From,

Sudarshana K
Assistant Professor
FDP Coordinator
AIET, Mijar.

**To,**

The Principal
A.I.E.T, Mijar

**Through,**
H.O.D
Dept of ISE
A.I.E.T Miijar

Respected Sir,


**Sub: -** Proposal for conducting Workshop on **"A Practical approach on System Modelling and Simulation using C/C++ based Discrete Event Simulator CSIM 20"-** regarding


We here by propose to conduct 7 days national level workshop on **"A Practical approach on System Modelling and Simulation using C/C++ based Discrete Event Simulator CSIM 20"** aims at addressing the importance of system modelling and simulation in the perspective of industry and research and also focusses on fundamental concepts of system modelling and simulation using discrete event simulator CSIM 20

Kindly permit us to conduct the workshop from 19/10/2015 to 25/10/2015. And I seek your suggestions and cooperation regarding it.


Thanking you,


Yours Sincerely


HoD. O.D.
Dept. Of Information Science & Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

Principal
PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar. MOODBIDRI - 574 225, D.K

## ABOUT THE INSTITUTION

Alva's Education Foundation (AEF) established in 1995 with the vision of our Chairman Dr. M. Mohan Alva has succeeded in making Moodbidri, an Educational hub in the South Canara Region, with more than 22,500 students pursuing various courses ranging from primary school to post-graduate courses in social sciences, pure sciences, engineering and management. There are 21 institutions functioning under the Alva's Education Foundation.

Alva's Education Foundation is highly committed towards the cause of providing education to all the sections of society. This is evident from the quality of events, programs, staff and the necessary support available for traditional & contemporary education at the Alva's Education Foundation.

Alva's Institute of Engineering and Technology, Moodbidri is a Premier Engineering Institute of Alva's Education Foundation, established in the year 2008. The college is certified to the ISO 9001: 2008 standards. The institute offers top quality education in five under graduate programs in Engineering-Computer Science, Civil, Electronics and Communication, Information Science and Mechanical. Three post graduate programs- Master of Technology in Thermal Engineering, Computer Science and Engineering, VLSI Design Embedded Systems and Master of Business Administration. Four departments have been recognized as research centers by VTU, Belagavi.

## ABOUT WORKSHOP

The seven days workshop program aims at addressing the importance of system modeling and simulations in the perspective of industry and research and also focuses on the fundamental concepts of system modeling and simulation using discrete event simulator CSIM 20. This include
i.    Overview Of system Modeling and Simulation
ii.   Queuing models and networks of Queues
iii.  Discrete event simulation modeling
iv.   Discrete event simulation modeling using CSIM 20 - experiment design, workload characterization, measurement of performance metrics, analysis and presentation of results

## SUBJECT EXPERTS

**Dr. S. Suresh**
Assoc. Professor
Dept of CSE
ACE, Hosur

## CONTACT DETAILS

**Mr. Sudarshana K**
Phone: 9008415965
E-Mail_ID: sk5353@aiet.org.in

**Mr. Santhosh S**
Phone: 9739040498
E-Mail_ID: santhu87@ymail.com

## PROGRAM SCHEDULE

### October-19

| | |
|---|---|
| Registration: | 08:30 am to 09:30 am |
| Inauguration: | 09:30 am to 10:00 am |
| Keynote Address: | 10:00 am to 11:00 am |
| Tea Break: | 11:00 am to 11:15 am |
| Session 1: | 11:15 am to 01:00 pm |
| Lunch Break: | 01:00 pm to 02:00 pm |
| Session 2: | 02:00 pm to 05:00 pm |

### October 20

| | |
|---|---|
| Session 3: | 09.30 am to 11:00 am |
| Tea Break: | 11.00 am to 11.20 am |
| Lunch Break: | 01:00 pm to 02:00 pm |
| Session 4: | 02:00 pm to 05:00 pm |

