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Tezpur University Accredited by
NAAC: Grade "A" with CGPA 3.25

Tezpur University features in Global Rankings



Times Higher Education World University Rankings 2016-17: Tezpur University ranks in the band of 601- 800 in the list of top 980 universities of the world. IIT Guwahati is the other Institute in this region to be placed in the same band.

Times Higher Education BRICS and Emerging Economies Rankings: Tezpur University ranks 140 out of 200 Universities.

Times Higher Education Asia University Rankings 2017: Tezpur University is placed in 131-140 ranking amongst top 300. The other Indian Universities ranked above Tezpur University are – Venkatesh University, Jadavpur University and Punjab University.



From the Vice Chancellor



My Best Wishes

The Editorial team of the Newsletter informed me about the readiness of this issue (Volume 10; Issue-1; April 2017) of the Newsletter, which will be released on 7 April, 2017. This coincides with our XIV Convocation being held on the same day. A good coincidence! It will be a happy moment to present copies of the Newsletter to the Chief Guest of the Convocation, Professor Goverdhan Mehta, FRS, Distinguished Professor of Hyderabad University; our Chancellor, His Excellency Shri Banwarilal Purohit, the Honourable Governor of Assam; our beloved Chief Minister of Assam, Shri Sarbananda Sonowal and attendees of the Convocation.

The *TU Newsletter* is an epitome of credibility for the institution as it highlights many major happenings in the University. This issue will not be an exception in informing us about the new addition to our faculty; recent accolades received by our students, faculty members and staff; newer installations and additions to our infrastructure and some specific achievements in other fronts as well. I have been very happily tracking the quality and number of research publications of

our faculty and research scholars: particularly our colleague Professor Niranjan Karak winning the Visitor's Best Research Award; a Patent being granted to Prof. Robin K. Dutta for "Removal of Arsenic from Ground Water"; our students winning five (5) medals including a Gold in the National UNIFEST 2017 and Dr. Pabitra Nath, his research scholar Mr. Iftak Husain and Dr. Kamal Uddin Ahamad winning the BIRAC-SRISTI Gandhian Young Technological Innovation (GYTI) Award, 2017 which was formally presented to them in the Rashtrapati Bhawan on 05 March 2017 by Professor R. A. Mashelkar, FRS, to cite a few instances.

All this and few more recognitions received by the various stake holders of the University will go a long way in achieving further heights by our University in the academic arena. The footfalls of several acknowledged academicians and researchers on our campus through different programmes including GIAN rendered the University a vibrant academic hub.

Finally, I thank the editor and her able team members for timely bringing out the scheduled issue containing a host of important information.

Mihir K. Chaudhuri

Editorial

This issue of the Tezpur University Newsletter is special as we celebrate the University's gradual entry into global rankings. This steady and hard earned success has been possible due to the rigorous leadership, administrative hard work and passionate academic involvement of our colleagues and students. The Newsletter is only a glimpse of the myriad hues that colour the beautiful campus. It definitely does

not capture each and every aspect of the university life, yet tries to offer a slice of the same.

The editorial team would like to thank the members of the university community for providing the information compiled here. While we have made a sincere effort, any error is deeply regretted. We look forward to your comments and suggestions.

Awards and Achievements



Prof. Niranjana Karak, Department of Chemical Sciences received the Visitor's Award 2017 along with Professor Shyam Sundar of Banaras Hindu University in the 'Research' category.

Prof. M. K. Chaudhuri, Vice -Chancellor, receives the Academic Excellence Award 2017 from Amity University, Noida on 9 February 2017, during the Seventeenth International World Summit "INBUSH ERA 2017".

Prof. M. K. Chaudhuri, Vice -Chancellor, is selected for the Second Acharya P C Ray Memorial Award by the Indian Chemical Society, Kolkata.

Prof. Nashreen S. Islam, Department of Chemical Sciences, Tezpur University, is awarded the prestigious Indian National Science Academy (INSA) Teacher Award for the year 2016, for excellent contribution to Chemistry education.

Dr. Nayan M. Kakoty, Department of ECE is awarded the Best Young Engineer Award (North East Region, India) by Senior Engineers Forum- Guwahati on the XIIIth Foundation Day, 20th February 2017, at Institution of Engineers (India) Assam Centre, Guwahati.

Dr. Pabitra Nath's Research Team, comprising of Iftak Hussain, Research Scholar of the Department of Physics and Dr. Kamal Uddin Ahamad, Department of Civil Engineering has been selected for the prestigious BIRAC-SRISTI Gandhian Young Technological Innovation (GYTI) Award 2017.

Prof. Niranjana Karak is awarded the Bronze Medal 2016 from the Chemical Research Society of India .

Prof. A. K. Nath receives 'Surya Antar Bharati Bhasha Samman 2016' of Surya Sansthan, Noida, U.P.

Mr. S. P. Deka receives the "Yuva Puraskar" by Bharatiya Bhasha Parishad for the year, 2015-16, for the Assamese language category.

Prof. R. R. Hoque receives the Fulbright-Nehru Academic & Professional Excellence Fellowship (Research) to conduct research in the USA.

Dr. S. S. Bhattacharya received the Anniversary Best Teacher Award.

Dr. V. K. Nath and Dr. B. Deka, Dept. of ECE receive the Young Faculty Research Fellowship under its VISVESVARAYA PhD scheme, approved by the Ministry of Communication and Technology, GOI.

Dr. Nayan M. Kakoty (Team Lead), Paragmoni Kalita, Durlav Sonowal and Zubin Bhuyan were adjudged winners of the *e-Yantra* Challenge 2016 by Indian Institute of Technology, Bombay.



Prof. T. K. Maji and his Research Scholar Ms. Chinmayee Saikia have been selected as 'Runner' for "7th National Award for Technology Innovation" in the category of "Research in the Field of Polymer Science & Technology for Researchers Working in Academic Institute/Research Lab" for the innovation in "Development of Polymer Coated Iron Oxide Magnetic Nanoparticles for Targeted Delivery of Anticancer Agent".

Awards and Achievements

Prof. Pritam Deb was conferred APS-IUSSTF Professorship award in Physics from the American Physical Society for the year 2016-2017.

Dr. Nirmali Gogoi receives Raman Fellowship for Post-Doctoral Research to USA. (2015-2016)

Dr. Anushabda, Department of Hindi receives 'Surya Antar Bharati Bhasha Samman - 2016' of Surya Sansthan, Noida, U. P.

Dr. Ratul Kr. Baruah, selected for INSA-DFG Bilateral Exchange Programme 2017 to Visit Germany for 2 months.

Dr. Bhabesh Deka was awarded the Best paper presenter in ETAEERE-2016, SMIT, Sikkim on 17 December, 2016.

Dr. Bhabesh Deka and Mr. Sumit Datta (Research scholar) were jointly awarded the best poster presentation by the OSI (Optical Society of India) on 27 November, 2016.

Dr. Subhra Devi, Assistant Curator received the Nehru Trust UK visiting Fellowship for "Documentation of Textile Motifs of Assam in the Collections of UK" for a period of one month during January, 2017.

Prof. Chandan Kumar Sharma has been appointed as the Editor of *Explorations*, e-journal of the Indian Sociological Society from January, 2017.

Dr. K. K. Dash received post-doctoral fellowship in the Ohio State University, Columbus, Ohio, USA for a period of one year (2016-17).

Dr. R. K. Duary received the Best Teacher Award from School of Engineering, Tezpur University for the year 2016.

Mr. D. K. Seth received the Young Scientist iCFP 2016 Award at the 2nd International Conference on Food Properties held at Bangkok, Thailand during May 31-June 2, 2016.

Prof. Pritam Deb received Anniversary Best Teacher Award of Tezpur University in 2016.



Prof. Robin K. Dutta, Department of Chemical Sciences and his PhD students Dr. Shreemoyee Bordoloi and Dr. Suresh Kumar Nath received an Indian Patent (No. 280737) in February 2017 for arsenic removal technology, titled 'Arsenic removal from groundwater by oxidation-coagulation at controlled pH for domestic and community applications'. It may be mentioned here that the technology is gaining popularity as 'Arsiron Nilogon' and is being used in a PHED water supply scheme, in 75 schools and over 500 households in Assam.

Admission of new International scholars

In June 2016, the International Office processed the formalities to admit six new international scholars in Autumn Semester 2016: Leonard K. Kanime (Namibia; MA in Mass Communication and Journalism); Sam Herman Nekaro (Namibia; MBA); Molla Dejene Tariku (Ethiopia; Integrated M Com); Surachad Rittito (Thailand; Integrated MA English); Margret Mwale (Malawi, MA Social Work) and Malek al Hasan (Syria; MA Linguistics and Language Technology).

Prof. D. C. Baruah is awarded Visiting Researchship at University of South Africa for the duration, July-December 2017.

