



तेजपुर विश्वविद्यालय

(केंद्रीय विश्वविद्यालय)

नपाम, तेजपुर - 784 028, असम, भारत

TEZPUR UNIVERSITY

( A Central University)

Napam, Tezpur - 784 028, Assam, India

Tezpur University Intellectual Property Rights Cell

A REPORT

ON

**National Symposium on Role of Innovation and Technology for  
Sustainable Development (RITES) 2018: Integrating  
Transformation with Sustainability**

Organized on

**26<sup>th</sup> of April, 2018**

*in collaboration with*

**North Eastern Council  
Nongrim Hills, Shillong – 793003, Meghalaya**

by

**Tezpur University Intellectual Property Rights Cell  
Tezpur University  
Napaam-784028, Assam**



## Tezpur University Intellectual Property Rights Cell

Science is the most powerful instruments of growth and development, especially in the emerging scenario and competitive economies. It is believed that universities being institutions of higher education and research, intellectual output from these places have the potential to provide innovative solutions to some of the technical voids present in the market in terms of technology/product availability. Ironically, only a small percentage of such research in academic institutes reach to the people who need them. The National Intellectual Property Policy of our country also mandates development of domestic technologies and particularly, the promotion of ventures involving commercialization of the same. Until Industry and Academia join hands to create synergies resulting in attractive marketable outputs, some of the potential research outputs may always remain limited to the publications in research journals and doctoral thesis. Identifying potential areas of research, depending on the needs/ projections of respective sectors of the industry is the call of the hour, that institutions should rise for making academic research self-sustainable. Keeping above in the backdrop, a national symposium was organized on 26th April 2018 on the occasion of World IP Day that also coincides with celebration of 10th year of establishment of the TUIPR Cell and Silver Jubilee Celebration of the University's establishment. This symposium on "Role of Innovation and Technology for Sustainable Development (RITES) 2018" was a maiden attempt from the Cell to bring together top management professionals from industries, academicians, researchers & students of diverse fields together to discuss various dimensions of academia-industry partnership, and exchange ideas, practice and experiences on different aspects of industry-academia integration. The entire programme was divided into four technical sessions that contained deliberations of experts from Academia, Industry and Government Bodies.



Photo: Director, DRL, Tezpur lighting the inaugurating lamp



Photo: A pictorial memoir of of the Cell inaugurated

The day started with lighting of the auspicious lamp by the chief guest, Dr S. K Dwivedi, Director, DRL, Tezpur, Prof. M. M. Sarma, Vice-Chancellor (In-Charge), Tezpur University and the Coordinator, TUIPR Cell, Prof. P. Deb. In the welcome address by Prof. P. Deb, he apprised the gathering about importance of holding this symposium on 26<sup>th</sup> April, i.e. the World Intellectual Property Day. Reflecting on achievements during past 10 years, he briefed about some of the important contributions of the Cell towards the society. Prof. M. M. Sharma, in his inaugural address reiterated the importance of the IPR and stressed on the need of such Industry-academia collaborations. The chief guest, Dr S. K Dwivedi, Director, DRL, Tezpur also appreciated the idea behind organizing such an event and was hopeful that such a conglomerate of speakers from diverse fields of expertise shall benefit the gathered participants. A pictorial memoir of the journey of the TUIPR Cell was released during the inaugural ceremony.



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The first technical session was themed on **SCIENCE AND INNOVATIONS** and was chaired by Prof. D. K. Bhattacharya, Dean Academics, Tezpur University.

Prof. Ajoy Ghatak, renowned physicist and Professor Meghnad Saha Distinguished Fellow, the National Academy of Science, India, gave the introductory presentation on *development of science in India: a brief historical perspective*. He initiated his speech by tracing the historical development of premier research institutes in pre-independent and post-independent India. He mentioned that the prevailing poverty and backwardness of the country was due to the protraction of science and technology and its solution remains in opting for rigorous research in science and technology. He also stressed on the fact that in order for science to flourish, there need not be particular demarcation of territory to which our inquisitive brains are tied. There needs to be seamless migration of ideas and individuals without territoriality for the benefit of research. Citing considerable examples of achievements in science and bringing into the picture cases of appalling poverty and lack of empathy among people in the society, he talked of the pathway that leads to compassion and humanity. By quoting from social leaders and achievers like Swami Vivekananda, Mahatma Gandhi and Steve Jobs, he deduced and stressed on the fact that resources need to be exploited in a manner that the needy or the most vulnerable sections of population get their share.



