



# Darpan

The Quarterly Newsletter

Volume VIII, Issue II  
April-Jun 2014

Celebrating  
**15**  
Glorious  
Years

## Synergy Group of Institutions

### Message From The Chairman.....



In the history of Indian democracy since 1984 for the first time a single political party got a clear majority in the national election. The country is now free from the shackles of coalition compulsions. The new Govt. has taken charge, determined to fulfill the hopes and aspirations of the people of the largest democracy of the world. We hope and we trust that the new dynamic Prime Minister of India will take India's development journey to newer heights. The Prime Minister boldly declared after assuming office that his Govt. would go for maximum governance and minimum government. He said "we will script a glorious future for India. Let us together dream of a strong, developed and inclusive India that actively engages with the global community to strengthen the cause of World peace and development." We hope things will be better during the new dispensation.

For many people time past has an irresistible attraction. Past is always poetic unlike present which is prosaic and every moment the prosaic present is dropping down and is being swallowed up by the poetic past. But though past has to be respected, it is for the future we must live. One may return to the place of one's birth. One cannot go back to one's youth. Taking part in a discussion on ancestry, Abraham Lincoln once said, "I don't know what my grand father was; I am much more concerned to know what his grandson will be".

My humble message to the members of the Synergy family is this: Not to be bogged down by the past; to work hard in the present, looking beyond and dreaming with eyes wide open to give shape to their future. We must remember that "a dream does not become a reality through magic, it takes sweat, determination and hard work".

Jai Hind

(Binod Dash)

Chairman & Managing Trustee,  
Synergy Group of Institutions

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## Workshop on Application of MATLAB & LabVIEW

A three- day Workshop on “Application of MATLAB & LabVIEW” was conducted by Electrical Engg. Dept. of SIET,Dhenkanal from dated 25<sup>th</sup> June to 27<sup>th</sup> June,2014. Prof. P.N.Pany was the Co-ordinator of the workshop. Professor P.K.Roy,Associate Prof.IIIT,Bhubaneswar and B.Padhi Associate Prof.GIET,Bhubaneswar were the subject experts of the workshop. They demonstrated various experimental projects based on MATLAB/Simulink and Prof.P.N.Pany of the department delivered a talk on application of virtual instrumentation. All the faculty members of Electrical Engineering and Electronics & Telecommunication Engineering actively participated in this event. The workshop was very successful & appreciated by all corners.



## Research & Development (Synergy, Dhenkanal)

### Seminar/Workshop/Faculty Development Programme Attended

Sasmita Pani & Omkar Pattnaik ,Asst Profs.Dept. of CSE attended a Faculty Development Programme on Mobile and personal Area network at NITTR,Kolkata from 9.6.14 to 13.6.14.

Ipsita Panda & Santosini Bhutia, Asst Profs.Dept. of CSE attended a Faculty Development Programme on Networking principles at NITTR,Kolkata from 5.6.14 to 9.6.14.



Santosh Baliarsingh,Asst. Prof.Dept. of CSE, attended a Faculty Development Programme on Oracle11g DBA at Wilshire Software Technology, Hyderabad from 15.5.14 to 27.6.14.



Mrs. Nibedita Sahoo , Mrs. Sushree Sangita Mahapatra & Mrs. Chandana Subudhi attended two week Workshop on Fluid Mechanics at APEX college Bhubaneswar, conducted by IIT Kharagpur, from 20<sup>th</sup> May to 30<sup>th</sup> May 2014.

### Research & Development (Synergy,Bhubaneswar) Workshop Attended (Synergy, Bhubaneswar)

Mrs.Narmada Nayak,Mrs.Sandigdha Acharya,Asst.Prof.,Mrs.Tapasi Das,Lecturer,Dept. of CSE attended a workshop on “Computational Intelligence WCI-2014”held from 24<sup>th</sup> June to 28<sup>th</sup> June 2014 at KIIT University,Bhubaneswar.



## Newsletter



Manoj Kumar Sahu, Associate Professor and HOD EE Department attended a workshop on “Programming and Simulation Techniques using MATLAB and PSIM Software” at Silicon Institute of Technology, Bhubaneswar from 28th April 2014 to 3rd May 2014.

