.

Visits under University Immersion Program

Prof. Meenal Kowshik, Head, Biological Sciences, visited the University of Missouri at Columbia during 20 May - 15 July 2014. During this time she was associated with the laboratory of Prof. Kattesh Katti in the Department of Health Sciences where she gained experience in the area of green nanotechnology and chemosensitization of tumors. She also had an opportunity to visit various state of the art facilities at the University such as the 10 megawatt research reactor, the college of veterinary medicine, the electron microscopy facility etc.

Prof. Dibakar Chakrabarty, Associate Professor, Department of Biological Sciences visited the Department of Anatomy at the National University of Singapore during 26 May - 7 June, 2014 on invitation of Prof. P. Gopalakrishnakone, Professor Emeritus. He monitored several experiments on anti-cancer activities of snake venom components and was also invited to visit highly sophisticated proteomic facility (Dr. M. Jayantha Gunaratne) and a Zebra fish laboratory (Prof. Vladimir Korzh) in the Institute of Molecular Biology and Cell.

Dr. Prasanna Kumar, Head, Mathematics, visited Department of Mathematics and Statistics, Auburn University, Alabama, USA on University Immersion Programme during 21 May 21 – 2 July 2014. He carried out collaborative research with Prof. N. K. Govil, Associate Chair and Undergraduate Programme Officer, Department of Mathematics and Statistics, Auburn University, on the topic 'Location of Zeros of Complex Polynomials and associated Lp inequalities'.

Dr. Prasanna Kumar with Prof. N. K. Govil



Dr. Anasuya Ganguly, Assistant Professor from the Department of Biological Sciences visited Sanakara Nethralaya during summer 2014 as part of the industry immersion program. There she met scientists (Dr. Krishna Kumar, Dr. Nivedita Chatterjee, Dr. Umashankar and Dr. Sulochana) working in different aspects of eye biology and made some new collaborations on harvesting and growing endothelial cells from human cord, bioinformatics etc.

invited lectures by faculty

Dr. P. Dhanumjaya, Assistant Professor, Mathematics delivered an Invited talk in UGC Sponsored National Level Conference on Numerical Analysis and its Applications held at Gokhale Centenary College, Ankola, Karnataka State during 10-11 January 2014. He was a Resource Person for a National Level Workshop on "Orthogonal Spline Collocation Methods for Differential Equations" held at South Asian University, New Delhi during 21-24 March 2014. Dr. Dhanumjaya also participated as a Speaker and Resource Person for a National Program on Differential Equations: Theory, Computation and Applications UG-Level training program held at Maulana Azad National Institute of Technology, Bhopal during 26 May- 14 June 2014.

Dr. Rayson K Alex, Assistant professor, Humanities and Social Sciences conducted a series of 8 workshops on Ecofilm Appreciation for Students of various colleges in Goa during 11-18 January 2014: MES College, Zuarinagar, Smt. Parvatibai Chowgule's College of Arts and Science, Madgaon, Dhempe College of Arts and Science, Miramar, Goa University, St. Xavier's College of Arts, Science and Commerce, Mapusa and PES College of Arts and Science, Ponda, between 11-18 January 2014. Dr. Alex also conducted a workshop for teachers and research scholars "Appreciating Ecocinema" at Lingaya's University, Faridabad, and New Delhi on 07 February 2014.

Dr. Rayson Alex at the workshop



Dr. Sumit Biswas, Assistant Professor, Biology, presented an invited talk at the 6th International Symposium on Recent Trends in Macromolecular Structure and Function, University of Madras on 22 January 2014. The topic of the presentation was, "MicroRNAs in Cancer: Search for Signatures".

Prof. Pravin Singru, Associate Dean, Practice School Division was invited by Dhempe Trust & Navhind Times, Goa to deliver talk on 'Careers in Engineering' in CAREER FOCUS on 20-21 February 2014. He also delivered a lecture on the same topic at Dhempe College, Goa on 11 May 2014.

Dr. Shalini Upadhyay, Assistant Professor, Humanities and Social Sciences, conducted a session on Effective Oral Communication for a Refresher Course organized

by Academic Staff College (Dept of Computer Science), Goa University, on 11 Jan 2014. As the Chief Guest at the inaugural event of the Writing Centre at Chowgule College of Arts and Science on 4 March 2014, she delivered the keynote address on the "Importance and Different Stages of Creative Writing".

Dr. Shalini lighting the lamp



Prof. Meenakshi Raman, Head, Humanities and Social Sciences, delivered the keynote address at the First International Conference on English Language in Technical Education organized by the Global Institute of Management and Technology during 14-15 February 2014 at Krishnanagar, Nadia, West Bengal. She conducted two faculty development programmes (i) in Business Communication at Jaipuria Institute of Management, Noida Campus on 23 April 2014 (ii) in Interpersonal Communication Skills for Professional Progress at KIIT University, Bhubaneswar on 30 June 2014. Invited by Integra Eduventure, Nagpur, Prof. Raman addressed a gathering of about 500 people comprising students and parents on 3 May 2014 in Nagpur on "Life at BITS".