Clockwise: The gathered participants of the symposium (Top and Bottom Left). Prof. D.K. Bhattacharya, Dean Academics, Tezpur University chairing the first technical session (Bottom Left). Prof. Ajoy Ghatak, deliberating during the first technical session (Top Left).



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Photo: Dr Amitava Pramanik during his deliberation



Photo: Participants during the first technical session

The following deliberation on *sustainable development through science to technology: joining the missing links* was presented by Dr Amitava Pramanik, Director, Strategic Science Group, Hindustan Unilever Ltd, Bengaluru. The speaker embarked on the lecture by holding the example that how a particular product i.e. sunlight soap (manufactured by Unilever) introduced the concept of making cleanliness commonplace-the simple act of washing hands became important. Stressed on how their company introduces products to the markets by keeping in the background the very concept of sustainable development as for instance after citing statistics of probable water scarcity in the country by 2025, he mentioned that water is no more a natural resource now that can be availed in abundance. With the constraint and regulation of sustainability, business is not possible as usual. Thus, to make sustainable living commonplace, they now have to revert to sustainability of business. The objectives of Hindustan Unilever Limited entails: first enhancing health for 1 billion, secondly reducing environmental impact by half and thirdly enhancing livelihoods for millions. In order to meet their objectives HUL has emphasized on driving innovations and research: such innovations have helped them to introduce products that are not environmentally hazardous. Even packaging has also been looked into to ensure less waste. The key struggles that their organization is grappling are water hygiene, cleaning waste by nanotechnology etc.

The second technical session on **INNOVATION IN ELECTRONIC DEVICES AND APPLICATIONS** saw deliberations from Government Organizations like Indian Patent Office and technological giants like IBM. The first presentation on *protecting IC Layouts and Designs / Prior Art Search, IPR and Innovation & Entrepreneurship* was given by Shri. Sanjay Bhattacharya, Deputy Controller of Patents & Designs, Indian Patent Office. He started his presentation with a historical overview of the development of science in India, where he mentions that in India the process of patenting started in 1856 under the British Patent Law of 1852. He talked about the 4 patent offices in India and also what's patentable and what not. Specifically mentioned that around 45000 patent applications are received annually in India but, these are from multinational companies. As such, more domestic applications in the field of patent is needed. Having dedicated the entire session on *IC Layouts and Designs*, he also presented the background of the invention of the Integrated Circuit on July 1958 by Jack Kilby of Texas Instruments. Both Robert Noyce (who was awarded the first patent for an integrated circuit on April 25, 1961) and Kilby are today acknowledged as having independently conceived of the idea.



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Shri. Sanjay Bhattacharya, Deputy Controller of Patents & Designs, Indian Patent Office during second technical session.



Shri. Sanjay Sikdar, Program Director, IBM India during second technical session

While talking about the innovations in ICs, he also briefed about the classifications of ICs (SSI, MSI, LSI, VLSI, ULSI) and types (Analog, Digital, Mixed Signal), along with its advantages and disadvantages. He also discusses the legislations in India and the international treaties to which India is a signatory. While providing a glance of the entire registration process starting from registration, inventive steps, and opposition to registration, etc., he also mentioned the rights conferred by registration and penalty for infringement on Layout Design along with the types of IPR; the various methods of patent search and search language.

