

Inaugural Edition 2007-12

bitscan

Hyderabad Campus



BITS Pilani
Hyderabad Campus





Contents

| | |
|--|-----------|
| Editorial | 04 |
| Evolution of the Campus..... | 05 |
| Chancellor's First Visit to the Campus | 09 |
| Eminence Graces the Campus | |
| Foundation Day Celebrations..... | 10 |
| Central Library: A Symbol of Eloquence and Pride..... | 10 |
| Academic Confluence of Ideas, Intellect and Information | |
| Seminars / Conferences / Workshops / Training Programs..... | 11 |
| Distinguished Lectures at BITS Hyderabad | 16 |
| Accomplished Faculty: Enriched Learning Experience | |
| International Visits by Faculty..... | 18 |
| Invited Lectures by Faculty | 19 |
| Academic Achievements of Faculty | 21 |
| Significant Projects | 22 |
| In Print – Books Published..... | 26 |
| Joining Hands for Future Research..... | 26 |
| First Convocation | 27 |
| PEARL 2011 | 30 |
| BITSMUN: Brainstorming on Issues that Matter..... | 32 |
| Engineer's Day..... | 32 |
| Caring Beyond our Walls | |
| National Service Scheme | 33 |
| Meaningful Campus Life: Community Welfare Unit..... | 34 |
| Scholarships: Encouraging the Efforts of Students | 34 |
| Towards Better Society and Environment..... | 34 |
| Guest Lecture Series | 34 |
| Student Welfare Division: Fostering Cultures and Talents..... | 35 |
| Sports Activities..... | 37 |
| Creative Zone – SPICMACAY..... | 37 |
| Accolades and Student Round-Up | 38 |
| Other Highlights | 38 |
| Introducing New Faculty (April 2011 – December 2012)..... | 39 |
| Distinguished Visitors to our Campus | 42 |

Editorial

'Coming together is a beginning; keeping together is progress; working together is success.'

- Henry Ford

The academic year 2011-12 holds a special significance for BITS Pilani Hyderabad Campus, as this is the year when the campus for the first time had all the four years of first degree students.

The campus was abuzz with activities even as the very first batch of students eagerly got ready for placements. It was a moment of pride and delight to witness the first convocation at the Hyderabad campus as more than 400 students received their graduate and postgraduate degrees.

Echoing the same spirit, we bring out the first issue of BITScan from the nascent BITS Pilani Hyderabad Campus.

BITScan is a newsletter that is brought out every semester to give the reader a panoramic glimpse of the achievements, activities and events held on campus. Accordingly, this newsletter is aptly named BITScan, which also resonates the 'Yes, we can' spirit of BITSians.

The following pages will help you to get a glance of the action at BITS Pilani Hyderabad campus through the years till 2012. I hope you enjoy reading this first effort (and all of our subsequent editions too).

Prof VS Rao
Director – BITS Pilani Hyderabad Campus
Editor-in-Chief

Evolution of the Campus





Infrastructure



Chancellor's First Visit to the Campus

The Chancellor, Sri Kumar Mangalam Birla visited BITS Pilani Hyderabad Campus for the first time on 26-27 December 2011. His visit commenced with the tree plantation program followed by a tour of various departments / research labs.

The faculty explained about the research projects that the young campus is pursuing. The Chancellor visited the new library building, hostels, mess, Student Activity Center and other facilities in the campus. Besides meeting faculty members, alumni and students over lunch, he had a brief interaction with the student council members and the representatives of associations and clubs. He spent time with the steering committee members, the task force leaders and task force members reviewing Mission 2012 and Vision 2020.

Foundation Day Celebrations



Dr Anji Reddy, Founder Chairman of Dr. Reddy's Laboratories was the guest of honour for the Foundation Day celebrations. He urged the students to inculcate the habit of dreaming big. Dr Anji Reddy, who was awarded the Padmabhushan, was felicitated during this occasion. He also laid the foundation stone for the auditorium building of the Institute.



Sri N Kiran Kumar Reddy, Hon'ble Chief Minister of Andhra Pradesh, honoured us with his presence as the chief guest at the fourth Foundation Day celebrations of the BITS Pilani Hyderabad campus on 29 April 2011. Home Minister Smt P Sabitha Indra Reddy also visited the campus for the Foundation Day celebrations and planted a sapling on the campus.

Central Library: A Symbol of Eloquence and Pride

A new state of the art library was inaugurated on 16 December 2011 by the Hon'ble Governor of Andhra Pradesh, Sri ESL Narasimhan. This Central Library is the heart of BITS Pilani Hyderabad Campus with its splendid confluence of aesthetics, latest technology and ecological benignity.

The two-storey building covers an area of approximately 45,000 sft and can accommodate 450 students at a time. It is open to provide denizens the access to around 18,000 books and 5000 e-journals right from 9 AM to 11 PM. The library is adequately equipped with OPAC systems and round-the-clock Wi-Fi connectivity with a digital library and a discussion room shortly coming up.

Built on the green building concept, it basks in natural light for most part of the day. It endows upon its inmates an ambience apt for peaceful learning. Its gargantuan glass windows allow them to be in the embrace of the natural greenery of the campus.

Seminars / Conferences / Workshops / Training Programs

Formation of Society of Automotive Engineers (SAE) Local Chapter

On 17 August 2011, Prof P Nageswara Rao, a Professor at the University of Northern Iowa, formally inaugurated and unveiled the website for the local chapter of the Society of Automotive Engineers at the BITS Pilani Hyderabad Campus. The local BITS Pilani Hyderabad campus chapter currently has around 200 student members.

Towards Clean and Efficient Energy

The Mechanical Engineering Department in collaboration with Engineers Without Borders (EWB), Efficient Carbon, and Andhra Pradesh Pollution Control Board (APPCB) conducted a one-day Workshop at BITS Pilani Hyderabad Campus on 'Environment, Clean Energy and Energy Conservation' on 3 September 2011. Prof SP Regalla, Prof KS Raju, Dr D Jayakrishna and Dr M Srinivas were the organizing team members. The Workshop was attended by a large gathering of students. Some very salient points on the theme were presented by experts including Dr Ashok

Agarwal (Chairman, EWB), Mr Pradeep Palelli (Efficient Carbon), Mr PN Rao (Executive Director, EWB) and Mr T Ravi (RSP Consultants).

Workshop on COMSOL Multi-Physics Modeling

A one-day workshop on COMSOL Multi-Physics Simulation tools was held at BITS Pilani Hyderabad campus on 14 October 2011. It was presented by Mr Biswaprateem Das, systems analyst from COMSOL, Bangalore. The workshop highlighted the use of COMSOL Multi-physics for the modeling of physics phenomena. It also emphasized on how to use the COMSOL Multi-physics graphical user interface to model physics phenomena in a wide variety of application areas. The workshop was attended by faculties from the Department of Physics, Mechanical Engineering, Chemical Engineering, Electronics and Electrical Engineering, Civil Engineering and a large number of students from various disciplines of the Institute.





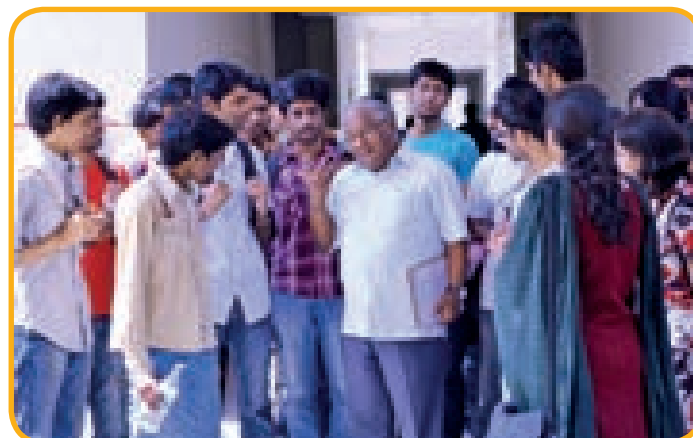
Mapping the Changes in Pharmaceutical Sciences

The Department of Pharmacy organized a one-day symposium on Current Trends in Pharmaceutical Sciences (CTPS-2011) on 12 November 2011, to discuss the progress made by Pharmacy profession in India and latest developments in the academic and research domains. The objective of the symposium was to provide a platform for professionals across the country to focus on recent advancements in Education and Industrial facades.

The Chief Guest for the session was Dr Ahmed Kamal (Scientist H, IICT, Hyderabad and Director of NIPER-Hyderabad), and eminent speakers Dr Vyas (Dr. Reddy's Laboratories Ltd), Dr Vadlamudi Rao (Vimta Labs), Dr MNA Rao (Divis Laboratories Ltd), Dr V Swaroop Kumar (Incogen Therapeutics Pvt Ltd) and Dr Sreedhara R Voleti (Institute of Life Sciences) participated in interactive sessions and three poster sessions culminating the one-day program. Over 250 students from different states took part and presented their research articles. As part of the symposium, blood and eye donation camps were also organized in collaboration with the NSS team of BITS Pilani Hyderabad campus.

