

Semester-I notes 2014-15

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K K Birla Goa Campus



Department of Photography
BITS Pilani K K Birla Goa Campus



BITS Pilani
K K Birla Goa Campus



from the editor

Started off with the grand, colorful Convocation ceremony preceded by the Orientation Program for the 2014 admission students, the I Semester 2014-15 witnessed several successful International Conferences, visitors to the Campus and the glittering annual cultural festival Waves 2014. Engineers' Day celebrations witnessed the signing of an MoU between WindSim AS, Norway and BITS Pilani, K K Birla Goa Campus. Visit by Dr. Vince Cable, MP, UK enhanced the reputation of BITS Pilani as an eminent learning centre in India with its multi campuses in Goa, Hyderabad and Dubai. BITS Pilani added one more feather to its cap of achievements in the domain of entrepreneurial venture by launching the Entrepreneur in Residence program at the Goa campus.

Bharatanatyam performance during Waves'14 Inauguration



Faculty members visited several Institutions in India and abroad to share their research through paper and poster presentations at various national and international conferences. They published a number of research papers in journals of repute and also procured a number of research and consultancy projects funded by several agencies. In addition, they received recognition at various institutions by delivering invited talks and conducting workshops on their expert areas.

The Imperative teams working under Project Vision 2020 – Mission 2015 organized two workshops pertaining to Industry Engagement and Interdisciplinary Research at the Goa Campus with a view to enhance our potential and efforts in these areas. Faculty members from all campuses of BITS Pilani participated actively in these workshops.

Dr. Vince Cable at K K Birla Goa Campus



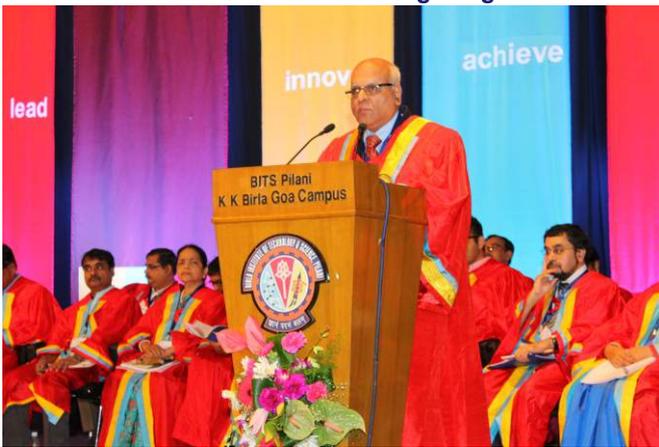
With this Issue, BITScan has completed 10 editions at our campus primarily because of the continued support provided by all the faculty members, staff and students. We, the editorial team are quite confident that we would receive such sustained cooperation in future as well so as to make our efforts towards BITScan, the Semester Newsletter, more successful.

CONVOCATION 2014

The Grand Convocation Ceremony at BITS Pilani, K K Birla Goa Campus

“E=F where E stands for Education and F stands for Future” said renowned academician and scientist Padma Vibhushan Dr. Raghunath Anant Mashelkar, the Chief Guest, amidst roaring applause at the grand Convocation ceremony held at BITS Pilani, K K Birla Goa Campus on 3rd August 2014. At this Convocation 670 students were eligible to receive their degrees, out of which 422 of them received their first degrees, 178 of them their dual degree under the dual degree scheme, 59 of them their higher degrees and 11 of them their PhD degree. Three students were awarded medals Ms. Namita Paul (Gold), Mr. Bapat Shounak Vinayak (Silver) and Mr. Rahul Ameya Ravindra (Bronze) respectively.

Director K.E. Raman addressing the graduates.



The Convocation celebrations kicked off with the unveiling of the mural of Late Shri G. D Birla, the Founder-Chairman of the BITS Pilani University by the Chief Guest Dr. Raghunath Mashelkar. While delivering his Convocation address, Dr. Mashelkar emphasized the need for education in today's society, how Institutes of higher learning in India should bring education to the world class standards and should focus on Right to

Dr. Mashelkar unveiling the Mural of late Shri G.D. Birla



Education, Right Education and Education for all. He talked about massive Expansion, Inclusion and Excellence, the tripod on which we should move on in the Education sector. He also appreciated the tireless efforts put forth by the top ranking Institution BITS Pilani.

Dr. R.A. Mashelkar with Vice-Chancellor Prof. B.N. Jain



Presenting the Convocation Report 2014, Prof. B.N. Jain, Vice-Chancellor, BITS Pilani reaffirmed the long-term vision to be listed as one of India's top 3 research-led technical Institutes by the academic year 2015 – 16. The Vice Chancellor also talked about big-ticket imperatives as part of BITS Pilani's “Mission 2015”, such as faculty and staff development, industry engagement, innovation and entrepreneurship, internalisation, interdisciplinary research, technology enablement and quality assessment and assurance.

Dr. R.A. Mashelkar addressing the graduates





Chancellor Kumar, Mangalam Birla in his message congratulated the graduating students and their parents and told them to keep a few key points in mind. He talked about the need for continuous learning and picking up unprecedented opportunities and not letting them slide by, about giving back to society and maintaining one's character and practicing the values of honesty, integrity and compassion, and about giving back to one's alma mater.

The Director of the Goa campus, Professor K. E. Raman, gave a detailed report specific for the Goa Campus which highlighted the achievements of its faculty and students. He also spoke about the active entrepreneurial cell on campus and its ongoing collaborations. Dr. RadhikaVathsan concluded with the Vote of thanks.

