



**K L University**

(Koneru Lakshmaiah Education Foundation)

Estd. u/s 3 of UGC Act 1956

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Constituent College KLCE Accredited by NAAC with CGPA 3.76/4.00

Approved by A.I.C.T.E ± Accredited by N.B.A.± ISO 9001-2000 Certified

Dt: 26th Dec'2015.

## A Guest Lecture Report on “Automata Theory and Formal Languages” by Prof. Madhu Mutyam, IITM

Under the roof of Computer Science & Engineering Department has organized a guest lecture on Automata Theory and Formal Languages between 21<sup>st</sup> and 24<sup>th</sup> December, 2015 by Professor Madhu Mutyam, Department of Computer Science and Engineering, IIT madras for B.Tech (CSE) III year 2<sup>nd</sup> semester students of KL University.

On 21<sup>st</sup> December, He has talked about the introductory aspects of finite automata in the beginning and concluded the day with the introduction of different types of automata like DFA and NFA.

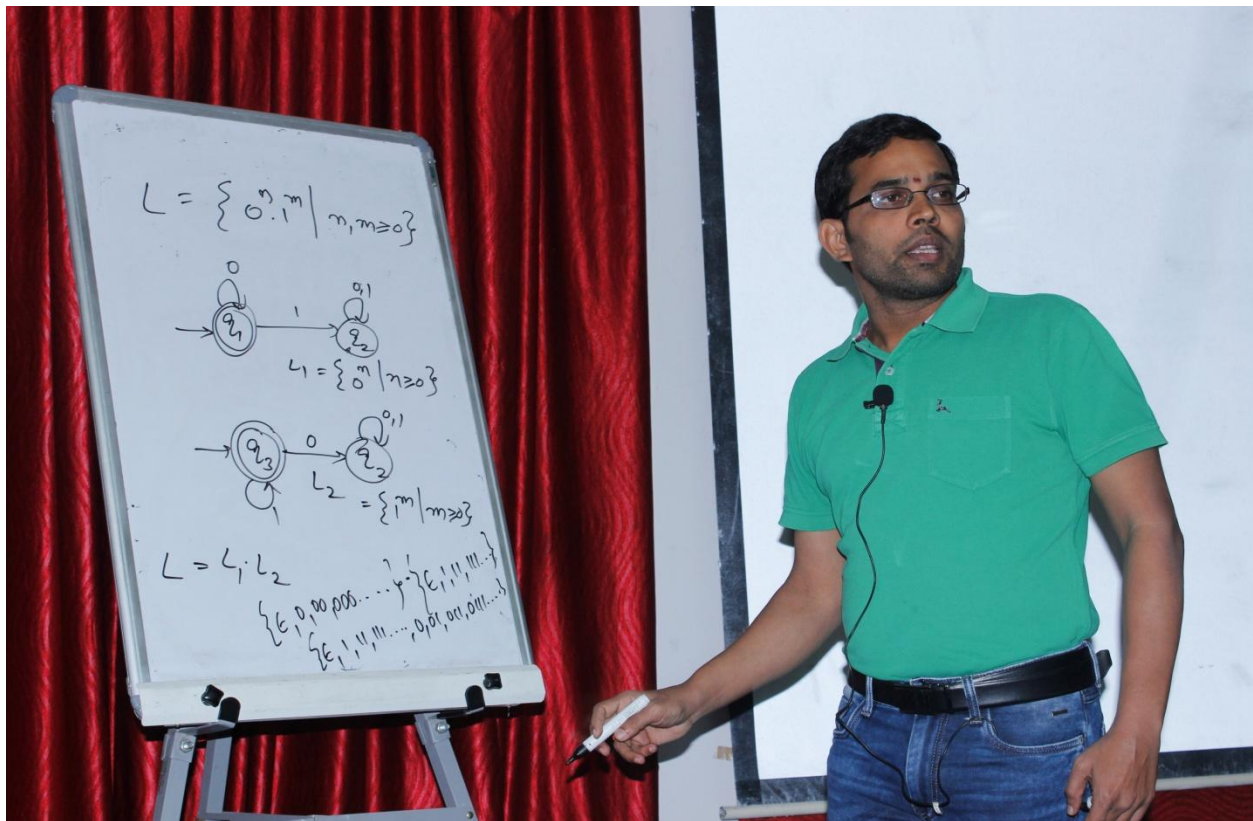
On 22<sup>nd</sup> December, He has covered all the topics that he had covered already on 21<sup>st</sup> along with the designing of DFA and NFA for different languages. He also talked about the designing of DFA and NFA He also talked about conversion of NFA to DFA and made the students involved actively in the conversion process.

On December 23<sup>rd</sup>, He introduced the concept of regular expression and gave an introduction to regular expressions and regular language. He also has given lecture on converting the language into regular expression and vice-versa. Finally, he has given introduction to pumping lemma on regular sets and told some problems on checking whether a given language is regular or not.

On December 24<sup>th</sup>, he concluded his entire session by giving a lecture on doing problems related to pumping lemma on regular sets and minimization of FA. He made students to do several problems on pumping lemma to check whether a given language is regular or not. Finally, he ended up with the topic on equivalence of finite automata.

The overall lecture he has given on all the three days enthralled the audience with his remarkable knowledge which in-turn has given a boost to our students to learn the subject in an inquisitive manner in the current semester.

The CSE Department HOD, Dr. V. Srikanth, Alt.HOD, Dr. V. Krishna Reddy, AFL Course Coordinator Dr. M.R.Narasinga Rao & team of faculty and Professor in-charge, Guest Lectures Dr. K.V.V. Satyanarayana were also present.



Dr. Madhu Mutyam explaining a problem



Faculty and students attending the Guest Lecture



Faculty attended for the guest lecture





Felicitation to Dr.Madhu Mutyam