Prof. Meenakshi Raman delivering the talk



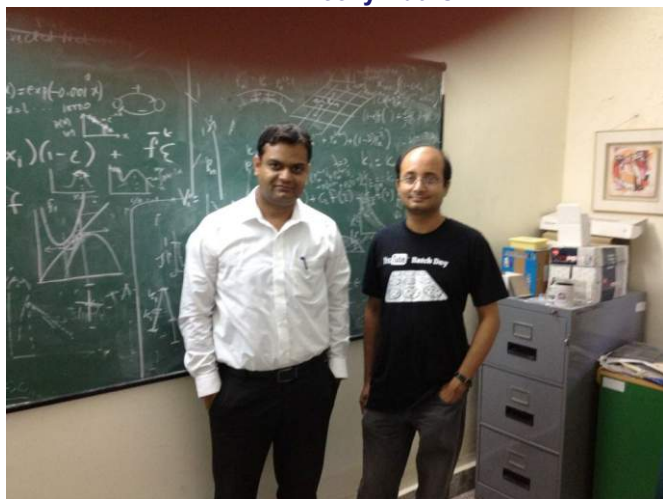
Prof. Sunil Bhand, Chemistry, delivered an invited lecture "Recent developments in Micro biosensor devices- Indian Perspective" at 3rd theme meeting on Micro-nano technology in service of rural India organized jointly by BRNS and DST India during 25 & 26 April 2014 at SVERI Pandharpur India. He also delivered another invited lecture at "INDIA-JAPAN Workshop on bio-molecular electronics and organic nanotechnology for environment preservation" December 13-15, 2013 Organized by Delhi Technology University & Kyushu Institute of Technology Japan, at DTU, New Delhi India.

achievements

Dr. Debasis Patnaik, Head, Economics, was invited as a resource person for the 3-hour workshop on Economics for Graduate Teachers from Western region at Administrative Staff College, Goa University, conducted by Department of Economics on 10 March 2014. He presented on "Issues in Health Economics as Pointers to Development."

Dr. Veeky Baths, Assistant Professor, Biology, delivered an invited lecture on "Disruption of Fatty Acid Biosynthesis in Mycobacterium tuberculosis using graph theoretic approach" at the Institute of Mathematical Sciences Chennai on 11 July 2014. Invited as a resource person, Dr. Baths delivered a lecture on 'Building an Alumni Affairs Infrastructure' at the The Alumni Relations Conference (ARC), India held at the Indian School of Business, Mohali Campus on 29 March 2014 organised by FuturEd (Education Sector Consulting & Service Provider).

Dr. Veeky Baths



Ms. Pinky Pawaskar, Lecturer, Economics, delivered a series of lectures on "Marketing" at the 6-week Entrepreneurship Development Programme (EDP) started on 26 May 2014 at Agnel Ashram, Verna Goa.

Dr. Anita B Agrawal, Assistant Professor, Electrical and Electronics Engineering, delivered and invited talk "Career Counseling" on 31 May 2014 at IFB Global, Verna for the Children of its employees.

Prof. S D Manjare, Associate Professor, Chemical Engineering, delivered a talk "Sustainability Assessment Tool for Industries" on 5 June 2014, the World Environment Day at the Goa State Pollution Control Board, Panaji, Goa.

Mr. Pravin Sakharam Mane, Lecturer, EEE & E&I, conducted a workshop on Cadence IC615 Analog & Digital Flow for the FDP organized by the Department of Electronics & Telecommunication, Sir Visvesvaraya Institute of Technology, Nashik (Affiliated to University of Pune) during 12-16 June 2014.

Dr. Ranjit. S. Patil, Assistant Professor, Mechanical Engineering, delivered an invited talk on 'Characteristics of Flow in Fluidized Bed and Microtubes' at Centre for Energy, IIT Guwahati on 26 June 2014.

Prof. Srikanth Mutnuri, Associate Professor, Department of Biological Sciences, is one of the six selected innovators for the award under Grand Challenges India - Re-invent the Toilet Challenge -India. The Department of Biotechnology (BIRAC), Government of India and the Bill and Melinda Gates Foundation awarded grants to six teams of Scientists and entrepreneurs to build a next-generation toilet. Dr. Srikanth's project entitled 'Empowered septic tank as decentralized wastewater treatment system' (EST) is based on Bioelectrolysis of wastewater which will exhibit an activated biogas ($H_2 + CH_4$) production combined with a higher retention of ammonium which could be potential fertilizer. The project is in collaboration with Ghent University and Sustainable Biosolutions LLP. The award was formally announced on 22nd March 2014 at the Re-invent the Toilet Fair, New Delhi.

Dr. Ranjit S Patil, Assistant Professor, Mechanical Engineering, has been awarded INSA Visiting Scientist Fellowship 2014-2015 by the Government of India.

Dr. Rajaram Lakkaraju's (Assistant professor, Mechanical Engineering) research on boiling phenomena featured as the front cover page article in April 2014 issue of the Journal of Fluid Mechanics, Cambridge University Press.

Prof. Utpal Roy, Associate Professor, Biological Sciences was awarded the Certificate of Excellence in Reviewing by Elsevier and the Editors of the Journal Fungal Biology in June 2014.

Dr. Sumit Biswas, Assistant Professor, Biological Sciences, undertook the "Training cum Certification course on Radiation Safety Aspects in the Research Applications of Ionizing Radiation" held during 5- 13 May, 2014 at the Bhabha Atomic Research Centre, Trombay and successfully cleared the ensuing examination with top honours to be qualified as the Radiation Safety Officer for the Institute.