VISIT BY MEMBER OF PARLIAMENT, UK

Dr Vince Cable, Member of Parliament, Government of UK along with his officials and delegation visited BITS Pilani, K K Birla Goa Campus on 11 October 2014. He is the Secretary of State for Business, Innovation and Skills with the policy areas business law, consumer issues, employment relations, enterprise and business support, trade policy, higher education, further education and skills, science, innovation.

Born in 1943, Dr. Vince Cable was educated at Nunthorpe Grammar School in York and read Natural Science and Economics at Cambridge University, where he was President of the Union, after which he studied for a PhD at Glasgow University.

He addressed the students and faculty members across all campuses of BITS Pilani using Telepresence classroom. In his address, he emphasized his message "Britain is open for Business" and also encouraged students to come for their higher studies in UK.

Vince Cable addressing the audience



a confluence of ideas

academia

seminars / conferences /
workshops / training programmes

Engineers' Day : 15 September 2014

The Engineers' Day was observed at the K K Birla Goa Campus to commemorate the birth anniversary of the celebrated Engineer of India, Bharat Ratna, Sir M. Visvesvaraya.

A symposium on "Wind Energy Engineering" was held and a Memorandum of Understanding was signed between WindSim AS, Norway and BITS Pilani, K K Birla Goa Campus. The parties agreed to undertake collaborative research projects and to improve the exchange of knowledge and experience within the area of wind energy technology. The MoU was signed by Er. Dr. Arne R. Gravdahl, Founder and CTO, WindSim AS, Norway and Prof. K. E. Raman. This was followed by technical session on Application of CFD based WindSim software tools for developing Wind Power Project, as practiced in Wind Industry. The WindSim software is originally invented by Dr. Arne R, Gravdahl and can be used for Wind Atlas development in a region. The session was attended by faculty and researchers.

A round table discussion was also held for evolving agenda items for joint implementation under the MoU for developing R&D projects, for possible funding by national, International agencies. Er. Dr. Arne R. Gravdahl, Er. Dr. Pramod V. Pathak, Mr. Jayasurya, T.F., Country Manager, WindSim India, Member Secretary, GEDA and Er. And Prof, N. Ponnani, BITS Pilani, K K Birla Goa Campus. Prof. M. K. Deshmukh led the discussions.

Prof. Arne and Director Prof. K.E.Raman on Engineer's day



Workshop on Deeper Industry Engagement Expectations from HODs and Faculty Members : 24 September 2014

As part of the Vision 2020 - Mission 2015 imperative to improve on the quality of industry engagement in various aspects of the academic programme in BITS Pilani, an expectation workshop for HODs was conducted in K K Birla Goa campus on 24th September 2014. The workshop aimed at presenting to the Heads of Departments various possible levels of industry engagement and expectations from Departments in this regard. Started off with the welcome and overview by Prof. K. E. Raman, the workshop involved several presentations on the possible industry engagement opportunities for the departments through the Work Integrated learning Programs and the Practice School Programs of BITS Pilani. Mr. Kris Ramachandran, Prof. G.Sundar, Prof. K Ponnani, Prof. Srinivas Krishnaswamy, Prof. Raghunath Ratabole, Prof. Srinivas Regalla enlightened the audience on the activities initiated so far and those that can be taken up in future. Two representatives from each department participated in this workshop.

International Conference on "Towards Ecocultural Ethics: Recent Trends and Future Directions" : 09-11 October

The three-day International Conference was organized by the Department of Humanities and Social Sciences in association with ASLE (American Society for Literature and Environment).

In his inaugural address, Prof. Mark C Long, President ASLE (American Society for Literature and Environment) and Professor at Keene State University, USA, spoke on "The Ecological Arts : Humanities, Technology and Science". He explored the historical and ethical imperative to build intellectual collaborations across the humanities and sciences to address global issues of environmental concerns.

Realizing the importance of research in the area of Environmental Humanities, the conference brought together about 160 participants across India and abroad to present papers on various related issues. Prof. K. E. Raman, Director, at the inaugural ceremony emphasized the environmental concerns researchers need to take up and also the need for promoting

interdisciplinary research. Coordinated by Dr. Reena Cheruvaleth and Dr. Rayson K. Alex and Dr. Gyan Prakash, the conference was very much appreciated by all participants who had expressed their interest in attending the second edition of the conference soon. Esteem Builders and Developers, Goa were the co-sponsors.

The chief guest inaugurating the conference



International Conference on “Changing Contours of Indo-US Relations : Perceptions, Continuity and Change : 31 October-02 November 2014

Departments of Humanities & Social Sciences and Economics jointly organized the three-day International Conference which aimed at providing a vibrant platform for academics, scholars, researchers, science and technology experts, linguists, business leaders, policy planners and strategic thinkers, diplomats and practitioners from all streams and dealing with Indo-US relations to deliberate on the subject towards a better understanding and policy guidance.

Presided over by Prof. K E Raman the conference was inaugurated by Ambassador Prabhat Shukla (Distinguished Fellow, Vivekananda International Foundation, New Delhi) and Prof. Aswini Mahapatra, JNU. The keynote address delivered by Ambassador Shukla on Indo-US relations received an overwhelming response from the audience. As a part of the conference, Smithsonian's Asia Pacific Centre collaborated a Special Exhibition on Indo-US Relations. Over ten sessions, 106 papers including 20 international papers were presented at the conference.

