Develop EDUCATION through SKILL Develop SKILL through EDUCATION



EDUCATI<mark>on Empowers</mark>

CICON-2016-17

17th February, 2017

6th International Conference on Emerging Trends in Science, Engineering, Technology and Management: Research and Development

Theme: Doubling Farmers' Income by 2022 -SMART Farming & SMART Village

Organized by

Shobhit University, Meerut & Shobhit University, Gangoh

Supported by

Ministry of Electronics and Information Technology Government of India





Union Bank of India

In collaboration with

Ministry of Agriculture and Farmers Welfare, Government of India Ministry of Rural Development & Panchayati Raj, Government of India Ministry of Communications, Government of India Indian Meteorological Department (IMD), Ministry of Earth Sciences, Government of India

National Bank for Agriculture and Rural Development (NABARD), Mumbai African – Asian Rural Development Organization (AARDO), New Delhi Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut ICAR - Indian Institute of Farming Systems Research, Meerut International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad

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Shobhit University

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BACKGROUND

Scientific innovations happening in electronics globally, promotes research and development in higher–end computing technology and which, in turn, facilitates advancements in Information Technology. Internet of Things (IoTs) is promising to be the most influential technological revolution, and with the advent of World Wide Web (WWW), is expected to result in more than 100 billion uniquely identifiable objects, being connected to Internet by 2020. This is a Research and Development value chain.

Advances in Sensor and Computer Technology are revolutionizing the way remotely sensed data is collected, managed and analyzed. Extracting information from remotely sensed data turns out to be a major computational challenge. Social Media Networks are making and breaking the Governments and is the order of the day. Data Analytics and Modelling - the growing recognition of the potential values of all data - compels the developers to build in analytics from the start, making it an inherent aspect of Information Technology delivery. Data Security issues force "security architecture" in place. Open Data and Open Gov using open standards make the Governments transparent to the public. While many challenges remain, Cloud Computing is changing the face of enterprise computing. Computing is increasingly mobile. Digital Storage is where the most valuable assets of most business live. Providing access to assets and providing assets, through Internet, are crucial to business survival. Net neutrality issues are confronting the common public.

The emergence of Mobility, Social media, Big data and Cloud is creating enormous challenges for Information Technology to reliably deliver application to end-user. Wireless Power, Wireless Internet, and Near Field Communication (NFC) are the future and will make chargers and cords irrelevant. Reduced barriers to entry, new opportunities for exploiting information, and unprecedented speed to market are driving

AIM

Hon'ble Prime Minister Shri Narendra Modi ji's desire to double the income of farmers by the Year 2022, while addressing a farmers' rally in Bareilly (Uttar Pradesh), on February 28, 2016, has evoked interest among the Academicians, Researchers, and Stakeholders of Farming sector, however there have been discussions in various forums, viewing this goal as impossible and unrealistic. Through CICON-2016-17 Conference, the University desires to bring in all the stakeholders associated with research, education, development, training and extension of the Farming Sector to deliberate on as to how

use Technologies, especially Digital Technologies, for creating additional economic impact in the Farming sector which will facilitate more income to the Farming Community. It will provide a forum to exchange and share their experiences, technological advances, research results in the field and discuss the practical challenges encountered and the solutions adopted.

College faculty and students are sometimes disconnected from the research needs of industries, especially industries in different countries or regions of the world. In order to be successful, students and professionals must not only know the basics of technology, but also about how to apply their knowledge to solve real problems.

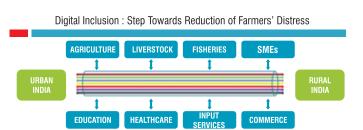
the digital industrial and revolution – "Entrepreneurial India" initiatives.

The Digital India Program 2014 of Narendra Modi Government aims at transforming India into "digitally empowered" society and "knowledge economy" and providing thrust to "Nine Pillars of Growth", with the budget estimate of about Rs. 1,13,000 Crores, viz., Broadband Highways, Universal Access to Mobile Connectivity, Public Internet Access programme, e-Governance : Reforming Government through Technology, e-Kranti (empowerment) : Electronic Delivery of Services, Information for All, Electronic Manufacturing, Jobs in IT Sector, and Early Harvest programmes. The entrepreneurial India Programme is envisaged as a "Vehicle for Growth".