Dr. Indrani Talukdar's (Assistant Professor, Biological Sciences) postdoctoral work conducted in Sanford-Burnham Medical Research Institute, California, has been published in the journal "Cell Stem Cell", one of the most prestigious journals of the field, with an impact factor of about 25. Her name appeared in the paper as one of the co-first authors and it has also got a special mention and cited in the "preview" section of "Cell Stem Cell".

Prof. Sunil Bhand, Dean, Sponsored Research and Consultancy, is appointed Member, Expert Committee (International programs) Department of Biotechnology, N. Delhi India (2014-16).

Dr. Anil Kumar Pundir, Assistant professor, Mathematics, visited the Department of Mathematics, IISC Bangalore during 24 May- 24 June 2014 for collaborative research work. This trip was sponsored by Indo-French Centre for Applied Mathematics (IFCAM).

Dr. Anjan Chattopadhyay, Department of Chemistry was invited as a Judge for the event of 8th Annual Intercollegiate T. Y. B.Sc.(Chemistry) symposium on Fascinating World Of Chemical Sciences, organized by Department of Chemistry, Goa University in association with Chemistry Department Faculty and Alumni Association, Goa University on 15th March 2014.

Mr. Swagat Kishor Mishra won a Scholarship amount \$2070 from Ecomod Network (world's leading research, advisory, and educational not-for-profit network dedicated to promoting advanced modeling and statistical techniques in economic policy and decision making. EcoMod brings together thousands of modeling experts and users worldwide.) for presenting a paper at the ECOMOD Network conference organized by the Department of Statistics, University of Singapore.

Mr. Kabilan Mani, Research Scholar, Biological Sciences, working under the supervision of Dr. Judith Braganca has been awarded the Raman – Charpak Fellowship 2013 by the Centre Franco-Indien pour la Promotion de la Recherche Avancee (CEFIPRA) for Doctoral students at the University of Clermont-Ferrand, France.

Ms. Ketaki Deshmukh, Research Scholar, Biological Sciences, working under the supervision of Dr. MeenalKowshik, has been awarded the Fulbright-Nehru Doctoral Research Fellowship 2014 to work on Radiology and Cancer Nanotechnology at the University of Missouri, Columbia, USA.

Mr. Atul Sharma (2012PHXP407G), Senior Research Fellow, Chemistry, has been awarded Erasmus Mundus Ph.D. fellowship of the European Union under the program EUPHRATES to work jointly under Prof. Sunil Bhand and Prof. Marty of France.

Mr. Tarun Khanna (2009B2A4573G) a student of Chemistry and Mechanical Engineering has been awarded "Marie Curie PhD position" at Imperial College London starting this October.

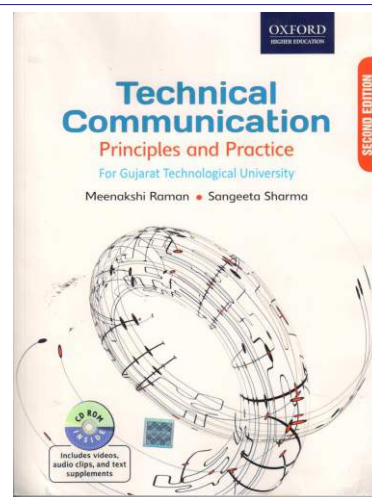
Mr. Ashish Behera, a student of Electronics and Instrumentation (2010A8PS350G) has secured All India Rank 1 in GATE 2014 (Instrumentation Engineering).

Mr. Ujash Shah, 2012A4PS134G is selected for ASME (American Society of Mechanical Engineers) Power Division Scholarship (\$3000). Ujash is the first from India, the first Non-US citizen student, and the first student studying outside the US to receive this scholarship.

Miss Sanskriti Dawle and Mr. Aman Srivastava of BITS Pilani, K K Birla Goa Campus have made their university proud by initiating an innovative project "Project Mudra"—a Braille Dicta-teacher. This project is so insightful to Braille learning that a user simply has to say a letter or number and the tactile interface denotes the corresponding Braille character. It works in two modes: browse and auto. Mudra aims to be a low cost Braille learning device and Sanskriti and Aman are now in the process of testing the device to check whether it can be produced at a mass scale.

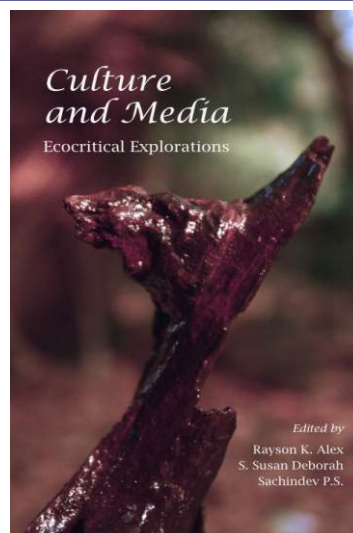
51 BITSians have been selected for the **Google Summer of Code (GSoC)** this year. These students represent different BITS Pilani campuses with the largest cohort being selected from the Goa campus (30), followed by Pilani (18) and Hyderabad (3). The achievement is a testimony to the quality of BITS Pilani students recognized by the industry. GSoC statistics published by Google feature BITS Pilani at No. 10 on the list of top institutes worldwide (2005-2012). The Google Summer of Code (GSoC) is an annual program where Google awards stipends of US\$5500 to all students who successfully complete a requested free and open-source software coding project during the summer. The 'Google' tag attracts tremendous participation from students across the globe and being part of GSoC in college is prestigious.

