

ABOUT Dr.N.G.P. INSTITUTE OF TECHNOLOGY

Dr.Nalla.G.Palanisawmi, A name that is taken with great reverence by the medical fraternity and common public alike, for his pioneering efforts in providing quality healthcare. Since its inception in 1989, the Kovai Medical Center and Hospital (KMCH) as we know it, has been redefining the corporate hospital set up, making healthcare accessible to all, catering to patients from all over the globe. Looking beyond its success and recognizing the need for competent technical education, Dr.N.G.P. initiated the establishment of Dr.N.G.P. Institute of Technology in 2007, and the N.G.P. Group of Educational Institutions. The College has been Affiliated to Anna University, Chennai, approved by the All India Council for Technical Education (AICTE), New Delhi, recognized by UGC under section 2(f),12(B) and Accredited by NAAC and NBA (BME,CSE,ECE,EEE & Mechanical).

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering has been in existence since 2009. The UG Programme is accredited by NBA. The department is recognized as Research Centre by Anna University, Chennai. The department is grown into a full-fledged one with well-equipped lab facilities and infrastructure. The department has well experienced faculty members of various specializations. The activities in the department are carried out to consort the global innovations, inventions, alternate resource development upgraded in the mechanical world for human mankind journey. The students are trained to upgrade themselves and the department is striving to mould them into a better engineer in this society.

VISION

To produce qualified, self-driven mechanical engineers with moral values.

MISSION

- * Enriching technical knowledge through value added courses, interaction with professional societies and research activities.
- * Imparting quality education by competent faculty through learning tools.
- * Providing industry connect opportunities for the students to enhance their talents, innovative ideas and entrepreneurial skills.
- * Developing technical expertise with latest technologies through state-of-the-art laboratories.
- * Encouraging the students to meet the challenges of industry and society with moral values.

ORGANISING COMMITTEE

Chief Patron : **Dr.Nalla G. Palaniswami**

Chairman
KMCH

Dr.Thavamani D Palaniswami

Secretary

Dr. N.G.P. Institute of Technology

Patron : **Dr.O.T.Buvaneswaran**

Chief Executive Officer
KMCRET

President : **Dr.K.Porkumaran**

Principal
Dr. N.G.P. Institute of Technology

Convenors : **Dr.S.NandhaKumar**

Professor & Head (i/c)
Dept.of Mechanical Engineering
Dr. N.G.P. Institute of Technology

Dr.A.Ramamurthy

Professor &Head,
Department of Surgery
KMCH Institute of Health Sciences and Re-

Organizing Secretary : **Mr.S.Rajkumar**

Assistant Professor
Dept.of Mechanical Engineering
Dr. N.G.P Institute of Technology



Department of Health Research (DHR)
Indian Council of Medical Research
(ICMR)



Sponsored
Two Days Translational Research Workshop on

“Design and Fabrication of Patient
Friendly Custom Medical Products by
Additive Manufacturing Process”

19-20th September 2019



Organized by



Department of Mechanical Engineering

Dr.N.G.P. INSTITUTE OF TECHNOLOGY

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University, Chennai. Recognized by UGC & Accredited
by NAAC and NBA (BME,CSE,ECE,EEE & Mechanical)

Coimbatore - 641 048



KMCH INSTITUTE OF
HEALTH SCIENCES AND RESEARCH

(A Unit of Kovai Medical Center and Hospital Ltd., Coimbatore)



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Kalapatti Road
Coimbatore - 641 048

DHR - ICMR Sponsored

Two Days Translational Research Workshop on “Design and Fabrication of Patient Friendly Custom Medical Products by Additive Manufacturing Process”

19-20th September - 2019

Name :
Designation :
Department :
Address :

Mobile Number:
Email Address:
Payment Details:
DD / Cheque Number:
Bank:
Branch:

I hereby recommend Dr/Mr/Ms _____
to attend :“Two Days Translational Research Workshop on
Design and Fabrication of Patient Friendly Custom Medical
Products by Additive Manufacturing Process” at Dr.N.G.P
Institute of Technology from 19-20th September 2019.

Signature of Candidate

Signature of
(HoD/Principal)

ABOUT THE WORKSHOP

Medical applications for 3D printing are expanding rapidly and are expected to revolutionize health care. Medical uses for 3D printing, both actual and potential, can be organized into several broad categories, including: tissue and organ fabrication; creation of customized prosthetics, implants, and anatomical models; and pharmaceutical research regarding drug dosage forms, delivery, and discovery. The workshop will provide a common platform for researchers, academicians and manufacturers in the healthcare sector to explore this emerging technique for fabricating customized & complex architecture within a few hours.

This workshop also involves demonstration session for the translation of X-ray, micro-CT and MRI scan images into the printable standard triangular (.stl) files towards the production of clinically meaningful medical products.

OBJECTIVE

The objective of this workshop is to identify fundamental research needs in the emerging areas of 3D printing and additive manufacturing. These needs may be related to the materials that are used, processing of those materials and the resulting products. The interdisciplinary approach means seeing how Additive Manufacturing is understood and applied in medical disciplines. It is also important to establish a link between ground work and hospital to ensure that Additive Manufacturing is geared for the future.

DISCUSSION TOPICS

- * 3D Printing Applications in the Medical Community.
- * Future Personalized Bio Printing (3D printing of drugs, living cells, Tissues & Organs).
- * Future biomaterials, Models & Implants.
- * Ethical Issues related to 3D Printing for Medical Applications.

EXPECTED OUTCOMES

At the end of the workshop the Participants will be able to

- Outline the concepts of 3D Printing & Additive Manufacturing.
- Explain the importance of 3D Printing & Additive Manufacturing in medical field.
- Discuss about future personalized bio printing, bio materials & Implants.

RESOURCE PERSONS

Resource persons from reputed academia and industry will deliver interactive talks on research areas relevant to Additive manufacturing & 3D Printing .

ELIGIBILITY AND SELECTION

Clinicians, Faculty from approved Government Institutions, Research scholars, Medical, Dental, Health Science College and Engineering Students members are eligible to participate in the Workshop. The total intake is restricted to 70 and selection will be based on first come first served.

REGISTRATION FEE

Clinicians, Industrialists	Rs.300
Research Scholar, Academicians	
UG& PG Students	

Registration fee in the form of Demand Draft / Cheque is to be drawn in favour of “THE PRINCIPAL, Dr.N.G.P Institute of Technology, Coimbatore 641048” Payable at Coimbatore. The application in the attached format is to be sent to the coordinator on or before 15th September 2019. **The fee includes course kit, lunch and refreshments. Pre-registered participants may avail spot registration.**

IMPORTANT DATES

Receipt of Application: 15.09.2019
Intimation of Selection: 16.09.2019

Registration form along with DD to be sent to:

Mr.S.RAJKUMAR

Assistant Professor

Department of Mechanical Engineering
Dr. N.G.P Institute of Technology, Kalapatti Road,
Coimbatore-641048

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