The second presentation of this technical session was on *cognitive computing/ artificial intelligence and dynamic paradigm in digital world* by Shri. Sanjay Sikdar, Program Director, Cloud Platform services at IBM Software Lab, IBM India. His presentation started with playing of few video clips of different IBM ads starting from the past to the present. The last clip depicted how IBM presently is working on to understand and replicate human emotions. He further elaborated on 'Artificial Intelligence' by using the term 'Augmented Intelligence' instead of the popular term. His deliberations further focussed towards discussion on Dynamic Paradigm- 5-5 Model which includes: Smarter Class, Smarter Stores, Smarter Medicine, Smarter Security, Smarter City etc. Briefly touched upon Cognitive Computing, he presented an analyst view on AI impact. His presentation further dwelled upon 'Watson', which deals with Natural Language Processing, and thus it analyses alchemy language; tone analyzer and visual insights. He also mentioned the use of AI through cognitive shopping advisor for fashion conscious young generation and how it helps in optimization of needs and preferences.



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The third technical session on INNOVATIONS IN INDUSTRIAL PRODUCTS started with the presentation of Dr Anant Aghase, VP, PRS- Permcel Pvt. Ltd. Mumbai on *Industrial Innovations - Latest Trends*. He expressed that innovations are application of better solutions that meet new requirements; unstated needs and unfulfilled market needs. He explained the three important steps of innovation i.e Idea- Create- Validate. His deliberation dealt with the concept of innovation; areas of innovation & their benefits, and innovative projects regarding resources & energy conservation. He also focused on problems faced due to radiation and stressed on innovations to sustain growth.



Clockwise: (Top Right) Shri. Harendra Singh, General Manager/Head INBIGS, ONGC during the third technical session, All the speakers with the session Chair Dr. Charulata Mahanta, Dean Engineering, Tezpur University, (Bottom Right) Dr P. Chattopadhyay, Scientist, OIL, Tezpur, and (Top Left) Dr Anant Aghase, VP, PIS- Permcel Pvt. Ltd. Mumbai.

The second presentation in the same technical session focused on *Environmental efforts of Oil and Natural Gas Corporation Limited for sustainable development*. It was delivered by Shri. Harendra Singh, General Manager/Head INBIGS, ONGC. He gave an overview of ONGC which is a 'Maharatna' with interests in E&P, Refining, LNG, Power, Petrochemicals and New Sources of Energy. He also mentioned the different ONGC production centers across India. Talking about the climate change and its impact in India, he apprised the gathering about the recent indicators and its resultant issues faced by the ONGC and other partners



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in the petroleum industry. He also presented ONGC's initiatives on climate change for emission reduction & low carbon technologies; biodiversity conservation; plantation etc. He apprised the gathering about their goal to achieve NET ZERO anthropogenic CO<sub>2</sub> emissions in long run, to stabilize global temperature level etc. He further talked about the road map to address the challenges which includes development of long term as well as short term strategies. While mentioning the aspects covered under Water Footprint Studies; Rain Water Harvesting Projects; setting up of Desalination Plants; Central Mud Recycling Plant at Mehsana and various sewage treatment plants, the speaker apprised the participants about the various environment positive initiatives take up by his organization. He further expressed that their goal is also to conserve the life below water by sustainably using the oceans, seas and marine resources as well as life on land by managing forests; combating desertification etc.

The last presentation of this technical session included a presentation from Dr P. Chattopadhyay, Scientist and Deputy Director, DRL, Tezpur on *Regulatory requirement and validation, DRL Products: An Overview*. The deliberation started with a video of mice having Alzheimer's disease and described how they behaved differently from the normal. He also mentioned how these mouse models can be used for testing efficacy of the drugs against ailments. Discussing ancient medical knowledge of India, and how these were passed on from one generation to another, he mentioned the way the change has occurred for transfer of knowledge and validation. He described how new drug molecules needs to be validated through toxicological studies and repeated trial studies. He also discussed the fine line between the Ayurvedic (AYUSH) and Herbal (DCGI) categories of medicine. Talking about medical ethics and morals, he stated that India has the highest number of unethical trials of drugs undertaken on animals. He also talked about non-clinical information flow; drug-drug interactions (DDIs); steps of pre-clinical safety assessment (including pre-NDA) and selection of animal species such as use of large non-rodent species and use of a rodent species for conducting efficacy tests. Lastly, he briefed the gathering about various technologies developed in DRL that were commercialized to various companies for civilian use.