Rabi Kumar Panda, Lecturer, Electrical Engineering, attended a 6 days workshop on **Power Transformer**, held at CUTM, BBSR on 26th to 31st May 2014.



## Paper Published/Presented

Pragnya P. Pradhan, Asst. Prof., English published a paper titled “**An Intersection of Fact and Fiction: A Study of V.S. Naipaul’s *The Middle Passage***” in American International Journal of Research in Humanities, Arts and Social Sciences, 6(3), Mar-May 2014, pp. 236-238, ISSN(Print): 2328-3734, ISSN(Online): 2328-3696.



Kalyan Kumar Barik, Sr. Lecturer, Dept. of ETC, Somnath Sengupta, and Manas Ranjan Jena, Asst. Prof., Dept. of ETC, Published a paper titled “**Quarter-Pixel Accuracy Motion Estimation (ME) - A Novel ME Technique in HEVC.**” *International Transaction of Electrical and Computer Engineers System*, vol. 2, no. 3 (2014): 107-113.



Kalyan Kumar Barik, Sr. Lecturer, Dept. of ETC, Manas Ranjan Jena, Asst. Prof., Dept. of ETC, and Asutosh Das, Lecturer, Dept. of ETC, published a paper titled “**DCT-Based Quarter-pel Interpolation: A Frontier Method for ME in HEVC.**” *American Journal of Systems and Software*, vol. 2, no. 3 (2014): 60-64.



Manas Ranjan Jena, Asst. Prof., Dept. of ETC, B.B. Mangaraj, Rajiv Pathak published a paper titled, “**A Novel Sierpinski Carpet Fractal Antenna with Improved Performances**”, *American Journal of Electrical and Electronic Engineering*, Vol. 2, No. 3, 62-66, 2014.

Manas Ranjan Jena, Asst. Prof., Dept. of ETC, B.B. Mangaraj, Rajiv Pathak published a paper titled, “**An Improved Compact & Multiband Fractal Antenna Using the Koch Curve Geometry**”, *Wireless and Mobile Technologies*, Vol. 2, No. 1, 1-6, 2014.



Snigdharani Nath, Sr. Lecturer, Dept. of ETC, Manas Ranjan Jena, Asst. Prof., Dept. of ETC, Shilparani Panda, “**A Novel System-on-Chip (SoC) Integration Open Core Protocol (OCP) Bus with Multiple Master & Slave Support**”, *Journal of Embedded Systems*, Vol. 2, No. 2, 23-27, 2014.

Shilparani Panda, Lecturer, Dept. of ETC, Asirbad Behera, Lecturer, Dept. of ETC, Manas Ranjan Jena, Snigdharani Nath, “**A Novel Dedicated Low Power 64 Bit Digital Comparator Using Cmos Logic**”, *Journal of Embedded Systems*, Vol. 2, No. 2, 28-31, 2014.



Sidhartha Sankar Sahoo, Lecturer, Dept. of ETC and Malaya Kumar Hota, Professor, Dept. of ETC “**A Computational Simulation of Determination of Characteristic Frequency for Identification of Hot Spots in Proteins.**” *American Journal of Systems and Software*, vol. 2, no. 3 (2014): 81-84.



Barada P. Mohapatra, Lect. Dept. of Mgmt. presented a paper titled ““Vendor selection in PDS, A multi criteria decision making approach” at the National Seminar on “**Reviving Indian Economy: Issues and challenges**” organised by Sambalpur University held during 15-16th March 2014.



## Expert Talk on ‘Research Methodology’ at Synergy, Bhubaneswar

There was a talk on “Research Methodology”, by Dr. P.L.Nayak, at the Conference Hall of the institute. Dr. P.L.Nayak is presently, Director, Centre of Excellence in Nano science and Technology, Synergy Institute of Technology, Bhubaneswar and the Editor-in-Chief of six renowned international journals.