In Print



Meenakshi Raman and Sangeeta Sharma, Technical Communication : Principles and Practice (For Gujarat Technological University) Second Edition, New Delhi : OUP, 2014.

Rayson K Alex, S. Susan Deborah and Sachindev P.S., Culture and Media : Ecocritical Explorations, , London : Cambridge Scholars Publishing, 2014.



significant projects

| PRINCIPAL INVESTIGATOR & NAME OF THE DEPARTMENT | TITLE OF THE PROJECT | FUNDING AGENCY, AMOUNT & DURATION |
|--|---|---|
| Prof. Srinivas Krishnaswamy (Chemical Engineering) | Experimental and Simulation studies on Coke mitigation in Petroleum Refinery systems | Bharat Petroleum R &D (BPCL) under Centre for High Technology (CHT), Rs. 3.22 crores (of which BITS funding is 1.32.crores) |
| Dr. Karthikeyan (Mechanical Engineering) | Flow investigation through uED-milled metallic micro channels | DST-FT - Rs. 21.21 lacs |
| Dr. Rajaram Lakkaraju (Mechanical Engineering) | Novel computational methods to understand voice generation mechanism of human vocal-folds | SERB - Rs. 22.00 lacs |
| Prof. Srikanth Mutnuri (Biological Sciences) | Developing decentralized wastewater treatment system (Empowered septic tank) | DBT BIRAC Bill & Melinda Gates foundation award First level up to USD 100,000. |
| Prof. Vijayashree Nayak (Biological Sciences) | Study on EMT regulation through TGFs/SMADs in gall bladder disease | SERB - Rs. 37.90 lac |
| Dr. Arnab Banerjee (Biological Sciences) | Regulation of hypothalamic gonadotropin releasing hormone expression by putrescine in female rats | SERB Young Scientist grant ; Rs. 22.24 lacs |
| Mrs. Purnima Singh and Prof. Utpal Roy (Mentor) (Biological Sciences) | Microbial Diversity of Polar Regions | DST- Woman Scientists Scheme Amount Rs. 19.86 lacs |
| Dr. Subhadeep Banerjee (Chemistry) | Development of β, β' -Edge Fused π -Elongated Donor-Acceptor Porphyrins Possessing Near-IR Optical Spectra | DST-Young Scientist Scheme; Rs. 22.6 lacs |
| Dr. T. Mondal (Chemistry) | Nonadiabatic molecular processes on threefold electronic degeneracies | DST-Inspire Rs. 35 Lacs |
| Prof. N.N. Ghosh (Chemistry) | Development of polymer-ferrite (and/or grapheme) nanocomposites having high thermal stability and microwave absorption property for Radar Absorbing Coating Application | DRDO - Rs. 14.59 lacs |
| Dr. A K Mishra (Economics) | Mining closure, economic disruption and local level sustainability: A case study of Goa, India | ICSSR - Rs. 9.00 lacs |
| Dr. Basavadatta Mitra (Humanities and Social Sciences) | CROSS CULTURAL COMMUNICATION - An empirical analysis of cross cultural communication variables in Indian industries. | ICSSR - Rs. 9.00 lacs |

Faculty members from various disciplines have been appointed as members of National and International advisory committees / acted as reviewers for books / papers published in journals of national and international repute.

| Name | Department | Journal / Member details |
|-------------------------|--------------------------------|---|
| Prof. Utpal Roy | Biological Sciences | Reviewer of 1. European Journal of Medicinal Plants 2. British Journal of Pharmaceutical Research 3. Fungal Biology 4. International Journal of Plant & Soil Science 5. Journal of Scientific Research and Reports |
| Dr. Arnab Banerjee | Biological Sciences | Reviewer for the journals (i) Steroid Biochemistry (ii) Molecular Biology (iii) Andrology. |
| Dr. Ranjan Dey | Chemistry | Reviewed two papers for the Journal of Indian Chemical Society (IICS) |
| Dr. Anjan Chattopadhyay | Chemistry | Reviewed paper for The Journal of Chemical Physics (JCP). |
| Dr. Debasis Patnaik | Economics | 1.Reviewed two papers for IAMR (Indian Applied Manpower Research), New Delhi. 2.Appointed Member of Editorial Board of Journals of International Academy of Science-Engineering and Technology. 3.Joined as reviewer for International Journal of engineering, science and technology. |
| Prof. Meenakshi Raman | Humanities and Social Sciences | Reviewed 2 papers (i) for the AIMS International Journal of Management and (ii) for the British Journal of Education, Society & Behavioural Sciences. |

QUARK 2014

Bearing the unique theme “Beyond Dimensions” QUARK 2014 was inaugurated on 6 February with Mr. Vikram Sampath , author, historian and the proud alumnus of BITS Pilani as the Chief Guest. This edition of QUARK included a plethora of events that witnessed an enthusiastic participation from a large number of colleges across India. The Chief Guest shared his wonderful experiences at BITS Pilani narrating how they had helped them in pursuing his passion. Prof. KE Raman wished the organizers and participants for a successful and meaningful festival. Pratul Gupta, the Convener of Quark 2014 informed the audience about the various events in store for the next three days. “Aurora Nites” which was the stellar attraction of the inaugural event, saw speakers from various organizations : Vishal Gondal from Indiagames, Pranav Rai from Inventrom Robotics, Rahul Sachdev from SAP university and Angad Daryani , a 15-year old researcher at MIT Media Labs. The brilliant performance of the Mime club and ERC added more color and value to the inaugural ceremony.