Photo: Shri. B.S. Hosamani, Assistant Director, MSMEDI, Tezpur Branch during his deliberation in the last technical session on initiatives of MSMEDI



Photo: Shri Amit Ranjan, Senior Manager- Business Development, NIDC, deliberating on initiatives of Commercialization of NIDC



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The last technical session was focused on getting insights into the GOVERNMENT SUPPORT AND COMMERCIALIZATION INITIATIVES. The first deliberation in this session started with the presentation of Shri. B.S. Hosamani, Assistant Director, Micro, Small & Medium Enterprises Development Institute, Tezpur Branch, Ministry of MSME, Govt. of India. He gave a brief introduction on MSMEDI, testing facilities and training programmes available under the Ministry of MSME, Govt. of India. Besides this, he also explained in detail about the various schemes and programmes available for the entrepreneurs. He also discussed on the formal requirements of starting a microenterprise.

The final deliberation was made by Shri Amit Ranjan on *Initiatives of Commercialization by NRDC*. Starting with a brief introduction about the National Research Development Corporation, the speaker deliberated on the role played by NRDC in commercialization and gave a brief outlook of various schemes supported under its flagship. From incubation services in areas of technology, to technology transfer from various institutes, the speaker elaborated on the functioning of NRDC in details. He also mentioned about various awards for innovation that are presented by NRDC every year under various categories and encouraged the innovators from the University to apply for the same in the next call. He also apprised the gathering about the patent facilitation services provided by their organisation and technology transfers made under NRDC's initiatives to 24 nations across the globe.

The programme ended with the concluding remarks from the Dr. B. Das Registrar, Tezpur University. The vote of thanks was delivered by Dr. Juri B. Saikia, Research Officer, TUIPR Cell, Tezpur University.

A local exhibition of innovations from the University was showcased in the lobby area where the participating students explained their work to the symposium participants and the invited guests from industry. The technical sessions as well as the innovation exhibition received an overwhelming response followed by intense interaction between the innovators and the invite guests. The invited industry executives were seen taking note of some of the innovations and expressed willingness to recommend them for future collaborations with their respective organizations.



Photo: The organisers and the volunteers of NITES - 2018



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Glimpses of the Concluding Ceremony



(left) Winner of the best slogan writing competition receiving prize



(Top Right and Bottom) Champion and runners of the Best Innovative Idea Competition 2018 receiving prizes

Photo: IFDM Quiz 2018 Champion and runners up receiving trophies from Dr. Siren Das Registrar, Tezpur University, during the concluding ceremony of RITES-2018



Photos (Top): Giving away of the prizes for the events conducted on the occasion of World Intellectual Property Day, 2018

Photos (Bottom): Felicitation of the innovators from Tezpur University who have helped the University to achieve some important milestone in terms of innovation and intellectual property



Prof. P. Deb, Coordinator, TUIPR Cell, felicitating the first innovator from the University, Prof. M. Bhuyan, Department of ECE, to receive a patent Grant



The Coordinator felicitating the GYI Awardees from Tezpur University for the year 2017 and 2018





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### The Innovation Exhibition - 2018



Photo: Innovators from Tezpur University interacting with the participants of RETES-2018



Photo: Innovators from Tezpur University with some of the invited speakers from industry



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"National Symposium on Role of Innovation and Technology for Sustainable Development (RITES) 2018: Integrating Transformation with Sustainability"