This successful conference was convened by Dr.RP Pradhan and collaborated by Indian Council of World Affairs (ICWA), Brooklings India, National Council for Antarctic and Ocean Research (NCAOR), International Centre, Goa (ICG), Dept. of Science, Technology & Environment, Goa and the Indian Council of Social Science Research (ICSSR).

Inauguration of the Conference



Workshop on Interdisciplinary Research : 15-16 November 2014

A workshop on Interdisciplinary research for 40 faculty from all campuses including off campus was conducted by Interdisciplinary research imperative (Prof. M. Srikanth - Goa, team leader, Dr. Trupti Gokhale – Dubai, team member, Dr. Inamur Laskar – Pilani, team member, Dr. Karthik Venkat – Hyderabad, team member and Prof. R N Saha - Mentor), under Mission 2015 initiative. The focused areas of research for this workshop were Disaster Management, Sanitation, and Health. There were invited speakers on the focused areas followed by speed collaboration and collaboration time. The invited speakers were Dr. Neelima Thota, Director - Araghyam, Bengaluru, Dr.Mylles Elledge, Senior Director RTI international North Carolina- USA, Prof D. Balasubramaniam – Director Research, LV Prasad EYE institute, Hyderabad, Prof Vinod K Sharma, Convener, Training Advisory Committee, Indian Institute of Public Administration, New Delhi.

This workshop paved way for the formation of interdisciplinary groups across campuses which are working now on preparing full research proposals that will be submitted to various funding agencies.

Interdisciplinary research Workshop participants



Conference on “Decentralized Biogas digesters and their slurry management” : 20-22 November 2014

The two-day conference was organized by Birla Institute of Technology and Science (BITS) Pilani, K K Birla Goa Campus, Goa India in association with Institute of Agricultural and Urban Ecological Projects (IASP), affiliated to Berlin Humboldt University, Germany. This conference brought together researchers, scientists and professionals working in the field of biogas production and slurry management so as to share experiences, update technologies and provide a platform for strong collaborative network.

Inaugurated by Dr. Pramod, V. Pathak, Member Secretary, Goa Energy Development Agency, the conference witnessed students, faculties and industry people participating from different parts of India. 90% of the delegates came from India showing a great participation of Indian researchers. Student participation was high with 67 % and all of them coming from India. Overall, 24 oral presentations and one keynote speech were presented during the conference. The Keynote Speech was delivered by Padmashri Dr. Sharad Kale from BARC. Conducted across seven sessions, which mainly discussed about slurry management and improved biogas production by employing different methods and processes, the presentations covered quite a wide range of possible applications including Biogas plant varieties, Wastewater treatment by algal consortia, value added by products from biogas plant, nutrient removal, Biogas production using dry fermentation technology, from different substrates, carbon mitigation potential, biogas reactor at high altitude, biogas slurry for mixed algal growth, value added products from digesters, co-digestion, power generation, increase shelf life of fruits and vegetables using biogas, fabric based biogas reactor. Five posters were displayed during the conference. A visit to the Biogas plant at Madgaon built by Deertree Technologies pvt Ltd under technical collaboration with BITS Pilani K K Birla Goa campus was also organized as a part of the conference.

Delegates at the Conference



XXIX SERC Main School in THEP 2014-15 : 20 December 2014 to 08 January 2015

The SERC (Science and Engineering Research Council, DST, Government of India, now known as SERB) schools in Theoretical High Energy Physics (THEP) are organized every year nationally. The aim is to provide an overview on different current topics in high energy physics to the Ph.D students in their early years of research. Each school has pedagogical lectures on selected topics supported by rigorous tutorial sessions. This year the XXIX SERC Main school in Theoretical High Energy Physics (SERCTHEP) was organized by the Physics Department of BITS Pilani, K K Birla Goa Campus, Goa during the period December 20, 2014 to January 8, 2015. The school was funded by SERB, Department of Science & Technology (DST), Govt. of India.

SERC Main School in THEP



Inaugurated by Prof. Sourendu Gupta, member of DST SERC Planning committee, TIFR, Mumbai, the Director Prof. K.E.Raman, the Physics HOD Dr. Gaurav Dar and the school Director Dr. Prasanta Kumar Das welcomed all the school participants.

Four courses (i) Flavor Physics, (ii) Wilsonian Renormalization Group and Effective Field Theory, (iii) Application of Effective Field Theory and (iv) Introduction to Anomalies in Quantum Field Theory in the area of Theoretical High Energy Physics were taught by eminent scientists. Each course consists of 9 one and half hour lectures in the morning followed by one hour rigorous tutorial in the afternoon.

Coordinated by Drs. Prasanta Kumar Das (School Director), Chandradew Sharma, V. Sunil Kumar, Kinjal Banerjee, Madhu K, Tarun Kr. Jha, P.N.Deepak, Gaurav Dar and their teams made the school a success.

Entrepreneur in Residence program (EIR) : 15 October 2014

BITS Pilani, K K Birla Goa Campus has launched the Entrepreneur in Residence program (EIR) to provide its students and interested faculty with a unique opportunity to meet one-on-one with successful entrepreneurs. The mentoring program is aimed to support an entrepreneurial ecosystem that is being laid down by the University through teaching and applied research, setting up of incubators on each campus, providing seed fund opportunities and IPR support mechanisms to encourage innovation.

Speaking on the occasion, Prof. K.E Raman said “Entrepreneur in Residence Programme is a wonderful opportunity for students to engage with successful entrepreneurs. The university understands the need of creating an entrepreneurial ecosystem for its students and it is with this understanding that we have launched this initiative to provide practical learning opportunities that facilitates interaction with experienced entrepreneurs, industry experts and venture capitalists to gain insight and inspiration.”