Awards and Achievements

Ms. Hilly Gohain Baruah and Mr. Satyabrat Malla Bujar Baruah, Research Scholar of ECE receive Best Volunteers award of the Vittiya Saksharata Abhiyan (VISAKA) held at the Plenary Hall, Vigyan Bhavan, New Delhi on 8 March, 2017.

Mr. Abhishek Yadav won the 1st Prize in B-Idea Computation in the recently held SAMPARK – 2017.

Mr. Debashis Sut and Ms. Honey Brahma have received the 1st and 2nd Best Poster Award respectively in the National Conference on Renewable Energy Technology Utilization for Rural Development & Trade Show, organized by the Department of Energy Engineering, NEHU, Shillong, 27 February – 1 March, 2017.

Ms. Neon Bordoloi was awarded the Best Poster award (Bioenergy & Biofuels category) in the International Conference on Current Trends in Biotechnology (ICCB-2016), organized by VIT University, Vellore, December 8-10, 2016.

Mr. Sibasish Dutta, Research Scholar, under the guidance of Dr. Pabitra Nath, was awarded the best OSA poster presentation in XL-OSI International Conference on Light & Light Based Technologic, organized by Tezpur University on November 26-28, 2016.

Ms. Rizwin Khanam, Research Scholar from Department of Physics has received Maulana Abul Kalam Azad National Fellowship for Minorities from UGC, New Delhi from 2016 to 2018.

Ms. Dimpi Paul, Research Scholar, under the guidance of Dr. Rajib Biswas, was awarded the best paper presentation in the National Conference on Hard and Soft Condensed Matter Physics-2017 organized by Tezpur University, March 2-4, 2017.

Ms. Kakoli Bhattacharya, Research Scholar, was awarded the Raman-Charpak Fellowship to carry out a part of her doctoral research work in Claude Bernard University, Lyon 1, France.

Ms. Kakoli Bhattacharya, Research Scholar, was awarded the Newton-Bhabha Fellowship by DST, Govt. of India to conduct a part of her doctoral research work in the University of Nottingham, UK.

Ms. Kashmiri Deka, Research Scholar, received the best poster award in the Material Research Society of India (MRSI) symposium on “Advanced Materials for Sustainable Applications” and 27th Annual General Meeting of MRSI at CSIR-NEIST, Jorhat.

Mr. D. K. Jha, Research Scholar, was conferred “Best Innovation Idea” prize on World IPR Day.

Mr. S. K. Behera, Research Scholar, participated in American Physical Society March Meeting-2017 at New Orleans, USA through SERB-DST International Travel Scheme.

Mr. Pallab Kumar Borah, Research Scholar, is selected for Commonwealth Split-Site PhD Programme for the year 2015-2017.

Mr. Hilal Ahmed Makroo, Research Scholar, is selected for Commonwealth Split-Site PhD Programme for the year 2015-2017.

Mrs. Elizabeth W. Devi, Research Scholar, has been selected for Newton Bhabha PhD Placement Programme for the year 2016-2017.

Mr. Shah Faisal, Research Scholar, is awarded the Chinese Government Scholarship for the year 2016-18.

Mr. Monjurul Hoque received GE foundation fellowship for the year 2016-17.

Ms. Riya Bhadra received IASc-INSA-NASI summer research fellowship, 2016 .

Mr. Onkar Sharma received IASc-INSA-NASI summer research fellowship, 2016.

Seminar / Conferences / Events

- An Interaction Session on “Incubation Startup and Entrepreneurship” was held on 02.02.2017 at Dean’s Gallery, with 200 students and teachers who interacted with Ms. Prathibha Sastry, one of the lead members of a Think Tank for start-ups policy making from the iSPIRT Foundation, Bengaluru
- A one day Intra-University Sensitization Workshop on “Introduction to Robotics”, Centre for Innovation, Incubation and Entrepreneurship was held on July 30, 2016
- 42nd All India Sociological Conference of Indian Sociological Society was organized by the Department of Sociology, during December 27- 30 , 2016
- Young Researchers Workshop of Indian Sociological Society was organized by the Department of Sociology, during December 26– 27, 2016
- A two day Workshop on Internet of Things (IoT) Capacity Building, was presented by C-DAC, Pune during May 30 – 31, 2016
- A two week Winter School on Molecular Evolution, was jointly organised by Department of CSE and Department of MBBT during December 5– 15, 2016
- A 3-day workshop on high performance computing and the use of PARAM-TEZ was held during August 9 - 11, 2016
- A Special Lecture by Prof. Sujata Patel, University of Hyderabad, on “Conceptualizing Groups, Regions and Marginality in Northeast India”, was organized by Maulana Azad Centre for Research on Northeast India (MACRONEI) on 2 September, 2016
- GIAN: International Summer Course on Communication for Development, with Prof. David Mould, Scripps College of Communication, Ohio University as the resource person was organised at Department of MCJ during June 6-16, 2016



The Department of Education organized a workshop on Arts in Education on 22 November 2016 for B.Ed. students.



Prof. P. K. Das, IISc, Bangalore delivering a lecture in the Science Academies Lecture Workshop on “Magnetic and Optical Properties of Molecular Materials: Principles and Applications” held during 19-21 October, 2016

- The Department of MCJ hosted Dr Yusuf Kalyango Jr., Professor of International Journalism and Director, International Institute of Journalism of EW Scripps School of Journalism, Ohio University, USA as part of the Fulbright Scholar-in-Residence programme from October 3 to November 11, 2016
- The Department of MCJ hosted Prof. Yusuf Kalyango Jr., Professor of International Journalism of EW Scripps School of Journalism, Ohio university, USA to lecture on a GIAN course, ‘Journalism and Society’, during 2- 13 January, 2017
- The Department of MCJ organized a national-level seminar, sponsored by ICSSR, Delhi on the theme ‘Media Literacy in the age of Convergence’ during 30- 31 January, 2017
- The Department of MCJ organized a day-long photography exhibition on January 30, 2017 as part of the Visual Communication course of the Semester I of MA-MCJ programme
- The Department of Education organized a two day workshop on M.Ed curriculum during 28-29 November 2016
- The Department of Education organized a workshop for Teacher Educators during 1 – 2 December, 2016
- The Department of Education organized an orientation programme for faculty members during 8 – 9 December, 2016
- A Seminar "Commerce Education and Beyond- The Professional Edge" was held on November 15, 2016 at KBR Auditorium. The President of the Institute, CMA Manas Kumar Thakur, was present in the seminar
- A National Seminar on “Climate Change and Society” (CCS2017) was organised by Dept. of Environmental Sciences on 24-25 February, 2017. It was jointly funded by UGC –SAP and Ministry of Earth Sciences, Govt. of India

Seminar / Conferences / Events



A day-long programme was organised by the Department of Business Administration on the occasion of World Tourism Day on 27 September, 2016

- One day workshop on Biomass cook stoves was organized by C-Quest Capital, New Delhi and Department of Energy, Tezpur University on September 8, 2016
- Suryamitra Skill Development Program was organized by Tezpur University during May 2 - July 30, 2016, which was sponsored by the Ministry of New and Renewable Energy, Government of India, New Delhi
- Global Initiative of Academic Networks (GIAN) Course on Energy Management and Renewable Energy Intervention for Industrial Drying, was organized by Department of Energy in collaboration with Department of Food Engineering and Technology, during June 13-24, 2016, which was sponsored by MHRD, Government of India, New Delhi
- Training of Trainer's Workshop in Solar PV was organized jointly by Anthro Power, New Delhi and Department of Energy, Tezpur University, which was sponsored by Clean Energy Access Network during May 2-5 2016
- Professor Donato Aranda, Ph.D. (PI) and Prof. Yordanka Reyes Cruz, Chemical Engineering Department, Federal University of Rio de Janeiro, Brazil visited Tezpur University during February 8-15, 2017 in connection with an ongoing joint collaborative Indo-Brazil research project
- The International Office organized a seminar for students on overseas educational opportunities, conducted by Global Reach consultant, on September 9, 2016. On February 7, two information seminars, one for faculty and the other for students were conducted by Sudarshan Das and Sumanta Basu of the United States-India Educational Foundation, Kolkata
- An academic group discussion was organized by the study circle of Chandraprabha Saikiani Centre for Women Studies on 21 October, 2016
- A one day Gender Sensitization programme was held on 29 November, 2016 in association with Rajiv Gandhi National Institute of Youth Development
- An interactive session featuring eminent author Nirupama Borgohain and distinguished artiste Mridula Das on the topic "Kirtan Dasam Namghosa haok amar shouryya" (Bishnu Prasad Rabha) was held on 22 February, 2017
- A Special Lecture on the topic "Perspectives on Srimanta Sankaradeva and Sri Sri Madhavadeva", by distinguished litterateur and former President of Assam Sahitya Sabha, Dr Lakshminandan Bora, was held on February 3, 2017. "Sarvagunakara", a portrait of Srimanta Sankaradeva based on his images, by distinguished anthropologist Professor Irshad Ali was also unveiled on the occasion
- A Special Lecture on the topic "Srimanta Sankaradeva and Assamese Muslims" by distinguished Assamese poet, critic and scholar, Professor Kamaluddin Ahmed, Department of Assamese, Gauhati University was held on 11 November, 2016
- A Special Lecture on "Manuscript Writing in Early Assam: *Sancipat, Mahi and Hengul-Haital*" by Prof. Robin Dutta and an interactive session "On translating Newton's *Principia* into Assamese" with Prof. Jayanta Kumar Sarma was organised on 10 November 2016
- A one day Workshop on 18th Century Assam-Manuscripts with Shri Dhanjit Talukdar of the K. K. Handiqui Library, Gauhati University, Archives was organised on 08 November 2016



A two day "Legal Awareness Programme on Women" was organised by Chandraprabha Saikiani Centre for Women's Studies, in association with Tezpur Law College, sponsored by National Commission for Women on 1 - 2 November 2016 at Council Hall.

