

MEMORANDUM OF UNDERSTANDING

CHICAGO STATE UNIVERSITY AND JAWAHARLAL NEHRU TECHNOLOGICAL
UNIVERSITY-KAKINADA

1. PURPOSE AND LEAD DEPARTMENTS

This Memorandum of Understanding (MOU) establishes an inter-university partnership between two not-for-profit state government institutions of higher learning, viz., Chicago State University (CSU), State of Illinois, United States America, and Jawaharlal Nehru Technological University-Kakinada (JNTUK), State of Andhra Pradesh, India to engage in synergetic and asymmetrical activities broadly classified under the umbrellas of *Institution Building* and *Capacity Building* which lead to outcomes that include an infrastructure for industrial collaboration; computer science graduates having core competencies needed by industry, and global and cross-cultural awareness; established centers of excellence in computer security and databases; and a bridge between the two universities for fostering innovation, real-time communication, fostering economic development, and facilitating students to study at either university.

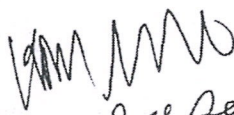
Activities in *Institution Building* include sharing knowledge in building data centers and industrial collaboration [(3.1)], and building centers of excellence [(3.2)].

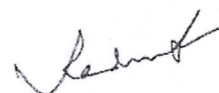
Capacity Building is to build sustained collaborative programs in mathematics and computer science whose activities include promoting innovation in curriculum development [(4.2.1)], pedagogy [(4.2.2)], and delivery of instruction [(4.2.3)]; facilitating exchange of faculty [(4.3.1)]; engage in grantsmanship [(4.1)]; facilitating students of Chicago State University to study computer science at JNTUK [(4.3.2)] and facilitating graduates of JNTUK to read for a Masters' degree in computer science at Chicago State University [(4.4)].

The departments of Mathematics and Computer Science of the respective universities will be the lead departments of the partnership.

2. MISSION, VISION, AND GOALS OF INSTITUTIONS

2.1. Chicago State University. Chicago State University (CSU) is a public, comprehensive university that provides access to higher education for students of diverse backgrounds and educational needs. The University fosters the intellectual development and success of its student population through a rigorous, positive, and transformative educational experience. CSU is committed to teaching, research, service and community development including social justice, leadership and entrepreneurship.


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The Department of Mathematics and Computer Science offers undergraduate and graduate programs that lead to Baccalaureate and Masters' degrees in Mathematics and Computer Science. The department maintains state-of-the-art teaching laboratories, and fosters industry training and collaborative research programs.

2.1.1. Strategic Goals.

- Goal 1: Academic Excellence, Teaching and Research.
- Goal 2: Community Service and Engagement.
- Goal 3: Cost Efficiencies and Diverse Revenue Streams.
- Goal 4: Enrollment, Retention and Graduation.
- Goal 5: Strengthened Infrastructure.
- Goal 6: Shared Accountability and Image.

2.2. Jawaharlal Nehru Technological University-Kakinada. The vision of the university is

"To promote quality of education in the areas of Sciences, Technology, Engineering, and Management (STEM) as four academic pillars of education, to excel in teaching, learning, research, consultancy and placements through innovative practices with global perspectives with global perspective."

The university is moving forward with a mission of promoting excellence, access, inclusion, and relevance in quality of education in STEM, viz.,

- (1) To design an industry relevant curriculum from time to time with a global perspective.
- (2) To promote quality education by embracing ICT delivery mechanism with continuous pedagogy through e-learning mechanisms.
- (3) To spread across for industry collaboration with a focus to pre-training and placements for technology transfer to society.
- (4) To establish centers of excellence to promote research and innovation in multidisciplinary areas to bring in patent culture and consultancy practices.
- (5) To enhance international collaboration for student outreach.
- (6) To facilitate international students to study at JNTUK to infuse cross-cultural learning practices.

3. AGENDA FOR INSTITUTIONAL BUILDING

3.1. Exchange of expertise in forming and sustaining industrial partnerships. [CSU GOALS 2, 5, 6; JNTUK OBJECTIVES 3, 4].

- CSU and JNTUK will share its knowledge and competencies of becoming a propelling force in economic uplifting of communities the two universities serve by exchanging information in forming and sustaining industrial partnerships and community services.
- CSU and JNTUK will share knowledge and expertise in building data centers at CSU and JNTUK.

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- CSU will share its knowledge and expertise in maintaining campus IT infrastructure and services in general and the functions of the Office of Chief Information Officer, in particular.

3.2. Building Centers of Excellence. [CSU GOALS 1, 4, 5, 6; JNTUK OBJECTIVES 1, 2, 4, 5, 6]. CSU intends to become a Center for Excellence in Computer Security and JNTUK a Center for Excellence in databases. Each may benefit from the combined work of both universities.

4. THE AGENDA FOR CAPACITY BUILDING

4.1. Collaborative Grants. [CSU GOALS 1, 5, 6; JNTUK OBJECTIVES 1, 2, 3, 4, 5, 6]. CSU and JNTUK intends to explore applying for a U.S-India Institutional Partnership Grants under the *Obama-Singh 21st Century Knowledge Initiative*¹. The eligibility fields would be **Education and Education Reform, and Innovation**, and the grant activities will support the U.S-India Institutional Partnership goals of encouraging mutual understanding, facilitating educational reform, fostering economic development, and engaging civil society through academic cooperation with Indian post secondary educational institutions.