Detailed Programme

Date: 26.04.2018 (Thursday)		Venue: Council Hall
TIME	PROGRAMME	
9.00 AM —9.30 AM	REGISTRATION	
9.30 AM—10.15 AM	INAUGURATION	
	Lighting of Lamp	
	Welcome Address and Introduction of the theme by Prof. P. Deb, Coordinator, TUIPR Cell, Tezpur University	
	Inaugural Address by Prof. M. M. Sarma, Vice-Chancellor (In-Charge), Tezpur University	
	Address by the Chief Guest, Dr S. K Dwivedi, Director, DRL, Tezpur	
10.15 AM —10.30 AM	High Tea	
10.30 AM—12.00 Noon	<b>TECHNICAL SESSION ON SCIENCE AND INNOVATIONS</b> Session Chair: Prof. D. K. Bhattacharya, Dean Academics, Tezpur University Session A: Development of science in India: a brief historical perspective by Prof Ajoy Ghatak, Professor Meghnad Saha Distinguished Fellow The National Academy of Science, India Session B: Sustainable Development through Science to Technology: Joining the Missing Links by Dr. Amitava Pramanik, Director, Strategic Science Group, Hindustan Unilever Ltd, Bengaluru	
12.15 PM—1.45 PM	<b>TECHNICAL SESSION ON INNOVATIONS IN ELECTRONIC DEVICES AND APPLICATIONS</b> Session Chair: Prof. P.P.Sahu, Head, Dept. of ECE, Tezpur University Session A: Protecting IC Layout and Designs/ Prior Art Search, IPR and Innovation & entrepreneurship By Shri. Sanjay Bhattacharya, Deputy Controller of Patents & Designs, Indian Patent Office Session B: Cognitive Computing/Artificial Intelligence and dynamic paradigm in Digital World by Shri. Sanjay Sikdar, Program Director, Cloud Platform services at IBM Software Lab, IBM India.	
2.00 PM —2.45 PM	LUNCH	
2.45 PM—3.15 PM	Exhibition of the Local Innovations	
3.15 PM— 5.00 PM	<b>TECHNICAL SESSION ON INNOVATIONS IN INDUSTRIAL PRODUCTS</b>	



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	Session Chair: Prof. C.L.Mahanta, Dean, School of Engineering Tezpur University
	<b>Session A: Industrial Innovations–Latent Trend</b> by Dr Anant Aghase, VP, PRS- Permacel Pvt. Ltd. Mumbai
	<b>Session B: Environmental Efforts of ONGC for sustainable Development</b> by Mr. Harendra Singh, General Manager/Head INBIGS, Oil and Natural Gas Corporation Limited
	<b>Session C: Regulatory requirement and validation, DRL products: an overview</b> by Dr. P. Chattopadhyay, Scientist, DRL, Tezpur
5.00 PM —6.30 PM	<b>TECHNICAL SESSION ON GOVERNMENT SUPPORT AND COMMERCIALIZATION INITIATIVES</b> Session Chair: Prof A. Kumar, Head, SAIC, Tezpur University
	<b>Session A: Initiatives of MSMEDI</b> by Shri. B.S. Hosamami, Assistant Director (i/c), Micro, Small & Medium Enterprises Development Institute, Tezpur Branch, Ministry of MSME, Govt. of India
	<b>Session B: Initiatives of Commercialization by NRDC</b> by Shri Amit Ranjan, Engineer- Business Development, NRDC, An Enterprise of DSIR, Ministry of Science and Technology, Govt. of India
6.30 PM—7.00 PM	<b>Concluding Ceremony</b>
	Concluding address by Dr. Biren Das, the Registrar, Tezpur University
	Giving away of the prizes of the IP Day events organised on 25 <sup>th</sup> April, 2018 Felicitation of the distinguished innovators of University
	Vote of Thanks by Dr. Juri B. Saikia, Research Officer, Tezpur University Intellectual Property Rights Cell
7.00 PM onwards	Tea