Seminar / Conferences / Events

- The fifth Foundation Day of the Centre for Assamese Studies was celebrated with two lectures: (1) "Rewriting the History of Assamese Literature: the 18th Century" by Dr Satish Ch. Bhattacharya and (2) "Rewriting the History of Assamese Literature: the 19th Century - Miles Bronson and His Times" by Professor Prasanta Kumar Das on 7 June, 2016
- Training and Placement Cell organized a workshop on AutoCAD and CATIA & STAADPRO by professional trainers from February 16 - 19, 2017
- The Department of English and Foreign Languages organized UGC SAP-DRS Conference on *Shakespeare at 400: Producing Modernity/Modernities* on 15 November 2016 with a key-note speech by Prof. Imtiaz Habib, Professor of English at Old Dominion University, Norfolk, Virginia (US)
- The Department of English and Foreign Languages organized UGC SAP-DRS Workshop on *Archival Research and Literary Studies* on 14 November 2016
- The Department of EFL organized a Workshop on Computational Linguistics with Special Focus on Natural Language Processing and Mission Translation, funded by Centre for Endangered Languages, during 27- 29 July, 2016
- An Interactive Meeting was held on "Molecular Intricacies in Plant Associated Microorganisms" during November 18–19, 2016
- A National Seminar on Snake Venom Research and Snakebite Therapy: National and International Perspectives (SnakSymp2016) was held during November 22-24, 2016



The seventh Srimanta Sankaradeva Lecture, Tezpur University was delivered by Professor Baniprasanna Misra, Former Director, Centre for Himalayan Studies, University of North Bengal 15 September, 2016.



Aandharor Xipare (Beyond Darkness) : A street play organized by the students of the Department of EFL led by Dr. Debasish Mohapatra on February 28, 2017

- DBT institutional Biotech HUB workshop on "Basic Techniques in Microbiology" was held during November 11–16, 2016
- GIAN Winter School on Molecular Evolution in Bacteria was held during December 5 -15, 2016
- DBT sponsored Bioinformatics Infrastructure Facility Coordinators' meeting NE (NEBINET) was held during January 17-19, 2017
- A National Seminar on Petroleum Biotechnology and Bioenergy was organized during March 3- 4, 2017
- A National Seminar on Diarrhoeal disease burden and management: special reference to North East India. CME on "Infantile diarrhoea, its prevention and management" was held during March 10 -11, 2017
- A ten day workshop, "Personality Development Programme", was organized from August 27 to September 5, 2016
- A three day National Seminar on "Issues and Challenges in Higher Education" was organized during November 21 - 23, 2016
- A Workshop On Quality Teacher Education: Capacity Building of Teacher Educators was organized during December 1– 2, 2016 with Prof. Santosh K. Panda, former Chairman of the National Council for Teacher Education, currently Professor at Indira Gandhi National Open University (IGNOU), New Delhi as the Resource Person
- TLC funded and co-organized a 21 day Refresher Course in Cultural Studies (Interdisciplinary) during January 2-22, 2017

Seminar / Conferences / Events



Teaching Learning Centre (TLC), jointly with Indian Institute of Science Education and Research (IISER), Pune and the British Council, organized a three-day Training Workshop on Research Based Pedagogical Tools (RBPTs) for Teachers of Undergraduate Science Courses during January 28-30, 2017 conducted by a team of trainers from the Sheffield Hallam University, UK and Indian experts from the area of education and policy

- A two day Workshop on Massive Open Online Courses (MOOCs) was organized by Teaching Learning Centre (TLC) during November 24- 25, 2016 with Professor Santosh K. Panda, former Chairman of the National Council for Teacher Education, currently Professor at Indira Gandhi National Open University (IGNOU), New Delhi as the Resource Person
- CSIR-UGC NET coaching programme was organized from October 17 to November 18, 2016 for the students of School of Humanities and Social Sciences and School of Sciences
- A new course, Post Graduate Diploma in Child Rights and Governance (PGDCRG), started with support from UNICEF- Assam



Outreach programme - The students of PGDCRG participated in *Pub Mohura Sishu Sabha* organized by UNICEF-Assam with support from KKHSOU, North East Social Trust (NEST) and *Sadou Asom Maina Parijat* on September 22, 2016 at Bokakhat, Assam

- An Induction programme was organized for the students of Post Graduate Diploma in Child Rights and Governance during August 8 -9, 2016. Ms. Feroogh Foyouzat, Chief of Field Services, UNICEF, Delhi; Dr. Tusher Rane, Chief, UNICEF – Assam; Ms. Enakshi Ganguli, Founder HAQ, Centre for Child Rights, Delhi; Ms. Bharti Ali, Co-Founder- HAQ, Centre for Child Rights, Delhi; Dr. Ruchira Goswami and Dr. Mahesh Menon from the WB National University of Juridical Sciences, Kolkata were present on the occasion



NCC unit Tezpur University and 5 Assam Bn organized NER National Integration Camp during December 19 - 30, 2016 at Tezpur University campus. The camp was inaugurated by Honourable Governor of Assam and witnessed the participation of 620 boy and girl cadets from 16 states, representing various NCC directorates.

Campus Placement

The University witnessed the participation of a multitude of organizations across varied domains for Campus Placement. Twenty six organizations participated in the final placement process. Some of the prominent brands include Oil India, Power Grid Corporation of India Ltd., NEDFI, Amazon, Sap Labs, Tech Mahindra, Wipro Technologies, Cummins India, ITC, Intel, Asian Paints, Berger Paints, Pantaloons, DHL, HDFC Bank, Dalmia Cements, Axis Bank, Colgate Palmolive, ICICI Bank, Mahindra Finance, Zaloni Technologies, Dabur, AMUL, Papertrue, PRADAN, Everest Industries etc. The positive feedback of the corporate visitors enhanced the enthusiasm of our students in the placement process. The batch diversity, in terms of gender, was well appreciated by the industry.

Select List of Publications

(This is a representative list as submitted by the respective departments. The complete list of publications is available in the Annual Report of the University.)

SCHOOL OF ENGINEERING

Department of Civil Engineering

Chakraborty, A. and Sharma, N. (2016). A comparative study of Geological and Engineering properties of River Borne Aggregates and Quarry Aggregates. *International Journal of Innovative Research in Science, Engineering and Technology*, 5(6): 11001-11009. DOI:10.15680/IJRSET.2015.0506129.

Das, U. K. (2016). A Case Study on Performance of Jia Bharali River Bank Protection Measure Using Geotextile Bags. *International Journal of Geosynth. and Ground Engineering*, 2(12): DOI: 10.1007/s40891-016-0052-8.

Das, U. K. (2016). Prediction of Settlement of Bored Cast-in-situ RCC Pile using N-Value. *International Journal of Innovation Research in Sc., Engg. and Technology*, 5(7): 13987-13995. DOI: 10.15680/IJRSET.2016.0507235.

Doley, C., Das, U. K., Phukan, P. K., Dutta, D and Bora, P. (2016). A Study on Use of Brahmaputra River Sand as a Liner Material for Municipal Landfills. *IOSR Journal of Mechanical and Civil Engineering*, 13(4): 91-96. DOI: 10.9790/1684-1304039196.

Hussain, I., Ahamad, K. U. and Nath, P. (2017) Low-cost, robust and field portable smartphone platform photometric sensor or fluoride level detection in drinking. *Analytical Chemistry*, 89 (1): 767-775.

Hussain, I., Das, M., Ahamad, K. U. and Nath, P. (2016). Water salinity detection using a smartphone, *Sensors and Actuators B: Chemical*, 239, 1042-1050. DOI: <http://dx.doi.org/10.1016/j.snb.2016.08.102>.