Web Services Tutorials

The students of IEEE - BITS Pilani Hyderabad Campus, in association with the IEEE Computer Society - Hyderabad section conducted a tutorial on 'Web Services: Architectures, Design and Deployment' on 26 March 2011. The tutorial



gave the audience an insight into Web Services, SOAP based standards and RESTful architectures. It also focused on how to consume web services by showing implementation of applications, which can display Flickr photographs, Twitter / Facebook updates, etc., using RESTful web services. And finally the audience was given a hands-on experience of creating and deploying SOAP and REST based services on web server and in using them in simple applications.

'Nano for the Young'

First year students attending 'Nano for the Young' program, conducted by Prof CNR Rao as part of the ICONSAT-2012 (International Conference on Nano science and Technology) on 12 January 2012. The event was organised by International Advanced Research Center for Powder Metallurgy and New Materials (ARCI), Hyderabad. Dr Ramesh Adusumalli and Mr SM Hussaini were accompanying as Faculty members.

Workshop on Joomla

This was the first of the IEEE student branch's student-for-student initiative activities, directed towards encouraging some of the technically strong students to come forward and share their knowledge with the other students. It also aimed at making the branch self-sufficient to conduct future activities on a large scale. This workshop was conducted by D Ravi Teja, the Student Branch Chairman, on Joomla - a free and open source Content Management System. It turned out to be a massive success and his effort was acknowledged.

IEEE Conference

PRIMEASIA is a sister conference of PRIME (EUROPE). It is technically sponsored by IEEE Circuits and Systems Society and is held every year in countries of Asia-Pacific. This year's conference, held at BITS Pilani Hyderabad Campus, is organized jointly by IEEE, Hyderabad Section and BITS Pilani Hyderabad Campus. It is the fourth edition of the conference, previous ones having been held in Shanghai (2009), Shanghai (2010) and Macau (2011).

PRIME stands for 'Post-Graduate Research in Microelectronics and Electronics' and is mainly targeted at Master's and Doctorate students carrying out research in frontier areas of microelectronics and electronics. Faculty members from academic institutions, scientists / engineers from research organizations and companies are also invited to facilitate their interaction with the students.

This year's PRIMEASIA attracted very good response in India and to some extent from Taiwan and China as well. Overall, 138 papers have been submitted. The papers have been peer reviewed where the reviewers have been asked

to specifically select papers for oral and poster presentation bearing in mind the quality, novelty, advancement of knowledge and the overall presentation. Detailed comments have been provided to the authors to improve the papers wherever needed. Fifty eight papers have finally been selected for presentation at the conference, 46 for oral and 12 for poster sessions.

Papers submitted to the conference came from diverse areas such as Digital Design, Analog and Mixed Signal Design, VLSI Process Technology, Nano-Technology, VLSI Routing, DSP Building Blocks, Video Coding and Power Electronics. This evidently indicates the significance research in these areas is gaining the world over. Such exposure, thus, holds great value for our students.

It is noteworthy that, responding to a special session on 'Women in Engineering', several women authors have sent in their contributions to the conference. This special session, which highlighted the contribution of women to Engineering profession, had presentations only by women authors.





Select papers presented at the conference have been awarded Gold, Silver and Bronze certificates thereby giving recognition to some excellent research contributions by the students and their supervisors.

We also hosted IEEE INDICON 2011, the prestigious annual conference of IEEE India Council. The conference was held between 16-18 December. This conference is being held since 2004 and covers the fields of Computer Sciences and Engineering, Electrical Engineering, Electronics and Communication Engineering, Biomedical Engineering, Life Sciences and Technology Management among other areas of IEEE. The conference brings together researchers, academicians and professionals in engineering from all over India to share their original research work and contributions. The papers to be presented were picked by an eminent Technical Program Committee that comprised of stalwarts from education and corporate sectors.

The theme of the conference this year was 'Engineering Sustainable Solutions'. The proceedings of the IEEE INDICON 2011 conference were published through the IEEE Xplore after the conference

International Conference on Wind Energy: Materials, Engineering and Policies (WEMEP-2012)

The WEMEP-2012 was held from 22-23 November 2012 at BITS Pilani Hyderabad Campus. The conference was a big success with as many as 19 keynote / plenary talks by experts on various topics related to wind energy. There were 30 research papers presented in three parallel technical

sessions and eight poster presentations. Among these participants, 15 were from various foreign universities.

One distinguishing feature of the Conference was that it combined the plenary speakers from three different departments of BITS Pilani Hyderabad Campus, viz., Mechanical, Civil and Chemical, well serving the interdisciplinary nature of the topic, as follows.

Plenary talks were delivered by Prof SP Regalla, Dr M Srinivas, Dr D Jayakrishna and Dr SS Deshmukh from Mechanical Engineering Department, Dr Ramesh Babu Adusumalli and Dr Chetan Karthik from Chemical Engineering Department and Dr Chandu Parimi from Civil Engineering Department.

Dr Gomathinayagam, Executive Director, Center for Wind Energy Technologies was the Chief Guest of the Inaugural session and Prof VS Rao, Director, BITS Pilani Hyderabad campus was the chief guest of the valedictory function. Prof Bent Sorensen, Technical University of Denmark (DTU) and Prof Srinivasa Prakash Regalla, BITS Pilani Hyderabad Campus were the Chairman of the Conference and Dr Srinivas Morapakala, Dr Jayakrishna Devanuri and Dr Ramesh Babu Adusumalli were the secretaries of WEMEP-2012.

The Conference was jointly sponsored by BITS Pilani Hyderabad Campus, Council of Scientific and Industrial Research (CSIR), Government of India, New Delhi, M/s Hemair Cleanroom Systems, Hyderabad, M/s Metsonic Engineers, Hyderabad and Danish Agency for Science and Technology (DASTI), Denmark.

International Workshop on Information Security

Department of Computer Science organized a five-day International workshop on Information Security during 15-19 December 2012. The workshop was inaugurated by Sri Sanjay Jaju, Secretary, Department of Information Technology & Communications, Government of Andhra Pradesh.

The Director, Prof VS Rao in his welcome address emphasized the needs of such workshops in the context of recent global cyber threats on national critical infrastructures. Sri Sanjay Jaju in his inaugural address enlightened the audience with strides Information Technology sector has made in India and how it has impacted the economy over past several years.

The workshop was privileged to have eminent speakers including Prof AP Mathur from SUTD, Singapore; Prof Mustaque Ahamad from Georgia Tech, USA; Prof Nasir Memon from NYU, Poly, USA; Shailendra Fuloria, ABB, Bangalore; Pradeep Jain, RSA, Bangalore; Punurangan Kumarguru, IIIT, Delhi; Narendra Kumar, CRRAMSC, Hyderabad; Gene Scriven; Sabre Holdings.

The industrial session was engaged by experts from Microsoft, Computer Associates, and Deloitte. The various

talks and hands-on sessions covered in the workshop included Enterprise Identity Management, Cyber Physical Systems security, Trust management, Privacy and Security in Social Media, Digital forensics, Malware analysis, Secure coding practices, etc. More than 60 participants from different companies, faculty, and students from different parts of India benefited by attending the workshop which was first ever workshop of this nature conducted at any of the BITS campuses. The workshop was sponsored by DST, CSIR, and Computer Associates.

One-Day Symposium on Green Energy and Technologies

A conference on green energies and technologies was conducted by the Department of Chemical Engineering and Association of Chemical Engineers in BITS Pilani Hyderabad in March 2011. The focus of the conference was on topics related to green energy, bio fuels and renewable energy. Mr Chari, Head of the Energy Group, GE Hyderabad inaugurated the event. Mr Pradeep Palleli, Partner, Efficient Carbon spoke during the event about reducing carbon foot print. Several students from various institutes in Hyderabad presented papers related to green technology. The event was sponsored by the Association of Chemical Engineers, BITS Pilani Hyderabad.



Distinguished Lectures at BITS Pilani Hyderabad Campus

| Speaker | Designation | Topic |
|------------------------|--|---|
| Dr Anand Mohan | Department of Chemical Engg, IIT Hyderabad | A Mathematical Model for Blood Clot Formation |
| Prof Srinivas Akella | University of North Carolina, USA | Robotics: Multiple Moving Objects, with Applications Ranging from Semiconductor Fabs to Lab-on-a-Chip Devices |
| Dr Ramesh Rayudu | Associate Professor, Electrical Engineering, Massey University, Palmerston North New Zealand | Towards Optimal Wind Turbine Height for Residential and Business Use |
| Sonali DeSouza | Wolfram Research Inc, USA | How to Integrate Mathematica into Your Classroom and Research |
| Mr Amit Khandelwal | VP - Planning and Revenue Mgt., Indigo | Equity Research |
| Prof G Srinivasan | Former Jawaharlal Nehru Fellow Raman Research Institute (Retd), Bangalore | The Mysterious Universe |
| Prof CNR Rao | Linus Pauling Research Professor and Honorary President, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore | Prof V Lakshminarayanan Centenary Oration |
| Prof Sanjay Srivastava | DAIICT, Gandhi Nagar, Gujarat | Ad Hoc Network Design and Development Strategies for Social Networks |
| Dr KRV Subramanian | CEO, Radix Learning Bangalore | Pattern Oriented Software Architecture |
| Ganesh Ramachandran | PhD Student, University of Toronto, Canada | Frustrated Magnetism |
| Dr Bhaskar Majumdar | Scientist-E, Advanced Magnetism Group of DMRL of DRDO | Fe-Based Nano-Crystalline Soft Magnetic Materials-Present Status |
| Dr DN Rao | General Secretary, VNRVJIT, Hyderabad | Entrepreneurship Challenges |
| Dr B Mishra | AXIOM, Mathematics Association | Inhomogeneous Plane Symmetric Cosmological Model in Scale Invariant Theory |
| Prof PN Rao | Rapid Prototyping Technology | Rapid Prototyping Technology |
| Ameeta Jaiswal | Associate Professor of Finance, University of St. Thomas, USA | 'On Derivates Markets' About the Financial Instruments and Most Common Derivates Used for Trading |