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The Speakers



**Prof. Ajoy Ghatak,**  
Professor Meghnad Saha  
Distinguished Fellow  
The National Academy of Science,  
India



**Dr. Amitava Pramanik,**  
Director, Strategic Science Group,  
Hindustan Unilever Ltd.



**Shri. Sanjay Bhattacharya,**  
Deputy Controller of Patents &  
Designs,  
Indian Patent Office



**Shri. Sanjay Sikdar,**  
Program Director, Cloud Platform  
services at IBM Software Lab,  
IBM India.



**Dr. Anant Aghase,**  
VP, PRS- Permcel Pvt. Ltd.



**Shri. Harendra Singh,**  
General Manager/Head  
INBIGS, Oil and Natural Gas  
Corporation Limited



**Dr. P. Chattopadhyay,**  
Scientist and Deputy Director,  
DRL, Tezpur



**Shri. B.S. Hazarmani,**  
Assistant Director, Micro, Small &  
Medium Enterprises Development  
Institute, Tezpur Branch,  
Ministry of MSME, Govt. of India



**Shri. Amit Ranjan,**  
Engineer- Business  
Development, NRDC,  
Ministry of Science and  
Technology, GOI



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List of Participants for RITES - 2018:

Sl. No.	Name	Address
1	Dr. Ratul Kr. Baruah	Assistant Professor, Tezpur University
2	Dr.Nayan Moni Kakoty	Assosiate Professor, Tezpur University
3	Singamayum Khurshida	Research Scholar, Tezpur University
4	Dr. Soumik Roy	Assosiate Professor, Tezpur University
5	Kashmiri Deka	Research Scholar, Tezpur University
6	Meenakshi Tahakdar	Research Scholar, Tezpur University
7	Mayuri Bora	Research Scholar, Tezpur University
8	Korobi Konwar	Project Satff, Tezpur University
9	Sushant Kumar Behera	Research Scholar, Tezpur University
10	Homen Lahan	Research Scholar, Tezpur University
11	Kasturi Sarmah	Research Scholar, Tezpur University
12	Pallavi Das	Research Scholar, Tezpur University
13	Dr. Ratan Boraah	Technical Staff, Tezpur University
14	Iftak Hussain	Research Scholar, Tezpur University
15	Debajit Rabha	Student, Tezpur University
16	Upasana Tahukdar	Student, Tezpur University
17	Karabi Saikia	Student, Tezpur University
18	Amlan Baruah	Student, Tezpur University
19	Neha Gogoi	Student, Tezpur University
20	Prof. Partha P. Sahu	Professor, Tezpur University
21	Madan L. Singh	Student, Tezpur University
22	Jyotismita Sarma	Student, Tezpur University
23	Princhi Kalita	Student, Tezpur University
24	Abinash Dutta	Student, Tezpur University
25	Vivek Baruah Thapa	Student, Tezpur University
26	Dr. Mridul Dutta	Assistant Professor, Tezpur University
27	Bibaliyov Reang	Research Scholar, Tezpur University
28	Prithibi Pratibha Gogoi	Research Scholar, Tezpur University
29	Digantaraj Medhi	Research Scholar, Tezpur University
30	Jinnashri Devi	Research Scholar, Tezpur University
31	Nazneen Hussain	Research Scholar, Tezpur University
32	Sarmistha Paul	Research Scholar, Tezpur University
33	Abhijit nath	Student, Tezpur University
34	Saurav Jyoti Sarma	Student, Tezpur University
35	Chandeep Suman Gogoi	Student, Tezpur University
36	Prerana Sarma	Research Scholar, Tezpur University
37	Pratishi Hazarika	Research Scholar, Tezpur University



