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SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

KOTTAYAM, KERALA

DEPARTMENT OF MECHANICAL ENGINEERING



AICTE sponsored online Short Term Training Program (STTP) series on

Recent Advances in Tribology and Surface Engineering

Series 3 of 4 – “Introduction to Special Topics like Nanotribology, Biotribology, Space Tribology”



Date: 12 - 17 October, 2020

Registration Link : <http://fdp.saintgits.org/nanotribology/>

No Registration Fee | E-Certificates will be provided

Last Date for Registration: 09 October, 2020

Contact:

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About the organizers

Tribology is a branch of Mechanical Engineering and materials science which deals with science and technology of interacting surfaces in relative motion and of related subjects and practices. SAINTGITS College of Engineering, Pathamuttom in its desire to impart knowledge and education organize this invaluable initiative of Short Term Training Programme (STTP) Series sponsored by All India Council for Technical Education (AICTE), New Delhi under AQIS scheme on “Recent Advances in Tribology and Surface Engineering”. The aim of this workshop is to provide a platform to academicians, practicing engineers and R & D professionals for sharing their knowledge and experiences in this field.

Saintgits College of Engineering, Kottayam

Right from inception, has been maintaining high levels of standards in academic and extra-curricular realms of activities. The college offers B-Tech Degree course in 9 engineering disciplines, and Master’s Degree courses in Engineering, Computer Applications and Business Administration. In the short span of 18 years of its existence, the college has bagged several university ranks and has a remarkably high percentage of pass. The college is also the venue of several national and state level seminars, conferences and symposia and has emerged as the hub of technical education in the state of Kerala. The college is located at Pathamuttom, Kottayam, Kerala. The college is affiliated to APJ Abdul Kalam Technological University, Trivandrum and the UGC has conferred **AUTONOMOUS** status recently. Further, the institution is accredited by the National Board of Accreditation (NBA) for 7 programs.

Department of Mechanical Engineering

The Department currently offers UG programme in Mechanical Engineering and PG programme in Machine Design. The Department has experienced faculty and well established laboratories and liaison with reputed industries and R & D organizations. The association with California Institute of Technology (Caltech), Pasadena, USA, proves the mettle of the Mechanical Engineering Department. Moreover, the UG program run by the Department is certified with NBA Accreditation till 2022, which stands as one of the honours of the Department for providing quality based education.

Objectives

Importance of tribology for sustainable reliability cannot be over emphasized. It is reported that loss due to improper understanding and application of tribology is over 1.5% of GDP of the developed countries like USA. We can well imagine the state of affairs in our country, where, awareness about importance, understanding and application of tribology is rather low. Tribological failures are responsible for over 40% of breakdowns in industries. Therefore, engineers working in the field need to have a thorough understanding of tribological practices, so that proactive measures can be implemented in place of traditional corrective and breakdown maintenance practices.

It is with this background that the Department of Mechanical Engineering, SAINTGITS College of Engineering, Kottayam is organizing the STTP series on “RECENT ADVANCES IN TRIBOLOGY AND SURFACE ENGINEERING” during August, September, October and November, 2020 at our prestigious institution to reinforce the need for continued education in Tribology - an interdisciplinary science and technology of friction, wear and lubrication.

The program is intended to provide a National platform for interaction between renowned Tribologists of the country and the participants, comprising of teaching professionals, research and PG scholars and practicing engineers from Indian industry. Also this program intends to identify the areas where current research is being focused and to promote its viability.

Series	STTP Title	Date
1	Introduction to Tribology and Surface Engineering	17-08-20 to 22-08-20 (Completed)
2	Tribology of Machine Components and Applied Tribology	14-09-20 to 19-09-20 (Completed)
3	Introduction to special topics like Nanotribology, Biotribology, Space tribology	12-10-20 to 17-10-20 (Scheduled)
4	Surface characterization and treatments in Tribology	23-11-20 to 28-11-20

Eligibility

This workshop is open to faculty members of AICTE approved Engineering colleges, Research Scholars working in various fields of Mechanical Engineering, persons from Industry, R & D organizations and PG scholars who have a genuine interest in the field of tribology.

Core Course Contents

Basics of Tribology: Basics of Friction, Wear and Lubrication; Wear of Materials and Wear Modeling; Surface Characterization in Tribology; Surface Modification for Improved Tribological Characteristics.

