Two Day International Workshop On

"Composites Design & Analysis Using FEM" Under TEQIP II

21st – 22nd December, 2012



Report by Convener

A Two day International workshop on "Composites Design & Analysis Using FEM" was conducted by the department of Mechanical Engineering, MITS, and Madanapalle on 21st& 22nd December 2012. The workshop was scheduled for two days i.e. 21st & 22nd December 2012. The Objective of the workshop was to train the Faculty members, Engineers, Research scholars & PG Students with the most updated information on Design & Manufacturing of Composites its need, applications and opportunities through lectures by well-known and eminent speaker Dr. Vinay Dayal, who is specialized in the area of Composite materials. The resource person is Dr. Vinay Dayal, Associate Professor, Aerospace Engineering Department, IOWA State University, United States graduated from Indian Institute of Technology, Kanpur in 1972, and completed his M.S from University of Missouri-Rolla, MO, USA in 1983, and completed his Ph.D from Texas A&M University, College Station, TX, USA in 1987. Prof. B. Uma Maheswar Gowd, Director, Admissions, JNT University, Anantapur attended as a Chief Guest and he had delivered a key note address on the importance of Composite materials in daily life and explained the applications of composite materials and mentioned that composites area can be chosen as one of the topic for doing their research work. Nearly 80 Participants attended the Workshop. Out of them 58 are Outside participants came from the various states of the country. The topics that were covered on the first day (i.e. on 21^{st} December 2012) are Introduction to Composites, Fibres and Matrices of Various kinds, Manufacturing of Composites, Introduction to Micro-Mechanics, Introduction to Macro-Mechanics, Carpet plot and their usage, designing with Composites, Analysis using FEM. After completion of the technical session on First day i.e. at 4.30 p.m. on 21st December 2012, the participants were taken to Horsely Hills. And the second day (i.e. on 22nd December 2012) covered the topics like Testing of Composites, Joining of Composites, Strength of Composites, Non-Destructive testing of Composites, Short fibre Composites and Repair of Composites. At the end of concluding session, Participants have given the Certificate of participation and Group photo to each participant and all the participants have given the feedback on the Workshop. All the participants have immensely benefited out of the talks delivered by the eminent speaker. The same was reflected in the high rated feedback given by the participants at the end of the workshop.

RESOURCE PERSON



Dr. Vinay Dayal, IOWA State University, United States

Dr. Vinay Dayal, Associate Professor, Aerospace Engineering Department, IOWA State University, United States .Graduated from Indian Institute of Technology, Kanpur in 1972. Completed his M.S from University of Missouri-Rolla, MO, USA in 1983. Completed his Ph.D from Texas A&M University, College Station, TX, USA in 1987. He is a well-known and eminent speaker and specialized in the area of Composite materials, Ultrasonic Non destructive Evaluation, Experimental Stress Analysis, Wave Propagation in Anisotropic Media and Integrated Engineering Design. He even developed computer codes for Calculation of laminate properties, Calculation of deformation and twist under load, mechanical or thermal and Failure analysis to determine the sequence of ply failures.