The programme started off with BITS Pilani alumnus, Phanindra Sama, Co-Founder, Red Bus. He interacted with students and faculty and addressed their concerns regarding startups and pursuing entrepreneurship as a career.

The objective of the Entrepreneur in Residence Programme is to provide students the chance to learn best practices for starting a business and also, give them an insight into specific industries or markets. The program is meant to be of special benefit for students interested in innovation and start-ups and is open to all students across the BITS Pilani campuses through the telepresence facility.

Rashtriya Ekta Diwas

To commemorate the Birth Anniversary (31st October) and to revere the efforts of Sardar Vallabhbhai Patel, the first Union Home Minister of India to unite the nation, BITS Pilani, K K Birla Goa Campus observed Rashtriya Ekta Diwas. This day is being observed as National Unity Day across the country.

A Run for Unity, as a part of nationwide celebrations, was organized at the campus to commemorate the efforts made by Sardar Patel towards the unification of India. Students, faculty and staff members actively participated in this run. Briefly explaining the importance of this day, the President of the Council of Student Affairs of the campus, Anmol Srivastava administered the pledge to a large number of students gathered at the inaugural event of the annual cultural festival of the campus. Students of the campus as well as from various parts of India took the pledge to preserve the unity, integrity and security of India and also spread this message across their countrymen.

Students and Faculty at the Unity Run



distinguished lectures

SPEAKER	DESIGNATION	TOPIC	DATE
Mr. Arpit Sharma	BITS Alumni (Embryo Talk)	How To Get Into A B – School?	19 August, 2014
Mr. Prabhav Joshi & Mr. Deepak Pareek	BITS Alumni (Embryo Talk)	From Pilani To Mussoorie	25 August, 2014
Professor Costa	Consultant of Orthopedics	Consumer Protection Act	27 August, 2014
Rajan Bhatikar	Management Consultant	Contract Creation and Contract management	5 September, 2014
Ms. Preeti Monga	BITS Alumni (Embryo Talk)	Failure Is The Only Route To Success	5 September, 2014
Mr. Balasubramanian Muthukumar	BITS Alumni (Embryo Talk)	Career Prospects For Mechanical Engineering Students	22 September, 2014
Mr. Ravikanth Konteti	BITS Alumni (Embryo Talk)	All You Wanted To Know About Investment Banking	26 September, 2014
Ms. Apoorvaa Deshpande & Mr. Adwait Gandhe	BITS Alumni (Embryo Talk)	BITS2MSPhD: The Application Talk	30 September, 2014
Prof. Srinivas Rajagopal	Scientist, Ion Accelerator Development Division, BARC	Femtosecond X-Ray Lasers - Making movies with atoms	11 October, 2014
Prof. Rajesh Gopakumar	Professor, HRI, Allahabad	String Theory and The Quest for Quantum Spacetime	13 October, 2014
Mr. Phanindra Sama	BITS Alumni (Embryo Talk)	Startup Story Of Redbus & Challenges Of Indian Startups	16 October, 2014
Mr. Vinodh Balasubramaniam & Mr. Vijay Jayaraman	BITS Alumni (Embryo Talk)	Data Mining And Analytics	16 October, 2014
Mrs. Anupama T V	BITS Alumni(Embryo Talk)	BITS2IAS: Civil Services As An Alternative Career Option	7 November, 2014
Mr. Babu Aiholi	Asst. Prof, Dept of Economics, Goa University	Legislation in Health Sector, Contracts, Technical Analysis	08 November, 2014
Dr. Sanjiban Santra	Australian Postdoctoral Fellow, School of Mathematics and Statistics, The University of Sydney, Australia	Existence and non-existence of bounded solutions for a fourth order ODE	8 December, 2014.

visits by faculty

enriching the learning experience

international visits

Mr. S. Arun karthick, Research Scholar ,Physics , presented a Poster on the paper titled “Studies on Biomolecular Transport through Nuclear Membranes using a Home Built Confocal Laser Scanning Microscope” authored by S. Arunkarthick, M. M. Bijeesh, Geetha K. Varier, Meenal Kowshik and P. Nandakumar at the 18th International Microscopy congress (IMC-2014) held in Prague, Czech Republic during 7-12 September 2014. He received a Scholarship of 800 Euro and registration fee waiver from the conference organizers to participate.

Dr. Debasis Patnaik, HoD, Economics visited Los Angeles and delivered a talk on "Momentum Trading and Contrarian Analysis of Indian Stock market from 2000-2010- A Behavioral Finance Approach" at the International Conference on Behavioral Economics and Behavioral Finance during 16-19 September 2014. Dr. Patnaik was a Discussant for 4 papers and chaired 2 sessions.

Dr. R P Pradhan, Assistant Professor, Humanities and Social Sciences, presented a paper “Indo-Japan Engagement: Connotation to ASEAN Plus & Plus" for the NIDA International Conference in Bangkok during 9-11th October 2014.

Prof. Santonu Sarkar , Professor, Computer Science presented as the co-author of two papers “Invariants for Anomaly Detection: The Case Study of a SaaS Application”, and “An Experiment with Conceptual Clustering for the Analysis of Security Alerts” at the 25th IEEE International Symposium on Software Reliability Engineering held at Naples Italy during 3-6 November 2014. He was also a program committee member of ISSRE-Industry session. (<http://2014.issre.net/rsda-program>)

Dr. Santonu Sarkar



invited lectures

by faculty

Prof. Dibakar Chakravarthy, Associate Professor, Biological Sciences delivered a lecture on Venom and Survival at Refresher Course in Life Science held at the Academic Staff College of Goa University on 17th October, 2014.