Dr.Kapileswar Mishra, Principal introduced Dr.Nayak to the audience and invited him to deliver his talk. The said talk was attended by all faculty members of the institute. Dr.Nayak stressed upon the importance of research for all and the seriousness of knowing the correct methodology of carrying out such researches. He presented a slide show, showing all the audience the methodology for a good research work.

Dr. Nayak encouraged and motivated all members present to publish at least three research articles in the coming year so that all could gain knowledge and eligibility to apply for funded research projects.

He ended his talk by requesting all members present to publish as many articles as possible, attend seminars and conferences, workshops etc to gain knowledge and then apply that knowledge for research.

The talk ended with a vote of thanks to Dr. Nayak by the Principal, Dr. Kapileswar Mishra.

## Pride of Synergy, Dhenkanal

Synergy congratulates the following students who came out with flying colours in the B.Tech. final exams scoring 9.0 & above SGPA.

Lopamudra Sahoo,EC-	9.71	Manoj Ku. Garnayak,ME-	9.18
Jagruati Agrawal,EC-	9.57	Mukesh Kumar,ME-	9.18
Jaysmita Panda, EC-	9.43	Rajashree Ray, ME-	9.18
Kunal,EC-	9.33	Narendra Das,ME-	9.09
Anil Kumar Sahoo,CE-	9.22	Sumit Kumar, ME-	9.09
Biswa B. Priyadarsini,CE-	9.22	Bibhu Bhusan Bisoi, EE-	9
Pratikshya S. Parida, ME-	9.32	Jyoti Rani Singh, EE-	9

## State Level Chess Competition (Synergy, Dhenkanal)

Synergy Institute of Engineering & Technology, Dhenkanal hosted the State Chess Competition (under age 11) from 06.06.2014 to 08.06.2014 in its institute premises. The competition invited large number of participants from across the state of Odisha. The institute had the honour of inviting Hon’ble MLA of Dhenkanal, Mr. Saroj Samal to the valediction ceremony where the winners were felicitated. The programme was a grand success.



## Newsletter

### Director, IITB visited Centre of Excellence in Nanoscience & Technology at Synergy, Bhubaneswar

Prof.(Dr.) Gopal Krishna Nayak, Director, International Institute of Information Technology, Bhubaneswar visited the laboratory at Centre of Excellence in Nanoscience & Technology, Synergy Institute of Technology, Bhubaneswar on 24.06.14 accompanied by Prof. Dr. Kapileswar Mishra, Principal, Synergy Bhubaneswar, Prof. Dr. P.L.Nayak, Director (R & D), Dr. D.K Tripathy, HOD, Physics, Dr. Rajanikant Mishra, HOD, Computer Science and Dr. Jogeswari Rout, Professor (chemistry).

He was pleased to know that this DSIR recognized laboratory is carrying out tremendous research activities on various frontier areas of nanotechnology such as Nanomedicine, Controlled Drug Delivery, Tissue Engineering, Development of Anti Cancer, Anti Diabetes and anti AIDs drugs. He also encouraged research scholars with his motivational words for better focus and outcome. He remarked that the future prospects of nanotechnology are very bright.

He also delivered a thought provoking talk to the faculty members of the institute on various topics related to all round faculty development.



### FDP by Prof. Gopal Krishna Nayak at Synergy, Bhubaneswar

Synergy Institute of Technology was honored to have in the institute Prof. Gopal Krishna Nayak, IIT Bhubaneswar, on 24.6.2014 (Tuesday). Prof. Nayak was greeted by the Principal and all other staff of Synergy. He was introduced to the audience by the Principal, Dr. Kapileswar Mishra and Prof. Nayak was requested to address the faculty of the institute.

Prof. Nayak delivered a motivational talk and shared interesting events of his life and his father's by exemplifying practical and lively incidents. He discussed on the present scenario of technical education. He also suggested how to overcome problems arising out of the modern education system.

Prof. Nayak emphasized on certain rules and policies that all management should adopt to motivate the staff and students. He was keen to discuss the process of solving the problems of students and grievances and allowing them a motivated learning environment.

He also spoke on recognizing the proper opportunities and the procedure to act upon them.