| Speaker | Designation | Topic |
|-----------------------|--|---|
| Venu Palaparthi | COO & CCO, Instinet, USA | Equity Market Structure - Speed, Efficiency & Transparency |
| Dr Tarun Jain | Assistant Professor of Economics and Public Policy at the Indian School of Business | The Impact of Language on Economic Performance |
| Prof A Sethuramaiah | Renowned Tribologist Visiting, Professor of Vellore Institute of Technology, Vellore | Boundary Lubrication: Issues at Macro, Micro and Nano Levels |
| Mr Evan | Applied Mathematics Harvard University | Global Financial Crisis (Past, Present, Future) |
| Dr Praveen Saxena | | Environmental Pollution and ASD |
| Venu Palaparthi | COO & CCO, Instinet, USA | On Micro Structures in Finance and Stock Market |
| Ram Nyshadham | Ex BITSian - 1982 Batch | Role of Pharmaceutical Development (PD) Manager in Adding Value to Overall Drug Development of NCEs |
| Dr Pratap Sundar | | Anatomy of the Brain |
| Dr Meenakshi Sundaram | Visiting Faculty, Regional Institute of Education, Mysore | Multifractaleigenstates of Quantum Chaos and the Thue-Morse Sequence |

International Visits by Faculty

Dr Ramakrishna Vadrevu, Dr Vidya Rajesh and Dr Sankar Ganesh, Technical Committee Members of the Annual International Conference on Advances in Biotechnology, BIOTECH 2011, 28 February and 1 March 2011 at Singapore.

Dr Meera Lal presented a paper on 'A Study on Female Foeticide and Infanticide in India (Punjab and Tamil Nadu)' at Tokyo in March 2011.

Madhu Poornima Mamidala, CN Rahul, N Rajesh, Vidya Rajesh, 'Assessment of Assisted Reproductive Technology and its Associated Risk with Autism Spectral Disorder in Indian population', European Human Genetics Conference, 28-31 May 2011, Amsterdam, The Netherlands. Abstracts published in European Journal of Human Genetics, Volume 19, Supplement 2, May 2011.

Dr Chittaranjan Hota visited Department of Electronics and Computer Engineering at University of Cagliari, Cagliari, ITALY for two months during May-June-July 2011 as Visiting Professor to participate in teaching and research activities at UNICA. The research work was carried out with Prof Giuliano Armano's Machine Learning and Information Retrieval Group. The visit was funded by Italian Ministry of Education, Italy.

Dr MG Prasuna presented a paper on 'Quest for a New Order in the Literary Works of DH Lawrence and GV Chalam' at the 12th International DH Lawrence Conference held at Sydney, Australia from 29 June to 3 July 2011, organized by the DH Lawrence Society of North America.

Mr Pavan presented a Paper on 'Optimization of Support Material and Build Time in Fused Deposition Modeling (FDM) Using Central Composite Design (CCD)' at the 26th International on CAD/CAM, Robotics and Factories of the Future 2011 held at Kuala Lumpur, Malaysia, during 26-28 July 2011. The conference brought together eminent industrialists, educationalists, researchers and students from various backgrounds of advanced manufacturing, robotics, advanced materials, etc., from various parts of the world

Prof VS Rao, Director, visited Finnish National Board of Education, Vocational Study Centers and Universities in Finland on 10 October 2011, to discuss best practices followed and to work on collaborations.

Prof VS Rao visited Estonian Ministry of Foreign Affairs and Tallin University of Technology, Estonia on 12 October to work on various collaborations like Practice School, Faculty/Student Exchange programs, etc.

Prof VS Rao visited Beijing to participate in Global Engineering Deans' Conference, and Shanghai for attending the conference on American Society for Engineering Education from 21-23 October 2011.

Dr B Mishra visited United Arab Emirates University, Al Ain, UAE and presented a research paper entitled 'Scale Invariant Theory for Axially Symmetric Space-time with Perfect Fluid', in the Fourth International Conference on Mathematical Sciences (ICM 2012) during 11-14 March 2012. The visit was funded by DST and CSIR.

Dr Ramesh Babu Adusumalli, Department of Chemical Engineering, visited Swiss Federal Research Institute for Material Science and Technology (EMPA), Switzerland from 16 May to 16 July 2011 as a visiting Scientist, to carry out experiments on Nano-Mechanics of Spruce Wood, published in the Journal of Materials Science 2012; 47(16):6125-6130.

Dr N Rajesh, Department of Chemistry, visited University of Nottingham, Malaysia campus on 18 November 2012 as an external examiner for a PhD thesis entitled 'Biosorption of Copper Using Neem Leaf Powder'.

Dr B Mishra visited Wilfried Laurier University, Waterloo, Ontario, Canada and presented a research paper entitled 'Inhomogeneous Plane Symmetric Cosmological Model in Scale Invariant Theory', in the International Conference on Applied Mathematics, Modeling and Computational Science during 25-29 July 2011. The visit was funded by INSA and UGC.

Dr PK Sahoo visited Wilfrid Laurier University, Waterloo, Canada, to present a paper at AMMCS-2011 on 'Plane Symmetric Domain Walls and Cosmic Strings in Bimetric Theory' from 25 to 29 July 2011 with funding support from DST and CICS, India.

Dr Meera Lal presented a paper on 'Inclusive Growth – China and India' at University of Sydney International Workshop in October 2011.

Invited Lectures by Faculty

Dr N Rajesh, Department of Chemistry, presented an invited talk on 'Emerging Trends in the Application of Biopolymer Composites' at the National Conference on Advanced Nanomaterials, Periyar University, Salem, in February 2012.

Dr N Rajesh, Department of Chemistry, presented an invited talk on 'Polymeric Composites and their Relevance in Environmental Remediation' at the National Seminar on New Frontiers in Scientific Research, Andhra Loyola College, Vijayawada, February 2012.

Dr N Rajesh, Department of Chemistry, presented an invited talk on 'Tailored Polymeric Sorbents for Environmental Remediation of Heavy Metals' at the 3rd International Conference on Natural Polymers, Bio Polymers (ICNP 2012), Kottayam, in October 2012.

Dr K Sumithra, Department of Chemistry, presented an invited talk on 'Adsorption and Recognition of Copolymers on Chemically Patterned, Heterogeneous Surfaces' in the Third International Multicomponent Polymer Conference – IMPC 2012, 23-25 March, organized jointly by RMIT Australia and MG University Kottayam, Kerala.

Dr K Sumithra, Department of Chemistry, presented an invited talk on 'Selective Adsorption of Copolymers on Patterned Surfaces' at the 3rd International Conference on Natural Polymers, Bio Polymers (ICNP 2012), Kottayam, in October 2012.

Dr Ramakrishna Vadrevu delivered a lecture on 'Folding and Mis-Folding of a 29kDa TIM Barrel Protein: Free Energy

Invited Lectures by Faculty

Landscape Perspective from NMR Spectroscopy' on 1 June 2011 at UNESCO Regional Centre for Biotechnology, New Delhi.

Dr Palash Mandal delivered a lecture on 'Alcoholic Liver Disease and Anti-Inflammatory Pathways' on 20 December 2011 at Bioscience and Bioengineering Department, IIT, Bombay

Dr Balaji Krishnamurthy was invited to IIT Hyderabad in March 2011 to talk about 'Direct Methanol Fuel Cells'.

Prof N Rajesh, Head, Department of Chemistry, presented a talk on 'Customized polymeric materials for the detoxification of heavy metals at the International Conference on Nanomaterials and Nanotechnology (ICNANO-2011), New Delhi in Dec. 2011

Dr R Krishnan, Department of Chemistry, presented an invited talk on 'Developing Supramolecular Complexes for Light Energy Harvesting and Generation of Hydrogen Fuel from Water' at the National Seminar on Recent Advances in Synthesis and Catalysis' in February 2011 at Dibrugarh University, Assam.

Dr G Geethakumari was an Invited Speaker at a 2-day Workshop on Cloud Computing organized at Vasavi Engineering College, Hyderabad in December 2011.

Dr Chittaranjan Hota delivered an Invited talk on 'Distributed Systems' at SVEC, Tirupati, AP, in September 2011.

Dr Joy Anuradha was invited to conduct a Workshop for 'Better Communication in the Classroom' for school teachers of Jan Peter Memorial School, Oikonomous Ministries, on 4 January 2011.

