NITTTR Chennai - e Newsletter

National Institute of Technical Teachers Training & Research (NITTTR) - Chennai

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Message from the Director

Main building of NITTTR Chennai

Best wishes for a Happy and prosperous New year 2009.

You will be happy that our newsletter this time in the form of e-Newsletter is once again in your hands after a gap 4 years. NITTTR, Chennai is steadfastly working in union with its clientele to ensure providing quality technical education, Short term staff development and training programmes continue to get heavy patronage from teachers of polytechnic and engineering colleges because of careful planning and user friendly delivery and monitoring systems.It is heartening that institutes have come forward to provide venue and resources required for the conduct fo these programmes. The two year M.Tech. (HRD) programme is back with a new curriculum. Ph.D. scholars have made us proud. 25 researchers have been awarded the Ph.D. in Engineering Education.

Our efforts in the area of curriculum design and revision remains unabated. You will soon have CDs and Videos on technical topics to support in teaching. We are exploring possibilities of designing and offering training programmes through the virtual mode. Technical Education is poised for further expansion and development during the XI plan. There are many challenges ahead of us. We need to gear ourselves to meeting these challenges. Let us all join hands in this exciting endeavour to make technical education very vibrant.

National Symposium on 'E-Learning in Education'

A one day Symposium on '**E-Learning in Education**' was conducted at our Institute on 19.12.2008. The focus of this has been education through e-learning in technical education in particular and all sections of higher education in general. This Symposium for higher education showcased technologies for e-Learning and how institutions can benefit by adopting e-learning for teaching and learning of students with different abilities. The Symposium brought together 207 senior professionals from educational institutions and industry, for sharing their experiences, best practices and insights in using e-learning. The themes for the sessions conducted were E-Learning in Technical Education, E-learning Products for Higher Education, Technology in Learning – Virtual Session Rapid content creation – a demo, Adobe in e-Learning The participants had discussion time immediately after each of the sessions and expressed their desire to undertake e-learning initiatives possible at their level.

National Symposium– Media Release

As a follow up of this, it is proposed to conduct a series of workshops on specific themes for the faculty members and will also encourage teachers to contribute in e-content development

For more information, Contact
Dr. P. SivaKumar, Professor, Multimedia Centre, NITTTR

Long term programmes

Ph. D Programme in Engineering Education

- At present 38 Scholars (4– Full time and 34 Part time) are perusing their research under the Ph. D programme (Inter-disciplinary) which is affiliated to University of Madras.
- 113 candidates applied for this fellowship and 53 were called for selection after scrutiny. The selection process has been completed

M. Tech (HRD)

- M. Tech (HRD) - Batch V (2008) commenced in August 2008 with 11 participants (Sponsored—8 and Regular –3). The first semester examination is just being conducted.
- For 2009 –10 the admission process for M.Tech (HRD) and M.E. (Education) Programmes approved by University of Madras is to commence.

Training Programmes for Industries

A two weeks training programme on "GEOGRAPHICAL INFORMATION SYSTEMS AND MAPPING TOOLS" for 20 Scientists of CGWB was conducted from 24.11.2008 to 05.12.2008 by the Department of Civil Engineering at NITTTR, Chennai, The course was successfully completed with the following identified areas.

GIS Overview – R2V Conversion – Building GIS database – Map Projections – Implementation of GIS – Decision making and reporting using GIS packages like AutoCAD Map, MapInfo, ArcGIS and Spatial Analyst – Mobile Mapping – Hands on practice.

According to the participants' feedback, the course was extremely useful in upgrading their knowledge and skills. The scientists felt that the inputs would help them to carry out their research works more effectively.

For more information contact :
Prof P. Dayanidhi, Dept. of Civil Engineering, NITTTR, Chennai

Participants of "GIS and Mapping tools" from CGWB

Short term Programmes

Programmes for Polytechnic / Engineering Teachers

The Institute conducted 128 short courses and workshops during the period from 01.02.2008 to 31.12.2008. These courses (95 out of 128) were in the areas of Civil Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Computer Science and Mulitmedia Development. This includes 19 courses in Educational Management, and 15 courses in Pedagogy areas. A total of 2,456 teachers have been trained during the above period.