CHIEF GUEST



Dr. B. Uma Maheswar Gowd, Director of Admissions, JNTUA, Anantapur

Dr. B.Uma Maheswar Gowd was born in Dec, 1955 at Anantapur in a middle class Indian Hindu family. He had his schooling at Anantapur. He secured I Class B.Tech degree in Mechanical Engineering in 1977 and I class with distinction M.Tech degree in Refrigeration and Air conditioning in Jan, 1980, from JNT University studying at JNTU College of Engg., Anantapur. He pursued his research at University of Roorkee (Now IIT Roorkee) on Boiling Heat Transfer and got his Ph.D. degree in 1994. Dr.Gowd started his career as Lecturer in Mechanical Engineering at BMS College of Engg., Bangalore and later joined at JNTU Hyderabad in 1981 in the same capacity. He got selected as Associate Professor in Mar, 1990 and as Professor in Oct, 1999. In his long span of 32 years of service, he was assigned many University and college additional duties such as Deputy Warden of hostels, Students' Union Coordinator, S.C., S.T. and B.C. Student Advisor, College Academic Council member which he successfully performed. Dr.Gowd had been active participant in all college and University activities and was assigned many confidential works to name a few EAMCET, ECET. Affiliation. Committee Convener, Regional Task Force committee, B.O.S Chairman and member, Staff Selection Committees of different Universities, AICTE Committees, APPSC and UPSC Paper setters. He was Head of the department of Mechanical Engineering for two terms at Anantapur and Kakinada colleges and set up Foundry Sands Testing lab at Anantapur and CAD/CAM lab at Kakinada. With the formation of New JNTU Anantapur, He was the first Director of Academic and Planning, then Director of Foreign Affairs, the Rector and Dr.Gowd Presently Director of Admissions the University. He Guided more than 62 M.Tech student project thesis and 12 students are pursuing their research leading to Ph.D. He organized 10 Refresher courses/workshops for the Engineering teachers and conducted National seminars for students and teachers. Published 25 Technical Papers and is referee of One National Journal. He is the life member in ISTE and Fellow of Institution of Engineers (India). He was elected to the National and State executive councils of ISTE for one term. Dr. B.U.M.Gowd got his M.Tech degree in Refrigeration and Air conditioning from JNT University and Ph.D from University of Roorkee (Now IIT Roorkee). He started his career as Lecturer in Mechanical Engineering at BMS College of Engg., Bangalore and later joined at JNTU Hyderabad in 1981 in the same capacity and rose to Professor in Oct, 1999. In his long span of 31 years of service had been active participant in all college and University activities and was assigned many confidential works to name a few EAMCET, ECET, Affiliation

Committee Convener, Spl. Task force, B.O.S Chairman and member Staff Selection Committees of different Universities, AICTE Committees, APPSC and UPSC Paper setters. He was Head of the department of Mechanical Engineering for two terms and set up Foundry Sands Testing lab at Anantapur and CAD/CAM lab at Kakinada. With the formation of New JNTU Anantapur, He was the first Director of Academic and Planning, then Director of Foreign Affairs, the Rector and Dr.Gowd Presently is Director of Admissions the University. He Guided more than 58 M.Tech student project thesis and 12 students are pursuing their research leading to Ph.D. He organized 10 Refresher courses/workshops for the Engineering teachers and conducted National seminars for students and teachers. Published 25 Technical Papers and is referee of One National Journal. He is the life member in ISTE and Fellow of Institution of Engineers (India). He was elected to the National and State executive councils of ISTE for one term.

Press Release

EENADU 23-12-12



కురబలకోట, న్యూస్ట్రీటుడే ఆడుగిక విధానాలకు అనుగుణ మాచించారు. (పాచీన కాలంలో చెర్చింగ్ మెన పరిశోధనలు ఎంతో అవసరమని జీఎన్టీయూ పరిపా లక విధాగం సంచాలదలు దాళర్ ఉమామహేశ్వరగౌడ్ వెల్ల మిశమ లోహాలతో డించారు. అంగళు సమీపంలోని మిట్స్ ఇంజినీరింగ్ రూశా నుట్టు సంపం చేశారు. సాంకేతిక లలో శుభవారం అంతరాతీయ సదస్సు నిర్వహించారు. మెదా తున్న కొడీ మరింత నాజుత, మన్నిర కరిగిన నిరల్ విధాగానికి సంబంధించిన 'కాంపోజిట్) డిజెన్ అండ్ యంతాల తయాగ అనాలసిస్ యూజింగ్ ఎఫ్ఈప్ ఆనే అంశంపై జరిగిన ఈ సదస్పుకు డాక్టర్ ఉమామహేశ్వర్/గౌడ్ ముఖ్య ఆరిధిగా వివేృ శారు. ఈ సంచర్భంగా జరిగిన కార్యక్రమంలో ఆయన మాట్రా డుతూ తయారైన పస్తువులు త్వరగా పాడైపోచుండా ఎదు.వ ాలం మనిరగా ఉండేందుకు అవసరమైన విధానాలను అయం అవార్యులు వినయ్దర్ధుళ్, మిట్స్ రరస్పాండెంట్ దార్లర్ పరినాథ్గౌడ్ తదితరులు పాల్చొన్నకు

పస్తువులు వినియోగిస్తుండగా అనంతరం పే 20 1000 th 100 10 మనదేశంల 238360 6556 పరిజానంలో బడి ఉనటు వెల ఇలాంటి వాటిని ఆధిగమించేందుడు రాషి చేయాలనాడ రార్యకమంలో ఆమెరికాకు రెందిన ఇటడట్రువీ విశంవిద్యా