Saikia, A. (2016). Numerical investigation on vibration isolation by softer in-filled trench barriers. *Journal of Geoengineering Sciences*, 3(1): 31-42. DOI: 10.3233/JGS-150034.

Saikia, A., Nath, B., Baruah, S., Rahman, Md. I., Kumar, V. and Deka, A. (2016). Improving geotechnical characteristics of fine-grained soil using rice husk ash. *IOSRD International Journal of Engineering*, 3(1): 27-32. DOI: <http://dx.doi.org/10.2202/ije.v3i1.166>.

Department of Computer Science and Engineering

Ahmed, R. A. and Borah, B. (2016). An Iterative Search based Technique to Find or Predict Older Face Images of a Child. *International Journal of Computer Applications (0975 - 8887)*, 151(6): 1-5.

Bhuyan, M. H., Bhattacharyya, D. K., Kalita, J. K. (2016). E-LDAT: a lightweight system for DDoS flooding attack detection and IP trace back using extended entropy metric. *Security and Communication Networks*, 9(16): 3251-3270.

Borah S. K. and Sharma U. (2016). Phrase and Idiom Identification in Assamese. *Journal Procedia Computer Science*, 84: 65-69.

Hussain I., Ahmed Z. I., Sarma, N., and Saikia, D. K. (2016). An Efficient TDMA MAC Protocol for Multi-hop WiFi-based Long Distance Networks, *Wireless Personal Communications (Springer)*, 86(4): 1971-1994.

Kakoty, N. M., Hazarika, S. M. and Gan, J. Q. (2016). EMG feature set selection through linear relationship for grasp recognition. *Journal of Medical and Biological Engineering*, 36(6): 883-890.

Kashyap, H., Ahmed, H. A., Hoque, N., Roy, S. and Bhattacharyya, D. K (2016). Big data analytics in bioinformatics: architectures, techniques, tools and issues, *Network Modeling Analysis: Health Informatics and Bioinformatics*, 5(1): 28.

Keretsu, S. and Sarmah, R. (2016). Weighted Edge Based Clustering to Identify Protein Complexes in Protein Interaction networks incorporating Gene Expression Profile. *Computational Biology and Chemistry*, 65: 69-79.

Muchahari M. K. and Sinha S. K. (2016). MMH: An Effective Clustering Algorithm for Trustworthy Cloud Service Provider Selection. *International Journal of Computer Science and Information Security*, 14 (5): 281.

Satapathy, S. S., Powdel, B. R., Buragohain, A. K., Ray, S. K.(2016). Discrepancy among the synonymous codons with respect to their selection as optimal codon in bacteria. *DNA Research*, 23(5): 441-449.

Singla, A. and Patra, S. (2016). A fast automatic optimal threshold selection technique for image segmentation. *Signal, Image and Video Processing*.1-8.

Department of Energy

Baruah, D., Baruah, D. C and Hazarika, M. K. (2017) Artificial neural network based modeling of biomass gasification in fixed bed downdraft gasifiers, *Biomass and Bioenergy*, 98: 264-271.

Bordoloi, N., Narzary, R., Sut, D., Saikia, R., Chutia, R.S. and Katak, R.(2016). Characterization of bio-oil and its sub-fractions from pyrolysis of *Scenedesmus dimorphus*. *Renewable Energy*. DOI: 10.1016/j.renene.2016.03.081.

Katak, S, Hazarika, S. and Baruah D. C (2016). Assessment of by-products of Bioenergy systems (Anaerobic Digestion and Gasification) as potential crop nutrient, *Waste Management*. 10.1016/j.wasman. 2016. 10. 018

Brahma, A., Saikia, K., Hiloidhari, M. and Baruah, D. C. (2016). GIS based planning of a biomethanation power plant in Assam, India. *Renewable and Sustainable Energy Reviews*, 62: 596-608.

Select List of Publications

Devi, A., Das, V. K. and Deka, D. (2016). Ginger extract as a nature based robust additive and its influence on the oxidation stability of biodiesel synthesized from non-edible oil. *Fuel*, 187: 306-314.

Devi, A., Das, V. and Deka, D. (2016) Catalytic Transformation of Four Non-Edible Vegetable Oils into Biodiesel using Egg Shell (Cao) as A Catalyst and Assessment of Their Fuel Properties. *International Journal of Recent Development in Engineering and Technology*, 5 (8): 16-19.

Gyula, Novodárszki, György, Onyestyák, Róbert Barthos, Ágnes Farkas Wellisch, Thakur, A. J., Deka, D. and József, Valyon. (2017) Guerbet alkylation of acetone by ethanol and reduction of product alkylate to alkane over tandem nickel/ Mg,Al -hydrotalcite and nickel molybdate/ γ -alumina catalyst systems. *Reaction Kinetics, Mechanisms and Catalysis*, 1-13. DOI: 10.1007/s11144-016-1132-4. Online

Kataki, S., Hazarika, S. and Baruah, D. C. (2017) Investigation on by-products of bioenergy systems (anaerobic digestion and gasification) as potential crop nutrient using FTIR, XRD, SEM analysis and phytotoxicity test. *Journal of Environmental Management*, 196: 201-216.

Kataki, S., Hazarika, S. and Baruah, D. C. (2017). Assessment of by-products of Bioenergy systems (Anaerobic Digestion and Gasification) as potential crop nutrient. *Waste Management*, 59: 102-117.

Talukdar, B., Buragohain, S., Kumar S., Umakanth, V., Sarmah, N. and Mahapatra, S. (2016). Effect of spectral response of solar cells on the module output when individual cells are shaded. *Solar Energy*, 137; 303-307.

Verma, R. and Samdarshi, S.K. (2016) In-Situ Decorated Optimized CeO₂ on Reduced Graphene Oxide with Enhanced Adsorptivity and Visible Light Photocatalytic Stability and Reusability. *The Journal of Physical Chemistry C*. 10.1021/acs.jpcc.6b04493

Department of Food Engineering and Technology

Barman, N., and Badwaik, L. S. (2017). Effect of ultrasound and centrifugal force on carambola (*Averrhoa carambola* L.) slices during osmotic dehydration. *Ultrasonics Sonochemistry*, 34, 37-44.

Bora, A., and Mishra, P. (2016). Characterization of casein and casein-silver conjugated nanoparticle containing multifunctional (pectin-sodium alginate/casein) bilayer film. *Journal of Food Science and Technology*, 10.1007/s13197-016-2343-4.

Deka, D. and Sit, N. (2016). Dual modification of taro starch by microwave and other heat moisture treatments. *International Journal of Biological Macromolecules*, 92: 416-422.

Gope, S., Duiy S., Paul, A.K., and Das, A. B. (2016), Effect of alcohol-acid modification on physicochemical, rheological and morphological properties of glutinous rice starch. *International Journal of Biological Macromolecules*, <http://dx.doi.org/10.1016/j.ijbiomac.2016.09.057>.

Kalita, D., Sarma, B. and Srivastava, B. (2017). Influence of germination conditions on malting potential of low and normal amylose paddy and changes in enzymatic activity and physico chemical properties. *Food Chemistry*, 220: 67–75.

Saxena J., Makroo H. A. and Srivastava, B. (2016) Optimization of Time-Electric Field Combination for PPO Inactivation in Sugarcane Juice by Ohmic Heating and its Shelf Life Assessment. *LWT- Food Science and Technology*, 71: 329-338.

Seth, D., Mishra, H. N. and Deka, S. C. (2016). Functional and Reconstitution Properties of Spray Dried Sweetened Yoghurt Powder as Influenced by Processing Conditions. *International Journal of Food Properties*. DOI 10.1080/10942912.2016.1214965

Vivek, K., Subbarao, K. V. and Srivastava, B. (2016). Optimization of post harvest ultrasonic treatment of kiwi fruit using RSM. *Ultrasonics Sonochemistry*, 32: 328–335.

Department of Mechanical Engineering

Banerjee, S. and Gogoi, S. (2016). Influence of Trace Addition of Cd on the Hardness and Impact Properties of 2219 Al Alloy. *Journal of Basis and Applied Engineering Research*, 3 (13): 1202.

Deka, A. and Datta, D. (2017). B-spline curve based optimum profile of annular fins using multi-objective genetic algorithm. *Journal of Thermal Stresses*, DOI: <http://dx.doi.org/10.1080/01495739.2016.1276419>.

Deka, A. and Datta, D. (2017). Geometric size optimization of annular step fin using multi-objective genetic algorithm. *Journal of Thermal Science and Engineering Applications*, DOI: 10.1115/1.4035838.

Deka, D. and Datta, D. (2017). Multi-objective optimization of the scheduling of a heat exchanger network under milk fouling. *Knowledge-Based Systems*, 121: 71-82.

