


## FACULTY PROFILE

Name of the Faculty:		<b>Dr. TATA NANCHARAI AH</b>				
Designation:		<b>PROFESSOR &amp; HOD</b>				
Department:		<b>MECHANICAL ENGINEERING</b>				
Date of Birth:		<b>01-07-1976</b>				
AICTE – ID:		<b>1-3176940598</b>				
<b>Education</b>		<ul style="list-style-type: none"> <li>B.Tech in Mechanical Engineering from Andhra University/ AUCE in 2000</li> <li>M.Tech in Production Engineering Specialization from ANU/VRSEC University/Institute in 2004</li> <li>PhD in Mechanical Engineering specialization from JNTUH/JNTUCE, Kakinada University/Institute in 2010</li> </ul>				
<b>Experience</b>		Teaching: 23 Years	Industry: 0 Years	<b>Total: 23 Years</b>		
		Research: 13 Years	Others: Nil Years			
<b>Research Specialization</b>		<b>Rapid Prototyping, Design, Advanced Manufacturing Processes and Optimization</b>				
<b>Courses taught</b>		<ol style="list-style-type: none"> <li>1. Strength of Materials</li> <li>2. Design of machine Elements</li> <li>3. Engineering Metrology</li> <li>4. Engineering Thermodynamics</li> </ol>				
<b>Research contributions</b>						
<b>International/national peer reviewed journals</b>						
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing (SCI/WoS/SCOPUS, Google scholar)
1	Experimental optimization on mechanical properties of 18Ni-300 maraging steel produced by direct metal laser sintering	Engineering Research Express	2023	5		ESCI/SCOPUSS
2	Flapwise Vibration of Functionally Graded Rotating Tapered Beam with Tipmass	Sigma Journal of Engineering and Natural	2022	40	640-648	ESCI

		Sciences				
3	Influence of different build orientation and laser scan strategies on surface quality, Mechanical and Material Characteristics of 18 Ni-300 maraging steel processed through DMLS	Australian Journal of Mechanical Engineering	2023	21	1381-1395	ESCI /SCOPUS
4	Role of heat treatment on machining characteristics and surface roughness of AZ91 Mg alloy	Materials Today: Proceedings	2022	50	2488-2492	SCOPUS
5	Multi response optimization of process parameters in wire-cut EDM on INCONEL 625	Materials Today: Proceedings	2021	47	6960-6964	SCOPUS

#### Books published

S. No.	Title of the book	Publisher	year
1			

#### Book chapters Published

S.No.	Title of the Chapter	Book title	Publisher	year
1	A Review Paper on Metal 3D Printing Technology	Advances in Materials Processing and Manufacturing Applications.	Lecture Notes in Mechanical Engineering. Springer, Singapore	2021
2	A Note on Preparation of Electroless Nickel Coating on Alumina Micro-particulates as the Forerunner to Reinforce Al-MMCs.	Recent Advances in Smart Manufacturing and Materials	Lecture Notes in Mechanical Engineering. Springer, Singapore	2022

#### Details of Patents (Filed & Granted)

S. No.	Applications number	Title of the patent	Date of filing/publishing	Published/granted
1				

#### Details of Conferences/FDPs/STTPs/webinars/Workshops Organized

S.No.	Name of the event	Role	Dates
1	2 <sup>nd</sup> International Conference on	Convener	3rd-4th March

	Mechanical Engineering and Emerging Technologies (MEET-2022)		2023.
2	1 <sup>st</sup> International Conference on Mechanical Engineering and Emerging Technologies (MEET-2022)	<b>Convener</b>	22 <sup>nd</sup> 23 <sup>rd</sup> April 2022.
3	“Applications and Importance of NDT in various industries”	<b>Convener</b>	25 <sup>th</sup> - 29 <sup>th</sup> July 2022
4	FDP on Goal Setting and Planning	<b>Coordinator</b>	17th July 2022
5	Equity & Inclusion’ as a part of 1 year of Transformative reforms under New Education Policy (NEP)-2020	<b>Coordinator &amp; Speaker</b>	30.07.2021 (Friday)
6	Laser Based Forming : Fundamentals to Research Possibilities	<b>Coordinator</b>	22.04.2022

**Details of Conferences/FDPs/STTPs/webinars/Workshops Participated**

<b>S.No.</b>	<b>Name of the event</b>	<b>Organized by</b>	<b>Dates</b>
1	“Recent Advances in Mechanical Engineering” organized by the Department of Mechanical Engineering	NSRIT, SAE India and ASME Students’ Chapters	05-09 June 2023
2	Outcome Based Education and Examination Reforms” (OBE & ER - 2022)	Bapatla Engineering College, Bapatla, Andhra Pradesh	03rd – 5th August 2022
3	Research Methodology - Methods& Best Practice	SANTHIRAM ENGINEERING COLLEGE, Nandyal	07-05-2020
4	“Recent Advances in Renewable Energy & Energy Efficiency Technologies	Mahatma Gandhi Institute of Technology, Hyderabad	21-25 July, 2020
5	Recent advances of 3D printing and its Bio-medical Engineering Application	Royal Global University, Guwahati	12 – 16 October 2020

**Awards/recognitions/achievements**

<b>S.No.</b>	<b>Name of the Award</b>	<b>Awarding body/Society/Organization</b>	<b>Year</b>
1			

**Details of project proposals submitted/sanctioned/completed**

S.No.	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount	Year/ duration

**Consultancy contribution**

S.No.	Year	Amount	Details
1			

**Student Project/research guidance**

S.No	Level	Total number	
1	UG	Completed: 26	Ongoing:01
2	PG	Completed: 03	Ongoing:00
3	PhD	Completed: 00	Ongoing:01

**Administrative experience**

S.No.	Role	Duration (From – to)
1	Head of the Department	06-12-2016 to till date

**Research credentials**

Index/database	ID/Link
Google Scholar	<a href="https://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;user=5OXhBEEAAAJ">https://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;user=5OXhBEEAAAJ</a>
SCOPUS	57216221041
Web of Science	rid40016
Vidwan ID	175314

**Any other relevant information**

(Dr. T. Nancharaiah)

(Date: 20-9-2023)