



NEWSLETTER

GIRIJANANDA CHOWDHURY INSTITUTE OF MANAGEMENT AND TECHNOLOGY, GUWAHATI



TO THE READER

The Advisors, Editors, Co-editors have taken utmost care to publish the News of GIMT in the form of Newsletters. Readers are requested to put forth their valuable suggestions to improve the content as well as the standard of this Newsletter. Please mail your suggestions at gimtnews@gimt-guwahati.ac.in



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From the President's Desk

Shri Ratul Das
President, Shrimanta Shankar Academy

I am highly delighted to know that the Newsletter of GIMT (Vol. – 1, Issue – II) is on the verge of publication. I hope this second publication will be able to provide recent news regarding the progress made by this institution in the field of Engineering and Technology, Management and Computer Application for the period of Jan – June'17. I convey my best wishes to the editor and his team for their endearing endeavor to bring out this inaugural volume on time.

From The Principal's Desk

Dr. S.K. Dutta
Principal, GIMT, Guwahati

It gives me immense pleasure to know that the second issue of the 'GIMT Newsletter' is going to be published shortly.

The Newsletter of the Girijananda Chowdhury Institute of Management and Technology (GIMT), Guwahati is a half yearly report of the institute and mirror that reflects the functions, events, regular activities, conference/ seminar/ workshop/ symposium/ faculty development programmes/ meetings as well as publication of faculty/students, student's projects/ Innovation / Industrial tours / club activities etc.

I take this opportunity of congratulating the entire team of editorial board comprising of faculty members in their endeavor to publish the GIMT Newsletter.

From The Publishing Desk

This issue of the Newsletter has been published with the advice of the Prof. (Dr.) S. K. Dutta, Principal, GIMT, Dr. B. Buragohain, Dean Students Affairs, Dr. M.R. Singha, Dean Academics and other Senior Faculty Members of the Institute.

Co-editors Ms. Sanzida Tasmin Ali, Ms. Susmita Ganguli, Mr. Banajit Sarmah and Mr. Jeetumoni Barman were actively involved in collecting the news and contributing to the texts of this Newsletter (Jan – June 2017) issue. With their contributions only, it is possible to publish the Newsletter and presented before the readers in time. In near future, we expect readers' contributions also to enrich this Newsletter.

Alokojjwal Das (Editor)
Asst. Prof., ECE

Bina Chowdhury



Death of Bina Chowdhury, a pioneer in promoting quality Education in Assam

Bina Chowdhury born on 11th July 1930, at Dergoan, Golaghat, Founder President, Shrimanta Shankar Academy Society, breathed her last on 21st May 2017 at 9:42am. A wonderful soul, loved by one and all, strong headed with nerves of steel - her enormous ability to live life to the fullest will always be exemplary for all of us.

Her husband Late Girijananda Chowdhury was an entrepreneur and an educationist in the State of Assam. She, as a Founder President of the Shrimanta Shankar Academy Society donated her landed property for the promoting and imparting quality education in the state of Assam. The Society manages under her aegis two engineering colleges namely Girijananda Chowdhury Institute of Management and Girijananda Chowdhury Institute of Management and Technology – Tezpur (formed under the Public Private Partnership Model), Girijananda Chowdhury Institute of Pharmaceutical Science- Guwahati, Shrimanta Shankar Academy Junior Science and Arts College, the first private junior college in the entire north eastern region and Shrimanta Shankar Academy Senior Secondary School, Guwahati. She was survived by three sons, a daughter and five grandchildren. Her valuable contribution to the state of Assam for the promotion of quality education shall be cherished forever.

Condolence meeting was called today in all the Institutes under the aegis of Shrimanta Shankar Academy Society in presence of all the faculty members, staff and students of the institutes wherein they deeply mourned the vacuum created by her demise and considered it as a loss to the entire society.

EVENTS

Visit of AICTE Chairman at GIMT-Guwahati campus



The Chairman of All India Council for Technical Education (AICTE), Prof. Anil D Sahasrabudhe addressed the students and Faculty members of GIMT and GIPS, Guwahati on 31st January 2017. He urged the aspiring Engineers and Technocrats to dream to become employers than to become job seekers. He appealed to the budding talents and college authorities to turn the technical Institutions into innovation hubs. "If you look at America, all the companies have come from some University. In India also we need to start a similar culture and our start-ups should compete with the likes of Microsoft and Google. We need

to challenge the quality of education across the globe." Sahasrabudhe said. He also insisted in creating the jobs from the college itself instead of seeking jobs in some companies. He told the students to focus on team work for solving the problems in classroom. He also said the students should focus on time management and keep the requirements of Industry in mind. Prof. Sahasrabudhe inaugurated the Administrative

Guest Lectures on LATEST TRENDS ON SOFTWARE ENGINEERING



Mr. Ravi Ranjan, a Senior Consultant from extreme consultancy delivered 5 lectures on Software Engg. For 6th Semester students on 3rd Feb, 28th Feb, 14th March, 21st March and 25th March 2017. He covered various topics in his lectures, viz., Assigned project topic to each group (6 member in a group), Discussed about – various latest software use in the market, Indi-



vidual project topic, Particular tool to be use in individual project, Rational rose software, Product, software design and development process and Software project management and design complexities etc.

S.N Baruah Memorial Cricket Torunament



The team of faculty members of GMT Guwahati was the runners up in the S.N Baruah Memorial Cricket Tournament organized in the month of February 2017 by the Guwahati University Teachers Association (GUTA) after having an unbeatable run to the finals.. They were defeated by Guwahati University in the final.