Dutta, P. P., Konwar, A., Baruah, A. and Kumar, V. (2016). A technical review of lawn mower technology. *ADBU-Journal of Engineering Technology*, 4(1): 179-182.

Kakati, J. and Gogoi, T. K. (2016). Biodiesel Production from Kutkura (*Meynaspinoso* Roxb.Ex.) Fruit seed oil: its characterization and engine performance evaluation with 10% and 20% blends. *Energy Conversion and Management*, 121: 152-161.

Select List of Publications

Kalita, P. and Gogoi, A. (2016). Performance of some limiters on the higher order computation of in viscid hypersonic flows. *ADBU-Journal of Engineering Technology*, 4(1): 62-66.

Kumar, V., Nishant, Hussain, Md. A. and Kalita, P. (2016). Effect of free stream parameters on the laminar separation in hypersonic shock wave boundary layer interaction. *ADBU-Journal of Engineering Technology*, 4(1): 101-107.

Nath, M. K., Chowdhury, A. and Dutta, P. (2016). Finite Element Simulation for thermal analysis in Laser forming of D36 ship building steel. *ADBU-Journal of Engineering Technology*, 4(1): 1-6.

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Centre for Assamese Studies

Deka, S. P. (2016) Arhi Tiruta : Eti Toka (Arhi Tiruta: A Note). *Prakash*, 52: 71-77.

Deka, S. P. (2017) Sakhawat Ali aru teor dukhan grantha (Sakhawat Ali and his two books). *Amar Asom*. 8 January, 2017: 8.

Deka, S. P. (2017). Asamiya Dharma pustakar prakasnar Chan:1813 ne 1820? *Prakash*: 31-33.

Dutta, Juri. (2016) Asomat Stree Siksha aru Ghar-Jeuti (Female Education in Assam and Ghar-Jeuti). *Prakash*, 55: 74-79.

Dutta, Juri. A short story 'Duta Samantaral Sapon (Two Parallel Dreams)' in *Dainik Asom* (Puja Special Issue) Tribune Press October, 2016.

Chandraprabha Saikiani Centre for Women's Studies

Mahanta, Mousumi. Chandraprabha Saikiani: A crusader of Women Empowerment in Assam. *International Multidisciplinary Journal on Women and Gender Studies*, 2(1): 20-26. ISSN2454-7891.

Goswami, Madhurima. (2017) Hegemonic Masculinity: Rethinking of the Concept in Art. *Indian Journal of Arts*, 7 (21): 59-64. ISSN 2320-6659.

Department of Cultural Studies

Dutta, Parasmoni (2016). Intangible cultural heritage in India: reflections on selected forms of dance. In Stefano M. and Davis, P. (Eds.), *The Routledge Companion to Intangible Cultural Heritage*, pages. 230-239. Routledge, London and New York. ISBN: 978-1-138-86055-1

Mahanta, Pradip Jyoti (ed.) (2016). *Vaisnavite Music of Assam: Its Institutionalization and Performative Context*. Guwahati: Purbanchal Prakash in association with the Department of Cultural Studies, UGC-SAP-DRS (I). T.U. ISBN: 978-81-7213-281-1.

Nath, Debarshi Prasad (ed.). *Women's Narratives from North East India: Lives in the Margins*. Guwahati: Purbanchal Prakash in association with the Department of Cultural Studies, UGC-SAP-DRS (I). T.U. ISBN: 978-81-7213-282-8. April, 2016.

Nath, Debarshi Prasad and Parasmoni Dutta (eds.). *Perspectives in Cultural Studies*. Guwahati: Purbanchal Prakash in association with the Department of Cultural Studies, UGC-SAP-DRS (I). T.U. ISBN: 978-81-7213-283-5. April, 2016.

Department of Education

Chakrawarty, S. (2016). Effect of Electronic Game Contents on Study Habit of Elementary School Students. *Pedagogy of Learning*, 2(4): 1-9.

Padmavathy, R. D. (2016). Does Really Academic Stream of Study Influence Post Graduate Students' Value Preference? *International Journal of Research - GRANTHAALAYAH*, 4 (3:SE): 63-67.

Pal, R. and Pallai, P. (2016). Relative effectiveness of various training modes of teacher educators: Face to face, Video conferencing and Online. *Staff and Educational Development International*, 20 (01): 7-14.

Roy, N.R. and Bandopadhyay --- (2016). Parental encouragement and academic achievement of secondary level students, *International Journal of Arts & Education Research*, 5(3): 14-21.

Roy, N.R. and Das, C. Ch. (2016). Educational status of scheduled caste and scheduled tribe people in Assam, *JALJALI-A tri-lingual Half yearly Research Journal of Humanities and Social Sciences*, 3(1): 105-108.

Singh, R. (2017). A study of Vocational guidance needs of senior secondary school students in relation to their family type and socio-economic status. *International Journal of World Research*, 1 (XXXVIII): 39-45.

Sultana, Y. (2016). Developing listening skills in English among school children using technology support. *Journal of Indian Education*, 42(4).

Department of English and Foreign Languages

Barbora, M. and Borah G. K. eds. *Aspects of Modern Assamese*. Bhabani Books, Guwahati, for Tezpur University (Dept. of EFL, SAP-DRS Project). ISBN: 978-81-931983-3-9.

Biswas, Sravani. (2016). R. K Narayan and the Holy Man. *Journal of Literature and Culture Studies*, Mizoram University, III (III): 97-107. ISSN 23348-1188, Print.

Daimari, Esther (2017). Lapsed Landscapes: Graves, Caves and Ruins in Michael Ondaatje's *Anil's Ghost*. *Kakatiya Journal of English Studies*, 36: 69-84 (ISSN 0971-8877).

Select List of Publications

Daimari, Esther (2017). Scarred and Ruined Landscapes in Romesh Gunesequera's *Heaven's Edge*. *Assonance*, 17:144-154 (ISSN 2394-7853).

Gope, Amalesh and Mahanta, Shakuntala (2016). Perception of Lexical Tones in Sylheti. In Di Canio, C. et.al (eds). *Proceedings of the TAL-2016*, Buffalo, NY. DOI: 10.21437/TAL.2016. http://isca-speech.org/archive/TAL_2016/

Gope, Amalesh and Mahanta, Shakuntala. (2016b). Correlation between Sylheti tone and Phonation. In Barnes, Jon; Brugos, Alejna; Shattuck-Hufnagel, Stefanie; and Nanette Veilleux (eds). *Proceedings of the Speech Prosody 2016*, Boston, Lincolnshire, England. ISSN: 2333-2042. DOI: 10.21437/SpeechProsody. 2016

Jha, Pallavi. (2016) The 'Reader' in Digital Literature: Understanding the shift from 'Print' to the 'Digital'. In *English Literature in the Digital Era*. Ed. Lakhimai Mili, 1, 109-115, Pondicherry University, Bonfring, Coimbatore. (ISBN 978-93-85477-79-9). Print.

Medhi, Hemjyoti. (2016) Gender and Identity Politics: Arupa Patangia Kalita's *Felanee* (The Story of Felanee) and Rita Chowdhury's *Ei Samay Sei Samay* (Times Now and Then). *Asiatic* (An International Peer Reviewed Indexed Journal), 10 (1): 225-235. (ISSN 1985-3106)

Sarma, Madan M. (2016). *Asamiya Bhasha: Sankat aur Sambhavana (The Assamese Language: Crisis and Prospects)*. Nobel Publishers, Guwahati. (ISBN: 978-93-85587-06-1).

Sarma, M. M. and Sahoo, S. (2016). *Nine Years beyond the Patkai* (translation of Purnakanta Buragohain's travel narrative *Patkair Sipare Na-Basar*. Bhabani Books, Guwahati. (Dept. of EFL, SAP-DRS Project). (ISBN: 978-81-931983-1-5).

Department of Hindi

Anushabda (2017). *Cartoon Patrakarita: Swar aur Sandhan*, Vani Prakashan, New Delhi. ISBN-978-93-5000-028-1

Anushabda (Ed.) (2017). *Lok aur Shastra: Janajatiya Sahitya*, Vani Prakashan, New Delhi. ISBN-978-93-5229-379-7

Anushabda (2016), Ho Janajati: Asti aur Asmita. In *Sangharshashil Aadiwasi Samaj*, Ed. Gond, Ravi Kumar. pages 83-92. Sanmati Publishers & Distributers, Hapud, U.P ISBN No: 978-93-851933-5-4

Anushabda (2016). Ras nishpatti aur Abhinawgupta, *Bhasha*, 268: 91-100. ISSN No.- 0523-1418 (National) Print.

Anushabda (2016). Premchand Sahitya waya Dalit Sahitya, *Anukriti*, 8: 63-66. ISSN: 2250-1193 (International) Print.