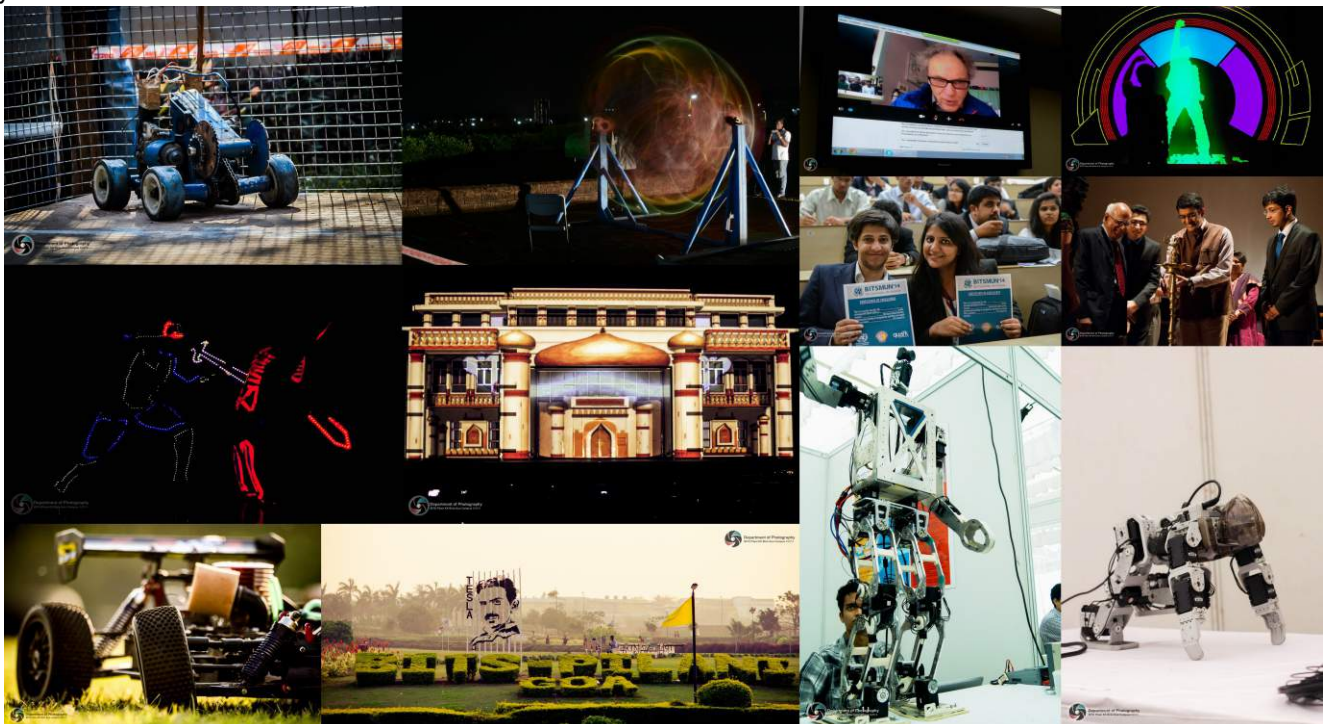
Quark hosted a gamut of events: Corporate events like Intellect, QuEST (Quark Entrepreneurial Skills Test), Wall Street Revolution, Bluechip Beatdown ; Technical Events like Electrify, DigiLogica, Verillectual, MAT-mania, Arduino Open, Circuitrix ; Roboficial events such as City of Fire, Green Mars, Robokombat, Call of Duty; Initiatives such as Green Idea , Bhagirath, Sustain-A-Build ; Other different events like School Bag, Paper Presentation, Open Showcase, Ma+ka Godlike Gaming , Age of Empires II; Burnout, Call of Duty to challenge participants to build the best bot; Model G20 Summit , Illumination , Image Processing , Mortar Kombat, Programmers Inc., Quest, Quark National Quiz conducted with Google Hackathon ; Trailblazers ; Fifa Event , Paper Throw event, Blitz chess, Human Gyroscope.

Following the legacy, Quark 2014 was kicked off with an initiative, QSTP. Termed the Quark Summer Technical Project, the initiative was aimed at giving the juniors productive summers wherein they could work on projects under the guidance of mentors. RED was a blood donation campaign .

Exhibitions organized during Quark 2014 included : Team Acyut , India's first completely automated indigenously developed humanoid robot from BITS Pilani Pilani Campus ; DTU AUV : An autonomous underwater vehicle from Delhi Technological University ; Team Pratham : The first student team to create and launch a satellite into orbit from IIT Bombay ; Sound bottle project demonstrated by Jun Fujiwara ; SAE projects by BITS Pilani , K K Birla Goa Campus ; A Biped Robot ; A 3-D Printer .. Workshops: Origami workshop, Chop-chomp workshop, Poker workshop, Rubik Cube workshop

A major crowd pulling event, Ig Nobel Prizes, was the crowning glory of the valedictory session of Quark 2014. The audience was excited to see and listen to the Ig Nobel Awardees Kees Moeliker, Don Meyer , Ilja Van Beest , Lal Bihari and Koji Tsukadu on the auditorium stage. Since 1991, Ig Nobel prizes have been awarded to celebrate the unusual, honour the imaginative and spur people's interest in science, medicine, and technology.