Winter School on ENGINEERING MECHANICS



The department of Mechanical Engineering, organised a 5-day Winter-School on Engineering Mechanics during 27th February – 3rd March 2017 for the students of GMT Guwahati. The programme covered all the fundamentals of Engineering Mechanics and highlighted the concepts involving statically and dynamically loaded bodies and structures. Moreover, it created a channel for these concepts to be interpreted for solving real life problems. Furthermore, this short term course formed as an ingredient for the more difficult courses

found in higher semesters. A total of 180 students participated in the programme.

After a brief inauguration programme on 27th February, Prof. N. Saha who was the resource person from Assam Engineering College, Guwahati initiated the course on the same day with a lecture on the fundamentals of Engineering Mechanics. The programme continued successfully for the remaining days with a series of highly educative lectures on various topics of engineering mechanics delivered by distinguished professors from AEC Guwahati and IIT Guwahati. The programme ended with a valedictory session on 3rd March. The participants received their certificates in the ceremony and the organizing committee collected the feedback of the participants on the programme.



NATIONAL SCIENCE DAY

National Science Day was celebrated at GMT – Guwahati on 28th of February, 2017. The Day is celebrated all over India with great enthusiasm every year in order to commemorate the invention of the Raman Effect in India by the Indian physicist – Sir Chandrasekhara Venkata Raman on the same day in the year 1928. For his great success in the field of science in India, Chandrasekhara Venkata Raman was awarded and honoured with the Nobel Prize in Physics in the year 1930. This year the theme for the National Science Day was ‘Science and Technology for Specially Abled Persons’. Dr Subhra Kinkor Goswami, a seasoned Ophthalmologist and an ace Anterior Segment Surgeon from Assam was invited for a ‘Popular talk’ on this occasion.

1 – day workshop on “COMPUTER APPLICATION IN SOCIAL SCIENCE RESEARCH”



The Department of Business Administration organized a one-day Workshop cum Training on “COMPUTER APPLICATION IN SOCIAL SCIENCE RESEARCH” (on SPSS) on March 1, 2017 (Wednesday) for MBA students and Faculty Members of the institute. Dr. Parag Dutta, Assistant Professor, Dispur College was invited as the resource person for the event and certificates were distributed among the participants.



INTERNATIONAL WOMEN'S DAY CELEBRATION



GIMT – Guwahati has celebrated the International Women’s Day on 8th March, 2017 under the theme of #Be Bold for Change. On that day, one handicraft as well as Assamese food exhibition was organized by the department of Humanities at the college premises. Along with this exhibition one competition for the handicraft items also organized among the supporting staff of the Institute and the winners were awarded with cash prizes. Mrs. Shrabani Medhi, Assistant Professor of CSE department of GIMT had been invited as a judge for this competition. Gifts were also provided to our female supporting staff. Moreover, a cultural program was organized by the department of Humanities on this occasion.

EMPLOYABILITY ENHANCEMENT TRAINING PROGRAM (EETP)



GIMT-Guwahati implemented the Employability Enhancement Training Program (EETP) initiated by The All India Council of Technical Education (AICTE) in order to enhance the competency skill of the graduating students in IT & ITES and Telecom sector. The objective of this initiative is to enhance the quality of the students to become better employable. AICTE has signed an MOU with ICT Academy engaging ICT Academy as key partner to undertake this scheme and provide the competency based EETP for the Final Year and Pre final Year students of the AICTE approved Institutes. GIMT-Guwahati organized Inaugural session of the EETP on 24th of April, 2017 under

Finishing School. In the session GIMT-Guwahati and ICT Academy exchanged MOU to implement the EETP and representatives from ICT Academy gave an introduction about the program to the final year B. Tech. students of all the departments.

1 – Day National Seminar on ADOLESCENT SUICIDES: INTERFACE OF CULTURAL HYPOCRISY AND SOCIAL COMPETENCY



A one day National seminar was organized by GIMT in association with Indian Council of Medical Research (ICMR) on – “Adolescent Suicides: Interface of Cultural Hypocrisy and Social Competency” on 28th April 2017. The seminar emphasized on the topics like risk factor of adolescent suicides, the suicide prevention measures to adolescent suicides. It had a detail discussion on Risk factor and social determinants of Adolescent Suicides in India and Psychosexual health of adolescents as the contributory factor in Adolescent Suicides. The Speakers were: 1. Ms. Radha Saini, Fellow UICC, Geneva Representative from ICMR, 2. Dr Prabir Thakuria, Psychiatrist, Down Town Hospital, 3. Ms Maitrayee Bordoloi, Assistant Professor, Indraprastha University, New Delhi.



1 – day workshop on APPLICATION OF MATLAB IN DIFFERENT ASPECTS OF ELECTRICAL ENGINEERING



A one day workshop on ‘Application of Matlab in different aspects of Electrical Engineering’ was organized by the department of Electrical Engineering on 19th May 2017. The resource person was Mr. Gaurav Kumar, Research Scholar IITG. This workshop was mainly conducted for the development of the departmental staff.

1 – day seminar on APPLICATION OF SIMULINK IN DIFFERENT ASPECTS OF ELECTRICAL ENGINEERING



A one day Seminar on ‘Application of Simulink in different aspects of Electrical Engineering’ was organized by the department of Electrical Engineering on 20th May 2017. The resource person was Mr. Gaurav Kumar, Research Scholar IITG. This seminar was mainly conducted for the development of the departmental staff.

FDP on ANSYS AND ITS APPLICATIONS IN ENGINEERING



Recognizing the need for computational analysis in the world of engineering and technology, the department of Mechanical Engineering, GIMT-Guwahati, had organized an FDP on ANSYS and its Applications in Engineering from 5th June to 9th June 2017. The program focussed on developing the practical problem solving capabilities of the participants who had come from various institutes such as Assam Don Bosco University, University of Technology and Management, Shillong, Royal Global University, Guwahati as well as in-house participants from various departments of GIMT-Guwahati.