Dr P Yogeeswari delivered a Guest Lecture on 'Computer-Aided Drug Design: Basic Concepts and Applications' at Lalitha College of Pharmacy, Hyderabad, on 30 June 2011.

Dr P Yogeeswari delivered a talk on 'In-Silico Drug Design as an Emerging Tool for Drug Discovery' at the 'Seminar on Recent Developments in Pharmaceutical Sciences' organized by LV Prasad Eye Institute (LVPEI), Hyderabad on 22 August 2011, during Silver Jubilee year celebrations of the Institute.

Dr P Yogeeswari was an Invited Speaker on 'Targeting Microglial Cathepsin S for Treatment of Neuropathic Pain: Challenges and Drug Design Strategies' at the 'Indo-UK Seminar on Innovative Medicines' organized by DST (India) and Royal Society (UK) on 14-15 November 2011, Hyderabad.

Prof TP Radhakrishnan, School of Chemistry, University of Hyderabad was invited speaker on 'Polymer-Metal nanocomposites, via Chemistry inside a Thin Film' on 4 September 2012.

Prof Suresh Valiyaveetil, Department of Chemistry, National University of Singapore was an invited speaker on 'Synthesis and Characterization of Functional Materials' on 22 September 2012.

Dr Ramesh Adusumalli was an invited speaker at 'National Conference on Recent Advances in Composites (NCRAC 2012)' organized by Fibre Glass Industries Association of Andhra Pradesh and FRP Institute Chennai, 15-16 June 2012 at Hyderabad, on 'Characterization of Natural Fibres for Composite Applications'.

Dr Ramesh Adusumalli was an invited speaker on 'Indo-Danish International Conference on Wind Energy: Materials, Engineering and Policies (WEMEP 2012)', 22-23 November 2012, BITS Pilani Hyderabad Campus.

Dr Karthik Chetan was an invited speaker at 'Indo-Danish International Conference on Wind Energy: Materials, Engineering and Policies (WEMEP 2012)', 22-23 November 2012, BITS Pilani Hyderabad Campus.

Academic Achievements of Faculty

Prof Suman Kapur was appointed the Chair Professor for Biology in the prestigious Shri BK Birla and Sarala Birla Chair Professorships awarded by the Institute.

D Sriram was appointed the Sri BK Birla and Sarala Birla Associate Chair Professor for three years.

Prof D Sriram was awarded the prestigious Shakuntala Amir Chand Prize by the Indian Council for Medical Research during the centenary celebrations in 2011.

Dr Chittaranjan Hota was appointed as a Visiting Professor at Electrical and Computer Engineering Department, University of Cagliari, Italy.

D Jagan Mohan has been awarded TCS PhD Fellowship for 2011-15 on P2P Overlay Security Research.

Dr Chittaranjan Hota, Recipient of Certificate of Excellence in Teaching and Research from KRFEA, BITS Pilani in 2011.

Dr Joy Anuradha has been invited as one of the Subject Experts for the Board of Studies, Department of English, Nizam College, Osmania University in 2011 for a period of two years.

Dr Joy Anuradha was featured as the 'Faculty of the Month' for the December 2011 issue of the online website devoted to faculty development, www.theprofessor.in

Dr I Sreedhar was appointed as External member in the Academic Council of University College of Technology, Osmania University, Hyderabad in December 2012.

Dr Amit Nag and Dr Subhash Ghosal from Department of Chemistry were selected under the scheme 'Bilateral Collaborative Exchange Program by INSA' to visit Germany for three months in 2013.



Significant Projects...

| Principal Investigator | Group | Project Name | Funding Agency | Sanctioned Amount (Rs) |
|---|---------------------|---|------------------------|------------------------|
| Dr G Savitha; BD Gupta, IIT Kanpur | Biological Sciences | Loop Modelling in nucleic acid structure | DBT | 27,77,600 |
| Dr Ramakrishna Vadrevu | Biological Sciences | Exploring sequence and structural features of the catalytic b/x loops in TIM barrel proteins: Implications for protein engineering. | UGC | 8,26,800 |
| Prof Suman Kapur and Dr J Subbalakshmi | Biological Sciences | Developing low cost POC device for detection of blood glucose levels | ICMR | 26,14,000 |
| Dr Vidya Rajesh | Biological Sciences | Molecular studies on T3 binding domain of the thyroid hormone receptors in autistic individuals | DST, New Delhi | 23,74,400 |
| Dr Souri Banerjee and Prof Suman Kapur | Biological Sciences | Site-Specific immobilization of a Single DNA modecule | DAE-BRNS | 19,50,500 |
| Dr Balaji Krishnamurthy and Dr Ramesh Adumasalli | Chemical | Ruthenium Crossover in Direct methanol fuel cells | ABG Group | 12,00,000 |
| Dr Balaji Krishnamurthy | Chemical | Mathematical modeling of lithium ion batteries | BITS Pilani Seed Grant | 2,00,000 |
| Dr Asma Ahmed | Chemical | Biotech Consulting | Consultancy | 60,00,000 |
| Dr KVG Chandra Sekhar | Chemistry | Synthesis and Pharmacological Evaluation of Various Indole Analogues for the Treatment of Schizophrenia | DST, New Delhi | 18,28,000 |
| Dr KVG Chandra Sekhar | Chemistry | Synthesis and Pharmacological Evaluation of Bishomo (hetero) arylpiperazines as atypical antipsychotic agents | UGC, New Delhi | 6,44,000 |
| Dr Anupam Bhattacharya | Chemistry | Synthesis of some selected nitrogen based heterocycles as potential anti tubercular agents | DST, New Delhi | 18,78,000 |
| Dr K Sumithra | Chemistry | Adsorption and freezing of heteropolymers on disordered surfaces: a model for biomimetic recognition' | DST, New Delhi | 33,60,000 |

| Principal Investigator | Group | Project Name | Funding Agency | Sanctioned Amount (Rs) |
|------------------------|--|--|------------------------|------------------------|
| Dr R Krishnan | Chemistry | Developing supramolecular complexes for solar energy conversion and hydrogen generation | BITS | 13,80,000 |
| Dr Manab Chakravarty | Chemistry | Investigations on synthetic and catalytic reactions of unsaturated organophosphonates with oxaziridines | DST, New Delhi | 19,93,000 |
| Dr R. Srinivasan | Chemistry | Novel synthetic approach to p-type (Nano) Transparent Semiconducting Oxides of Delafossite type structure by soft chemistry routes and the study of their properties | DST, New Delhi | 21,80,000 |
| Dr J Subbalakshmi | Chemistry | Optical and semiconducting molecular materials based on tetrathiafulvene, tetracyanoquinodimethane and their polymer templates | DST, New Delhi | 22,25,000 |
| Dr KVG Chandra Sekhar | Chemistry | Synthesis and Pharmacological Evaluation of Bishomo (hetero) arylpiperazines as atypical antipsychotic agents' | UGC | 6,44,000 |
| Dr Chittaranjan Hota | Computer Science and Information systems | Efficient Peer-to-Peer Overlay Infrastructure for Secure Computing over the Internet, | UGC, New Delhi | 10,38,000 |
| Dr Chittaranjan Hota | Computer Science and Information systems | Automated Detection of Security and Privacy Threats in Peer-to-Peer Networks, | DIT New Delhi | 61,95,000 |
| Dr Meera Lal | Economics, Humanities and Languages | 'An Evaluation of Development policies for Tribal's in Andhra Pradesh and Gujarat' | ICSSR | 10,00,000 |
| Dr Y Yoganandam | Electrical and Electronic Engineering | Design of sharp linear phase digital filter design | Powerwave Technologies | NIL |

...Significant Projects

| Principal Investigator | Group | Project Name | Funding Agency | Sanctioned Amount (Rs) |
|-----------------------------|---------------------------------------|---|-------------------------------------|------------------------|
| Prof MB Srinivas | Electrical and Electronic Engineering | Variable data rate digital demodulator for 64 QAM on Virtex-5 SPGA | DLRL | 10,00,000 |
| Dr PK Sahoo | Mathematics | Study of cosmological models in bimetric theory of gravitation | UGC | 1,80,000 |
| Dr Amit Gupta | Mechanical Engineering | 'Higher Temperature Tensile Testing on Special Sheet Steel Materials' | BARC Young Scientist Research Grant | 11,60,000 |
| Prof SP Regalla | Mechanical Engineering | 'Rapid Incremental Forming of Extra Deep Drawing (EDD) Steel Sheet Metal Parts With Asymmetric Geometry'. | UGC Major Research Project | 9,73,000 |
| Dr N Suresh Kumar Reddy | Mechanical Engineering | 'Environmentally sustainable micro-lubrication in machining'. | ABG Research Seed Grant | 11,00,000 |
| Dr D Sriram | Pharmacy | Isocitratelase Enzyme as Target in Persistent Mycobacterium tuberculosis Infection: Synthesis of 2-Arylthiazolidine-4-carboxylic acid and 5-Nitro-2-furoric acid Derivatives and its Antimycobacterial Evaluation | UGC | 10,22,000 |
| Dr D Sriram | Pharmacy | Design and synthesis of inhibitors of various enzymes of mycobacterium tuberculosis like DNA gyrase and topoisomerase-I | DBT Centre of Excellence Project | 39,56,000 |
| Dr D Sriram | Pharmacy | Structure-guided Design of New Antibacterial Agents against Dormant Mycobacterium Tuberculosis | DBT Indo-Sweden joint project | 64,64,000 |
| Dr D Sriram | Pharmacy | Development of novel dnagyrase inhibitors against mycobacterium tuberculosis and other non-tuberculosis mycobacterial infections | CSIR | 16,76,000 |
| Dr Sriram and Dr Yogeeswari | Pharmacy | Development of Library of Heterocyclic Compounds for the Treatment of Tuberculosis - Multi-Drug resistant tuberculosis and persistent tuberculosis. March 2011 | ICMR | 23,80,000 |