4.1.1. Modalities. The two departments may engage in the following synergetic activities in order to apply for the grant:

- (1) Identify the collaborative teams.
- (2) Identify the method, timing, frequency of video communications.
- (3) Seek appropriate administrative approvals in a timely manner.

4.2. Curriculum and Pedagogical Development. [CSU GOALS 1; JNTUK OBJECTIVES 1].

4.2.1. Curriculum. CSU and JNTUK intent to develop curricular of integrated learning between theory and practical applications of the concepts of computer science. CSU and JNTUK intent to build mechanisms to incorporate the cutting-edge developments in industry and research into the curricular in realtime.

4.2.2. Pedagogy. CSU and JNTUK will design innovative pedagogies in computer science to engage students with diverse learning styles and education experience.

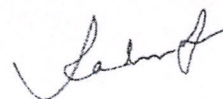
4.2.3. Availability of Courses for Students. CSU and JNTUK intent to permit students of either institution to take online classes in the complementary area of excellence²

4.3. Faculty and Student Ambassadors. [CSU GOALS 1, 4; JNTUK OBJECTIVES 1, 5, 6]. The MOU will promote faculty and student academic enrichment, mentorship, and formation of collaborative teams.

¹Grant url: <http://www.usief.org.in/Institutional-Collaboration/Obama-Singh-21st-Century-Knowledge-Initiative-Awards.aspx>

²Subject to Department of Education/University Grants Commission and State Government regulations.

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4.3.1. *Exchange of Faculty.* CSU and JNTUK will facilitate exchange faculty in mathematics and computer science to for short visits to carry out specific tasks made pursuant to the agreement. Faculty teaching cutting-edge technologies are especially encouraged to take part in these exchanges.

4.3.2. *Facilitate Students from CSU to study at JNTUK.* CSU and JNTUK will explore means to facilitate students from CSU to take courses at JNTUK, engage in research, and do projects with industry.

4.4. **Facilitate a Cohort of Students from JNTUK to study for MS Degree at CSU.** [CSU GOALS 1, 4; JNTUK OBJECTIVES 5]. JNTUK and CSU will facilitate cohorts of graduates from JNTUK to read for Masters' degree in computer science at CSU and provide them with an integrated learning environment between theory and practical applications of the concepts of computer science.

Any formulated special academic programme with the details of modalities can be annexed from time to time with this MoU.

5. ASSESSMENT

Pursuant to the signing of the MOU by both parties, the key contact officers (vide section (8)) of CSU and JNTUK will develop a plan for assessing the activities listed in the agendas, and submit it to the External Advisory Committee for approval. Each year in which the MOU is in effect the Contact Officers will submit a joint assessment report to the President of CSU and Vice Chancellor of JNTUK through the cognizant channels of communication.

6. EXTERNAL ADVISORY COMMITTEE

An External Advisory Committee of representatives of leaders of industry and academia would offer advise and oversight of the activities that are made pursuant to this agreement.

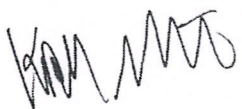
7. TERM, TERMINATION, AND RENEWAL

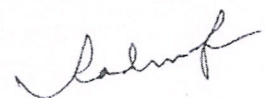
CSU and JNTUK enter this agreement for a period of three (3) years from the date of signing, which shall be deemed the Effective Date of the Agreement. Both parties may terminate this agreement by first giving a three (3) month written notice to the other party and thereby executing a cancelation of all activities pursuant to the agreement, in writing.

Before the expiry of its tenure, the collaboration can be renewed for an additional period of two years with mutual consent.

8. PRINCIPLE CONTACTS

8.1. **CSU contact.** Dr. Rohan Attele, kattle@csu.edu, (773) 428-9475, Professor and Chairman, Department of Mathematics and Computer Science shall be a key contact for the execution of any agreement on behalf of CSU.


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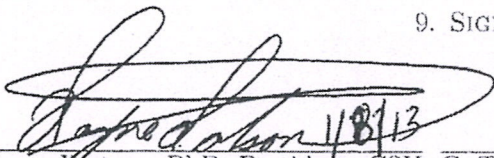
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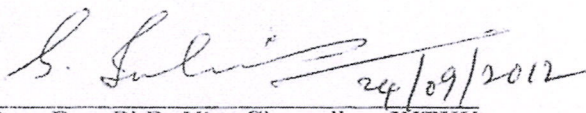
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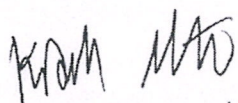
8.2. **JNTUK contact.** Dr. K. Padma Raju, padmaraju_k@yahoo.com (+91-9618522555 Principal, University College of Engineering, Kakinada) shall be a key contact for the execution of any agreement on behalf of JNTUK.

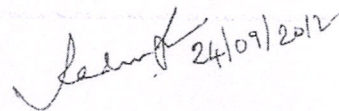
8.3. **Advisory Committee Head.** Dr. Venkata Majeti, founder and Chief Executive Officer of LOMENT Inc, shall be the chair of the External Advisory Committee.

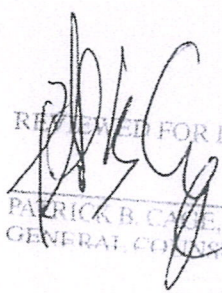
9. SIGNATURES


Wayne Watson, PhD, President, CSU


G. Tulasi Ram Das, PhD, Vice Chancellor, JNTUK


24/09/2012


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REVIEWED FOR LEGAL COMPLIANCE

PATRICK B. CATE, ESQ.
GENERAL COUNSEL

1/1/2013
DATE