Dr. Debasis Patnaik, HoD, Economics, conducted an Interdisciplinary Workshop on Social Sciences in Chowgule College, Margao, Goa in Aug 25-26, 2014. He delivered an invited Talk on "Exchange Rate Volatility and the Indian Rupee" at Shornur College, Trissur, Kerala during 09-10 October 2014. He deliberated on ' How to study Theosophical literature in the light of Krishnamurti Approaches' in Krishnamurti Foundation of India, Cuttack and on ' Contribution of Science to Understanding of Religion' in Theosophical Society Lodge, Cuttack, on 24 September 2014.

Dr. Arnab Banerjee, Assistant Professor, Biological Sciences, on invitation, submitted a thematic article on the topic entitled "Reproductive ageing" for the 16th Special Issue of the Newsletter on Perspectives of Reproductive Health Research on a Post - 2015 Development Framework which will be released during "International Conference on Reproductive Health" coinciding with the Silver Jubilee celebrations of the Indian Society for the Study of Reproduction and Fertility (ISSRF) scheduled for February 2015 at Mumbai.

Dr. Rayson K. Alex, Assistant Professor , Humanities and Social Sciences was the Resource Person for UGC Refresher Course on Research Methodology organized by the Goa University on 25 September 2014. The title of his talk was “Good English For Research Reporting.”

Dr. Rayson Alex at the Goa University



Prof. Santonu Sarkar, Professor of Computer Science presented a tutorial entitled: “Making applications ready for HPC platform- software engineering challenges and techniques” at ACM Compute 2014 during 16-18 October 2014. Prof.Sarkar conducted several brainstorming sessions on Software engineering challenges for HPC platform at Siemens Technology at Bangalore on 23 October and 17 December 2014.

Prof. Meenakshi Raman, HoD, Humanities and Social Sciences, conducted a two-day FDP at Sri Vidyaniketan Engineering College, Tirupati for 75 teachers during 26-27 September 2014. She also conducted a two-day workshop for students and faculty on "Pragmatic strategies for Effective Business Communication" at the Global College of Engineering and Technology, Kadapa, AP, during 28-29 November 2014.

Prof. Meenakshi Raman at the lecture



Gold as an asset class" (with Bang, Nupur P. and Kuriyan, Vikram), ISB Case Series, Harvard Business Publishing, ISB038-PDF-ENG
http://cb.hbsp.harvard.edu/cb/web/product_detail.seam;jsessionid=0D5A6705987805E97C1386D4A0D9E10C?E=5078541&R=ISB038-PDF-ENG&conversationId=2916449

Mr. Rajat Mishra, 2011B4A7564G has been awarded the National Scholarship to Young Artists 2014-16 Ministry of Culture, Govt. of India in the category Light Classical Music. Govt. of India awards 400 scholarships in 25 categories for advanced training in the indigenous art forms. (15 scholarships have been awarded in the Light Classical Music category this year). (<http://www.indiaculture.nic.in/scholarship-young-artist>)

Dr. Rayson K. Alex was appointed as Member of the Technical Advisory Committee of Science and Technology Communication Programme, "Jal Sutra: Eco & WaSH Futures" of National Council for Science and Technology Communication (NSTC) of Department of Science and Technology under Ministry of Science and Technology, New Delhi for 2014 – 2016. In this connection, he was invited as a guest to lead a panel discussion on Water Discourse in the "Learning Exchange & Youth Leadership Workshop for Eco & WaSH Futures: Jal Sutra in Young Hands" held on 20th October 2015 at the Centre for Water Resources Development and Management, Kunnamangalam, Kozhicode, Kerala, and he spoke on Ecological Literacy.

achievements

Dr. Asima Shaukat, Assistant Professor, Chemical Engineering received the INSA Inspire Faculty Award from Department of Science and Technology, Govt. of India. The award constitutes a consolidated amount equivalent to the scale of Assistant Professor and a Research Grant of Rs. 7 lakhs per year for 5 years.

Dr. Debasis Patnaik, HoD, Economics has been elected for 2nd Consecutive Year as Executive Committee of Goa Management Association and the Co-ordinator of Student Manager of the Year Award committee of the Association.

Prof. Meenakshi Raman, HoD, Humanities and Social Sciences has been appointed as the Member of Board of Studies, Sciences and Humanities of Satyabhama University, Chennai (25.09.2014) She has also been appointed as the Special Invitee for the IQAC of MES college, Goa (29.10.2014) .

Dr. Puran Singh, Assistant Professor, Economics published the following case study and accompanying note in the reputed Harvard Business School publication : India's Passion for Gold: Velvetcase" (with Bang, Nupur P. and Kuriyan, Vikram), ISB Case Series, Harvard Business Publishing, ISB035-PDF-ENG, Sep 2014, 18p
http://cb.hbsp.harvard.edu/cb/web/product_detail.seam;jsessionid=0D5A6705987805E97C1386D4A0D9E10C?E=5078544&R=ISB035-PDF-ENG&conversationId=2916449

The Gold Story" (with Bang, Nupur P. and Kuriyan, Vikram), ISB Case Series, Harvard Business Publishing, ISB037-PDF-ENG, Sep 2014,
http://cb.hbsp.harvard.edu/cb/web/product_detail.seam;jsessionid=0D5A6705987805E97C1386D4A0D9E10C?E=5078542&R=ISB037-PDF-ENG&conversationId=2916449

Dr. Rayson Alex at the workshop



Prof. Santonu Sarkar has served the program committee of (a) the ICSE 2015- New Ideas and Emerging Results NIER Track (b) 25th ISSRE Industry Track (c) 25th ISSRE- Reliability and Security Data Analysis Workshop (d) 25th ISSRE- Workshop on Software Aging and Rejuvenation.

