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Sri N. Vinaya Hegde
Chancellor, Nitte (Deemed to be University) & President, Nitte Education Trust

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Principal

Convener:

Dr. Shashikantha Karinka
Professor & Head, (IWS – NGC Member)

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Dr. Shrinivasa Rao B.R., Vice Principal & Controller of Examinations
Sri Yogeesh Hegde, Registrar, NET Campus, Nitte
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Dr. A. N. Parameswaran, Director – IIC
Dr. Srinivasa Pai P., Professor & Deputy Controller of Examinations
Dr. Muralidhara, Professor and PG Coordinator
Dr. Narasimha Marakala, Professor and Workshop Superintendent

Industry Experts / Resource Persons:

- Sri Gopinath S, Advisor NMAMIT & Adjunct Professor (Former ED, BHEL Trichy)
- Dr. G. Ravichandran, Adjunct Professor (Former GM, WRI-BHEL Trichy)
- Experts from Fronius India Private Limited, Pune
- Experts from Indian Welding Society (IWS), Trichy

Coordinators:

Dr. Vijeesh V, Asst. Professor
Mr. Abhay Pai, Fronius India Pvt. Ltd.
Mr. Santhosh Acharya, Research Scholar

Contact Persons:

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**NMAMIT-FRONIUS Centre for Welding Technology**

in association with

Ms. Fronius India Pvt. Ltd

is organizing

Two days Hands-on Training Program on

ADVANCED TIG AND MIG WELDING PROCESS - EMPHASIS ON RESEARCH POSSIBILITIES

APRIL 8th and 9th, 2019

(Under the auspices of IWS)



Organized by

DEPARTMENT OF MECHANICAL ENGINEERING

Preamble

Manufacturing is one of the key sectors of any country's Gross domestic product (GDP) and welding is one of the prime manufacturing processes of the manufacturing sector. Compared to mechanical joining methods, welding offers some significant advantages such as flexibility of design, improved structural integrity, weight and cost savings. Industries like automotive, ship manufacturing, aviation, chemical and nuclear energy use welding very extensively. Different industries use variety of welding processes based on modern day requirements. The welding can be performed in manual, semiautomatic and automatic modes. The defects in welding such as slag inclusions, undercutting, porosity, toe cracks, incomplete fusion, residual stresses and distortions have created some serious issues in the reliability of welded structures. In this context, there is a need to understand the issues in welding processes of the manufacturing sector and to be aware about the recent developments and find meaningful solutions to these problems. Hence under the auspices of NMAMIT-Fronius Centre for Welding Technology it is planned to arrange the training for the practitioners, faculty members, researchers and the students.

About the Institute

N.M.A.M. Institute of Technology was established in 1986. The college is affiliated to Visvesvaraya Technological University, Belagavi and is recognized by the All India Council for Technical Education (AICTE), New Delhi. Institute is accredited by National Assessment & Accreditation Council (NAAC) and all the programs are accredited by National Board for Accreditation (NBA). Institute is placed in "A" grade by NAAC. Institute is certified by ISO 9001-2015 standards for quality education by NVT Quality Certifications (ANAB accredited). The institution has been granted Academic Autonomy under the Visvesvaraya Technological University from 2007-08.

The Institute offers graduate programs in 7 branches of Engineering - Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Information Science and Engineering, Mechanical Engineering and Biotechnology. The college also offers postgraduate programs like Master of Technology, Master of Computer Applications and Master of Business Administration. All departments have been recognized as research centres for offering M.Sc. (Engg.) & Ph.D. programmes under VTU, Belagavi.

The Institute is located on Padubidri-Karkala State Highway which is well connected with Mangaluru (60 KM) and Udupi/Manipal (45 KM) through NH 66 & NH 169. The participants can alight at Mangaluru or Udupi Railway Stations/Bus Terminals or Mangaluru Airport to reach the Institute.