Later Prof. Nayak visited the institute campus and the Nano Research Centre. He was full of appreciation for the efforts put into education and the ongoing research works of the institute.

The talk ended with a Question and Answer session involving the faculty. The Principal concluded the program by delivering a vote of thanks.



24/06/2014 12:07

From 20<sup>th</sup> to 29<sup>th</sup> June, 2014 Synergy, Dhenkanal witnessed a CATC-2014 camp of NCC cadets from different schools & colleges across the state of Odisha. The following spectrum gives some glimpses of the camp.



Mr. Binod Dash, CMT, Synergy Group, Ms. Rooparoshan Sahoo, Collector & District Magistrate with Group Commander, NCC & Mr. A.K. Jena, Sr. S.O. during a plantation programme at CATC camp.



Camp Commandant & Group Commander of NCC with Dr. C.R. Deo, Principal, Mr. S. Abinash, Asst. Prof. Dept. of CSE & Mr. A.K. Jena, Sr.S.O. during CATC camp.



Mr. A.K.Jena, Lect.in First Aid of Synergy is explaining the basic methods of First-Aid to the NCC students.



Mr. A.K.Jena, Lect.in First Aid of Synergy is giving a demonstration on external cardiac compression to the NCC students.



### New Joining at Synergy Bhubaneswar

Ms. Rupambika Patnaik joined as Lecturer in English in Synergy Institute of Technology, Bhubaneswar.

### Nurturing Excellence

Synergy Institute of Engineering & Technology, Dhenkanal takes pride in congratulating Deepak Ku. Barik, the 12<sup>th</sup> class topper of Kendriya Vidyalaya, Dhenkanal with a score of 96.8%. He also bagged two important positions in this year's CBSE result merit list-2<sup>nd</sup> in Bhubaneswar zone & 7<sup>th</sup> in the state of Odisha. A meritorious student with brilliant academic credentials, Deepak is the son of Mr. Suresh Ku. Barik, Security Officer of Synergy, Dhenkanal.

Synergy family wishes him many more laurels in future.



## Newsletter

### Summer Camp held at DPS Synergy, Dhenkanal

Carrying the motto of "Service Before Self", DPS Synergy is striving to contribute towards evolution of a healthy society. It has added a new feather to its cap, by organizing the first ever summer camp in the school premises. The camp was organized for 11 days, starting from 02.5.2014 to 12.05.2014. Not only the students of DPS, but students from different schools of Dhenkanal participated in this camp with great enthusiasm. The programme offered many fruitful activities like Yoga, Exercise, Music, Dance, Painting etc. The response from the participants was quite appreciative. Filled with lots of fun and pleasure, the camp inspired the pupils with unforgettable experiences of learning by doing. The highly motivated team of teachers at DPS Synergy derived immense pleasure in guiding the little children.



### Earth Day in DPS Synergy, Dhenkanal

On 22<sup>nd</sup> April, 2014 the students of DPS Synergy, Dhenkanal celebrated the International Earth Day in the school premises. On this occasion students were sensitized about the need to protect the environment. To mark the event, a plantation programme was carried out by the teachers and the students.





Mr Binod Dash, CMT, Synergy Group receiving a memento from Group Commander, NCC at the valedictory ceremony of CATC camp.



Hon'ble Minister of State for Petroleum and Natural Gas, Mr. Dharmendra Pradhan with our CMT on a visit to Synergy, Dhenkanal



Mr. A.K. Jena, Officer-in-charge of Synergy garden receiving the Prakruti Mitra Award from Minister of Environment Mr. Bikram Keshari Arukh on the occasion of World Environment Day.



Ms. Rooparoshan Sahoo, Collector & District Magistrate, Dhenkanal felicitating Mr. Manish Kumar, the NCC Cadet of Synergy who has attended the RDC camp.



Mr. Binod Dash, CMT Synergy Group with this year's HSC toppers of Dhenkanal district.



Mr. A.K. Jena, Sr.S.O, SIET, Dhenkanal is receiving a memento from ADMO, FW, Dhenkanal on World Blood Donor's Day as the best organizer of Blood Donation Camp.

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