The resource persons were Mr. Sumit Agrawal, Mr. Soumya Ranjan Nanda and Mr. Shuvayan Brahmachary, all research scholars in the Department of Mechanical Engineering, IIT Guwahati; Mr. Nur Alom, trainee teacher in the Department of Mechanical Engineering, NIT Meghalaya and Mr. Dheeman Bhuyan, Assistant Professor, Department of Mechanical Engineering, GIMT-Guwahati.

The valedictory session was graced by Dr. Anoop K. Dass, Head, Department of Mechanical Engineering, IIT Guwahati. He gave a lecture on Pedagogy and the practices involved in imparting an effective education in the field of engineering.

FDP on DATA SCIENCE WITH PHYTHON



A Five Day workshop on Data Science with Python was organized by the department of Computer Science and Engineering, GIMT, Guwahati from 12th June to 16th June, 2017. The Speakers Invited for the inauguration session were Mr Amit Tripathi, Manager-Marketing and Relation, MTA India and Mr. Kushal Jain, IR Analyst, MTA. Data Science provides the practice of obtaining, exploring, modeling and interpreting data. In this FDP, disciplines such as programming, statistics, mathematics, machine learning, data analysis, visualization and big data are explored. Here it is explained why data scientists are now in such demand, and the skills required to succeed in different jobs. It is also shown how to obtain data from legitimate open-source repositories via web APIs and page scraping and introduce specific technologies (R, Python, SQL) and techniques (support vector machines and random forests) for analysis.

5 – Days Workshop On VLSI AND EMBEDDED SYSTEMS



A Five Day workshop on “VLSI and Embedded Systems” was organized by the department of Electronics and Communication Engineering, GIMT, Guwahati from 19th June to 23rd June, 2017. This programme aimed to enhance knowledge in the field of VLSI System Design and Microcontrollers for the people from Industry, Research and Education. This comprehensive workshop was a thorough introduction to XILINX and Embedded C language. It included insightful lectures with practical lab exercises to reinforce key concepts to increase overall efficiency in advanced coding techniques and design concepts.



The Speakers Invited for the inauguration session were Prof. Roy Paily Palathinkal, Dept. of EEE, Head of Centre for Nanotechnology, IIT-Guwahati and Dr. Santosh Biswas, Associate Professor, Dept. of CSE, IIT-Guwahati. The Trainers for the lab session were: Mr. Sandeep P, Ph.D Scholar, Dept. of EEE, IIT-Guwahati and Mr. Gitu Das, Assistant Professor, Dept. of EEE, DBCET, Azara.

Technical Symposium cum Workshop on RECENT TRENDS IN RAPID PROTOTYPING WITH MICROCONTROLLER USING THE ARDUINO FRAMEWORK



The department of Electrical Engineering, GIMT, Guwahati has organized successfully a day long Technical Symposium cum Workshop on “Recent Trends in Rapid Prototyping with Microcontroller Using the Arduino Framework” on 24th June, 2017. The sole speaker and the resource person for said the event was Mr. Bhaskar Ganesh, Proprietor, UMaker Labs.



MODEL VILLAGE PROJECT FOR VILLAGE CHANAKA IN MORIGAON DISTRICT



Focusing on the development of villages, GIMT has taken up the initiative of Model Village project for village Chanaka in Morigaon District. To ensure the holistic and integrated development of the village, discussions have taken place with the officials of Morigaon District at the DC office, Morigaon. SSA Society in general and GIMT in particular endeavor to fulfill this dream project and inspire more lives.

Chanaka has been selected by GIMT based on the neglected condition of the village. Even after 70 years of independence this village as on date stands disconnected from the mainland due lack of motor able roads. The only means of communication is the river Brahmaputra and the Kutcha pathways through the forests, even though it is only 25 kms away from the district headquarter of morigaon which is 78 kms (Approx.) from the state capital of Guwahati.

ACHIEVEMENTS

□ **Ms. Nandita Lahkar Kalita**, Assistant Professor, Dept. of Physics, GIMT- Guwahati has been awarded PhD degree by Gauhati University for her thesis entitled “A study on the Rare Heavy Isotopes in the Cosmos”. Her research work was supervised by Dr. (Mrs.) Kalpana Duorah of Dept. of Physics, Gauhati University.

□ **Ms. Anindita Bora**, Assistant Professor, Dept. of ECE, GIMT- Guwahati has been awarded PhD degree by Gauhati University for her thesis entitled “Design considerations of an Embedded System for Real Time Data Acquisition and Monitoring of Colour Signals”. Her research work was supervised by Prof. Kanak Chandra Sarma, Dept. of Instrumentation and VLSI, Gauhati University.