సమావేశంలో ప్రసంగీసుకు జీఎన్టీయూ పరిపాలక విభాగం సంచాలకులు దాళ్లర్ ఉమామహేశ్వర్గగొద్

ఎస్.విజయుహన్కర చౌదరి, (పిగ్రిపల్ డాక్తి విజాగాదిపతి దారర్ యువరాజ్, దారర్

SAKSHI 23-12-12

మిశ్రమ పలికరాలతో నష్తాలు రావు

కురటలకోట, న్యూస్లైన్: మిశ్రమ పరికరాలు చాడటం వల్ల నష్ఠాలకు ఆస్కారం ఉండదని అనంతపురం జేఎన్ టీయూ పరిపాలక విభాగం సంచాలకుడు డాక్టర్ ఉమామ హేశ్వర్ గౌడ్ అన్నారు. మదనపల్లె సమీపంలోని అంగళ్లు మిట్స్ ఇంజినీరింగ్ కళాశాలలో శుక్రవారం నుంచి రెండు రోజుల పాటు జరిగే 'కాంపోజిట్స్ డిజైన్ అండ్ అనాలసిస్ యూజింగ్ ఎఫ్ఈఎ' అనే అంశంపై అంతర్జాతీయ సదస్సు ప్రారంభమైంది. ఈ సందర్భంగా ఆయన మాట్లా డుతూ పెద్దల కాలంలో చెక్కతో పరికరాలు చేసేవారని, ఆ తర్వాత ఇనుము, దాని తర్వాత ప్లాస్టిక్ వాడుకలోకి వచ్చిం దన్నారు. ఇప్పుడు మిశ్రమ పథార్థాలతో తయారు చేసిన వాటిని ఎక్కువగా వాడుతున్నామన్నారు. ఇదివరలో వా డుతున్న చెక్క అయితే చాన్నాళ్లు మన్నిక రాకపోవడం, ఇనుము తుప్పు పట్టడం, ప్లాస్టిక్ వేడికి కరిగిపోవడం లాంటివి జరిగేవని చెప్పారు. దీనివల్ల సష్టాలు వచ్చేవ న్నారు. మిశ్రమ పదార్థాలతో చేసినవి ఎక్కువ కాలం మన్నికగా ఉంటున్నాయని, వీటి తయారీ ఖర్చు కూడా



సదస్తులో బుక్ లెట్ ను ఆవిష్కలిస్తున్న ప్రాఫెసర్లు

తక్కువేనని చెప్పారు. దీనివల్ల నష్మాలకు ఆస్కారం లేకుం డా పోయిందన్నారు. ముఖ్యంగా విమానాలు తయారీ, సముద్రాల్లో వైరింగ్ లాగే వైర్లలో, ఆటోమొబైల్స్, ఎలక్ట్రి కల్ పరికరాల తయారీలో వాడటం ఎక్కువగా జరుగు తోందన్నారు. భవిష్యత్తులో వీటికన్నా మెరుగైనవి రాగలవ న్నారు. ఈ సదస్సులో కరస్పాండెంట్ ఎన్ విజయభాస్కర్ చౌదరి, రీసోర్స్ పర్సన్ డాక్టర్ వినయ్దయూల్, ట్రిన్సిపాల్ కె శ్రీనివాసరెడ్డి, విభాగాధిపతి యువరాజ్, వి రామచంద్ర ట్రసాద్, ట్రోగ్రామ్ కన్వీనర్ హరినాథ్గౌడ్ తదితరులు పాల్గొన్నారు.



Resource person Vinay Dayal of IOWA state university speaking at the international workshop held at MITS in Madanapalle on Friday. | Express Photo

International Workshop at MITS

Express News Service

Madaria palle: The mechanical engineering department of the Madanapalle Institute of Technology and Sciences conducted an international workshop "Composite design and analysis using FEM" on the campus on Friday.

Delegates from different colleges across the globe attended the workshop which was chaired by Dr. Uma Mahachwar Goud, Director of Admissions, JNTU-A.

Speaking on the occasion he lauded the college management for taking such a initiative that would help students to catch up with modern technological advancements.

Resource person Dr. Vinay Dayal, IOWA state university, USA, spoke about the various incentives that are available and the support the management has been extending.

Principal Dr K. Sreenivasa Reddy, head of the mechanical engineering department Dr C. Yuvaraj and TEQIP officer Dr K Ramachandra Prasad and programe convener Dr Harinath Goud also participated.