| Principal Investigator | Group | Project Name | Funding Agency | Sanctioned Amount (Rs) |
|-------------------------------|----------|--|---|------------------------|
| Dr D Sriram | Pharmacy | Development, synthesis and testing of novel anti-HIV drugs | DST Indo-Brazilian-South Africa project | 65,00,000 |
| Dr D Sriram | Pharmacy | ICMR project on Development of Novel IsocitrateLyase Inhibitors for the treatment of Persistent Tuberculosis. May 2011. | ICMR | 15,00,000 |
| Dr D Sriram | Pharmacy | Development of drug for latent phase of tuberculosis | ICMR | 15,00,000 |
| Dr D Sriram | Pharmacy | Development of new chemical entities for the treatment of Tuberculosis | Astra Zeneca, Bangalore | 10,00,000 |
| Dr Sriram and Dr P Yogeeswari | Pharmacy | Development of antiepileptic leads to suppress hippocampal epileptic seizures | DST Indo-Ukraine Joint Project | 10,00,000 |
| Dr P Yogeeswari | Pharmacy | Discovery of novel modulators of nad(+) dependent protein deacetylase sirt1 for the treatment of various human disorders | DBT | 30,00,000 |
| Dr P Yogeeswari | Pharmacy | Structure-guided design of novel non-peptidicnoncovalent selective inhibitors of the spinal microglial cathepsin s for the treatment of neuropathic pain | DBT Neuro research project | 31,54,000 |
| Dr P Yogeeswari | Pharmacy | Drug discovery of inhibitors of the protease of peripheral macrophages and microglial cells in the spinal cord for the treatment of neuropathic pain | DST | 35,06,000 |
| Dr D Sriram | Pharmacy | Structure Based Rational Design and Synthesis of Mycobacterium tuberculosis PantothenateSynthetase Inhibitors | DST | 23,80,000 |
| Dr Punna Rao | Pharmacy | Design, characterization and pharmacokinetic evaluation of nanocarriers for antiretroviral drug delivery | DST Fast track for young scientists | 23,82,000 |

...Significant Projects

| Principal Investigator | Group | Project Name | Funding Agency | Sanctioned Amount (Rs) |
|--------------------------|----------|--|-----------------------------|------------------------|
| Dr Punna Rao | Pharmacy | Design, pharmacokinetic and pharmacodynamic evaluation of nano carriers for SERMs delivery in effective treatment of post-menopausal osteoporosis | UGC Major Research Project | 7,83,000 |
| Dr V V Vamsi Krishna | Pharmacy | Development and Characterization of Polyelectrolyte Nano-Capsules for Topical Delivery of Drugs | Research Initiation Grant | 2,00,000 |
| Dr P Yogeeswari | Pharmacy | DST-FIST project; Department of Pharmacy project | DST-FIST | 60,00,000 |
| Dr Harihara Venkataraman | Physics | Investigation into the influence of rare earth ion doping on structural and dielectric properties of layered ferro-electric ceramics by adopting molten salt synthesis route | DST (Fast Track) | 20,00,000 |
| Prof Souri Banerjee | Physics | Site specific immobilization of a single DNA molecule | Dept of Atomic Energy BRNS: | 20,00,000 |

In Print – Books Published

- Book Chapter only: RB Adusumalli, B Kombaiah, W Mook, R Passas, R Raghavan, J Michler (2011). Nano- and Micro-mechanics of Single Wood Pulp Fibres. Book Chapter. In Fine Structure of Papermaking Fibres, COST Action E54 'Characterisation of the fine structure and properties of papermaking fibres using new technologies'. Eds: Ander P, Bauer W, Heinemann S, Kallio P, Passas R and Treimanis A.
- **Dr N Rajesh** reviewed a book chapter on **X-Ray Photoelectron Spectroscopy: A Tool for Studying Biopolymers'** by Wiley Interscience Publications

Joining Hands for Future Research

Incozen therapeutics Pvt Ltd and BITS Pilani Hyderabad Campus have signed a research agreement for a project sponsored by the Industry to develop Anti-Inflammatory Leads by the Drug Discovery Research Group of Department of Pharmacy. Dr P Yogeeswari and Dr D Sriram would coordinate the project, which involves rational drug design of leads based on new protein targets that mediate inflammation.

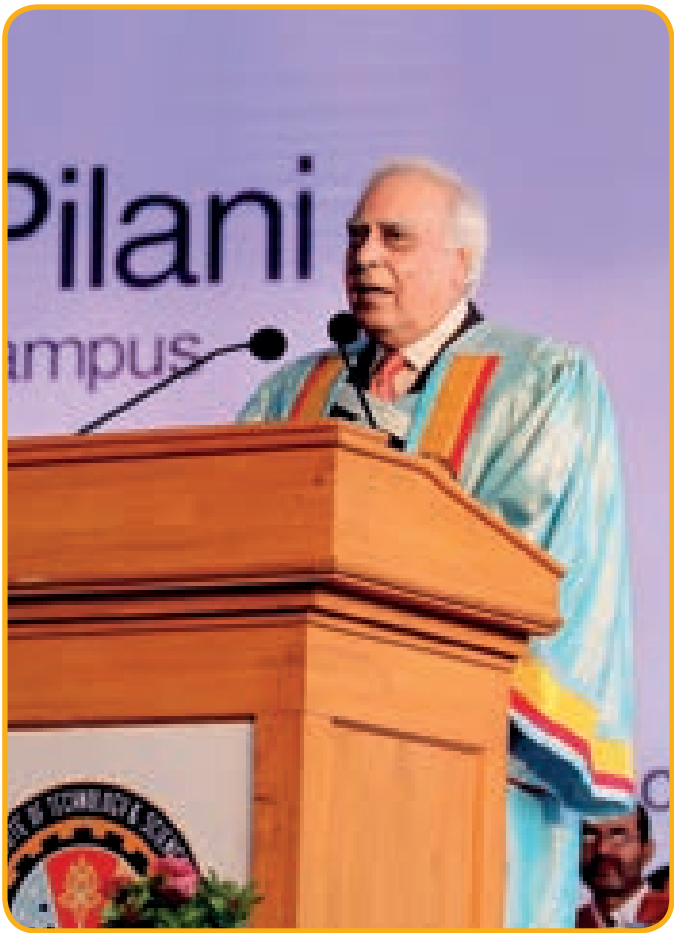
First Convocation...