□ **Two Patents under Mr. Dheeman Bhuyan:**

• USE OF DAMPERS IN PROSTHETIC ANKLE (Indian Patent Application Number 1319/Kol/2015) PUBLISHED: 23rd June 2017

• METHOD OF SYNTHESIS OF FUNCTIONALLY GRADED COMPOSITE MATERIALS USING A MAGNETIC SETUP (Indian Patent Application Number 1318/Kol/2015) PUBLISHED: 23rd June 2017

PUBLICATIONS

- Ritushree Dutta, Neelesh Kumar, Dhruva J.Bora, “Development of algorithm for different programmable modes for a prototype of orthotic ambulatory device for gait rehabilitation” International Journal of System Control and Information Processing Vol 2.1 (2017) pp 51-58. DOI: 10.1504/IJSCIP.2017.084261, ISSN: 1759-9334
- Gitanjali Devi, Minakshi Gogoi, “Feature Extraction to Detect Clouds from Satellite Image Using Association Rule Mining”, National Conference on Current Trends in Engineering, Science, Technology & Management (NACCT-ESTM – 2017), ISSN: 2277-7318
- K.V. Kanimozhi, M. Venkatesan, “A Novel Map-Reduce Based Augmented Clustering Algorithm for Big Text Datasets”, Advances in Intelligent Systems and Computing, Springer 2017, Vol 542, pp 427 – 436, DOI – 10.1007/978-981-10-3223-3-41
- Sharmila Nath, Jayanta K. Nath and Kanak Chandra Sarma, “A Comparative Study of Accuracy Improvement of Temperature Measurement with PT100 and PT1000 for Wider Range,” IJEER Vol 9, Number 5, May, 2017, pp. 735-743, ISSN 0975-6450. ICI indexed. (Journal Approved by UGC, serial number 16752)
- Arundhati Deka, “Soft computational Framework for Tertiary Protein Structure Prediction”, IJCA, vol 168, no. 10, pp 45 – 49, June 2017, ISBN: 973-93-80896-68-8
- Manish Paul, Kashyap Kr. Nath, Sangeeta Kalita, “Back-up Power generation using Bicycle”, ISSN- 2394-1588, IARJSET, Jan- 2017
- Raj K. Kakoti, Sanjib Handique, Wahidul Haque, “Protection Scheme of Three Phase Equipment”, ISSN- 2394-1588, IARJSET, Jan- 2017
- Sanjib Hazarika, Biplobjyoti Saikia, “Projects of Solar Energy in North Eastern Region of India”, ISSN: 2301-380X, IJEEE, Feb- 2017
- Syed A. Hussain, “Comparison between fixed and frequency dependent load flow analysis incorporating frequency and voltage dependent load with governor action in the generating unit” ISSN: 2348- 3121, IJMTEs, Vol. 04 Issue 04, April, 2017
- Syed A. Hussain, “Contingency Analysis using conventional and Frequency dependent Load Flow” ISSN: 2348- 3121, IJMTEs, Vol. 04 Issue 05, May, 2017
- Biplobjyoti Saikia, Sanjib Hazarika, “Designing of Solar Street Lighting System”, ISSN NO: 2348- 3121, IJMTEs, Vol. 04 Issue 06, June, 2017
- Pallavi Roy, Kaustav Kaushik, Pritam Singh,

- Manash P. Baishya, Debraj Sarmah, "GSM based energy meter reading system with remote cut off and GUI application", ISSN No. 2320-3765, IJAREEIE (UGC approved journal), Vol. 6, Issue 6, June 2017.
13. B. K. Talukdar, B. C. Deka, "Well-being Analysis for Generating Unit Preventing Maintenance Scheduling", IJARIE, Approved by CSIR, Vol. 3, Issue 3, ISSN: 2395-4396, June 2017
 14. S. Bhuyan, M. Goswami, "Determinants of Employee Motivation in Assam Carbon Products Limited; A Case Study," SUMEDHA Journal of Management, vol. 6, no.1, pp. 47-53, January-March 2017, ISSN: 2277-6753.
 15. S. Bhuyan, "Prospects of Women Entrepreneurs in Kamrup (Metro) District of Assam", Corporate Business Strategies - The Present Scenario, pp. 61-67, March 2017, Archers and Elevators Publishing House, First Edition, ISBN: 978-93-85640-88-9
 16. A.R. Sengupta, A. Biswas and R. Gupta, "Vertical Axis Wind Turbines in the Built Environment - A Review", ISESCO Journal of Science and Technology, vol. 12, no. 22, pg. 11-16, Feb, 2016, ISSN: 2028-8077
 17. A. Chatterjee and R. K. Dutta, "Application of back propagation neural network in predicting Nox emission from I.C.Engines", International Journal of Current Advanced Research, vol. 6, issue 5, pg-3791-3795, May 2017, ISSN: 2319-6505
 18. Dheeman Bhuyan and Kaushik Kumar; Computational Fluid Flow Analysis of Base Valve for Twin Tube Shock Absorbers; Materials Today: Proceedings; ISSN: 2214-7853, Vol4(2017), pp 2308-2313
 19. Nandita Lahkar, Sanjeev Kalita, Hiralal Duorah and Kalpana Duorah, "Abundances of La138 and Ta180 through α -nucleosynthesis in 20 MO type II supernova progenitor, guided by stellar model for seeds", J. Astrophys. Astron, 38(1), pp9 (2017), ISSN: 0250-6335.
 20. Priya Bharali, Sunder Sahayanathan, Ranjeev Misra, Kalyanee Boruah, "Broadening of the Thermal Component of the Prompt GRB Emission due to Rapid Temperature Evolution", New Astronomy, Volume 55(2017), 22-26, ISSN: 1384-1076
 21. A. Deka, "Investigations on Structural, Electronic and Reactivity Properties of Bare and Supported Au (n=2-13) nanoclusters using DFT", International Conference on Recent Advances in Materials Chemistry (RAMC 2017), Utkal University, Bhubaneswar, Feb. 24-26, 2017. (Invited Talk)
 22. A. Deka, "Density Functional Study of Small Transition Metal Clusters supported on Graphene", 20th CRSI National Symposium in Chemistry, Gauhati University, Guwahati, Feb. 2-5, 2017.
 23. Priya Bharali, "Broadening of the thermal component of the prompt GRB emission due to rapid temperature evolution" in the "Wide Band Spectral and Timing Studies of Cosmic X-ray Sources", organized by the Tata Institute of Fundamental Research, Mumbai, India during January 10-13, 2017
 24. Moytri Sarmah, Kuntala Patra, "On the Subset Graph of Near-Ring" IJMA, Vol. 8, No.3 (2017), ISSN: 2229-5046
 25. Banajit Sarmah, "Properties of Dust Acoustic Solitary Waves in Plasma with Non Thermal Electron", IJMA, Vol.8, No.5 (2017), ISSN: 2229-5046
 26. Priyanka P. Baruah, "On The Undirected Graph Structure of Commutative Ring", IJMA, Vol.8, No.5 (2017), ISSN: 2229-5046