### October 21

| | |
|---|---|
| Session 5: | 09.30 am to 11:00 am |
| Tea Break: | 11.00 am to 11.20 am |
| Lunch Break: | 01:00 pm to 02:00 pm |
| Session 6: | 02:00 pm to 05:00 pm |

### October 22,23,24

| | |
|---|---|
| Session 7: | 09.30 am to 11:00 am |
| Tea Break: | 11.00 am to 11.20 am |
| Lunch Break: | 01:00 pm to 02:00 pm |
| Session 8: | 02:00 pm to 05:00 pm |

### October 25

| | |
|---|---|
| Session 9: | 09.30 am to 11:00 am |
| Tea Break: | 11.00 am to 11.20 am |
| Lunch Break: | 01:00 pm to 02:00 pm |
| Session 10: | 02:00 pm to 04:00 pm |
| Valedictory: | 04:30 pm to 05:00 pm |

## REGISTRATION FEE

Registration Fee of **Rs. 500**/- per participant may be sent through a Demand Draft drawn in favor of **"The Principal, AIET, Mijar,"** payable at **Moodbidri**, or through NEFT (Acc. No. **0612201001004**, IFSC: **CNRB0000612**).

Spot registration is also allowed.

## ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri
D.K., Karnataka- 574225
**Website: www.aiet.org.in**

*Five Days WORKSHOP ON*
*On*
*"System Modeling and Simulation using CSIM 20"*

### REGISTRATION FORM

*Name:*

*Designation:*

*Department:*

*Institution:*

*Mobile/Phone (O):*

*Email-ID:*

*Address:*

*Date:*

*Place:*

*Signature of the Participant*

*Signature of the HoD/Principal with Seal*

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### CHIEF PATRON

**Dr. M. Mohan Alva**
Chairman, AEF, Moodbidri

### PATRONS

**Mr. Vivek Alva**
Managing Trustee,
AEF, Moodbidri

**Dr. Peter Fernandes**
Principal
AIET, Moodbidri

### ADVISORY COMMITTEE

**Prof. Praveen. J**
Dean (Academics)

**Prof. Jayantkumar A Rathod**
Assoc. Professor & Head, ISE

### CONVENORS

**Prof. Sudarshana K.**
**Prof. Santhosh. S**
Department of ISE, AIET, Moodbidri

### MEMBERS OF ORGANIZING COMMITTEE

**Mr.Satyaprakash**
**Mrs Divya Ravi N**

### VENUE

**"Internet Lab"** Administrative Block

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## ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY MOODBIDRI

(Affiliated to VTU, Belgaum and Approved by A.I.C.T.E., New Delhi)
Shobhavana Campus, Mijar, Moodbidri DK Karnataka-574225
Phone: 08258 – 262724
E-Mail**: principalaiet08@gmail.com**
Website: www.aiet.org.in

**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**



### HANDS ON WORKSHOP ON

*"A Practical approach on System Modeling and Simulation using Discrete Event Simulator CSIM 20"*

**19 to 25 October 2015**

# Brief Report of Workshop

## On

## "A Practical approach on System Modelling and Simulation using

## C/C++ based Discrete Event Simulator CSIM 20"

## By

## Dr. S Suresh AEC HOSUR

The Department of ISE organized 7 days' workshop from 19th October 2015 to 25th October 2015 which was delivered by Dr S Suresh Assoc Professor dept. of CSE AEC Hosur on the topic **"A Practical approach on System Modelling and Simulation using C/C++ based Discrete Event Simulator CSIM 20"**

The workshop was inaugurated by the Chief Guest Mr. Vivek Alva, Management Trustee, AEF, and presided by Dr. Peter Fernandes, Principal, AIET, also Prof. Jayantkumar.A.Rathod, HOD, Dept. of ISE, Prof. Manjunath Kotari, HOD, Dept. of CSE, Prof. Sudarshan K, Forum Co-Coordinator, Prof. Santosh S, Workshop Co-Coordinator were present during the inauguration.

