



महामाया प्राविधिक विश्वविद्यालय Mahamaya Technical University

C-22, Sector-62, Noida, G. B. Nagar (U.P.) – 201301

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Prof. S. K. Kak
Vice-Chancellor

No: MTU/Noida/VC/2011/34

12th October, 2011

Sub: Workshop on Design Science Research Methods: Innovating ICT

Dear Colleagues,

With a view to improve Faculty competence in Research, knowledge generation and to enable them to perform better, Mahamaya Technical University, Noida (MTU) has planned to organize a series of Faculty Development Programmes/Workshops/Seminars/Symposia/Special Lectures etc. These programmes, are designed to increase the professional knowledge, research aptitude and pedagogical skills of the participating faculty, and also intended to guide them in state of the art concepts and techniques to improve the performance and knowledge of UG and PG students.

As part of this scheme a one day Workshop on " Design Science Research Methods: Innovating ICT" is being organized from 10:30 am to 5:00 pm on 15th October, 2011 in the Conference Hall, MTU, Noida. The expected participants will be the faculty involved in guiding research scholars in Engineering and Technology disciplines especially from IT, Electronics, Mechanical, Chemical, Computer Science and Allied disciplines including M.Tech and currently registered doctoral students from GBTU, MTU affiliated Colleges. Dr. Vijay K. Vaishnavi, Distinguished Professor, Georgia State University, USA will conduct this workshop. Detailed programme of this Workshop is enclosed.

Interested Candidates must apply online at MTU website www.mtu.ac.in. **There is no registration fee** to participate in this Workshop. The Registration will be done on first come first served basis but the participants will be restricted to maximum 60.

I invite you to make use of this initiative by nominating senior faculty and the research students for registration in this Workshop.

With regards

(Prof. S.K. Kak)
Vice-Chancellor

To all the Directors/Principles of Colleges/Institutes affiliated to MTU, Noida and GBTU,
Lucknow.

Workshop On
**Design Science Research Methods:
Innovating ICT**

Lead Speaker

Dr. Vijay K. Vaishnavi

Distinguished Professor



At

Conference Hall, Mahamaya Technical, University

On Saturday, October 15, 2011, From 10:30 A.M. to 5:00 P.M.

Organised by

Mahamaya Technical University

C-22, Sector-62, Noida, G. B. Nagar (U.P.) 201301



Workshop Objectives

Herbert Simon's book *Sciences of the Artificial* is a seminal work that has helped in the understanding and appreciation of the uniqueness and importance of design (science) research in professional disciplines. The work of many researchers in the information systems community has made design science research an accepted paradigm of research in that community. However, even though most of computer science and information technology research can be considered to be design science research there is lack of awareness of design science research concepts and methods in this community, particularly in India. The major reason for this is the lack of exposure that faculty and graduate students have to this paradigm through formal or even informal courses and workshops. The specific objectives of the workshop will be to provide:

- An overview of design science research concepts and methods
- Introduction to the use of design science research patterns
- Practice on identifying, analyzing, and critiquing published design science research in information and communication technology

Outline

1. Introduction to Design Science Research (DSR)

- a. Over view of DSR
- b. Philosophical Grounding of DSR
- c. DSR Methodology (By Example)
- d. An Example of Design Science Research
- e. Design Science Research versus Design

2. How to Conduct DSR: Using Research Patterns

- a. Patterns, Then and Now
- b. General Design Science Research Cycle Revisited
- c. Pattern Usage: Illustrative Example
- d. Summary of DSR Patterns

(Lecture followed by Exercises and Discussion)

3. Positioning and Presenting Design Science Research

Examination of current directions and guidelines for positioning and presenting DSR from maximum impact

Target Audience and Participants

Computer science faculty and doctoral students. The workshop will also be useful to faculty in allied disciplines such as engineering. (The number of participants will be limited to 50).

Profile of the Speaker:

Dr. Vaishnavi is author of the first book on the subject, Design Science Research Methods and Patterns: Improving and Innovating Information and Communication Technology, Auerbach Publications, New York, 2008 (with W.L. Kuechler). In 2007 the International Conference on Design Science Research in Information Systems and Technology (DESRIST) honored him with the Lifetime Achievement Award in Design Sciences, with the citation: "For making significant fundamental contributions in design science research through leadership and mentorship." His current research interests include theory development in design science research in information systems and technology.

Mahamaya Technical University

The university has about 385 colleges and institutions affiliated to it offering courses in Engineering, Technology, Management, Pharmacy, and other professional programs. The strength of the university lies in the area where it is situated and the National & International connectivity that it can use for developing a truly global character with highly rewarding industrial partnership.

MTU Vision- To create Environment of Excellence in Engineering, Technology & Management Education through Optimally Designed Academic, Operational & Functional processes for every stakeholder.

MTU Mission- Using Innovative Teaching – Learning methods for imparting Domain Knowledge, Problem Solving Skills & Lateral Thinking And to inculcate Professional excellence in every student of the University.

How to Apply

Interested candidates should apply online at ... www.mtu.ac.in

There is no registration fee for the programme. The last date of registration is October 14, 2011 and the registration will be done on first come first basis.

Contact details

All correspondence shall be made to Shri Y. P. Dogra, Administrative officer at the following address:

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