About the Department

The Department of Mechanical Engineering was started in 1986 with an intake of 40 students. Today the department has an intake of 180 students with faculty strength of 52. The Department offers the undergraduate programme of B.E in Mechanical Engineering and 2 PG programmes - M. Tech in Energy Systems Engineering and Machine Design with an intake of 18 students each. The Department is also a recognized research centre under VTU Belagavi, with 9 guides and more than 32 Ph.D scholars both internal and external including 4 full-time Researchers. The department has excellent infrastructural facilities in terms of classrooms and laboratories. The faculty members are engaged in research activities with sponsored research projects worth more than Rs. 90 lakhs already executed. Karnataka

Council for Technological Upgradation and NMAM Institute of technology, Nitte have a joint project of Rs. 77.28 lakhs sanctioned for Center for Tool based Micromachining Research. At present, various funded projects are ongoing with a total of Rs. 117.45 lakhs. The department has excellent research outputs in terms of publications in refereed International Journals and National and International Conferences, with a total number of 109 publications in the last 3 years. The faculty members in the department have been continuously updating their technical expertise and knowledge by attending/organizing seminars, conferences and workshops. Many faculty members have won several awards and sponsorships for attending and conducting seminars and conferences.

About Fronius

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 4,550 employees worldwide and 1,241 patents for product development show the innovative spirit within the company. Perfect Welding: Since 1950, Fronius have been developing innovative welding technologies and bringing these leaps forward in development to application maturity. These include complete system for arc and resistance spot welding, together with a complementary range of services. Fronius is world leader in welding technology and market leader in Europe.

Participants

The workshop would be very useful for faculty members and researchers from engineering colleges and polytechnic institutions, industry professionals.

Topics to be covered:

The topics encompass the emerging trends in GMAW and GTAW welding:

- Introduction to welding emphasizing the future opportunities in training and research
- Importance of virtual welding in training and its opportunities- MMAW, GMAW, GTAW
- Advanced features in Fronius machines and research opportunities in Magic wave AC/DC TIG, TPSi-MIG/MAG
- Case studies of using AC TIG, Pulse TIG, Pulse MIG, CMT, CMT Twin / time twin, Industry 4.0

Registration Fee:

- Academia/Industry Delegates: Rs. 1000/-

Important dates:

Last Date of Receipt of Application : April 6, 2019

Payment Details:

- Payment can be done through Online NEFT/Demand Draft.
- Demand Draft in favour of "The Principal, NMAMIT, Nitte" payable at Syndicate Bank Nitte, Karkala, to be sent to the Coordinator before due date.
- NEFT in favour of "The Principal, NMAMIT, Nitte". **A/C No.: 01152200033493** (Savings Bank). **IFSC: SYNB0000115**, Syndicate Bank, Nitte
- The proof of NEFT payment (with UTR No., date & time,) needs to be communicated through email to Dr. Vijeesh V (vijeeshv@nitte.edu.in).

Two days Hands-on Training Program on
**Advanced TIG and MIG Welding Process-Emphasis
on Research Possibilities**

APRIL 8th and 9th, 2019
(Under the auspices of IWS)

Registration Form

Name :
Affiliation :
Department :
Mobile No. :
Email :

REGISTRATION FEE DETAILS:

Name of the Bank:
Amount: Rs.....DD No. /Trans Ref No:

Place :
Date : Signature of the Applicant

Endorsement by the Head of the Institution

Please return this to:
Dr. Vijeesh V
Coordinator
Two days Hands-on Training Program on
Advanced TIG and MIG Welding Process-Emphasis on Research Possibilities
N.M.A.M. Institute of Technology, Nitte – 574110
Udupi District, Karnataka
Email: vijeeshv@nitte.edu.in
Mobile: +91-9035107075

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BOOK-POST

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NITTE | **N.M.A.M. INSTITUTE OF TECHNOLOGY**
EDUCATION TRUST | (An Autonomous Institution affiliated to VTU, Belagavi)
Nitte - 574110, Karnataka, India