The mega festival ended with Prof. Lucy Gudino thanking all the eminent personalities who graced Quark 2014, the outstation participants, students, faculty and staff and the administration for making the festival stand true to its theme “Beyond Dimensions”.



SPREE 2014

Matthew Foschini, the 23 year old Australian footballer currently playing in the I-league for Salgaonkar Football Club urged the students to be passionate about what they would like to do in their lives and wished them good luck at the opening ceremony of Spree 2014. This sporting extravaganza, the annual national sports festival of BITS Goa, and one of the largest sports festivals in our country kicked off at the campus cricket grounds on 6th March. The Opening ceremony was marked by the lighting of Spree torch, fantastic display of fire crackers and an amazing laser show.

With its inspiring theme Rise, Run and Reach, the festival include events from all the major sports such as Cricket, Football, Basketball, Tennis, Table Tennis, Badminton, Volleyball, Chess and Carrom. Apart from these conventional competitions, Spree also boasts of a wide variety of offbeat and special events such as Tug of War, 3v3 (volleyball), 3BA (basketball), Anti-Chess as well as Body Building.

Spree 2014 has recorded more than 18000 registrations from colleges all over India. 70 different colleges are set to take the field at Spree. These include VIT, MNIT Jaipur, MIT Manipal, IIM Indore, Motilal Nehru College Delhi, IIIT Gwalior and NMIMS Mumbai, to name just a few.

A number of exciting events and special nights have been lined up as a part of Spree. These include an LED Laser and light show, a freestyle football performance as well as a workshop organized by footballers from the Freestyle Football Federation (F3), a stunt biking performance by a team from Throttlerz, and finally, a DJ Night with Goa's leading Club DJ – DJ Claudio.

Over the years, Spree has supported numerous social causes and initiatives. This year, through Act to Inspire, Spree 2014 has developed collaborations with a number of notable NGOs such as CRY, PETA as well as YSF (Yuvraj Singh Foundation). CRY will be setting up a World Kiosk on campus to gain support for their social cause – 'Vote for Child Rights'. A variety of other campaigns have also been initiated as a part of Act to Inspire such as a Beach Cleanup Drive, a Tree Plantation Drive, Goa half marathon as well as a Cancer Awareness Campaign. By having such a wide variety of events and initiatives, Spree aims to make its humble contributions to uplifting society in a number of different ways.

With such a wide set of events and initiatives, Spree 2014 could sustain everyone's participation and interest and lived up to its reputation of being one of India's leading sports festivals.



caring beyond our walls

Employment Operations: Products such as envelopes, paper bags, candles, book marks, sling bags, ear rings, bracelets, etc., were made for sale at Waves, Quark and Spree ; masala making class was conducted for women of Zari.

Health Operations: No objection certificate was obtained from the CSR department of Zuari Industries Ltd. for building public toilet in Zari and currently in discussion with PWD; "Sort it out" campaign was organized to tackle the problems of waste disposal and its proper segregation in BITS Pilani, Goa Campus ; seminar in a school in Zari was conducted to educate students about the importance of waste segregation.

Career Counseling: Career counseling to over 100 underprivileged students of classes 9 and 10 was organized ; helpline for effective clarification of all doubts and queries regarding career options, similar to the widely popular Vidya Help Line (VHL) was initiated ; handbooks containing the details of various career opportunities were distributed to the students

Shiksha: Training for the 5th standard children for the JNV exam was organized ; competitions in drawing, speaking skills, etc., were organized.

Career Counselling by volunteers of Nirmaan



Events : Blood Donation Camp ; Interactive Sessions with Sabbah Haji, the founder of Haji Public School and Shaheen Mistry, CEO, Teach for India ; Ugly Indian Fixing initiative that completely transformed the pathway marking the entrance to Zari.

PRACTICE SCHOOL AND PLACEMENT STATISTICS

PS-I (Summer 2014)

- No. of Stations : 171
- No. of Students: 2038 (824 from Pilani Campus, 563 from Goa Campus & 651 from Hyderabad Campus).
- No. of Faculty : 97 (29 from Pilani Campus, 19 from Goa Campus , 19 from Hyderabad Campus & 30 from off-campus).

PS-II (II Semester 2013-14)

- No. of Stations : 244
- No. of Students: 1128 (524 from Pilani Campus, 307 from Goa Campus & 297 from Hyderabad Campus).
- No. of Faculty : 46 (3 from Goa Campus, 41 off-campus Pilani and 2 from On-campus Pilani).

PS-II (I Semester 2014-15)

- No. of Stations : 227
- No. of Students: 1144 (451 from Pilani Campus, 324 from Goa Campus & 369 from Hyderabad Campus)
- No. of Faculty: 49 (1 from Pilani Campus, 2 from Goa Campus and 46 off campus faculty Pilani)

The amount of stipend/out-of-pocket allowance has over the years increased, and today the maximum amount paid is Rs. 50,000/- p.m. at Paypal, Chennai. And EBay India Development Centre, Bangalore. The average stipend is around Rs.12,000/- p.m. per student.

