

HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI-2

PG AND RESEARCH DEPARTMENT OF MATHEMATICS

WEBINAR REPORT

The Mathematics Association conducted a webinar on the topic “Designing Finite State Automata” in Google Meet Platform. The resource person was Dr.T. Rajaretnam, Head and Associate Professor, PG & Research Department of Mathematics, St. Joseph’s College (Autonomous), Tiruchirappalli.

The webinar commenced by invoking the presence of God Almighty through prayer by Ms. R. Aishwarya, Assistant Professor, Department of Mathematics, Holy Cross College (Autonomous), Tiruchirappalli. Dr. W. Ritha, Head and Assistant Professor, Department of Mathematics, Holy Cross College (Autonomous), Tiruchirappalli welcomed the Resource Person and the gathering.

The lecture delivered by the resource person mainly focused on designing finite automata. He gave detailed explanation on string catenation, transition diagram and regular expressions. He further discussed the classification of Automata such as Deterministic Finite State Automation (DFA) and Non-Deterministic Finite State Automation (NFA) with an appropriate illustrations.

At the end of the lecture session, the resource person clarified the queries raised by the participants.

Ms. A. Saranya, Assistant Professor, Department of Mathematics, Holy Cross College(Autonomous), Tiruchirappalli delivered the Vote of thanks and the webinar ended successfully.

HOLY CROSS COLLEGE (AUTONOMOUS)
 Affiliated to Bharathidasan University
 Nationally Accredited (4th Cycle) with A++ Grade (CGPA 3.75/4) by NAAC
 College with Potential for Excellence
 Tiruchirappalli - 620 002.

PG & Research Department of Mathematics
 Organises a webinar on

DESIGNING FINITE STATE AUTOMATA



Presided by
Rev. Dr. (Sr.) A. Christina Bridget
 Principal
 Holy Cross College (Autonomous)
 Tiruchirappalli-620 002



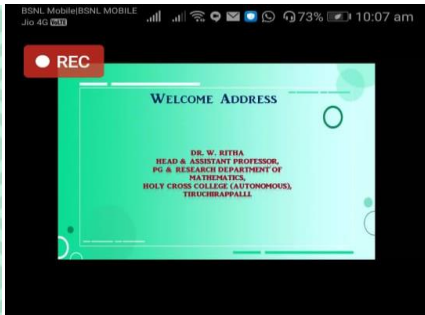
Resource Person
Dr. T. Rajaretnam
 Head and Associate Professor
 PG & Research Department of Mathematics
 St. Joseph's College (Autonomous)
 Tiruchirappalli-620 002

Date: 01.08.2020
 Time: 10.00 a.m to 11.30 a.m

Join us @  

Organised by
Dr. W. Ritha
 Head and Assistant Professor
 PG & Research Department of Mathematics
 Holy Cross College (Autonomous)
 Tiruchirappalli-620 002

No Registration Fee & E-Certificate will be provided.



BSNL Mobile | BSNL MOBILE | Jio 4G | 73% | 10:07 am

REC

WELCOME ADDRESS

DR. W. RITHA
 HEAD & ASSISTANT PROFESSOR,
 PG & RESEARCH DEPARTMENT OF
 MATHEMATICS,
 HOLY CROSS COLLEGE (AUTONOMOUS),
 TIRUCHIRAPPALLI

(93)

- Jenni pretha (You)
- Jenni pretha **NEW**
- Jarobhiya Thavaseelan >
- Ritha Prakash >

Others in the meeting (89)



BSNL Mobile | BSNL MOBILE | Jio 4G | 73% | 10:10 am

REC

10:38 | 50%

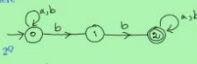
REC

A Non Deterministic Finite State Automaton (NFA) is an ordered 5-tuple $M = (Q, \Sigma, \delta, q_0, F)$, where

- Q is the set of states
- Σ is the set of input symbols
- δ is the transition function, $\delta : Q \times \Sigma \rightarrow 2^Q$
- $q_0 \in Q$ is the initial (start) state
- $F \subseteq Q$, the set of final (accept) states

A string x is accepted if $\delta(q_0, x) \cap F \neq \emptyset$. The language accepted by M is $L(M) = \{x \in \Sigma^* | \delta(q_0, x) \cap F \neq \emptyset\}$

$Q \times \Sigma = \{(q_0, a), (q_0, b), (q_1, a), (q_1, b), (q_2, a), (q_2, b)\}$



(93)

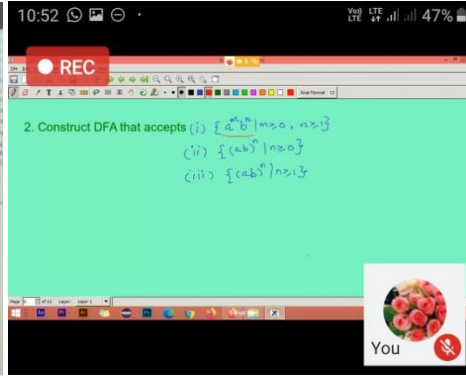
- Jenni pretha (You)
- maryjansi rani >
- T RAJARETNAM >
- Ritha Prakash >

Others in the meeting (89)

(114)

- Aishwarya R (You)
- T RAJARETNAM >
- maryjansi rani >
- T RAJARETNAM >

Others in the meeting (110)



116 1 (118) 1

Aishwarya R (You)

T RAJARETNAM >

Jenni pretha >

T RAJARETNAM >

Others in the meeting (112)

what is the imitation of string.

You 2 mins
Dear Participants, You can post your queries in chat box.

Chitra Kannan 2 mins
At what
criteria we are forming strings

Ankur anuraag Saurav Now
What is the rule of draw the transaction diagram?
Is States be infinite ?

Send a message to everyone here >