India has about 4500 Engineering Colleges and about 18000 non-Engineering Colleges teaching various disciplines of Information and Communication Technologies (ICTs) – Computer Science, Computer Engineering, Computer Technology, Information Technology, Computer Application, Computer Management, Information Science and Management, Remote Sensing Technology, Spatial Informatics, Data Security etc., in the Graduate and Post-Graduate Courses.

Digital Industry Revolution requires human resources with ICT fundamentals with Geo-Informatics specialization. The gap in Human Resources development meeting the needs of Industry for their middle and higher levels categories is widening.

The All India Council for Technical Education (AICTE), Universities and the University Grants Commission (UGC) have not so far evolved any mechanism to tap the knowledge resources developed by the students or encouraged / facilitated such mechanism to promote so that an appropriate "Knowledge-Value-Chain" can be established for all-round development of the Society.



Rural Areas where more than 80 percent of the activities are related to agriculture sector.

There will be, therefore, focused discussions on the following "actionable points":-

- Get new ideas for breakthrough technologies and innovation out in the open
- Encourage students to start thinking like an entrepreneur
- Make students aware about the industry relevant skills
- Sharing knowledge about current scenario of startup bubble in India
- Create the next generation of entrepreneurs.

The Conference envisages significant contributions from Students, Researchers, Faculties, Industries, Professionals, Governments and Institutions including NGOs to convert Academic institutions into "Innovative Ideas Powerhouse" and "achieving strategic and practical excellence.

TOPICS COVERED

Digital Technology

- Big Data Analytics and Cloud Computing
- Database Technology
- Mobile Computing
- Geospatial Technology
- Internet & Cyber Security
- Web Technology
- IOTs, WOTs & IOE
- Open Data & Open Gov
- e-learning & e-Portals
 Bio-Technology and Bio-Informatics
- Standards
- e-Governance

SMART Village Digital Agriculti

 Digital Agricultural Resources Information System (AgRIS)

• SMART Climate Resilient Farming

- Digital Micro-level Planning & Schemes Implementation
- Digital Marketing and e-

Realisation

Digital Farming

- Entrepreneurship
- Digital Trade and Commerce
 Digital Warehousing, Logistics,
- Pledging, Clearing and Settlement
- Digital Marketing Information
 System Prices Discovery and

- Digital Extension
- Digital Risk Management
- Digital Precision Farming
- Digital Farm Health Management
 Digital Integrated Nutrient
- Management
- Digital Fisheries Management
- Digital Dairy Management
- Digital Irrigation & Water Management
- Digital Agricultural Statistical System
 Digital Supply & Value Chain
- Analytics
- Digital Livestock Management

• e-Governance in Farming Sector

- Digital micro-financial inclusion and micro-Insurance Inclusion
- Informatics & e-Governance Research and Education
- Digital Forecasted Weather Information and Agromet Advisories
- Digital Agribusiness Management
- Digital Land & Water Management
- Digital Credit & Cooperation
 Network
- Digital Network for Farmers (DNF)

TENTATIVE PROGRAMME SCHEDULE

08.00-09.00 Hrs	Registration	15.30 - 17.00 Hrs	Technical Session – V
09.00 – 10.00 Hrs	Plenary Session		Technical Session - VI
10.00-11.30 Hrs	Technical Session-I	17.15–18.30 Hrs	Valedictory Session
	Technical Session - II	18.30–1845 Hrs	High Tea / Coffee
11.30–11.45 Hrs	Tea / Coffee Break		Conference Closes
11.30–13.00 Hrs	Inaugural Session	Poster Presentation	
13.00-14.00 Hrs	Lunch Break	(Students Entrepreneurship Projects Excellence Award)	
14.00–15.30 Hrs	Technical Session – III	10.00-11.45 Hrs	Poster Session – I
	Technical Session – IV	13.00–14.00 Hrs	Lunch Break
		14.00–16.45 Hrs.	Poster Session – I

ABOUT THE UNIVERSITY

The journey to empower the nation through education, particularly rural India, has its origins from a remote village Gangoh followed by another village Dulhera in North India. It was in the year 1989, under the aegis of NICE Society, envisioned by Babu Vijendra Kumar Ji, an eminent agriculturist and social worker who had a dream to turn intellect into empowerment particularly for the downtrodden that the idea took shape. In the next few years his dream was nurtured by a team of eminent professionals, technocrats, educationists and social workers.