STUDENT ACTIVITIES

• **OUTSTANDING STUDENT PROJECTS:**

- Department of Applied Electronics and Instrumentation Engineering identified an outstanding project for the semester Jan-June 2017 as titled “To design a RFID Technology based Door Security System using GSM Module” by Raktim Jyoti Gogoi, Sneha Jhavar, Hrishikesh Gogoi under the supervision of Ms. Karabi Deka.
- Department of Computer Science and Engineering identified an outstanding project of the BTech programme for the semester Jan - June 2017 as titled “An Energy Efficient Network Model in WSN” by Amit Mundra, Kunal Gunjan Talukdar, Pronoy Bhowmik and Mrinal Goswami under the supervision of Mr. Utpal Barman.
- Department of Computer Science and Engineering identified outstanding projects of the MTech programme for the semester Jan - June 2017:
 1. “Energy consumption in WSN using Adaptive Threshold” by Kangka Chakravarty under the supervision of Mr. Utpal Barman
 2. “Image quality parameter Detection: A study” by Mala Ahmed under the supervision of Dr. Minakshi Gogoi.
- Department of Electronics and Communication Engineering identified outstanding projects for the semester Jan - June 2017 to be:
 1. “Transmission of audio signal using Li-Fi technology” by Ajay Choudhury, Biprojit Nath, Santosh Deb Barma, Simanta Choudhury, Subhan Ahmed under the supervision of MR. Agnimitra Borah.
 2. “Automatic Irrigation Control System using ARDUINO and IOT” by Apratim Thakur and Kangkan Kakati under the supervision of Mr. Mukti Nath Gogoi.
- Department of Electrical Engineering identified an outstanding project for the semester Jan-June 2017 as titled “Electric Arc Characteristics in Axial and Cross Magnetic Fields: An Experimental Investigation” by Alolika Ganguly, Aparajita Choudhury, Barnishmita Barman and Jyotismita Mahanta under the supervision of Prof. P.K. Goswami.
- Department of Electrical Engineering identified an outstanding project for the semester Jan-June 2017 as titled “Designing of Solar Street Lighting System with Automatic Intensity Control: A Case Study in a College of North East India” by Bharchu Kalita, Harjyoti Sarma, Jyotirmoy Deka and Ritumoni Haloi under the supervision of Mr. Biplobjyoti Saikia.
- Department of Mechanical Engineering identified outstanding projects for the semester Jan - June 2017 to be:
 1. Design, Fabrication and Testing of Pelton Wheel for Generation of Electricity” by Pooja Devi, Pradip Deka, Rohit Sarmah, Sanjukta Borah, Swargajyoti Das, Munmi Choudhury and Musa Ahmed Barbhuyan under the supervision of Mr. Bhabajit Baruah.
 2. “Exergy Analysis on Solar Dryer” by Abhijit Bora, Angshuman Kashyap, Anup Kumar Saloi, Biki Das, Chandan Kr. Barman and Deepjyoti Barman under the supervision of Mr. Rajib Bhowmik.

Achievement :

- Miss Kakali Roy, a student of 8th Semester, Department of Applied Electronics and Instrumentation Engineering have qualified GATE 2017 and also have got admission in M.Tech programme in the Department of Electronics and Instrumentation Engineering of NIT Silchar.

RESULTS

- ASTU (Assam Science and Technology University) has declared the results of MTech students being passed out on June 2017. The number of students appeared for MTech in CSE is 5 and 2 students passed making it a pass percent of 40%. The number of students appeared for MTech in ECE is 02 and 01 students passed making it a pass percent of 50%. The number of students appeared for MTech in ICE is 02 and 02 students passed making it a pass percent of 100%.
- ASTU has declared the results of MBA programme. The examination of which were held during May – June 2017. A total of 32 students appeared the pass percent being 59.4%.
- Four (4) students of MBA at GIMT were successful in securing the top positions in the University: Chhaya Kumari (1st), Ananya Mazumder (2nd), Manashi Goswami (3rd) and Mehzobin Hazarika (5th)
- ASTU has declared the results of MCA students being passed out on June 2017. The number of students appeared for MCA is 23 and 13 students passed making it a pass percent of 56%.
- ASTU has also declared the results of BTech students being passed out on June 2017. The number of students appeared for BTech in AEI is 31 and 17 students passed making it a pass percent of 55%. The number of students appeared for BTech in CSE is 53 and 19 students passed making it a pass percent of 36%. The number of students appeared for BTech in ECE is 102 and 35 students passed making it a pass percent of 34%. The number of students appeared for BTech in EE is 61 and 34 students passed making it a pass percent of 56%. The number of students appeared for BTech in ME is 121 and 80 students passed making it a pass percent of 66%.
- Dubari Sutradhar has secured first class first position of BTech in Applied Electronics and Instrumentation Engineering.
- Four (4) students of Electronics and Communication Engineering stood among top ten (10) students of the Assam Science and Technology University Examination for BTech held on May-June 2017: Ajay Choudhury (5th), Himadri Baruah (8th), Chandra Saraf (9th) and Sujata Bhuyan (10th)

CLUB ACTIVITIES

SOCIAL WELFARE CLUB

Keeping in mind the importance and role of women in our society, GIMT Azara with Social Welfare Club booked a complete show of the film on 27th May 2017 in Gold Cinema Hall, Paltanbazar for the faculty members/staff of the Institute as a mark of respect to the makers and to promote this powerful film. “ANTAREEN”— directed by Monjul Baruah is a women oriented film which helps to ensure that the girls of our society become strong women. More than 80 members of this institute enjoyed the show ‘ANTAREEN’ and everyone expressed their gratitude for arranging such event.