First 2days, Dr. S. Suresh explained the importance of system modeling and simulations in the perspective of industry and research. He also focused on the fundamental concepts of system modeling and simulation using discrete event simulator CSIM 20. This include

i. Overview Of system Modeling and Simulation
ii. Queuing models and networks of Queues
iii. Discrete event simulation modeling
iv. Discrete event simulation modeling using CSIM 20 - experiment design, workload characterization, measurement of performance metrics, analysis and presentation of results
v. Learn how to design and implement process-oriented simulation models using CSIM 20
vi. Understand the modeling and analysis process from a project perspective and how to define experiments and present results.

Remaining 5 days, Dr. S. Suresh given the hands-on experience of the CSIM 20 simulator tool with the following study cases:
1. CSIM 20 discrete event simulator installation and Running.
2. Model and simulation of a Single Server Queue with infinite buffer (M/M/1,M/D/1) using CSIM.
3. Multiple Server Queue with infinite buffer (M/M/c) using CSIM.
4. Multiple Server Queue with limited buffer (M/M/c/d) server queue using CSIM.
5. **Mini Project:** System model and evaluation of various load balancing algorithms for the client server architecture.

# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225
Phone: 08258-262725, Fax: 08258-262726
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

On behalf of the Management, Principal, Staff and Students I would like to thank Dr. S. Sureshfor sharing his knowledge in this workshop.

# Workshop Feedback Form

**Title of the Workshop:** System modeling and simulation using C / C++ based discrete event simulator CSIM 20.

**Name of the Organizers:** The Department of CSE , Alva's Institute of Engg. & Technology, Moodubidre,Karnataka State, India, On 19/10/15 to 20/10/15

Name of the participant: ....Kavya.H.R...........

Address:...D/O...Rellamma.H.R,....Hospete..,Dagadi.toress.Bangalore...

Age:......27..............; Occupation:.................................

Mobile No. ...9916478888.............; E-mail id:.kavyahr77@gmail.Com.........

Educational Qualification:...B.E., M.Tech.................

| Sl. No | Items | Rating. Please put tick ( ) |
|---|---|---|
| 1. | Did you find the Workshop useful? | Very useful......✓<br>Quite useful...........<br>Not very useful.............<br>Not useful at all............. |
| 2. | Did it cover what you were expecting? | Yes...✓.....<br>To some extent..........<br>Not really..........<br>Not at all.......... |
| 3. | Please rate the speaker on his/her delivery style | Lack...........<br>Adequate...............<br>Good...✓.......<br>Excellent........... |
| 4. | How relevant was the content to your occupation? | Yes..........<br>To some extent.............<br>Not really...............<br>Not at all........... |
| 5. | Workshop duration | Too short..........<br>Adequate.............<br>Too long.✓.......... |
| 6. | Are you familiar with the topics of this workshop? | Yes...✓....<br>To some extent.............<br>Not really..............<br>Not at all............ |
| 7. | Did you like the venue, in terms of location and comfort | Yes.....✓...<br>To some extent.............<br>Not really...............<br>Not at all............ |
| 8. | What subject areas did you find particularly useful?<br><br>Simulation | |
| 9. | In terms of future workshops, are there any other related subject areas you would be interested in? | |

Kavya H·R
14/10/15 to 20/10/15
Signature of the Participant with date

Thank you for your feedback!

# Certificate

## THIS CERTIFICATE IS PROUDLY PRESENTED TO

### Ms. Kavya H R

For actively participating in the workshop on the topic **A Practical approach on System Modeling and Simulation using C/C++ based Discrete Event Simulator CSIM 20** organized by the department of Information Science Engineering from 19/10/15 to 25/10/15

**Mr.Sudarshan K**
Coordinator

**Prof. Jayantkumar A Rathod**
HoD

**Dr.Peter Fernandes**
Principal, AIET