Programmes for Faculty of Engineering College

The Institute conducted short courses during the period from 01.03.2008 to 31.12.2008 on 'Instructional Design and Delivery Systems, 'Curriculum Development', 'Communication Skills', 'Teaching Methodology' and 'Strategic Planning' at Engineering Colleges in the Southern Region of the country. A total of 1,346 teachers have been during the above period.

IDDS Course at RV College of Engg., Bangalore on 19.01.2009

Overseas Teachers Course

Advanced Certificate Course on "INFORMATION TECHNOLOGY AND COMMUNICATION IN EDUCATION AND TRAINING"

Advanced Certificate Course on "Information Technology and Communication in Education and Training " was designed and organized by Computer Centre for Overseas IT Professionals. The programme was started on the 12th of Julyr 2008 and it ended on 21st September 2008. 11 Participants from 9 different countries participated in this course. Technical visits to various leading IT industries and leading Institutes in the Southern Region formed part of this course which was coordinated by Dr. T. G. Sampanthan.

Certificate Course on "MOERN LIBRARY PRACTICES"

Providing quality based library and information services to the users in libraries is essential the activity for all Libraries. The electronic media such as CD-ROM, multimedia, digital resources on the internet and images are becoming key units to library resources in Today's Information World. The Library Professionals must know the digital management to provide a quality services to the users.

With this in view, the Certificate Course on "MOERN LIBRARY PRACTICES" was designed and organized for Overseas Library Professionals. The programme was started on the 20th of October 2008 and it ended on 12th December 2008. 27 Participants from 17 different countries participated in this course. Technical visits to various leading libraries in the Southern Region were arranged as part of the course coordinated by Dr. R. Ravichandiran

These programmes were sponsored by Ministry of External Affairs, Government of India under Indian Technical Economic Cooperation (ITEC) Scheme.

Certificate course on
"Modern Library Practices" (2" Batch) for Overseas Library Professionals
From 20-10-2008 To 12-12-2008

On Going OTC Programmes

- ADVANCED CERTIFICATE IN HUMAN RESOURCE DEVELOPMENT
- ADVANCED CERTIFICATE COURSE ON CURRICULUM DESIGN AND INSTRUCTIONAL MATERIALS DEVELOPMENT
- CERTIFICATE COURSE ON "WOMEN EMPOWERMENT THROUGH TECHNICAL AND VOCATIONAL EDUCATION"

These 3 programmes (duration- 8 weeks) commenced on 19th January 2009

Curriculum Workshop

Workshop on " **Curriculum Development for Lakshadweep**" was conducted at Extension Centre Kalamassery from 5.5.2008 to 10.5.2008 Er. Philip Kurian, Asst. Professor & Head-in-charge, NITTTR, ECK coordinated the workshop. The Education Officer and an Instructor from Directorate of Education, Lakshadweep, 2 Resource persons from NITTTR, Chennai, 2 Professionals from Industries, 20 senior professionals from polytechnic colleges participated in the workshop.

The preparation of the draft curricula on **Marine Engineering** and **Tourism and Hotel Management** was successfully completed during the workshop. Later these curricula were edited at NITTTR and forwarded to DE, Lakshadweep for implementing the same.

Extension Centre at Trichy, Tamil Nadu Has started functioning from 2009 onwards

AICTE Sponsored Summer Schools

The following courses were conducted by NITTTR Chennai

1. "Development of Teaching Methodologies and Pedagogy including Web Education", from 09.06.2008 to 22.06.2008 at Namakkal, Tamil Nadu. 59 participants attended the course.
2. "E-content Development and Delivery" from 30.06.2008 to 05.07.2008 at Karur, Tamil Nadu. 61 participants attended the course.
3. "Modern Surveying (Total Station & GPS)" from 14.07.2008 to 19.07.2008 at NITTTR, Chennai 27 participants attended the course.
4. "Student Counseling and Career Guidance" from 14.07.2008 to 19.07.2008 at Arakunnam, Kerala 62 participants attended the course.
5. "Disaster Management and Earthquake Resistant Structures" from 21.07.2008 to 26.07.2008 at NITTTR, Chennai. 29 participants attended the course.

Course on "Disaster Management and earthquake Resistant Structures"

6. "Instructional Design and Delivery System" from 21.07.2008 to 26.07.2008 at Pollachi, Tamil Nadu. 61 participants attended the course.
7. " PIC 16F877A Micro Controller and applications" from 28.07.2008 to 02.08.2008 at NITTTR, Chennai 48 participants attended the course.
8. "Biomedical Electronics" from 04.08.2008 to 09.08.2008 at NITTTR, Chennai. 54 participants attended the course.
9. "Modern Construction materials and Techniques" from 11.08.2008 to 16.08.2008 at NITTTR, Chennai. 23 participants attended the course.

