



## IITM-K's Language Computing Centre bags new Central Government Project

IITM-K has become a partner for the project "Indian Language to Machine Translation System (ILMT)" by Department of Information Technology, Government of India by recognizing its contribution and achievement in an earlier similar project "Indian Language Corpus Initiative" of DIT. IITM-K has enlisted for next phase of the project "Indian Language to Machine Translation System (ILMT)" for a period of three years. The objective of the project is to enhance current level of accuracy which is currently at an average of 50% only, and performance of Indian Language machine translation systems. The systems should also be able to meet the requirements of real-life systems, with a given level of translation accuracy, and they should be capable of further improvement. IITM-K would mainly concentrate on Malayalam-Tamil pair which has currently accuracy much below 50% and to achieve the target, a level for further enhancement in Ma-

chine Translation System would be identified and implemented to reach the expected level of comprehensibility and accuracy.

There is a dire need for in depth research in Language Technology because the primary concern and challenges underlying any activity lies in offering universal access to information and services to more and more people in their own language. With the technological revolution nucleated around Information and Communication Technology, advances in Language Technology and e-Governance it has become necessary to ease interaction with machines by humans. It should enable people with diverse backgrounds like the land tiller wanting to know the relevant land records of his tiny piece of land to high-end Computer professionals in state-of-the-art laboratories focusing on problem fixing. The R & D in Language Technology lead at the national level by Ms. Swarnalata, Director of the Technology Develop-

ment in Indian Languages (TDIL) group at the Department of Information Technology, Govt. of India and the Group promotes and facilitates for the development of Language Techniques by creating and accessing multilingual knowledge resources and integrating them to develop innovative user products and services.

The Indian Language to Machine Translation System(ILMT)project is

lead by Prof. (Dr.) Rajeev Sangal, Director, IIIT- Hyderabad and other Consortium members are IIT Bombay, IIT Kharagpur, AUKBC Chennai, Jadhavpur Univ, Tamil Univ, IISc Bangalore, CDAC Noida, IIIT Allahabad etc. Total outlay of the project is Rs. 1495.86 lakhs. Dr. Elizabeth Sherly is the Chief Investigator at IITM-K.

### Cyber Literate - Cyber Crime Devoid Campus Project Inauguration @ Chengannur Taluk

An inaugural function of an Institutional level Training on "Cyber Literate - Cyber Crime Devoid Campus" at Chengannur taluk was held on 19 January 2011 at Davasom Board H S S, Chengannur. The project is coordinated by Kerala State Legal Services Authority and Sree Ayyappa College, Chengannur in association with IT Mission, IITM-K and CERT-Kerala with an objective to provide Cyber-crime awareness in a systematic way to student community and how to use cyber space effectively and safely. This is the first attempt in Kerala to make a Taluk cyber literate and the function was inaugurated by Mrs. Sherly Dath, Sub Judge Chengannur Sub Court in the presence of a large number of teenagers. Mr. K.S Anil Kumar, Project Coordinator presented the report of Phase I & II and action plan for Phase III. In phase III covering next 10 months, a continuous training on Cyber Literacy shall be given to the students and their feedbacks and responses collected for further analysis and future studies. The sessions in schools and colleges will be handled by IITM-K, CERT-Kerala and IT Mission. Dr. Elizabeth Shely, Director IITM-K, Mr. I.C. Mahesh, Director CERT-Kerala, Ms. Ambili K, Asst. Mission Co-ordinator, State IT Mission and Dr. D. Radhakrishna Pillai, Principal, Sree Ayyappa College also spoke on the occasion.

#### ADMISSION ANNOUNCEMENT

##### M.Sc. Geoinformatics

Encompasses a collection of technologies and tools for the acquisition, processing, management, analysis, and presentation of geospatial data Brings together the techniques, skills and knowledge from geo-sciences and computing to develop decision support applications for a growing number of scientific and business problems.

**Eligibility:** Bachelor's Degree in any Science Discipline with a minimum score of 60 percentage marks or CGPA of above 6.5 in 10 points, in the qualifying examination.

##### M.Sc. Computational Science

Computational Science (CSc.) is the science of the future and it integrates different science and engineering disciplines. CSc. helps to tackle fundamental scientific and engineering problems using advanced computing methods. The course aims at equipping students to answer the most perplexing scientific questions using cutting-edge technologies.

**Eligibility:** Bachelor's Degree in any Science Discipline with a minimum score of 60 percentage marks or CGPA of above 6.5 in 10 points, in the qualifying examination.

Scholarships available for meritorious students under SPEED-IT programme of Government of Kerala for both the courses. Admission starts in February, 2011

### Prof. (Dr.) Dieter Rombach visits IITM-K

Prof. (Dr.) Dieter Rombach, Software Engineering Chair, CS Dept., University of Kaiserslautern, Head of the Research Group for Software Engineering (AGSE) and Executive Director of the Fraunhofer Institute for Experimental Software Engineering (IESE), Germany delivered a lecture entitled "Software Engineering for Embedded Systems" to students from IITM-K and other institutions at Travancore Hall, Technopark on 17 Jan. 2011. His talk emphasized the need of methods for developing software with predictable quality, in quantitative methods for measuring and assessing software products and software processes, in languages and methods for developing and using explicit software process models, in process-based software development environments as well as in software reuse.

Prof. Rombach who was leading a delegation from Germany also visited IITM-K and had interactions with the Faculty and staff lead by Dr. Elizabeth Sherly, Director, IITM-K and explored the possibilities of collaboration in areas of research and academics.



### Short course on 'Embedded Systems and Security' at IITM-K

IITM-K has commenced a twenty days' short course on Embedded Systems and Security on 22nd Jan 11 under Information Security Education and Awareness [ISEA] project of DIT, Govt. of India. The course is intended for graduating students / graduates [BE / MSc / BSc (ECE/CS) ] who look forward to a career in embedded systems and related areas.

The course is conducted on Saturdays and Sundays for 10 weekends at IITM-K premises in Technopark. Participants are imparted hands on training to face the challenges in the design and development of embedded systems devices. Faculty comprises experienced professions from the industry, research institutions and IITM-K.

#### Invited Talks & Publications

**Dr.C.S.P.Iyer**, Emeritus Professor, IITMK, spoke on the tremendous strides, which India has made in the field of Science and Technologies during the last four decades. He illustrated it with the developments in Nuclear, Space and Information Technologies. He was addressing the delegates to the conference on *Advances in Science, Emerging Technologies and Societal Development*, organised by the Bodhananda Research Foundation for Management and Leadership (BRFML) at Priyadarshini Auditorium, Trivandrum on Saturday, the 15th December 2010. Others seen on the dias are Dr.B.N. Suresh, Director, IIST, Swami Bodhananda, Founder BRFML and Prof. K.R. Srivathsan, Pro Vice Chancellor, IGNOU, New Delhi.



**R. Saravanan, Kunal Mandal, Sridhar Gutam, Jatindra Nath Samanta and V. Saroj Kumar.** "Changes in Photosynthesis Related Parameters in *Isabgol (Plantago Ovata) Under Downy Mildew Infection*" Indian J. Plant Physiol., Vol. 15, No. 4, (N.S.) pp. 401-405 (Oct.-Dec., 2010).