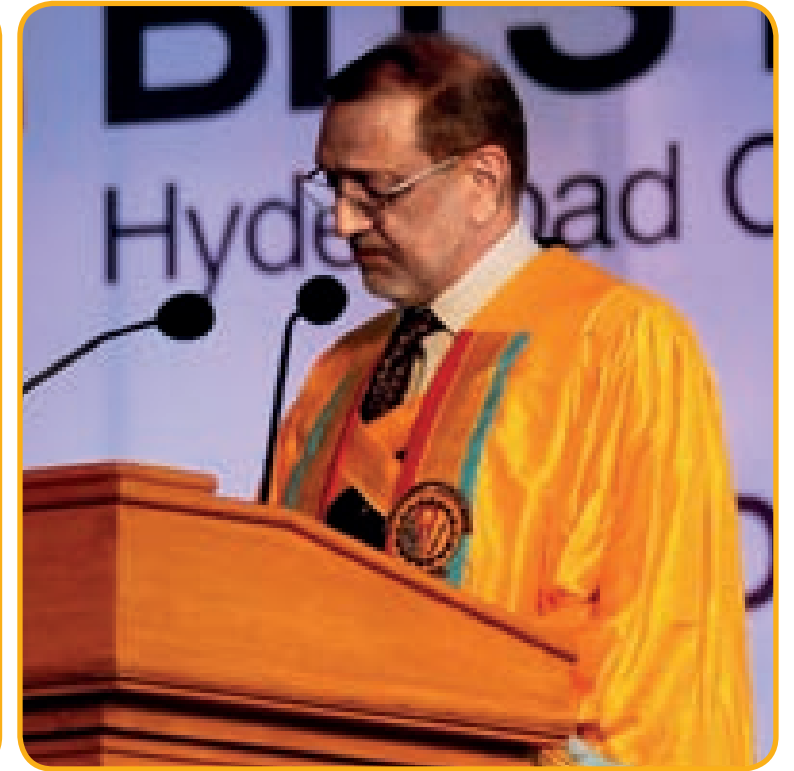
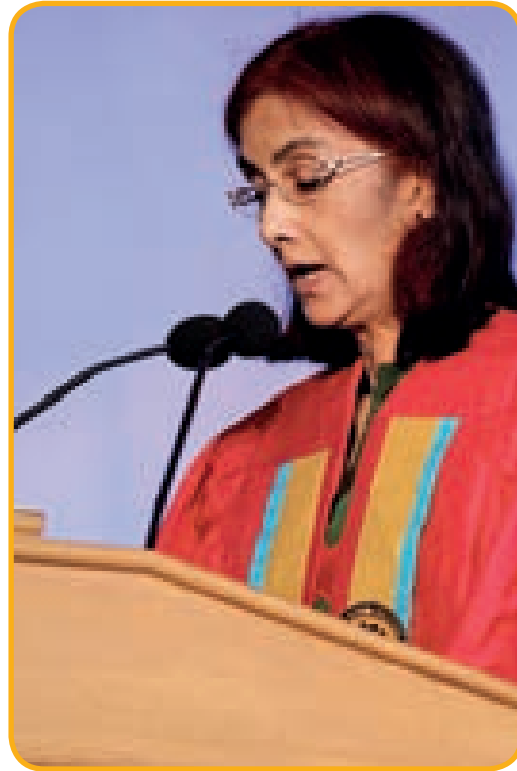
BITS Pilani Hyderabad Campus held its first convocation on 12 August 2012. Nearly 413 graduates and post graduates from various streams of engineering and sciences were awarded degrees at this convocation. Sri Kapil Sibal, Hon'ble Minister of Human Resource Development and Information Technology, was the Chief Guest. In his convocation address, he emphasized the importance of frugal innovation by scientists and technologists. Congratulating the passing out batch of students, he said that they are among the fortunate 2% of graduates in India who get to study in topnotch institutions like BITS Pilani and reminded them of their responsibility towards the ones who did not have such privilege of pursuing higher education.

Dr Kumar Mangalam Birla, Chancellor, BITS Pilani presided over the convocation ceremony. He congratulated the graduating students and advised them to do things differently, to do them well and with a concern for the wellbeing of their fellowmen. He also encouraged the graduating students to follow and fulfill their dreams. Smt Manjushree Khaitan, a member of the Board of Governors also addressed the students.

The Vice Chancellor, Sri BN Jain presented a report on BITS Pilani and its four campuses highlighting the achievements and its future plans. He said that in the next decade, BITS aspires to be among the top 25 technical universities in Asia. He enumerated the initiatives taken by the institution in this direction.



...First Convocation



Prof VS Rao, Director of BITS Pilani Hyderabad Campus, recollected the memorable journey of the students, faculty and all the members of the BITS family involved in building this institution in the last four years. He presented a brief history of the campus and the achievements of the students and faculty.

Four distinguished alumni awards were conferred for the year 2012 in recognition of their outstanding contributions, academic excellence, entrepreneurship and professional management. The awardees are Dr Krishna Saraswat, Stanford University, Prof Narendra Ahuja, University of Illinois, Sri Prem Jain, Senior Vice President, CISCO and Dr Surendra Pal, Chair Professor, ISRO Bangalore and Advisor to Satellite Navigation Program.

Prof DM Kulkarni was awarded the Faculty Excellence Award and Dr Amit Kumar Gupta received the Certificate of Appreciation among the faculty members working in the three campuses.

A number of dignitaries from academia, industry, administration and alumni along with proud parents and ecstatic students receiving the degrees were present on this occasion.

Ms Chandralekha Motati of Computer Science was awarded the Gold Medal; Mr Varikuti Sainath of Mechanical Engineering was awarded the Silver Medal and Ms Sheetal Jagdish Saraogi of Computer Science was awarded the Bronze Medal for the best academic performance.



PEARL: The Cultural Fervor

PEARL has arrived on the scene with a bang. It carved for itself a place among the best festivals in the country. PEARL 2012 was a success on many fronts. The amazing footfall is a testament to the brand that PEARL has become. The diversity of the crowd is a proof of the reach that brand PEARL has achieved. The large scale publicity customized to meet the needs of each of our sponsors makes it one of the most sought after festivals which sets it leagues apart from the competition. The goal of the PEARL organizing team has been and always will be to create and sustain a world class festival with a conducive environment in which our sponsors' needs are always met. PEARL 2012 has set a benchmark for all future college festivals in terms of the efficiency with zero compromise on quality of the festival. Everyone who participated in the festival has gained manifold from it, be it the participants from the various national colleges or the sponsors. The technical finesse of our college, along with the strong culture associated with brand 'BITS' are key factors which make PEARL so unique. The drive to take this festival to greater heights stems from the culture that is imbibed in every BITSian.

Regional Diversity

With PEARL 2012 expanding its brand at a national level in its second successive year, the extensive publicity and varied range of technical and cultural events managed to bring together a decent group of around 1800 people from outside Hyderabad that constituted about 30% of the fest's footfall.

Proshow Success Story

The exponential growth of PEARL has parallely grown the reputation of BITS Pilani Hyderabad campus to be a host of entertaining and value-for money pro-shows, vibrantly ranging from classical maestro Ghatam Karthick's elegant

performance at the inauguration to the high-spirited live-in concert of the progressive metal band Thurisaz. The crowds, at PEARL 2012 also swooned to the melody of Benny Dayal and grooved to the charms of the duo Ela Rose and David DeeJay.

PEARL 2011 was conducted in BITS Pilani Hyderabad campus from 10 to 13 February 2011. More than 2500 students from 70 colleges from all over the country participated in the cultural festival. PEARL 2011 was the first time that this festival was thrown open to students across the country. Last year, only students from colleges in and around Hyderabad had participated.

PEARL 2011 was inaugurated by Dr Roseann O'Reilly Runte, the President and Vice-Chancellor of Carleton University, Canada. The festival was organized by the Students Union of BITS headed by the President, Mr AbhinayTeja, and the General Secretary, Mr K Sai Surya, with support from students, faculty and staff.

A unique feature of this event was the semi-professional rock competition, 'Till Deaf Do We Part'. The preliminary rounds for this event were held in almost all the big metropolitan cities in India and the final round was held all through the night of February10, 2011.

The professional performances by the melodic death metal band from Gothenburg, Sweden, 'Dark Tranquility' and by the Pakistani band 'Strings' were big crowd-pullers.

PEARL was billed as a 72-hour non-stop event and many of the events were held throughout the night as a testimony to the enthusiasm and energy of our students. The classical performance by Mr Anil Srinivasan and Sikkil Gurucharan was widely appreciated by one and all. The fashion parade was another popular event. In all, PEARL 2011 was a grand success and might soon be comparable to 'Oasis' and 'Waves'.

We hope that more and more people can come and be part of this grand festival and carry back memorable moments in the years to come.



BITSMUN: Brainstorming on Issues that Matter

BITSMUN (BITS Model United Nations) was organized from 5 to 7 February 2011. BITSMUN is conducted every year in all the campuses of BITS. Sri Ponnala Lakshmaiah, Minister for Information Technology, Government of Andhra Pradesh was the Chief Guest for the event. BITSMUN attracted participants from the other BITS campuses, colleges and universities spread all over the country.



Engineer's Day

The 45th Engineer's Day was celebrated at BITS Pilani Hyderabad Campus on 15 September 2012 with a lot of dedication and technical fervor. As is known, the birth date of illustrious engineer son of India, Sir Mokshagundam Visvesvarayya, is celebrated as 'Engineer's Day' in all Engineering Universities and industrial organizations in India and even abroad.

The topic for the 2012 Engineer's Day was 'Appropriate Climate-Responsive Technologies for Inclusive Growth and Sustainable Development', on which paper writing and presentation competition was conducted for students of the Institute.

There was a huge response and twelve students were shortlisted for presentation. The best three performers were given mementoes and certificates whereas all the remaining students who presented got participation certificate. Mr L Dhananjaya, Executive Director (D&E) was the Chief Guest and Prof VS Rao, our Director was the patron of the event.

The event was coordinated by Prof SP Regalla, Prof KS Raju and Prof Yoganandam, and was exceptionally anchored by Mr Vavilala Sriharsha, a second year BE (Hons) student.



National Service Scheme

Three units of National Service Scheme are functional on BITS Pilani Hyderabad Campus. Currently, there are 300 volunteers consisting of 174 boys and 126 girl students. Our Director, Prof VS Rao is the Chairman of the NSS team and there are three Program Officers one each for a unit as follows. Unit I: Dr P Sankar Ganesh, Unit II: Dr N Jalaiah and Unit III: Dr Joy Anuradha. Dr P Sankar Ganesh also serves as the Program Coordinator.