Dr. Sukanta Mondal, Assistant Professor, Biological Sciences published a paper in the Journal of theorbiol volume 348 by Dhole K, Singh G, Pai PP, Mondal S titled "sequence-based prediction of protein-protein interaction sites with l1-logreg classifier" that featured on global medical discovery as a key scientific article contributing to excellence in biomedical research.

Dr. Venkatesan S. Thimmakonda's (Assistant Professor, Chemistry) students Tanmay Netke and Aditya Prakash Pandey, working on a design project presented a poster in a Theoretical Chemistry Symposium at National Chemical Laboratory, Pune on December 18-21, 2014.

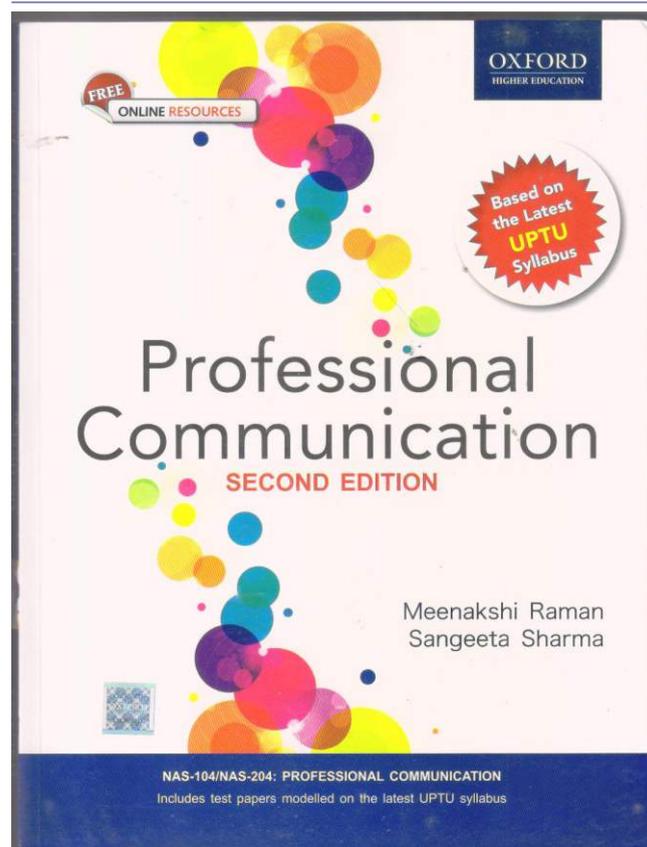
Mr. Swagat Kishore Mishra, Lecturer, Economics, was selected to attend a workshop on Capacity building training workshop on village social accounting matrix (sam) and computable general equilibrium (cge) modelling: application in agricultural research and development studies. This event is jointly organized by Gujarat Institute of Development Research (GIDR) and International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) held during november 3 – 10, 2014.

Swagat Kishore Mishra at the Workshop

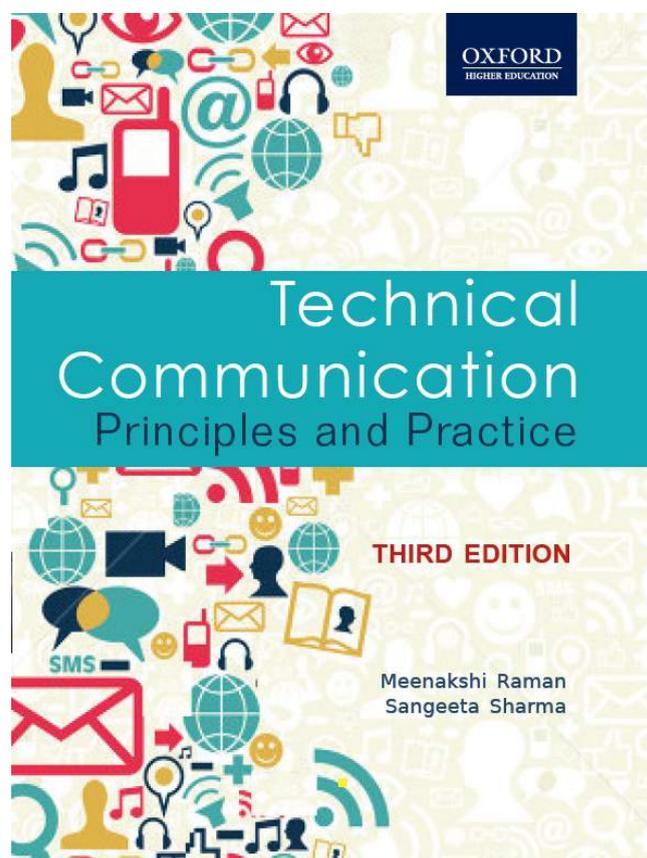


Prof. SD Manjare, Associate Dean, Admissions, published a paper in the proceedings of International Conference on Green Technology for Environmental Pollution Prevention and Control, held at NIT Tiruchirappalli, September 27-29, 2014. along with Neh Vivek Kovale (2010A1PS418G).