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Sl. No.	Name	Address
38	Nabadweep Chamuah	Research Scholar, Tezpur University
39	Manasjvoti Nath	Student, Tezpur University
40	Dizanta Hatiboruah	Project Staff, Tezpur University
41	Rashmi Das	Research Scholar, Tezpur University
42	Jvotishukha Deka	Student, Tezpur University
43	Debananda Gogoi	Research Scholar, Tezpur University
44	Sumita Dutta	Research Scholar, Tezpur University
45	Prof. Ashok Kumar	Professor, Tezpur University
46	Shubham Rohilla	Research Scholar, Tezpur University
47	Rituraj Dutta	Research Scholar, Tezpur University
48	Devalina Sarmah	Research Scholar, Tezpur University
49	Urbashi Neog	Research Scholar, Tezpur University
50	Seikh Mustafa Radiul	Project Staff, Tezpur University
51	Oishik Nath	Student, Tezpur University
52	Madhabi Devi	Research Scholar, Tezpur University
53	Rituraj Borah	Student, Tezpur University
54	Bhagyalakhi Baruah	Research Scholar, Tezpur University
55	Nitin Joseph Panicker	Research Scholar, Tezpur University
56	Bhaswati Borgohain	Research Scholar, Tezpur University
57	Mridusmita Dutta	Research Scholar, Tezpur University
58	Dr. Juri B. Saikia	Research Officer, TUIPR Cell
59	Raja Basfar	Student, Tezpur University
60	Pranjit Sarma	Student, Tezpur University
61	Saurav K Limbu	Student, Tezpur University
62	Dipankar Bhuyan	Student, Tezpur University
63	Satyabrat M B Baruah	Student, Tezpur University
64	Parvesh Salman Choudhury	Student, Tezpur University
65	Paresh Chetri	Student, Tezpur University
66	Maibam Baby Devi	Research Scholar, Tezpur University
67	Rajesh Kalarivaiy	Student, Tezpur University
68	Maitrayee Patar	Student, Tezpur University
69	Dr. Hitesh Sarma	Assistant Professor, Tezpur University
70	Pranita Bora	Student, Tezpur University
71	Shrabani Das	Student, Tezpur University
72	Manali Dutta	Student, Tezpur University
73	Subhomoy Mukhopadhyaya	Student, Tezpur University
74	Priyankush Ghosh	Student, Tezpur University
75	Prandeep Borthakur	Student, Tezpur University
76	Parashmoni Kashyap	Student, Tezpur University
77	Shakyadeep Bora	Student, Tezpur University



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79	Pranjal Choudhury	Student, Tezpur University
80	Indrajit Saha	Student, Tezpur University
81	Subhadip Debnath	Student, Tezpur University
82	Ranojit Barman	Student, Tezpur University
83	Upasana Baishya	Student, Tezpur University
84	Chandan Sarma	Student, Tezpur University
85	Jotismita Doley	Student, Tezpur University
86	Kasturi Borah	Student, Tezpur University
87	Pollav Alugnpte	Student, Tezpur University
88	Pranjal Mahanta	Student, Tezpur University
89	Upasana Bora	Student, Tezpur University
90	Madhurya Borah	Student, Tezpur University
91	Subrata Paul	Student, Tezpur University
92	Satyajit D Baruah	Student, Tezpur University
93	Dikshita Dowerah	Student, Tezpur University
94	Raja Bhuyan	Student, Tezpur University
95	Diganta Rabha	Student, Tezpur University
96	Ashutosh Das	Student, Tezpur University
97	Pritam Das	Student, Tezpur University
98	Namita Ojah	Student, Tezpur University
99	Mannun Ray	Student, Tezpur University
100	Dr. Abinash Das	Guest Faculty, Tezpur University
101	Premkrishna Borgohain	Student, Tezpur University
102	Sita Chetry	Student, Tezpur University
103	Sangeeta Medhi	Student, Tezpur University
104	Sritam Biswas	Student, Tezpur University
105	Arghyadeep Paul	Student, Tezpur University
106	Naba K Kalita	Student, Tezpur University
107	Unnati Kashyap	Student, Tezpur University
108	Rajiv Khatiaoda	Student, Tezpur University
109	Dr. Rashmi R. Devi	Scientist, DRL, Tezpur
110	Dr. S Dutta	Scientist, DRL, Tezpur
111	D. Saikia	Student, Tezpur University
112	Prasenjit Panda	Student, Tezpur University
113	Abhijit Nath	Student, Tezpur University
114	Arun Rathi	Student, Tezpur University
115	Pankaj Sarma	Student, Tezpur University
116	Spondeep Borah	Student, Tezpur University
117	Koustav Mahanta	Student, Tezpur University