NSS Activities

- Villages/ slums adopted: 4 (Thimmapur, Devar Yemjal, Pothaipally, Thumkunta) (200 volunteers)
- Villages adopted for literacy: 3 (Thimmapur, Devar Yemjal & Workers' Colony) (290 volunteers)
- Tree saplings planted: 550 (BITS Pilani Hyderabad Campus and Thimmapur) (200 volunteers)
- Immunization camps conducted: 2 (BITS Pilani Hyderabad Campus) (50 volunteers)
- Blood donation camps conducted: 4 (348 units of blood was donated) (450 volunteers)
- Health Camps: Fluorosis check-up at Thimmapur (50 volunteers); general health camp at Devar Yemjal) (35 volunteers).
- Awareness on dowry and child marriage: 1 (Thimmapur) (70 volunteers)
- Work in orphanages & old age homes: 12 (Alwal, Shameerpet, Patny, Kukatpally, Ranigunj, Malakpet)
- NSS Special Camp Program: 3 Camps at Thimmapur Village, Nalgonda District: (145 volunteers) 3 Camps at Dever Yamjal Village, Ranga Reddy District: (150 volunteers)
- NSS Project Type Course: 3 credit project type course for NSS volunteers (Study/Lab/Computer Oriented Projects) (Open only to eligible NSS volunteers)
- IGNITE – Educating the children of construction workers at BITS Pilani Hyderabad Campus: 1 February 2011
- PEARL '11: Carbon footprint free annual cultural fest: 12-14 February 2011
- Banning of plastic carry bags at BITS Pilani Hyderabad Campus: From 1 March 2011
- International Women's day was celebrated on 8 March 2011 at BITS Pilani Hyderabad Campus
- Earth Hour was held at BITS Pilani Hyderabad Campus on 26 March 2011
- Hosting specially abled students from Masoom Duniya, Delhi: 18-22 April 2011
- Independence Day celebrations in coordination with Community Welfare Division: 15 August 2011
- Signature Campaign to support Sri Anna Hazare: 18 August 2011
- Mass tree plantation on World Ozone Day: 16 September 2011
- Orientation and review meeting for NSS volunteers: 20 September 2011
- National Service Scheme Day celebrations: 24 September 2011
- Gandhi Jayanti celebrations in coordination with Community Welfare Division: 2 October 2011
- 'Sahara' Initiative to collect used clothes and stationery: 20-21 October 2011
- Camp for Pledging Eye Donation: 12-13 November 2011



Meaningful Campus Life: Community Welfare Unit

The Community Welfare Unit (CWU) coordinates the welfare and recreational activities of the students and staff members of the Institute. In 2011, more consultants in specialized fields visited the medical centre regularly. Efforts were made to outsource the diagnostic needs of the campus residents and students by having trained staff visit the medical centre every morning to collect samples.

The New Year 2011 celebrations organized by the CWU included lunch and party games. Independence Day and Republic Day celebrations were also organized by the CWU. Diwali Milan was organized on 27 October 2011, where children and adults showcased their talents. Various competitions, fun games and a magic show were held for children as part of the Children's Day 2011 celebration. Along with NSS, CWU organized competitions in the children's park on 20 November 2011 to spread environmental awareness. Professionals keep visiting the campus to teach instrumental music, Carnatic music, Dance, Yoga and Karate. Jain Heritage International School opened a playschool and kindergarten in the campus to cater to the needs of the community.

Scholarships: Encouraging the Efforts of Students

The following scholarships are availed by the students of Hyderabad campus for this academic year:

- Ashok Agarwal Scholarship – 2 students
- Angiras Foundation Scholarship – 22 students
- Merit Scholarship – 45 students
- Merit-cum-Need Scholarship – 300 students
- DAAD Scholarship – 4 students

Towards Better Society and Environment

- There are many social organizations actively working on campus like NSS, Nirmaan, Yuva and Urja.
- We have various on-campus events like Clothes Donation, Tree Plantation, Blood Donation and Campus Clean-up programs.
- 5000 saplings were planted on campus as part of the Tree Plantation program which was conducted by HMRDA (Hyderabad Metro Railway Development Authority) in December 2011.

Guest Lecture Series

- Guest Lecture on 'Entrepreneurship as a Career' was conducted by Alumni Affairs unit
- Guest Lecture on 'Occupational Health Hazards'
- Guest Lecture on 'Challenges in Opportunities with Current Generation of Poorly Soluble Drugs' was conducted by Pharma Alumni
- Guest Lecture on 'Implications for Structure-Based Drug Design' was conducted by Pharma Alumni

Student Welfare Division: Fostering Cultures and Talents

The campus has been bustling with activities of various clubs and associations in which students take an active part. Apart from the clubs given below, there are regional associations which depict their unique culture and tradition through various regional celebrations.

SHADES Club (No. of members: 85)

- **Introduction:** Shades is the official arts club of BITS Pilani Hyderabad Campus. The Club provides a forum and meeting place for all those interested and involved in arts. It promotes fine art, digital art and sculpting amongst students.
- **Objectives:** The club aims at conducting a number of workshops for members as well as non-members on painting, sketching, sculpting and digital art at regular intervals. The club's other major work is decorating the campus during special occasions such as festivals.
- **Regular events:** Decorating the campus for all important occasions, adding colour to the festivals celebrated on campus, conducting workshops throughout the year in various fields of arts and organizing competitions which are both formal and informal.

JOURNAL Club (No. of members: 37)

- **Introduction:** Journal club is the only club on campus which gives the students in depth technical knowledge of various branches through its magazine and newsletters.
- **Objectives**
 - To have a regular technical magazine in the college that imparts information about technical events and through which experiences of past events organized by various associations of the different disciplines in BITS Pilani Hyderabad Campus are shared.
 - To share those aspects of the field which the students are not aware of.
 - To provide the students a proper platform to share their technical knowledge with the campus so that everyone can benefit.
 - To share experiences of faculty with students and help to reach out to all students about topics not discussed in classrooms and to those who have not been able to take up a specific course.

- To update students about latest developments and research in the world in their related disciplines
- **Regular events:** Release of the technical magazine and newsletter every semester, conducting competitions on the basis of advancing technology.

DANCE Club (No. of members: 50)

- **Introduction:** Dance Club is the group of students that brings to stage mesmerizing dance performances and brings alive the campus with its enthralling dance moves.
- **Objectives**
 - To gather the best and most talented dance enthusiasts in the college
 - To form a group that is proficient in all dance forms.
 - To be able to learn as well as teach the fellow partisans different forms of dances and become the best group of dancers!
- **Regular events:** Performances during major events in the campus, Dance Nights, organizing competitions for club members as well as non-club members.

MUSIC Club (No. of members: 45)

- **Introduction:** Music club is the spectrum of people trained in various instruments and genres of vocals, is dedicated to harmoniously blending these elements to put forth a spectacle of performances.
- **Objectives**
 - To keep up our aim of spreading music.
 - To learn music and propagate it in the campus.
- **Regular events:** Performances during major events in the campus, Western and classical music nights, competitions of various sorts.

VFX Club(No. of members: 60)

- **Introduction:** A club which creates wonders in the digital world using their creativity and skill. From young spirited film makers to the technical crew and cinematographers, the club covers all the areas of film making and animation industry.
- **Objective:** To provide a path to interested animators and video editors. The teaching and learning is through practical approach. Specializes in 3d modeling, animation, composting and video editing.
- **Regular events:** Workshops on various softwares like Adode After Effects, Premier Pro, Sony Vegas, Blender, Maya and many more, assistance to short film makers on campus, various competitions for short movies.

DRAMA Club (No. of members: 55)

- **Introduction:** The most sought-after club for their stunning performances on stage, the Drama club boasts of a remarkably unique way of expression of the message and content.
- **Objectives:** Drama club believes that laughter is the best medicine and, when combined with creativity, creates magic. The club aims at promoting various forms of expression like stage play, mime, spoof and many more.
- **Regular events:** Wide-ranging performances from serious stage plays to comic mimes, Formal and informal competitions like mad ads, channel surfing, etc.

ELAS (No. of members: 59)

- **Introduction:** English Language Activities Society (ELAS) is a literary body which encourages the genuine literary skills and interests of the students. ELAS is named a club and is one among the many active clubs functioning under the Student Union.

▪ **Objectives**

- To create a literary environment on campus and to provide a platform where students can exhibit their literary talents.
- To encourage students to shed their inhibitions and participate in campus activities and events.
- **Regular events:** ELAS conducted various events during Fervour 2011 and Shangri La 2011. The club also organizes literary fest of BITS Pilani Hyderabad. Verba Maximus, an inter-college level fest, was initiated by the ELAS members and saw all the eminent colleges of Hyderabad cometo participate.The other things in which ELAS is involved is their newsletter, 'The Quill', which briefs the college about the regular activities of the club.
- Other activities conducted by ELAS include Debate (trademark event), JAM (just a minute), SPELL BEE, Perspective Writing and Group Discussions.

PHOTOGRAPHY Club (No. of members: 55)

- **Introduction:** The club is responsible for the everlasting memories of the college life. Be it a festival, event or campus itself, they come back to life with the captures of photography club.
- **Objectives:** The main aim of the club is to show people what the world is through the lens of a camera.
 - To develop quality photographers and encourage the amateurs in photography.
 - To cover the majors events going on in the campus and preserve them.
 - To improve innovation in photography.
- **Regular events:** Covering all the events in campus, workshops on photography, field trips of photography, and various competitions.