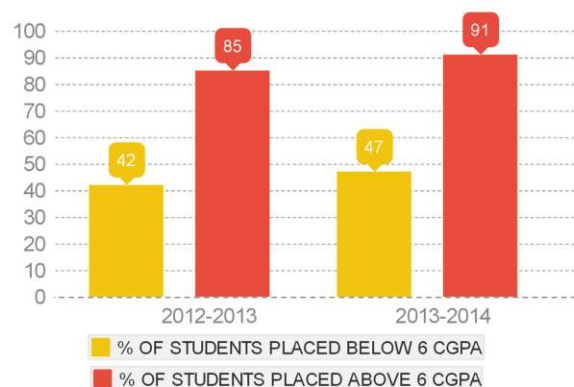
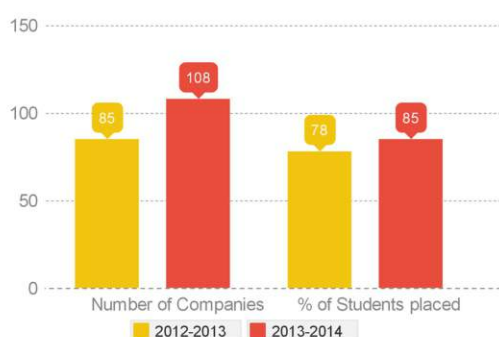
PS Stations



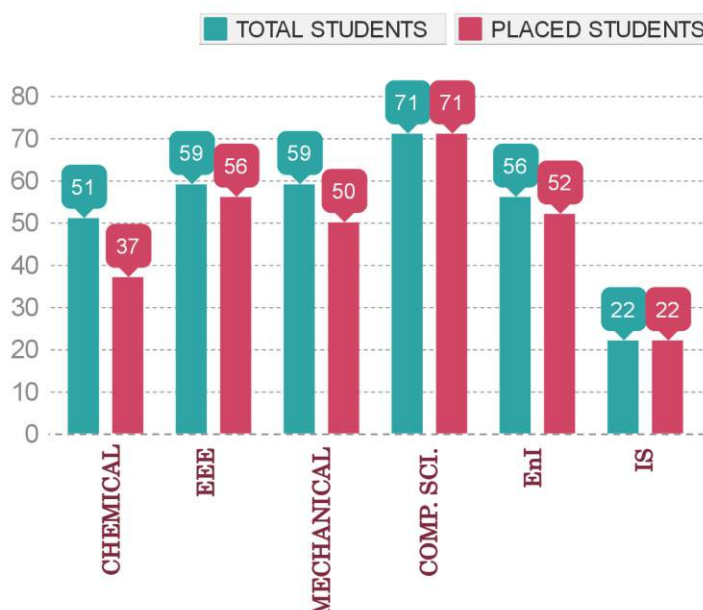
Placement Scenario

Stats. Figures. Summaries.

The Placement Team, BITS Pilani K K Birla Goa Campus works with the primary agenda of getting our students placed in reputed organizations with the promise of a fulfilling career. In spite of being a young campus, BITS Pilani K K Birla Goa Campus is showing tremendous growth in the number and quality of companies turning up for campus recruitments. The number of companies visiting BITS Pilani K K Birla Goa campus has increased from 85 to 108. Also, the percentage of people placed has increased from 78%(2012-13) to 85%(2013-14).



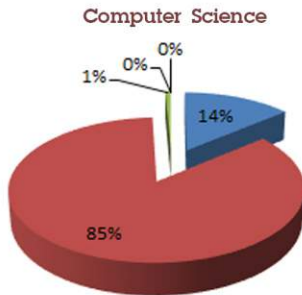
Given beside is the branch wise breakup of the number of students placed. It can be observed that Computer Science and Information system have had 100% placement.



Placement Scenario

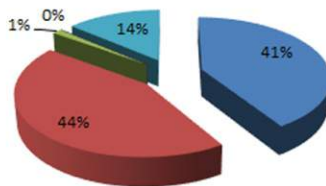
Stats. Figures. Summaries.

Sector wise distribution of Branches



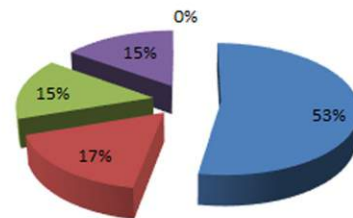
As we can see, majority of the students get placed in IT and rest of them go into consulting and analytics firms.

Electrical, Electronics & Instrumentation



Most students go into IT sector while a decent 14% get into core sector and a majority of them go into consulting and analytics firms.

Chemical Engineering



15% of the students go for chemical core jobs and a majority of the rest go into consulting and analytics firms.

Mechanical Engineering



A good majority go for Mechanical jobs, while some students go into IT and consulting and analytics firms.