Faculty News

- Mr. S. Somasundaram, Lecturer in Mechanical Engineering was awarded Ph.D Degree in Mechanical Engineering by Anna University, Chennai on 8th May 2008 for his thesis titled "Experimental evaluation of Super-Abrasive grinding on the surface integrity of alumina ceramics".

- P. Malliga, Sr. System Analyst and Dr. T.G. Samabanthan, Head Computer Centre published a paper on "Prospects of Electronic Collaboration Learning in Technical Education" in the National Conference on Intelligent E-Learning Sys tems , Vel Tech Engineering College, Avadi, Chennai 25th-26th, July 2008.

- Dr .E.S.M. Suresh Asst. Professor has published a technical Paper on 'GIS Modelling of Land Suitability for Solid waste Disposal, International Journal of Geoinformatics, Vol4, No.3, September 2008.

- Dr. E.S.M. Suresh Asst. Professor has contributed a chapter on 'Optimal Routing Plan for Solid waste Collection – A Case Study of Chennai City', text book on Application of Geomatics in Urban Transportation Planning and Management, first edition October 2008, Charulatha Publications Chennai.

- P. Malliga, Sr. System Analyst and Dr. T.G. Samabanthan, Head Computer Centre published a paper on "Sensitive Issues in Using Media Elements for E-learning Content Development" in the National Conference on Information & Computer Applications, August 14th 2008 at Sengunthar Engineering College, Tiruchengode, Namakkal, Pg 14-19.

- Dr. V. Thanikachalam has been facilitated for Professional Accomplishments on 12 December 2008 by "Guinness 68" (Porfessional Association of Engineers, Professors in Engineers and Multinational Corporate Executives) at Anna University, Chennai.

- Mrs. A. Kangaiammal Research Scholar, and Dr. T.G. Samabanthan, Head Computer Centre, presented a paper on "'Operating Systems' In The First Principles Of Instruction", in 'National Conference on Information & Computer Applications', Sengunthar Engineering College, Tiruchengode, T.N, India, 14th Aug. 2008.

- Mrs. A. Kangaiammal Research Scholar, and Dr. T.G. Samabanthan, Head Computer Centre, presented a paper on "Design on 'O.S' Syllabus based on 'The First Principles of Instruction'", National Conference on Frontiers in Computing, KSR College of Technology, Tiruchengode, Tamil Nadu, India, 23.09.2008.

- Mrs. A. Kangaiammal Research Scholar, and Dr. T.G. Samabanthan, Head Computer Centre, presented a paper on "Perception of MCA Teachers and Students in the Teaching-Learning Process", International Conference on Global Challenges in Engineering Education and Research, PSG College of Technology, Coimbatore, 5th December 2008.

- Dr. P. Arun Kumar, Professor and Head, Extension Centre Bangalore presented a paper titled " In Service Teacher Educations using Constructivist's Methodology and use of ICT in Technical Teacher Training " at at the International Conference RIE, Mysore, 24-25, October 2008.

- Mrs. Reeni Samuel, Former Senior Lecturer, CEEM, obtained Ph.D. in engineering Education on 20th January 2009 from the University of Madras.

Course Participants of Modern surveying

OTC Participants of Modern Library Practices

NITTTR CHENNAI

National Institute of Technical Teachers Training & Research - Chennai

Promoting Excellence in Technical Education

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The National Institute of Technical Teachers Training and Research (NITTTR) Chennai was established as an autonomous organisation by the Ministry of Human Resource Development, Government of India in the mid 1960s to improve the quality of technical education in the Southern region.

NITTTR Chennai is conducting a variety of training programmes for teachers and other staff of Engineering Colleges, Polytechnics and overseas teachers to enable them to acquire competencies relevant to their respective areas of work.

Forthcoming Events

National Seminar
on
Graphical System Design
using LabVIEW
06th February 2009

For further details, please contact:
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International Seminar

On

"Globalization of Indian Engineering Education"

9th March 2009

Key Note Address: Dr. Dale Harris

Director of Engineering Education,

Purdue University

For further details, please contact:

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