Lubrication: Basics of Fluid Film Lubrication & Hydrodynamic Bearings; Lubricants - Chemistry of Base Oils, Additives and Formulated Lubricants; Tribology and Rheology of Lubricating Greases.

Tribology of Machine Components: Rolling Element Bearings; Gear Engineering and Lubrication Tribology of Machine Elements.

Applied Tribology: Tribo-testing and Performance Evaluation of Lubricants and Materials; Automotive Tribology.

Special Topics in Tribology: Nano-Tribology; Bio-Tribology; Space Tribology and Tribology of Extreme Environments.

CHIEF PATRONS

Shri. Thomas T John, Director, Saintgits Group of Institutions
Er. Punnoose George, Executive Chairman & Secretary, Saintgits Group of Institutions

ORGANIZING COMMITTEE

Prof. (Dr.) Josephkunju Paul C, Principal, Saintgits College of Engineering
Prof. (Dr.) M D Mathew, Dean – Research, Saintgits College of Engineering

ADVISORY COMMITTEE

Col. B Venkat, Director (Faculty Development Cell), AICTE, New Delhi
Prof. (Dr.) Muruganatham Ponnusamy, Registrar, Saintgits Group of Institutions

ORGANIZING SECRETARY

Prof. (Dr.) Jacob T Varghese, Professor & Head of Department – Mechanical Engineering

STTP COORDINATORS

Prof. (Dr.) Jason Cherian Issac & Dr. Chacko Preno Koshy, Department of Mechanical Engineering

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SOME EMINENT SPEAKERS



Prof. Nicholas D Spencer
ETH Zurich Switzerland



Prof. Suman Chakraborty
IIT Kharagpur



Prof. M S Bobji
IISc Bangalore



Dr. John Philip
IGCAR Kalpakkam



Prof. A P Harsha
IIT Varanasi



Prof. Mayank Tiwari
IIT Patna



Dr. Nitya N Gosvami
IIT Delhi



Dr. U B Jayadeep
NIT Calicut



Dr. P S Suvin
NIT Surathkal



Dr. O P Khatri
IIP Dehradun



Dr. Shaju K Albert
IGCAR Kalpakkam



Dr. Siddappa I Bekinal
MIT Manipal



Prof. Satish V Kailas
IISc Bangalore



Prof. Jason C Issac
Saintgits Kottayam

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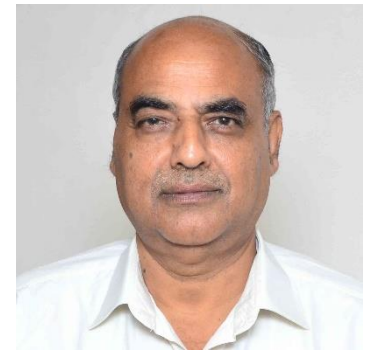
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SOME EMINENT SPEAKERS



Prof. Satish C Sharma
IIT Roorkee



Prof. M Ravi Sankar
IIT Tirupati



Dr. P Ramkumar
IIT Madras



Prof. Prasanta Sahoo
Jadavpur University Kolkata



Prof. K P Nair
SCT Trivandrum



Prof. P K Rajendrakumar
NIT Calicut



Dr. Jitendra K Katiyar
SRM Chennai



Prof. M Uthayakumar
Kalasalingam Tamil Nadu



Prof. Anirudhan P
GEC Calicut



Dr. Sajeeb A M
GEC Kozhikode



Dr. Rani S
CET Trivandrum



Prof. TVV L N Rao
SRM Chennai



Dr. Manu VT
GEC Calicut



Prof. M D Mathew
Saintgits Kottayam

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SOME EMINENT SPEAKERS



Prof. Jayashree Bijwe
IIT Delhi



Dr. Shubrajit Bhaumik
SRM Chennai



Dr. Sabarinath S
TKM Kollam



Dr. Akhil S. Karun
CSIR-NIIST TVM



Dr. Amith Aravind
Saintgits Kottayam



Er. Jibin T Philip
NIT Mizoram



Prof. Muruganantham P
Saintgits Kottayam



Dr. Tijo D
Saintgits Kottayam



Dr. Chacko Preno Koshy
Saintgits Kottayam

More speakers will be added.....