In Print



Meenakshi Raman and Sangeeta Sharma, Professional Communication, Second Edition (UPTU), Technical Communication, Third Edition New Delhi : Oxford University Press



significant projects

PRINCIPAL INVESTIGATOR & NAME OF THE DEPARTMENT	TITLE OF THE PROJECT	FUNDING AGENCY, AMOUNT & DURATION
Dr. Asima Shaukat Chemical Engineering	Gheological Dynamic of poymer layered silicate/graphene nano-composites	DST- Inspire Rs. 35.00 Lacs
Dr. Santonu Sarkar CS & IS	Addressing challenges in application development for heterogenous computing platform for speedup and power efficiency	DST Rs. 37.55 Lacs
Prof. Srikanth Mutnuri Biological Sciences	Development and Demonstration of two decentralized wastewater treatment systems	CORE WWEM Rs. 39.00 Lacs
Prof. Dibakar Chakrabarty Biological Sciences	Studies on Anticoagulant and Platelet Aggregation Inhibitors from Indian Cobra and Viper Venoms	DBT grant of Rs. 36.544 lacs
Prof. Sunil Bhand Co-PI Prof. Utpal Roy	Rooftop rainwater harvesting for safe potable and healthy drinking water and ground water replenishment	CORE WWEM Rs. 40.65 Lacs
Dr. Arunashree Panda Coinvestigator: Dr. R. N. Behera Chemistry	Chalcogen containing azomethine macrocycles and bicycles: synthesis, characterization, metal complexes and theoretical investigations of nature of intramolecular interactions between divalent chalcogen and nitrogen atoms	DST WOS Rs. 17.10 Lacs
Prof. N.N. Ghosh Chemistry	Investigations on microstructures of hard-soft ferrite nanocomposites and influence of microstructures on their properties	UGC-DAE Rs. 2.63 Lacs
Dr. K A Geetha Humanities & Social Sciences	Literature as an Instrument of Social change – A Study of Readers' Response to Dalit Literature	UGC Rs. 8, 26,400
Dr. Basavadatta Mitra Humanities and Social Sciences	An empirical analysis of cross cultural communication variables in Indian industries leading towards developing appropriate strategies for multi-cultural workplaces and academia	UGC Rs. 6.506 lacs

Consultancy

Dr. Rayson K Alex and Mr. Solano Jose Da Silva: Consultancy on “A Social Study on the Opportunities and Challenges for Sustainably Managing the Dr. Salim Ali Bird Sanctuary as Protected Area on the Island of Chorao, Goa, India” from 01 October 2014 to 15 November 2014, with a budget of Rs. 2,43,822. The project is funded by GIZ, Indo-German Biodiversity Programme, New Delhi, and executed by Goa Forest Department.

WAVES 2014

LIGHTS, CAMERA, MAYHEM!

Three and a half days of sheer mayhem: these are the words that describe the period from the 30 October- 2 November 2014. For all who were a part of it, these days shall always be a moment they will never forget. Waves 2014, has been etched into their memories forever.

The inaugural ceremony started off with the lighting of the lamp by K. R Srinivas, Chief Editor, Times of India , Founders of Art Escape, Goa and K E Raman, Director of the campus along with the Anmol Srivastava, President CSA and and Abhishek Mohta, Convener Waves. The inauguration also served as an appropriate forum to administer the pledge in connection with the celebration of National Unity Day held in honor of Sardar Vallabhai Patel. Following this was the mesmerizing performances by Kala, Dance Club and Mime Club of the Campus.

Day 1 was a promising commencement to Waves-2014. While the morning saw a series of elimination rounds, things picked up pace in the afternoon with Natyanjali, The first of the big three being held in the auditorium. The teams came up with concoctions of mesmerizing moves intertwined with socially relevant messages or food for thought. The Nukkad Natak finals took place immediately afterwards in the outdoor stage. The finalists performed on various themes, ranging from consumer awareness and protection, News sensationalism, Homophobia to Sex Education. After that, Andrea Pixie, a fire artist churned out a mesmerizingly daring performance for the audience.

Outdoor Stage during DJ Nite



The rest of the night was shaped by an “on the dance floor” mantra. Candice Redding definitely turned on all the right moves at the DJ night. The sensory appeal of the event was beyond compare. This was followed by a Bollywood performance by DJ Dharak. All the Bollywood lovers in the house couldn't stop dancing to the chart topping dance tunes. To top it all off, there was an all-night treasure hunt, which kept the participants running here and there trying to decipher the clues. The Sea-Rock semi-Finals were also held parallel in the auditorium, which featured many refreshingly interesting compositions of various genres of music, primarily metal

Day 2 had more to offer. FashP, the second Big3 event followed by Campus Princess auditions were held in the jam packed auditorium. Miss India International Zoya Afroz and model Mohit Malhotra, graced the event by their presence. The event began with a walk by the hosts, the students of BITS-Pilani, K.K. Birla Goa campus. They highlighted the themes for the event, namely Casino, Arabian Nights and Rodeo. The participants added glamour to the atmosphere by portraying the various flavors of casinos, depicting them as the abodes of the rich and the powerful. This event was followed by the Campus Princess auditions. The winners were chosen after a series of questions asked by the two special guests for the evening. The ladies of the evening shall enjoy a direct entry to the Femina Miss India 2015 auditions.