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120	Kaustav Mahanta	Student, Koliabor College, Nagaon
121	Dizanta Kumar Saikia	Student, Koliabor College, Nagaon
122	Spondeep Borah	Student, Koliabor College, Nagaon
123	Pivali Das	Student, Koliabor College, Nagaon
124	Kankana Sonowal	Student, Koliabor College, Nagaon
125	Sagorika Bora	Student, Koliabor College, Nagaon
126	Upashana Bora	Student, Koliabor College, Nagaon
127	Sumrin Ikram	Student, Koliabor College, Nagaon
128	Ashmita Deka	Student, Koliabor College, Nagaon
129	Chayanika Laskar	Student, Koliabor College, Nagaon
130	Mayuri Bhattacharjya	Student, Koliabor College, Nagaon
131	Bandita Parasar	Student, Koliabor College, Nagaon
132	Priyanka Nath	Student, Koliabor College, Nagaon
133	Abhinay Kumar Singh	Student, Koliabor College, Nagaon
134	Bikash Borthakur	Student, Koliabor College, Nagaon
135	Madhurjya Borah	Student, Koliabor College, Nagaon
136	Pranjal Mahanta	Student, Koliabor College, Nagaon
137	Hirak Jyoti Acharjya	Student, Koliabor College, Nagaon
138	Srija Hazarika	Student, Koliabor College, Nagaon
139	Liza Upadhyaya	Student, Koliabor College, Nagaon
140	Takshashila Kasyap	Student, Koliabor College, Nagaon
141	Kasturi Borah	Student, Koliabor College, Nagaon
142	Puja Sarma Phukan	Student, Koliabor College, Nagaon
143	Dr. Barnali Sarma	Assistant Professor, Koliabor College, Nagaon
144	Ms. Dipanjali Saikia	Assistant Professor, Koliabor College, Nagaon
145	Mr. Parag Nath	Assistant Professor, Koliabor College, Nagaon



Tezpur University Intellectual Property Rights Cell

Creating the networks and the Platform....







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UTES-2018



NATIONAL SYMPOSIUM ON ROLE OF INNOVATION AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT

INTEGRATING TRANSFORMATION WITH SUSTAINABILITY

26<sup>th</sup> APRIL, 2018

Organized by

Tezpur University Intellectual Property Rights Cell

Changing innovation processes and evolution of the relative contributions made by the private and public sectors have emphasized the need for increased and more efficient linkages between technology and innovation. A well-functioning interface between the innovation and technology systems is more necessary than ever to reap economic and social benefits from public and private investments in research, ensure vitality and quality, and improve public understanding and acceptance of the importance of innovation.

INNOVATION EXHIBITION

- 10 promising innovations from the University shall be showcased before the invited guests from industries
- Rush for registering your entry for the INNOVATION EXHIBITION IN : rites2018@tezu.ernet.in
- Please mention in email subject: entry for innovation exhibition in UTES 2018

VENUE: COUNCIL HALL

- Time: 9.30 onwards
- Register participation in the symposium on or before 24/04/2018 in : rites2018@tezu.ernet.in
- No registration fee

Invited Speakers\*

- Prof Ajoy Ghatak, Professor Meghmad Saha Distinguished Fellow, The National Academy of Sciences
- Prof. Hirendra N. Ghosh, Director, Institute of Nano Science and Technology, Mohali
- Dr. Anilava Pramanik, Director, Strategic Science Group, Hindustan Unilever Ltd
- Shri. Sanjay Sildar, Program Director, IBM Software Lab
- Shri. Sanjay Bhattacharya, Deputy Controller of Patents & Designs, Indian Patent Office, Kolkata
- Mr. S. Seidhar, MD, Pfizer Limited, Mumbai
- Dr Anant Aghase, VP, PIR- Permacel Pvt. Ltd, Mumbai
- Shri. M. Shreenivasulu, Director, Micro, Small & Medium Enterprises Development Institute, Ministry of MSME, Govt. of India

\* confirmed yet

Prof. P. Deb  
Chair Professor  
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