ECO CLUB



The Eco-Club, GIMT, Guwahati took initiative in observing and celebrating “The World Environment Day” on 5th June, 2017 within the Institutional premise. The event was organised in association with the State Bank of India (GU Branch). The event started with a welcome speech by the Coordinator Eco- Club and the whole event was enlightened by the valuable speeches of the Principal – GIMT (Guwahati), Principal – GIPS, Dean Academics, Dean Administration, the senior professors of the Institute and the Chief Manager, SBI (GU Branch). Finally, the event continued with tree plantation within the premise with active participation from all the faculty members of both the Institutes along with SBI members.



Samantrana: A Two-day National Seminar on “Industry-Academia Collaboration: Bridging the gap”

GIMT Guwahati and GIMT Tezpur, in a joint venture along with collaborative partners AICTE and ASTU organised the first edition of SAMANTRANA, the two-day national seminar on the theme “Industry-Academia Collaboration: Bridging the Gap” on 10th and 11th February 2017 at Greenwood Resort, Khanapara, Guwahati. The inaugural session started ceremoniously at 10:00 AM on Day 1. Sjt. Chandra Mohan Patowary, Honourable Minister for Commerce and Industry, Transport, Parliamentary Affairs, Govt. of Assam was the chief guest who unfortunately could not be present on account of other engagements. Sjt. Keshab Mahanta, Honourable Minister for Water Resources, Department of Science and Technology, Information Technology, Govt. of Assam and Prof. Dhiraj Bora, Honourable Vice Chancellor, Assam Science and Technology University were the esteemed Guests of Honour. At the outset, Dr. Sandip Bordoloi, Convenor, SAMANTRANA’17, gave a brief introduction of the seminar before the august gathering. Following the convenor’s speech, Prof. S. K. Dutta, Chairman, SAMANTRANA’17 delivered the welcome address. The speeches by the Guests of Honour centred on the theme of the seminar i.e. Industry-Academia Collaboration. Sjt. Keshab Mahanta congratulated GIMT and the organisers and stated that the seminar is going to bridge the gap between academia and industry by facilitating direct interaction between its representatives. Prof. Dhiraj Bora spoke about the changing trends in education in-line with the needs of the industry. The keynote speaker Mr. Harsh Manglik delved deep into the solution of bridging the increasing gap between industry and academia and also illustrated the different types of collaborations existing between the two in India and abroad. His speech marked an end to the inaugural session and was followed by a lunch break.



Prof. A.K. Das, Professor-IITG and Interim Director-IIIT Manipur delivered the first invited lecture post lunch.

He talked about doing innovative research and product development and cited the example of the 'Deep-Bahan', an innovative rickshaw designed and developed by him along with his team. He also discussed the role of a Research & Consultancy Cell for acquiring funds for product development. The second invited speaker, Dr. Anil Kapur, President (Sales), Topcem India, stressed upon the requirement of different attributes from graduate students in the industries and proposed the possible ways and means for students to develop those attributes. Mr. Bhargav Bhattacharjee, Partner, B&B Associates, himself a budding entrepreneur and an alumnus of GIMT-Guwahati, delivered the third talk and inspired the students to develop themselves into entrepreneurs. The student participants and senior professors of GIMT posed several questions to the invited speakers during a question-answer session afterwards.

The second day of the event started with a presentation by Mr. Dhrubajyoti Sharma, Assistant Professor, Department of Business Administration, GIMT-Guwahati. He presented valuable data collected from various secondary sources which indicated the gaps existing between industry and academia, particularly in the form of lack in skill sets. He expounded an argument that those gaps are responsible for low employability amongst the technical and management graduates. Day 2 was scheduled with three invited talks, the first among them being by Prof. Gautam Barua, Mentor Director, IIIT Guwahati. He talked about how to develop a career in research, starting with internships in companies and skill-building through industrial training. The audience listened with keen attention as the next speaker, Ms. Amreeta Mazumdar, Head of Tech Staffing, Google India exhorted the students to develop their soft skills which will help them sail through the HR round in interviews and get good job placements. Mr. D.P. Das, Senior Deputy General Manager-HR, L&T-Construction, Chennai, spoke to students about campus to corporate transition and complemented his speech with a video showcasing the work of L&T in various sectors. The technical session ended with a vote of thanks delivered by Dr. Biswarup Saikia, Vice-President SAMANTRANA'17 and Principal GIMT-Tezpur.

In the end, members from both academics and industry partook in a panel-discussion which was moderated by Dr. Saikia. Two other delegates from the industry present in the panel discussion were Mrs. Progoti Choudhury (Delivery Center Head, Initial Learning Program Center, TCS, Guwahati) and Mr. Sankuraj Bora (Area Head HR, Reliance Jio). The key points of the discussion included curriculum gap, industrial trainings for teachers and students, students' final year projects based on industrial problems and development of soft skills of students. Apart from these, the members from the industry also stressed upon several programs such as "Train the Trainers" of TCS, coding tests for students, frequent industrial training for students, industry-related courses, open-learning courses provided by industries and application-oriented learning, to mention a few. The participants took resolutions to improve the industry-GIMT relation so that the existing gaps could be bridged effectively in the immediate future. Following this, the discussions came to an end, thereby drawing the curtains on this year's SAMANTRANA.