Department of Social Work

Carpenter, D. and Vauquiline, P. (2016). Protecting Women from Domestic Violence in Assam, India? Evaluating Section 498-A, The Indian Penal Code (IPC), 1983 vs the Protection of Women from Domestic Violence Act (PWDVA), 2005. *Journal of International Women's Studies*, 18(1).

Kalarivayil, R. and Desai, P. N. (2016). Emerging Trends in Oncological Research in India: Issues and Challenges. *Astrocyte*, 3(1).

Nair, S. and Kalarivayil, R. (2017). "Saved a Generation": Campaigns against Hazardous Contraceptives in India, *Asian Journal of Social Science*, 45(1-2).

Saha. A. (Ed.) (2016). "Understanding Childhood", a course material for Post Graduate Diploma in Child Rights and Governance. Published by Centre for Inclusive Development, Tezpur University and UNICEF, Guwahati.

Department of Sociology

Barua, Pinky and Kedilezo Kikhi. (2016). Culinary Traditions, Aesthetics and Practices: Constructing Cultural Identity of Amri Karbis of Northeast India. *Journal of Northeast Indian Cultures (JNEIC)*. An International Journal of Assam Don Bosco University, 3 (2): 63-77.

Choudhury, Nandarani and Kedilezo Kikhi (2016). Mental Health, Gender and Society: The Social Epidemiological Connect. *Social Change and Development*. XII: 69-80. Bi-annual Journal of OKD Institute of Social Change and Development, Guwahati.

Dowarah, Kuntala and Kikhi, Kedilezo (2016). Health Status, Health Policy and Lisu Tribe of Northeast India: Critiquing Implementation of Schemes – Is it Willful Negligence or Failure? *Anthropology Today: An International Peer Reviewed NEIRA Journal*. II(3): 50-64.

Kalam, M. A. (2016). Lineage Ownership to Individual Rights: Social History of Jamma Land Tenure in Kodagu. *Economic and Political Weekly*, 51: 26-27.

Kikhi, Kedilezo and Dutta, Piyashi (2016). Folk Practices of the Khasi Tribe: A Description of Jingrwailawbei in Kongthong Village. *Sociological Bulletin*. 65(2): 237-252.

Kikhi, Kedilezo and A. Husca. (2016). An Insight into the (Unique) Heritages and Traditions of Sumi Nagas: What can be Preserved? *Anthropos India* 2(1): 187-203. Bi-Annual International Journal of SANSKRITI, Guwahati.

Kikhi, Kedilezo (2016). Politics in Nagaland: From Military to Electoral Democracy. In Humanshu Roy, M.P. Singh and A.P.S. Chouhan (eds.) *State Politics in India*. pp. 598-624. ISBN 978-93-84092-99-3, Primus Books, New Delhi.

Select List of Publications

Ray, Subhadepta (2016). Studying Laboratories: A Sociological Inquiry into Research Practices in Genetics. In Ritambhara Hebbar and Mahuya Bandyopadhyay (ed.) *Towards a New Sociology of India*, Orient Blackswan: Hyderabad.

Sharma, C. K. (2016). Building India's Future Powerhouse : Discourses of Development and Popular Resistance in Northeast India. In *Proceedings of the National Conference on Reframing the Environment: Resources, Risk & Resistance in Neoliberal India*, Ed. Manisha Rao. 117-133, University of Mumbai Press, Mumbai.

Sharma, C. K., (2016). Immigration, Indigeneity and Identity: The Bangladeshi Immigration Tangle in Assam in *Unheeded Hinterland: Identity and Sovereignty in Northeast India*. Ed. Dilip Gogoi. 89-113, London/ Delhi, Routledge

SCHOOL OF MANAGEMENT SCIENCES

Department of Business Administration

Baruah, P. and Baruah, R. R. (2016). Teamwork and Connectivity : A Study of North Eastern Region of India in the Light of Act East Policy. In A. Choudhury, (Ed), *Turn Mirrors into Windows, Rhetoric of Act East Policy and Beyond*, pp. 100-107, USTM (India) and Green School (Indonesia).

Chutia, L. J. and Sarma, M. K. (2016). Commercialisation of Traditional Crafts of South and South East Asia: A Conceptual Model Based on Review of Literature. *IIM Kazhikode Society & Management Review*, 5 (2). DOI: 10.1177/2277975215624728.

Das, D. (2016). *Financial Inclusion: Achievements and Hindrances*, New Delhi: Mittal Publications, (ISBN: 81-8324-642-7)

Das, D. and Bhuyan, A., (2016). *Development Strategies for North East India*, New Delhi: Mittal Publishers, (ISBN: 81-8324-639-7)

Das, D. and Dutta, H. (2016). Experimental; Cross Border Trade in Agricultural and allied Commodities in NER: Prospects and Challenges, In D. Das and A. Bhuyan (Eds), *Development Strategies for North East India*. pp 257-292, New Delhi, Mittal Publications.

Das, D and Tiwari, R. K. (2016). Extent and Veracity of Financial Inclusion in Sonitpur and Kamrup District. In D. Das and A. Bhuyan (Eds), *Financial Inclusion and Inclusive Development*, pp. 325-346, New Delhi, Mittal Publications.

Goswami, C. and Begum, R. (2016). A study of Home-Based Enterprises and Street Vendors of Assam, India, *International Journal of Economic Policy in Emerging Economies*, 9(3): 290-323.

Kumar, P. and Sarkar, S. S. (2016). Goods and Service Tax India: Problems and Prospects. *Asian Journal of Management Research*, 504-513.

Roy, A. (2016). A Model of Security Selection and Portfolio Building through Z-scores, *Global Business Review*, 17 (2): 389-399, DOI: 10.1177/0972150915619815.

Roy, A. (2016). Do Microfinance Loans have any Effect on the Health, Nutrition and Schooling of Children of the Clients of MFIs? *International Journal of Multidisciplinary Research Centre*, 2(8): 26-40.

Sarkar, S. S. (2016). Technological Innovations in the Banking Sector: A Trend Analysis. *Journal of Commerce and Management Thought*, 7(1): 171-185.

Sarma, T. R. (2016). Academic Tourism - Destination North East India. In A. Choudhury (Ed), *Turn Mirrors into Windows - Rhetoric of Act East Policy and Beyond*, 72-78, USTM, [ISBN: 978-81-927640-1-6].

Department of Commerce

Tiwari, R.K. and Debnath J. (2017). Forensic Accounting: A Blend of Knowledge, *Journal of Financial Regulation and Compliance*, *Emerald*, 25(1): 73-85

SCHOOL OF SCIENCES

Department of Chemical Sciences

Bora, U. and Mondal, M. (2016). Eco- friendly Suzuki Miyaura coupling of arylboronic acids to aromatic ketones catalyzed by Oxime Palladacycle, Biosolvent 2MeTHF. *New Journal of Chemistry*, 40: 3119-3123.

Deka, P., Choudhury, R., Deka, R.C. and Bharali, P., (2016). Influence of Ni on enhanced catalytic activity of Cu/Co3O4 towards reduction of nitroaromatic compounds: studies on the reduction kinetics. *RSC Advances*, 6: 71517–71528.

Gogoi, P., Devi, R. R., Das, B. and Maji, T. K. (2016). A comparative study on sorption of Arsenate ions from water by cross linked chitosan and cross linked chitosan/MMT nanocomposite. *Journal of Environmental Chemical Engineering*, 4: 4248-4257.

Hazarika, Deepshikha and Karak, Niranjana (2016). Biodegradable tough waterborne hyperbranched polyester/ carbon dot nanocomposite: approach towards an eco-friendly material, *Green Chemistry*, 18: 5200-5211.

Saikia, C., Das, M.K, Ramteke, A. and Maji, T. K. (2016). Evaluation of folic acid tagged aminated starch/ZnO coated iron oxide nanoparticles as targeted curcumin delivery system, *Carbohydr. Polym*, 2016, <http://dx.doi.org/10.1016/j.carbopol.2016.09.087>

Select List of Publications

Saikia, L., Roudragouda, P. and Thakur, A. J., (2016). A one pot, two-step synthesis of 5-arylpyrrolo[2,3-d]pyrimidines and screening of their preliminary antibacterial properties. *Bioorganic and Medicinal Chemistry Letters*, 26: 992-998.

Sharma, M., Dewan, A., Mondal, M., Thakur, A. J. and Bora, U. (2016). Analysis of the water extract of waste papaya bark ash and its implications as an in situ base in the ligand free recyclable Suzuki Miyaura coupling reaction. *RSC Adv.*, 6: 28981-28985.

Sharma, M., Das, B., Karunakar, G. V., Satyanaryana, L. and Bania, K. K. (2016). Chiral Ni-Schiff Base Complexes Inside Zeolite-Y and their Application in Asymmetric Henry Reaction: Effect of Initial Activation with Microwave Irradiation. *J. Phys. Chem. C*, 201 120: 13563-13573.