Sports Activities

Students have shown great enthusiasm in making use of the sports facilities provided on campus. Each hostel has facilities for indoor games like table-tennis, chess and caroms. There are two badminton courts and grounds for volley-ball, football and cricket. The Physical Education Department has been conducting friendly matches among the hostel Bhavans and inter-discipline teams apart from invitational competitions with other institutions like IIT Hyderabad, CBIT, etc.

The Student Activity Centre consists of a state-of-the-art gym. The Boys section is equipped with strength gaining single and multi-sections machines, electrical trainers and treadmills, while the Girls section consists of Cardio Fitness machines, including electrical trainers and treadmills. Two badminton courts with maple wood flooring, five table tennis tables, 16 carom boards, 30 chess sets and three Pool Tables are available at Student Activity Centre. Apart from indoor games, two Basketball and two Lawn Tennis Nova acrylic cushion surface courts are also available with chain link fencing and flood lights.

Creative Zone – SPICMACAY

The Society for Promotion of Indian Classical Music and Culture Amongst Youth (SPICMACAY) started its BITS sub-chapter in August 2009, and there has been no looking back ever since. The Chapter has played host to the best of India’s classical musicians and dancers, including Sangitha Kalanidhi Sri TN Krishnan, the legendary dance duo Radha and Raja Reddy, and the acclaimed Hindustani vocalist Sri Sanjeev Abhyankar.

Through eight concerts and lecture demonstrations since the chapter opened, SPICMACAY has reached out to more than 1000 students and members of the BITS community. It has sparked an interest throughout the community in classical music and dance.

Future planning includes holding a week-long intensive concert series called 'Viraasat', and overnight concerts to engage a much larger audience.

Accolades and Student Round-Up

- The first PhD was awarded to Shipra Mehra in April 2011 from this campus which started only in June 2008.
- Madhu Poornima P. presented a research paper at the European Human Genetics Conference held at Amsterdam, The Netherlands in May 2011.
- Matthew John (M.Sc Bio. Sc – 2009) won the third position at the prestigious Mimamsa Inter-College Science Quiz conducted by IISER Pune
- In BOSM-2010, Varun Soni, 2010A2PS484H, won the Gold Medal; the Chess (Men) team won the Silver Medal and the Caroms (Men) team won the Bronze Medal.
- PrateekTiwari and Bhanu Gupta, final year students of Chemical Engineering, have been awarded the Manikantha Scholarship.
- Nikunj Dudhani received DAAD scholarship for doing internship at Germany.
- Anuradha Pal was awarded the Canadian Commonwealth Scholarship for working at Concordia University, Montreal in the laboratory of Dr Barbara Woodside. Anuradha Pal presented a research paper in the SFN-2011 conference held at Washington DC in November 2011.
- Mr M Siddarth Sai, third year B.Pharm student, was awarded the 'Best paper Award' in the Medicinal Chemistry Section for his paper titled 'Design, synthesis and in-vitro evaluation of novel piperido-hydrazine derivatives as potential anti-tubercular agents' in theMedChem-2011 Conference on Anti-infective drug Discovery & Development, October 2011, Indian Institute of Technology, Chennai.
- Ms A Monika, third year B.Pharm student, was awarded the Second Best Paper Award in the Medicinal Chemistry Section at the 63rd Indian Pharmaceutical Congress 2011 held in December 2011 at Bangalore, for her paper titled 'One pot synthesis of novel substituted

1,3-thiazinylisonicotinamides, in-vitro evaluation and pre-pharmacokinetic profile studies for the treatment of tuberculosis'.

- Ravikiran, third year B.Pharm student, was awarded the 'Best Paper Award' in the Pharmacology Section at the 63rd Indian Pharmaceutical Congress 2011 held in December 2011 at Bangalore, for his paper titled 'Prediction of bioactivity and toxicity of BITS Database compounds using empirical and focused scoring techniques'.

Other Highlights

- The student union elections are being conducted by the Election Commission members of the student council to elect the office bearers for every academic year.
- Students represented Hyderabad Campus at different youth festivals like OASIS, WAVES and BOSM and won prizes in various categories.
- Important community festivals like Ganesh Chaturthi, Durga Puja and Diwali were celebrated with great enthusiasm. Various cultural activities were organized as part of the festivities.
- Mini-Tech fest was organized in November 2011, where events like economics quiz, general quiz and line-follower competition were organized.
- Network programming professional certification course was conducted by CSIS Association.
- Students came up with the third issue of the annual magazine, 'ON.THE.ROCKS.' which showcased their creative abilities.

Introducing New Faculty (April 2011 - December 2012)...

| Name of the Faculty | Designation | Group | Research Area |
|-------------------------|------------------|--|---|
| Abhishek Kumar Thakur | Visiting Faculty | Computer Sciences & Information Sciences | Computer Networks |
| Akhilad Iqbal | Visiting Faculty | Mathematics | Differential Geometry and Optimization |
| Alivelu Manga Parimi | Asst. Professor | Electrical & Electronics Engineering | FACTS, Power System Stability |
| Amit Nag | Asst. Professor | Chemistry | Physical chemistry, laser spectroscopy, Scan probe microscopy |
| Aruna Lolla | Asst. Professor | Economics, Humanities & Languages | Communication Skills and English Language |
| Asma Ahmed | Asst. Professor | Chemical | Biochemical Engineering, Bio-fuels, Bio-pharmaceuticals |
| Asrarul Haque | Asst. Professor | Physics | Quantum Field Theory & Particle Physics |
| Chandu Parimi | Asst. Professor | Civil | Computational Mechanics and Structures |
| Chetan Kumar Vudadha | Lecturer | Electrical & Electronics Engineering | VLSI and Microelectronics. |
| Debashree Bandyopadhyay | Asst. Professor | Biology | Computational Structural Biology |
| Durgesh Chandra Pathak | Asst. Professor | Economics, Humanities & Languages | Development Economics |
| Gokul Kannan Sadasivam | Lecturer | Computer Sciences & Information Sciences | Security Services & Systems |
| Haripriya T | Lecturer | Electrical & Electronics Engineering | Power Systems |
| Karthik Chetan V | Asst. Professor | Chemical | Materials science, Biomaterials, Nano Science, Materials Characterization |

...Introducing New Faculty (April 2011 - December 2012)

| Name of the Faculty | Designation | Group | Research Area |
|------------------------|------------------|--|---|
| Manish Kumar | Asst. Professor | Mathematics | Analysis and Applications |
| Maya Vinai | Lecturer | Economics, Humanities & Languages | Indian English Fiction and Post Colonial Studies |
| Meera Lal | Visiting Faculty | Economics, Humanities & Languages | Teaching and Research Economics Social Sector Banking |
| Naga Mohan Kommu | Asst. Professor | Biology | Molecular Genetics & Epigenetics |
| Nitin Ramesh Kotkunde | Lecturer | Mechanical | Design Engineering and Material Testing |
| Olympia Bhatt | Lecturer | Economics, Humanities & Languages | Cinema Studies |
| Povar Digambar | Lecturer | Computer Sciences & Information Sciences | Information Security |
| Prasant Kumar Pattnaik | Asst. Professor | Electrical & Electronics Engineering | Photonics & MEMS |
| Rahul Nigam | Asst. Professor | Physics | Astro Physics (Galaxy formation), Gravitation |
| Raja Raja Varma Murari | Asst. Professor | Civil | Water Resources |
| Ramakrishnan Ganesan | Asst. Professor | Chemistry | Material Chemistry |
| SS Deshmukh | Asst. Professor | Mechanical | Renewable Energy and Planning |
| Sashideep Gutti | Asst. Professor | Physics | Quantum Gravity |
| Sarmistha Banik | Asst. Professor | Physics | Nuclear Astro Physics |

| Name of the Faculty | Designation | Group | Research Area |
|-----------------------|------------------|--|---|
| Shamuel Tharu | Visiting Faculty | Economics, Humanities & Languages | International Relations Political Science |
| Shiv Chaitanya KVS | Asst. Professor | Physics | Quantum Optics & Quantum Information, Cosmology, Field Theory |
| Sounak Roy | Asst. Professor | Chemistry | Material Chemistry and Catalysis |
| Sridev Mohapatra | Asst. Professor | Biology | Plant Molecular Biology and Biochemistry |
| Srikanta Dinda | Asst. Professor | Chemical | Chemical Reaction Engineering and Petroleum Refining |
| Srinivas Sajja | Asst. Professor | Economics, Humanities & Languages | Policy and Development Studies |
| Subha Mada | Lecturer | Electrical & Electronics Engineering | Microelectronics. |
| Subhas Ghosal | Asst. Professor | Chemistry | Theoretical chemistry |
| Surender Singh Samant | Lecturer | Computer Sciences & Information Sciences | System Software Operating Systems |
| Swarnali Bandopadhyay | Asst. Professor | Physics | Spintronics, Mesoscopic System |
| Swati Alok | Lecturer | Economics, Humanities & Languages | Human Resources, Organization Behavior |
| Syama Sundar T | Visiting Faculty | Economics, Humanities & Languages | Economics and Finance |
| Tathagatha Ray | Asst. Professor | Computer Sciences & Information Sciences | Graphics and Architecture |

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