The University offers a wide range of programmes in Computer Engineering and IT, Electronics Engineering, Biotechnology, Biomedical Engineering, Bio-Informatics, and Agri-Informatics, Law, Library Science, Education etc. The University is complemented by a highly distinguished and eminent faculty and strong research facilities at its smart campus. Shobhit University offers graduate, postgraduate and professional programmes to the student community adopting best national and international practices.

Shobhit University retains its coveted position in the list of country's most emerging universities and ranked among top 50 universities by various survey agencies. Shobhit University, Meerut has been ranked amongst the best Universities in the Country and bagged twenty position in the multi-disciplinary Universities that include State, Central, Private and Deemed Universities in North Zone. University of Delhi, Jawaharlal Nehru University (JNU) and Banaras Hindu University are at number one, two and three positions respectively. SU has a strong record of collaborative research with number of projects involving many reputed laboratories of national and international importance which enriches the university to bring laurels. The University campus is cosmopolitan having a diverse pool of students from all parts of the subcontinents and other countries.

Microsoft Innovation Center (MIC) at Shobhit University is Microsoft's only tie-up in the Northern region. The MIC operates as an innovation hub providing incubation and expert hands-on support on Microsoft technology innovation, research, and software solutions, aiming to create a pool of student technology experts in the state.

Shobhit University is a NAAC Accredited Research-intensive University that shares the values of high-quality teaching within an environment of internationally competitive research. The University is ISO 9001:2008 Certified and has received "Best Institution for Promoting Industry-Academia Interface Award 2016" (bestowed by ASSOCHAM), "An Emerging Leader in Higher Education" (CAREERS360 Magazine, March 2016), "National Education Excellence Award 2015" (bestowed by Federation of Industry, Trade and Service -FITS).

ABOUT THE FACULTY

Faculty of Computer Science and Information Technology was established with a view to meet the demands of technically qualified personnel for research & development, academia, regulatory affairs and administration in the field of electronics and communication engineering, computer engineering and information technology. The major objective of the faculty is to train the budding professionals in basic and applied aspects of electronics, communication, software development process, system programming and state of the art IT technologies and research. The Faculty has strong commitment by forming partnership with industries and other institutions of repute. The Faculty has well-furnished classrooms, well equipped laboratories and Wi-Fi network.

The Faculty has B.Tech. programmes in Electronics & Communication Engineering, Computer Engineering and Information Technology. Postgraduate programmes: M.Tech. in Computer Engineering, Communication Engineering, VLSI, Biotechnology, Biomedical Engineering, Bio-Informatics, Agriculture Informatics are offered. A number of Research Scholars are doing their Ph.D. in different Research and Industry oriented areas.

PATRONS

Dr. Shobhit Kumar, Hon'ble Chairman, Shobhit University Kunwar Shekhar Vijendra, Hon'ble Chancellor, Shobhit University

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REGISTRATION DETAILS

Delegates Rs. 2000/-Rs. 1000/-Students Late & Spot Registration

Note: IEEE/CSI/ICEIT/ISTE members will be given 20% discount in

DD should be drawn in favor of "Shobhit University" payable at Meerut.

IMPORTANT DATES

Submission of Full Paper	:	Janua <mark>ry 2</mark> 5 th , 201
Selection Intimation	:	February 5 th , 201
Last date for Registration	:	February 10 th , 20
Conference Date	:	February 17 th , 20 th

SPONSORSHIP

Sponsorship from Government, Industry, Public Sectors Undertaking, NGOs, NRIs, Industry and Management Associations etc., are welcome.

Bank Details:

Account No. - 2159009300001989 IFSC Code No. - PUNB0215900 Beneficiary Name - Shobhit University Bank - Punjab National Bank, Sports Complex, Mohkampur Delhi Road, Meerut 250002

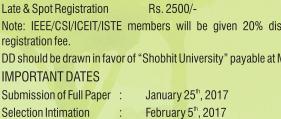
International SWIFT Code - PUNBINBBMSC

SUBMISSION OF FULL PAPER

After selection intimation, one copy of full paper in accordance with IEEE guidelines may please be sent by post and a soft copy through email at suconference@shobhituniversity.ac.in on or before 10th February, 2016.

PUBLICATION

Selected papers will be published in the "International Journal of Contemporary Research in Engineering and Technology" ISSN: 2250-0510 published by Shobhit University Meerut, provided at least one author of the paper registers.



January 25 [™] , 2017
February 5 th , 2017
February 10 th , 2017
February 17th 2017