Department of Environmental Science

Baruah, S., Sarma Bora, M., Sharma, P., and Sarma, K. P. (2017). Understanding of the Distribution, Translocation, Bioaccumulation, and Ultrastructural Changes of *Monochlorohastata* Plant Exposed to Cadmium. *Water Air Soil Pollution*. 228: 17. DOI 10.1007/s11270-016-3092-8

Bharali, A., Baruah, K. K., Bhattacharya, P. and Gorh, D. (2017) Integrated nutrient management in wheat grown in a northeast India soil: Impacts on soil organic carbon fractions in relation to grain yield. *Soil and Tillage Research*.168: 81-91.

Bhuyan, P., Barman, N., Begum, S., Gogoi, D., Borah, S., Kumar, M., Sarma, K.P., and Hoque, R.R. (2016). Spatial and Seasonal Variations of Water Soluble Ions in PM10 of Mid-Brahmaputra Plain of Assam Valley. *Asian Journal of Water, Environment and Pollution*, 13 (2): 69–81.

Das, N., Patel, A.K., Deka, G., Das, A., Sarma, K.P., and Kumar, M. (2016). Geochemical controls and future perspective of arsenic mobilization for sustainable groundwater management: A study from Northeast India. *Journal of Groundwater for Sustainable Development*. 1(1-2): 92-104.

Deka, P., Bhuyan, P., Daimari, R., Sarma, K.P. and Hoque, R.R. (2016). Metallic species in PM10 and source apportionment using PCA-MLR modeling over mid-Brahmaputra Valley. *Arab J Geosci* 9:335. DOI 10.1007/s12517-016-2368-z

Dutta, G., Baruah, G., and Devi, A. (2016). Wild food plants of Mishing tribe- An ethnobotanical survey. *Tropical Plant Research*, 3(1): 221–223. ISSN: 2349 – 1183.

Hazarika, N., Tayeng, T., and Das, A. K. (2016). Living in troubled waters: stakeholders' perception, susceptibility and adaptations to flooding in the Upper Brahmaputra plain, *Natural Hazards*. 83:1157–1176. DOI: 10.1007/s11069-016-2366-1

Lee, M. H., Kim, K.H., Jeon, B.H., Jo, S.H., Kim, Y.H., Kim, B.W., Cho, S.B., Hwang, O.H., & Bhattacharya, S.S. (2016). Effect of slurry treatment approaches on the reduction of major odorant emissions at a hog barn facility in South Korea. *Environmental Technology*, (IF:1.76; DOI:10.1080/09593330.2016.1199599)

Rahman, H.M., Prakash, A., and Hoque, R.R. (2016). Street dust bound PAHs, carbon and heavy metals in Guwahati city – Seasonality, toxicity and sources. *Sustainable Cities and Society*, 19: 17-25.

Sarma, J., Devi, A., and Sarma, G.C. (2016). Exploration of Non-Timber Forest Produces (NTFPs) used by the Mishing community in Sonitpur district of Assam, India. *Pleione* 10(1): 23 - 31.

Department of Molecular Biology and Biotechnology (MBBT)

Biswas, A. D., Dev, S. and Mattaparthi, V.S.K. (2016). Characterization of the structure of Anopheles gambiae Odorant Receptor 1 (AgOR1) and its binding affinity with novel inhibitors and phytochemicals: A Molecular Dynamics and Docking Approach. *International Journal of Innovations in Engineering and Technology*, 6(4): 624-641.

Bordoloi, N. K., Bhagowati, P., Chaudhuri, M. K. and Mukherjee, A. K. (2016) Proteomics and Metabolomics Analyses to Elucidate the Desulfurization Pathway of *Chelatococcus* sp. *PLoS One*, 11(4):

Brahma, R. K., Blanchet, G., Kaur, S., Kini, R. M. and Doley, R. (2017). Expression and characterization of haemathrins, madanin-like thrombin inhibitors, isolated from the salivary gland of tick *Haemaphysalis bispinosa* (Acari: Ixodidae). *Thrombosis Research*, 31; 152: 20-29.

Das, H. K., Das, D., Doley, R. and Sahu, P. P. (2016) Quantifying Demyelination in NK venom treated nerve using its electric circuit model. *Scientific Reports*, 6.

Dutta, M. and Mattaparthi, V.S.K. (2016). Inhibition of A β 1-42 Peptide aggregation using short ss-oligonucleotide as polyions: An in silico approach. *Journal of Biomolecular Structure and Dynamics*. DOI: 10.1080/07391102.2016.1189358.

Kumar, R., Barman A., Phukan, T., Kabyashree, K., Singh, N., Jha, G., Sonti, R.V., Genin, S and Ray, S.K. (2016) *Ralstoniasolanacearum* virulence in tomato seedlings inoculated by leaf clipping. *Plant Pathol*. DOI:10.1111/ppa.12628.

Select List of Publications

Manhar, A.K., Saikia, D., Borah, A., Das, A.S., Gupta, K., Roy, R., Mahanta, C.L., Mukhopadhyay, R. and Mandal, M. (2016). Assessment of goat milk-derived potential probiotic *L. lactis* AMD17 and its application for preparation of dahi using honey. *Annals of Microbiology*, pp1-12: 62-70.

Saikia, D., Manhar, A. K., Deka, B., Roy, R., Gupta, K., Namsa, N.D., Chattopadhyay, P., Doley, R. and Mandal, M. (2017). Hypocholesterolemic activity of indigenous probiotic isolate *Saccharomyces cerevisiae* ARDMC1 in a rat model. *Journal of Food and Drug Analysis*, xxx: 1-9.

Sanjeev, A., Sahu, R.K. and Mattaparthi, V.S.K. (2016) Potential of Mean Force and Molecular Dynamics Study on the transient interactions between α and β synuclein that drive inhibition of α -synuclein aggregation. *Journal of Biomolecular Structure and Dynamics*. DOI: 10.1080/07391102.2016.1254119.

Satapathy, S. S., Powdel, B. R., Buragohain, A. K. and Ray, S. K. (2016). Discrepancy among the synonymous codons with respect to their selection as optimal codon in bacteria. *DNA Res.* 23: 441-449.

Ongoing Projects

- The Centre for Assamese Studies has undertaken a massive project of digitizing old Assamese manuscripts and printed books. Several rare and old Assamese books and manuscripts, including the first edition of *The Kirtana* and the *Namaghosa* published by Haribilas Agarwala in 1876, rare sanchi-bark manuscripts of *Dasam Skandha Bhagavata* (Barpeta Satra), Ananta Kandali's *Ramayana* (Barpeta Satra), *Namaghosa* (Barhampur Binapani Library, Jamuguri), the first edition of Hemchandra Barua's *Hema Kosa* (1900), the personal diaries of Padmanath Gohain Baruah (1871-1946), K. K. Handiqui (1898-1982) many of the hand-written manuscripts of Jyotiprasad Agarwala (1903-1951), Chandrabala Barua (1907-1983), Maheswar Neog (1915-1995), Praphulla Datta Goswami (1919-1994) and others
- Department of EFL has received UGC SAP DRS Phase II for the period 2015-2020. Prof. M. Barbora and Dr. D. Mohapatra are running three different research projects under DEITY and UNICEF
- CSCWS has a project on Women and Trafficking funded by ICSSR, New Delhi
- Prof. S. S. Sarkar and Prof. Chandan Goswami, Dept of Business Administration, are conducting projects funded by AICTE, IITM
- Prof. D. Deka, Prof. B. K. Kakati, Prof. N. Sarmah, Prof. P. K. Choudhury, Prof. D. C. Baruah, Dr. S. Mahapatra are conducting nine projects in the Dept. of Energy funded by DST, UGC, ASTEC, DBT-RCUK etc
- Prof. K. K. Baruah, Prof. S. S. Bhattacharya, Prof. K. P. Sarma, Dr. R. R. Hoque, Dr. A. K. Das, Dr. A. Devi, Dr. M. Kumar of Department of Environment Sciences have received ten research projects funded by DST-SERB, DBT, UGC, GBPIHED, MOES, BARC, ICAR-NASF etc.
- Three research projects funded by MAKAIS, UNICEF, UGC are being conducted at Department of Cultural Studies. The Department has also received a project on *Cultural memory in North-East India: A Research and Documentation Programme on Textual and Visual Narratives* under UGC's Centre with Potential for Excellence in Particular Areas (CPEPA)
- Prof. P. P. Dutta, Prof. S. Bannerjee, Prof. S. Kashyap and others at the Department of Mechanical Engineering are conducting research projects funded by DST, MSME, SERB
- Dr. Nil Ratan Roy, Department of Education is conducting a research project sponsored by ICSSR, New Delhi
- MACRONEI has undertaken a project to study Urbanization and its Impact on Environment: A Study with Reference to a Wetland Area (*beel*) of Guwahati City
- Prof. D. K. Bhattacharya, Prof. N. Sharma, Prof. S. M. Hazarika, Prof. U. Sharma, and Prof. S. Patra and other faculty members are engaged in research projects sponsored by DeitY, C-DAC, UGC SAP-DRS II, MHRD, UKERI-DST, DST-SERB at the Department of Computer Science and Engineering
- Department of Sociology has received UGC SAP DRS Phase I for the period 2016-2021, along with two Research Project funded ICSSR, New Delhi
- Prof. Donato Aranda, Ph.D. (PI) and Prof. Yordanka Reyes Cruz, Chemical Engineering Department, Federal University of Rio de Janeiro, Brazil visited Tezpur University, during February 8-15, 2017 in connection with ongoing joint collaborative Indo-Brazil research project.