Other events like the Solo Singing competition and Jukebox, attracted a huge audience. The participants entertained the audience with excellent Western and Indian music. The second, third and fourth rounds of Contention, the Waves Debate were conducted on Day 2. Jam, an LDC event was conducted which saw a huge turn up.

The Hindi music night saw the live performance of none other than the legendary Shankar Mahadevan. He made the crowd jump in the air, sing to his tunes and dance to the rhythm to his renditions of 'Uff teri ada', 'pichle saat dino me', 'Dil chahta hai', 'Senorita' along with a few Telugu, Tamil and Marathi songs as well. The highlight of the night was the epic song 'Breathless' which has made Shankar Mahadevan what he is today. Shankar Mahadevan concluded his performance with the song 'Sabse aage honge hindustani'. It was truly a memorable night in the history of BITS, Goa.

Shankar Mahadevan on Day-2 of Waves'14



The excitement and barrage of events spilled over to day 3 of Waves, as the Mayhem continued. Skime, the silent drama event and Silence of the amps, an acoustic music event were the first events of the day, followed by Mock Talk Finals, Waves Open Quiz, Press Corps, and the Art Marathon. Soon after, Dhinchak, Solonote, Jukebox, Filmmaking finals, and Waves debate Contention (the first edition of the with an external adjudication core!) also kicked off. Clearly, there was always something to keep people entertained.

After most events started simmering down, it was time for the campus dance club to take center stage. With a cornucopia of different dancing styles, they kept the audience glued to their seats. Mr and Mrs. Waves was the next event, and the final of the Big 3 events. With an aim to churn out the most unique and confident personalities, the event took place in three rounds.

A small lull followed Mr and Ms. Waves, but after an hour of painful waiting, it was finally worth it: All India Bakchod! Well known for their ballsy podcasts and YouTube videos, they were clearly just as good at Stand Up acts as well. All four members shared stage time, and with impromptu 'comic book readings' and guitar acts on the state of Bollywood music, they only strengthened their reputation as the gutsy Comedians they are.

Baiju Dharmajan Performing on Day-3 of Waves'14



The Coke Studio Night followed the Junkyard Groove performance and mesmerised the audience with phenomenal music. Baiju Dharmajan's Syndicate enchanted the audience with their magical performance, a blend of Carnatic and Rock music. Harish Sivaramakrishnan, a BITS Pilani alumnus and a member of the band Agam, also performed with Coke Studio and added a flavour of his own, covering both Malayam and Tamil songs effortlessly. It was a fitting end to a festival which kept the large audience entertained and wishing for more of it, during all three days.

NIRMAAN

- The Career Counselling Team successfully conducted workshops across 5 schools in Goa wherein students of classes 9th and 10th were introduced to various career paths and opportunities which they can pursue after graduating from school.
- Under the School Adoption Program, the Municipal School in Vasco has been adopted and provided black boards.
- Employment Operations have set up a Training Centre which is being operated in collaboration with the Government and Tara Trust where around 30 women are trained to make paper artefacts. 4 computers and 6 tailoring machines have been arranged with the help of a Government official in order to start a training centre in Zari. The woman in our SHG made over Rs 8000/- of sales outside campus last semester.
- To raise awareness about various social issues prevailing in Zari and tackle them effectively, the Participative Community Development team organised a street play in Zari and also interacted with the community members through various events on Independence Day and Children's Day.
- Inspired by our Prime Minister's Swachh Bharat Abhiyaan, the Health Operations took an initiative to spread this message on grassroots levels and encourage the people of the slum Zari to wield a broom and clean their surroundings thus working on the lines of their aim of spreading awareness on the importance of sanitation in the community.
- Through the scheme Rice Bucket Challenge around 160 kgs of rice was collected and donated to the needy residents of slum near Mobor Hills.
- The Joy Of Giving Week was celebrated from September 19-25. Many events such as Old Age Home Visit, serving meals to mess workers and guards, book binding, and many other exciting events for children from various orphanages in Goa were organized. 2000kgs of clothes were collected from faculty and students of our campus as well as of other schools and corporates in Goa and distributed to the needy. Through an event called 'Wish Tree', funds were collected to support various Nirmaan Projects.

Nirmaan volunteers with kids during the Joy of Giving Week



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. Santonu Sarkar	Computer Science	Expert Reviewer of the Science and Engineering Research Board Projects
Dr. Arnab Banerjee	Biological Sciences	Guest editor for the Science Publishing Group's upcoming Special Issue entitled 'Embryo Development'.
Dr. Raviprasad Aduri	Biological Sciences	Editor of an Open Access journal "Enliven: Microbes and Microbial Techniques", Author of the first editorial article " To be Read or Not" (http://www.enlivenarchive.org/microbes-microbial-techniques-e1.html).
Dr. Debasis Patnaik	Economics	Reviewer of paper on 'Vietnam Trade Legislation' in Journal of Indian Applied Manpower Research
Prof. Meenakshi Raman	Humanities and Social Sciences	Reviewed "Met Expectations of Health Care Professionals as Mediator of The Impact of Hospital Workplace Factors on Quality of Patient care" for AIMS International Journal of Management (M408030) Editorial Board of Journals of

snapshots

Dance Club Performing in Waves'14



Music Club Performing in Waves'14



Mime Club Performing during Waves'14



BITSian day Celebration
BITSians DAY – 1st August, 2014

Join the thousands of BITSians to celebrate the 2nd edition of 'BITSians Day'!



Showcase your BITSian pride by wearing any BITS T-shirt!

Kala Performing in Waves'14



Malignant Humour by Drama Club



introducing new faculty

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