EUPHUISM – 2017 (Yauvana – Strength behind nation building)



GIMT Guwahati and GIPS Guwahati jointly organized the Techno-cultural extravaganza of the Institute EUPHUISM with the tag line as Yauvana – Strength behind nation building in the month of February 2017 in a befitting manner.

Advittam – This very word finds its roots in Sanskrit and implies one who / which is irreplaceable. EUPHUISM, the annual cultural and technical fest of Girijananda Chowdhury Group of Institutes, in all its grandeur is one such event. Euphuism has proven to be a major crowd puller by showcasing talents from all over the Northeast and has delivered some of the best performances the state has observed in the past few years. It has housed artists from across the nation and abroad. It is one of the highly anticipated events in the year. More than anything else, EUPHUISM serves as one of the biggest platforms available to the students to make out of what they have.

It kicked off with the Marathon: College Annual Sports – meet under EUPHISM, GIMT & GIPS organized an Open half marathon on 13th February 2017. The event kicked off from the College campus and the race was flagged off by distinguished Athlete of the State, honorable Tayabun Nisha Madam. The Marathon was highly successful as more than 500 participants from across the North-Eastern part of India participated in the event. The winner and the runner-up belong to Shillong and Guwahati respectively.

Flash Mob: The flash mob was the highlight of this year EUPHISM '17 as large number of spectators gathered to have a glimpse of it. It was performed at various places such as Guwahati University campus, Assam engineering college campus and at The Central Mall premises as a move to promote the most exciting event of the year.

Glitters – The most awaited event of EUPHUISM, The annual Techno-cultural festival of GIMT aims at presenting the personification of a timeless style and evergreen yet iridescent through this event which is the presentation of style that is transcendent of time. This show promisingly displayed all the razzle dazzle that its name suggests. The stage treaded upon by the bodacious beauties and those that have made muses of them.

There were few band performances: An alumnus of the Institute – Mr. Gulancha Patowary and his band mesmerizingly performed in the eve of the 1st day. This was followed by Dj nite by the popular Dj-Brahmin – Official Dj for NEUFC (ISL). The popular Assamese singer – Nekib Hussain, has performed and enthralled the audience to the most in the eve of the 2nd day.

The EUPHUISM consisted of several events and activities including the Annual Sports-Meet also. The techno-cultural part consisted of competitions in Robotics, Circuit Design, Quiz, Debate, Photography, Painting, Gaming, Dance, Song, Drama, Show-causing Fashion, etc. The cultural part also included a programme by the Faculty members.

The most exciting program 'PRO-NITES' is the last event of the EUPHUISM which has been performed by artists across the nation like Euphoria in 2009, Bombay Rockers in 2010, Zubeen in 2011, Raghu Dixit in 2012, Papon in 2014, Suraj Jagan in 2015 and Clinton Cerejo in 2016. The artist for EUPHUISM 2017 was Nakash Aziz (An A R Rahman fanboy since he was 10 years old, followed the Mozart of Madras for most of life and finally lived his dream of working with Rahman in projects such as Highway, Raanjhanaa, Rockstar and Delhi 6. His voice is also behind 'Aisha', 'Agent Vinod', 'Cocktail', 'R..Rajkumar', 'Phata Poster Nikla hero', Marathi films, etc.).

HACKATHON



Smart India Hackathon was about coding together to solve real world problems. It was a 36 hour non-stop digital programming competition where students from different engineering and management colleges were given problems which were collected from 30 different Govt. departments/ministries. Among 29 nodal centers across the country. Girijananda Chowdhury Institute of Management and Technology was the only nodal center in northeast. For the grand finale, which was held on 1st and 2nd April 2017, from 7531 teams only 1266 got shortlisted in which one team, ALPHA ONE, was from GIMT who participated in MIT, Karnataka. ALPHA ONE was under the mentorship of Mr. Utpal Barman and Mr. Adarsh Pradhan, Assistant Professors of CSE Deptt., GIMT and the team leader was Abhijit Kazi with team members Bikram Nath, Savera Sharma, Dibyojyoti Chang Kakoti, Niyar Talukdar and Syeda Najmin Hussain.

In GIMT, the coordinator of Hackathon was Dr. Th. Shanta Kumar, HoD of CSE Deptt. In all, 31 teams from across the country participated in the event held at GIMT, Guwahati, each team comprising of six students and two mentors. The participating teams offered digital solutions to 11 problems put forward by the Ministry of DoNER. Among them 3 teams were from Assam- 2 from GIMT and 1 from ADBU. Local trips to Kamakhya temple and Pobitora Wildlife Sanctuary were arranged for the teams those who had arrived early to institute. The two teams of GIMT were CODE ON from MCA Deptt. and IMPULSE from CSE Deptt. CODE ON was under the mentorship of Mr. Rajarshi Paul, Assistant Professor, MCA Deptt. and Mr. Tarique Mahmood and the team leader was Rajdeep Banerjee with team members Nitul Barman, Abhilash Sarmah, Mrinal Kanti, Nitul Barman, Puja Bhowmik and Raj Kamal Bora. IMPULSE was under the mentorship of Mrs. Shraboni Medhi, Assistant Professor, CSE Deptt. and the team leader was Pranoy Bhowmick with team members Dipankar Das, Arunav Saud and Amit Mundra. In a bid to give a push to this Digital India initiative, Prime Minister Narendra Modi addressed the participants on the 1st day of the grand finale via video conferencing. To relax the participants, zumba dance and yoga classes were organized at the competition hall by the institute.