Companies that visited the campus



snapshots

Symphony 2014 - Music Night



Kala Night



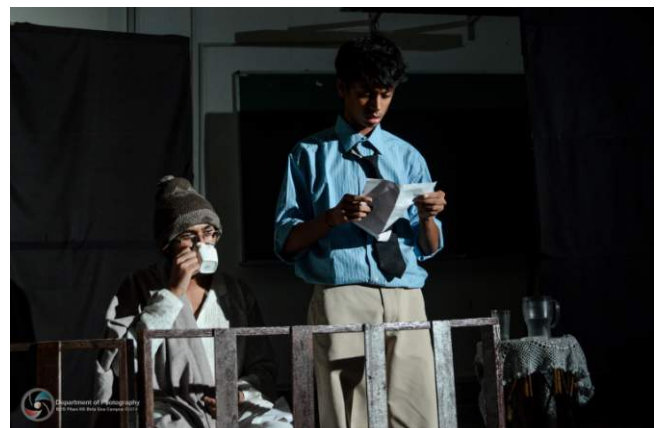
Mime Performance



Dance Night '14



Drama Night



introducing new faculty

| NAME | DESIGNATION | DISCIPLINE | RESEARCH AREA |
|----------------------------|---------------------|----------------------|---|
| Prof. Chaitanyamoy Ganguly | Visiting Professor | Chemical Engineering | Nuclear and Materials Engineering |
| Dr. Asima Shaukat | Assistant Professor | Chemical Engineering | Rheology of complex fluids and polymer rheology |
| Dr. Priyanka Dessai | Assistant Professor | EEE & I | Optical Regeneration; Burst Mode Optical Systems; Optical Crosstalk; Free Space Optical Systems; Passive Optical Networks |
| Prof. Santonu Sarkar | Professor | CS & IS | Predicting application dependability from its heterogenous, and massive operational data. Software engineering challenges in making applications ready for massively parallel and distributed system level applications and system level techniques to optimize energy consumption- for distributed, virtualized and mobile platforms for under developed nations |
| Dr. Tanmoy Mondal | DST-INSPIRE Faculty | Chemistry | Theoretical and Computational Chemistry |
| Dr. Puran Singh | Assistant Professor | Economics | Micro-finance governance and performance; Financial inclusion and growth issues; Public policy issues |
| Dr. Rajorshi Sen Gupta | Assistant Professor | Economics | Innovation and Intellectual; Property management; Principal-Agent contracts; Econometrics; Simulation; Causality; Transportation economics; Economic problems of underdeveloped nations |

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K K Birla Goa Campus

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The tūNai E

The department of Human and Social Sciences, BITTS, PUS, - K.K. Birla Ganga Campus in collaboration with iNtEn: An organisation for promoting Ecocitizenship Kuala Lumpur Ecolife Festival Malaysia, and Centre for Environment Education, Ganga alone with a host of other bodies is organising the iNtEn Ecolife Festival 2014 on 31 January and 1 February, 2014 at BITTS-Ganga campus.

will hang myself from the pendulum and show that the time period does not depend on the mass," while discussing the concept "the time period of a pendulum does not depend upon the mass hanging from it." The lecture attracted a large audience as the students thronged the teleconference room to catch a glimpse of their favourite physicist.

As part of his programme, Professor Lewin will be conducting an interactive lecture at BITS Pilani, Goa campus on March 14 at the Auditorium, which is open to the public. The lecture, titled, "Birth and Death of Stars", will begin at 6 pm and the audience is expected to be seated by 5:30 pm.

Those interested may visit the campus home page (<http://www.bits-pilani.ac.in/goa/>) and register for the event.

— 250 —

Nanotechnology (AMAN 2014)
from May 17 to 19

The aim of the workshop is to provide a forum for discussing the recent advances in new smart materials and their applications in nanotechnology.

Panaji: The Goa state pollution control board

Under this MoU, BITS will design and operate educational programmes to meet the learning and development needs of GSPCB leading to specific degrees of BITS through its work-integrated learning programmes.

The memorandum was signed by GSPCB member secretary Levinson Martins and director off-campus programmes and industry engagements, BITS, Rajasthan, G Sundar.

The educational programmes will offer GSPCB employees an opportunity to enhance their academic qualification and synergize theory with practice on a sustained basis. BITS students and staff will work with GSPCB on pressing issues like hazardous waste, sewage treatment and effluents.

FUN ON THE FLOW: 51 clusters from the Data Institute of Technology. Plans have been selected for a Google

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adds a whole new dimension to training for the visually

impaired. They will present the innovation at PyCon 2014 at Montreal next month.



single-card stand computer that was designed in the UK by the Roughes Foundation, a charity organisation with the intention of promoting teaching of basic computer science subjects.

Deadline for abstract and registration paper submission: May 15, deadline for abstract acceptance intimation: June 15, deadline for early registration: July 31, deadline for late registration: August 31 and deadline for paper submission: September 30. Please send your abstract for the conference at the earliest. For more details please visit website: www.bts-ga.org

1

Vasco: It's that time of the year when the BITS Pilani K.K. Birla Goa Campus is abuzz. The eagerly awaited annual sports event is set to start. The four-day National Inter-Collegiate Sports Festival, that begins on March 7, will witness 80 colleges across India taking part in disciplines from cricket to football, futsal, basketball, volleyball and tennis. The theme

it has also closely supported

the 'Act to Inspire' campaign, which consists of a multitude of social initiatives. Sree has been associated with several NGOs such as El Shaddai and Habitat for Humanity in order

ter and better. This year apart

from sports activities, we have joined hands with CRY and PETA. We will create awareness against animal cruelty and cancer. We will also indulge in many social activities," says Pruthvi Sai, overall head of Spree.

Already established as one of the biggest sports festivals in the country, one can say that with time, Spree could only get better and better. **TEAM**



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