Achievements of Tezpur University in Zonal and National Youth Festivals 2016-2017

Inter University East Zone Youth Festival



A team of 40 members from Tezpur University participated in the Inter University East Zone Youth Festival organized by Vidyasagar University, Midnapore, in association with Association of Indian Universities, New Delhi supported by the Ministry of Sports and Youth Affairs during 27-31 December 2016. The students bagged prizes in the following category:

- Quiz : Silver ● Debate : Silver ● Classical Vocal : Silver ● Light Vocal : Silver ● Classical Dance : Silver ● Western Group Song : Silver ● Folk Orchestra : Bronze ● Indian Group Song : 4th Position ● BEST LITERARY TEAM

NSS

The NSS, Tezpur University organized *Swachhta Pakhwada* from August 16– 31, 2016 inside the University Campus and in the adjoining villages. A cleanliness drive was also organized at the Assam State Transport Corporation Bus Stand in Tezpur town on 28 August, 2016.



NSS volunteers as a part of the Assam team comprising of volunteers from Tezpur University, Gauhati University and Dibrugarh University participated in North East NSS Festival 2017 organized by the Ministry of Youth Affairs (Govt. of India) at Itanagar, Arunachal Pradesh during March 6-10, 2017 and won the Second Best Team Prize.

National Youth Festival



A team of 31 members from Tezpur University participated in the Inter University National Youth Festival organized by Shivaji University, Kolhapur in association with Association of Indian Universities, New Delhi supported by the Ministry of Sports and Youth Affairs during 10-14 February 2017. The students bagged prizes in the following events:

- Classical Vocal : Gold ● Light Vocal : Silver ● Classical Dance : Silver ● Folk Orchestra : Silver ● Quiz : Silver ● Western Group Song : 4th Position

South Asian Inter University Youth Festival

The Light Vocal event from Tezpur University was invited to participate in the South Asian Inter University Youth Festival organized by Devi Ahilya Viswavidyalaya, Indore in association with the Association of Indian Universities, New Delhi supported by the Ministry of Sports and Youth Affairs during February 28-March 4 2017. It was presented by Mr Anurag Baruah, Integrated M Sc 10th Sem, Department of Mathematical Sciences.



A Ministry of Electronics and Information Technology, Government of India Sponsored One Day University Workshop on *Digital India* was organized by NSS on October 22, 2016.

University Events



June 19, 2016: Tribute paid to Kalaguru Bishnu Prasad Rabha on the occasion of his Death Anniversary. Dr Charu Sahariah Nath, Former Principal, Tezpur College and Shri Pankaj Bordoloi, Renowned singer, Tezpur graced the occasion as Guests of Honour.

August 12, 2016: General Freshers marked the entry of a new batch of students at Tezpur University.



August 15, 2016 and January 26, 2017: Tezpur University joined the country in celebrating Independence day and Republic Day, respectively.

September 3, 2016: Tithi of Srimanta Sankardeva observed. Shrimati Sharodi Saikia, Sangeet Natak Academy awardee, Guwahati along with her troupe graced the celebration with a dance drama performance.



August 7, 2016: Kaviguru Rabindranath Tagore's Death Anniversary was observed with a musical programme by Sri Bapan Das, Asstt. Professor, Dept of Bengali, Tezpur College and performances by students of the University.



August 26, 2016: *Bhugjora*, a drama staged by Agnigarh Shilpi Samaj in association with Tezpur University.



September 30, 2016: *Grahan*, a One-Act Play staged by the students of Tezpur University at KBR Auditorium.

October 23, 2016: *Krsna Katha* a performance by renowned danseuse Dr Sonal Mansingh, Padma Vibhusan, in association with Sangeet Natak Akademi, North East Centre, Guwahati at KBR Auditorium.



University Events



October 27, 2016: An Indian Council of Cultural Research sponsored programme by artiste Ms. Jina Rajkumari and her group at KBR Auditorium.

January 17, 2017: Shilpi Divas was observed to mark the Death Anniversary of Rupkonwar Jyotiprasad Agarwala. Shri Ramen Choudhury, renowned musician from Tezpur graced the occasion as Chief Guest.



November 5, 2016: Observance of Death Anniversary of Dr Bhupen Hazarika with Shri Hemanta Baruah, President, Tezpur Sahitya Sabha as Chief Guest.

January 21, 2017: 24th Foundation Day of Tezpur University. Prominent entrepreneur, author and initiator of The Blue Economy, Mr. Gunter Pauli from Belgium and Mr. Ranjit Borthakur, Founder of the Balipara Foundation delivered the Foundation Day Orations.



ANNUAL MEET 2017

The 20th Annual Meet of Tezpur University was held during February 23-26, 2017 with a host of sports, cultural and literary competitions. Dr. Subhash Basumatary, Director Sports Authority of India, Guwahati graced the occasion as Chief Guest.



Welcome to Tezpur University

The following persons have joined TU since May, 2016

New faculty members

- Dr. Juri Dutta, Assistant Professor, Assamese Studies
- Prayash Baruah, Assistant Professor, BA
- Abhiskhek Das, Assistant Professor, CE
- Rituraj Buragohain, Assistant Professor, CE
- Farah Hussain, Assistant Professor, Commerce
- Manish Kumar, Assistant Professor, Commerce
- Shobhanjana Kalita, Assistant Professor, CSE
- Dr. Nil Ratan Roy, Associate Professor, Education
- Md. Asif, Assistant Professor, Education
- Shradhanjali Pradhan, Assistant Professor, Education
- Rajinder Singh, Assistant Professor, Education
- Rahat Mahboob, Assistant Professor, EE
- Manashita Borah, Assistant Professor, EE
- Dr. Hemjyoti Medhi, Associate Professor, EFL
- Dr. Amalesh Gope, Assistant Professor, EFL
- Dr. Ashalata Devi, Associate Professor, Env. Sc.
- Dr. Nayanmoni Gogoi, Assistant Professor, Env. Sc.
- Dr. Santa Kalita, Assistant Professor, Env. Sc.
- Swamy Hulle N. Rachayya, Assistant Professor, FET
- Dr. Laxmikant Shivanath Badwaik, Associate Professor, FET
- Dr. Poonam Mishra, Associate Professor, FET
- Dr. Bhaskar Kumar Chakraborty, Professor, Law
- Angel Habamon Syiem, Assistant Professor, Law
- Madhumita Acharjee, Assistant Professor, Law
- Debajit Sarma, Assistant Professor, Law
- Dr. Suvendra Kumar Ray, Professor, MBBT
- Dr. Manabendra Mandal, Professor, MBBT
- Dr. Abhijit Bora, Professor, MCJ
- Dr. Joya Chakraborty, Associate Professor, MCJ
- Dr. Uttam Kumar Pegu, Associate Professor, MCJ
- Manoj Deori, Assistant Professor, MCJ
- Junali Deka, Assistant Professor, MCJ
- Dr. Tapan Kumar Gogoi, Professor, ME
- Dr. Vivek Kumar Mehta, Assistant Professor, ME
- Seikh Mustafa Kamal, Assistant Professor, ME
- Shikha Bhuyan, Assistant Professor, ME
- Dr. Pritam Deb, Professor, Physics
- Namami Sharma, Assistant Professor, SW
- Prerana Banik, Assistant Professor, SW

New members of the Non-Teaching staff

- Samaresh Barman, Public Relations & Information Officer
- Partha Sarathi Baruah, Assistant Registrar
- Raghvendra Choudhury, Technical Assistant, Computer Centre
- Md. Ijaz Ahmed, Library Assistant
- Pijush Ch. Das, Deputy Director, Training & Placement
- Bipul Das, Machine Operator, ECE
- Biplob Ozah, Laboratory Assistant, Chem. Sc.

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 Tezpur University Newsletter is published by the Registrar, Tezpur University
 Contact Details: Phone: 03712-267008 Fax: 03712-267006

For Internal Circulation Only

Printed at Ticol Style Track, Kumar Gaon, Tezpur—784 001