The team 'BITCODERS' from Gandhi Institute of Technology, Bhubaneswar, Odisha was declared winners of the competition held at the Guwahati nodal centre. The first and second runners up of the competition

were respectively, 'STARK' from MM Engineering College, Mullana, Ambala and 'DETECT & DIRECT' from Dronacharya College of Engineering, Gurgaon. The team 'MATRIX' from Assam Don Bosco University, Azara, Guwahati won the persistent inspirational award. All the winners were awarded cash prizes in the final with amounts Rs. 1,00,000 for winners, Rs. 75,000 for 1st Runners, Rs. 50,000 for 2nd Runner and persistent inspirational award of Rs. 10,000.

The closing ceremony was featured with cultural presentations from the GIMT students. Different delegates present in the closing ceremony includes Chief Guest, Shri Naveen Verma, Secretary Ministry of DoNER, Vice Chairman of AICTE, Dr. M.P. Poonia among members from Shrimanta Shankar Academy Dispur and officers from DoNER Ministry.

Corrigendum of the previous Issue

- **Few Items were missed out in the previous issue of the News-Letter:**
- Ridhi Bardoloi, "A medical monitoring and dispensing system", IJRSI, vol - 3, issue - 12, pageno. 111-115, Dec 2016, ISSN: 2321-2705.
- Prof. (Dr.) Ramesh Chandra Goswami, Dr. Devika Phukan and Dr. Lipi Goswami, "Engineering Physics - I (As per ASTU syllabus)", Mani Manik Prakash, July 2016.
- A. Deka, R. C. Deka and C.R.A. Catlow, "Global Optimization of Nickel Oxide Nanocluster and their Application in Catalysis", 15th Indian National Theoretical Chemistry Symposium, University of Hyderabad, Hyderabad, Dec 14-17 2016

SOCIAL WELFARE CLUB



GIMT Azara with Social Welfare Club booked a complete show of the film 'PINK' on 24th September 2016 in Gold Cinema Hall, Paltanbazar for the faculty members/staff of the institute as a mark of respect to the makers and to promote this powerful film. "PINK"—directed by Aniruddha Roy Chowdhury is a women oriented film which itself is a message on real young women and their challenges in day to day life. All total 78 members of this institute enjoyed the show

HANDS ON SESSION ON BIG DATA USING HADOOP



This hand on session was only for GIMT students so that they can learn basic idea of Big Data and hadoop. On this one day workshop, Mr. Thoudam Johnson Singh and Mr. Kausthav Kalita, Assistant Professors, Department of CSE/IT, Assam Don Bosco University were invited as key technical persons; and they explained about the Big Data and trained the students in hadoop installation and explained its practical impact. This workshop was held on 24th September 2016.

FDP on WATER RESOURCES AND STRUCTURAL MASONRY

The Department of Civil Engineering, GIMT, Guwahati organized a three day Faculty Development Programme on "Water Resources and Structural Masonry", from 12th December 2016 to 14th December 2016. The experts for the programme were Dr. Bibhash Sarma, Associate Professor, AEC, Guwahati; Dr. Bipul Talukdar, Associate Professor, AEC, Guwahati; Mr. Dibakar Bhattacharjee, Addtl. Chief Engineering, Assam Water Resources and Management, Guwahati, Dr. Utpal Gogoi, Regional Director, Central Ground Water Board, Guwahati; Prof. Arup Sarma, Professor, IITG, Amingaon, Guwahati and Dr. Biswarup Saikia, Associate Professor and Principal In-Charge, GIMT-Tezpur, Tezpur.



GIMT-GUWAHATI PROGRAMMES

UG PROGRAMMES

Sl No.	Programmes	Intake
1	B.Tech in Applied Electronics and Instrumentation Engineering (AEI)	30
2	B.Tech in Civil Engineering (CE)	60
3	B.Tech in Computer Science and Engineering (CSE)	90
4	B.Tech in Electrical Engineering (EE)	60
5	B.Tech in Electronics and Communication Engineering (ECE)	120
6	B.Tech in Mechanical Engineering (ME)	120

PG PROGRAMMES

Sl No.	Programmes	Intake
1	Master of Business Administration (MBA)	60
2	Master of Computer Application (MCA)	30
3	M.Tech Computer Science and Engineering (CSE)	18
4	M.Tech Instrumentation and Control Engineering (ICE)	18
5	M.Tech Electronics and Communications Engineering	18

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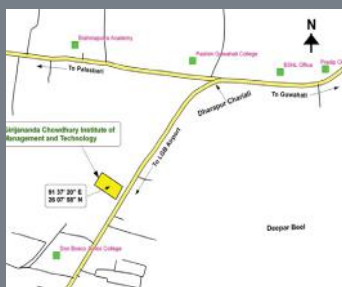
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Girijananda Chowdhury Institute of Management and Technology, Guwahati (GIMT-Guwahati) is conveniently located at Azara, Guwahati on the National Highway No. 37 from Guwahati to Goalpara. It is away from traffic hustle of Guwahati City and provides a congenial atmosphere for diligent academic pursuit. It is an idyllic spot located 5 Km to the east of Lokapriya Gopinath Bordoloi International Airport and 16 Km from Guwahati Railway station. Sprawled over more than 6 acres of land, it is on the bank of famous Deepor Beel, a natural water body which is heaven for birdwatchers and lovers of aquatic life. The majestic Khasi and Jayantia hills stand on the southern side of the Beel providing a green picturesque view that is soothing to the eye. The Institute is well connected to the city and to all other places of the country through various modes of public and private transport.