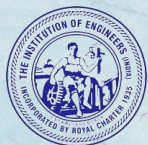




**International Conference  
(Online Mode)  
on**

**“RECENT ADVANCES IN  
MATERIALS, MANUFACTUR-  
ING AND MACHINE LEARNING  
(RAMMML-2022)”**

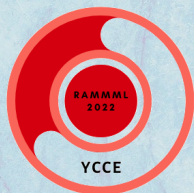
**In Association with**



**The Institution of Engineers (India)**

(MAHARASHTRA STATE CENTRE AND NAGPUR LOCAL CENTRE)

**26<sup>TH</sup> - 27<sup>TH</sup> APRIL 2022**



**Organized By:  
Department of Mechanical Engineering  
Yeshwantrao Chavan College of  
Engineering, Nagpur-441110**

**Publication Partners:**



**Taylor & Francis**



**Springer**

**Conference Theme**

The International Conference on “Recent Advances in Materials, Manufacturing and Machine Learning (RAMMML-2022)” is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations. With its high quality, it aims to bring together both industrial and academic professional including leading academic scientists, researchers and research scholars to exchange and share their experiences, most recent innovations, trends and research results on all aspects of Advances in Materials, Manufacturing and Machine Learning.

**About YCCE**

Yeshwantrao Chavan College of Engineering (YCCE), Nagpur, Established in 1984, is renowned for Engineering Education and Research. It has successfully nurtured young engineering professionals, becoming a sought-after destination for students aspiring to higher technical education and placement in the competitive software and core industries. A first private engineering college to acquire 'Autonomous' status in Central India approved by AICTE & is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University. The college is guided by the Academic Advisory Board consisting of eminent academicians from the prestigious technical institutes in India and USA. Accredited by National Board of Accreditation (NBA), New Delhi upto June 2023. NAAC has accredited the college with an 'A' grade. The institute has been ranked amongst top Engineering Institutions all over India including IITs, NITs, and Government & Autonomous Engineering Institution by NIRF, MHRD, and Government of India. The Institute offers 7 UG & 6 PG courses apart from Ph.D. programmes. Since its inception, the institute has maintained a tradition of academic excellence and training of students for the National Service. The Institute has taken quantum jumps and is one of the leading institute's offering world class technical educations. The Institute has signed MoU's with various National and International Universities, Laboratories and Industries for academic and research interaction and collaboration for mutual benefit.

**About Mechanical Engineering Department**

The Department of Mechanical Engineering is one of the largest departments in the Institute, offers the UG course in Mechanical Engineering and post graduate courses in CAD/CAM and Doctoral Program in Mechanical Engineering. The department has over 20 instructional and research laboratories, equipped with some of the state-

of-the-art scientific instruments and systems. The vision of the department is to be one of the attractive destinations for pursuing mechanical engineering with emphasis on innovation, research and value based education. The Department is having Siemens Center of Excellence in the field of Automation, AVEVA Center of Excellence in the field of Pipe Design. The Department has maintained a good rapport with Industry and R & D organizations. The Department has student's chapters of SAE (Society of Automotive Engineers) and ISHRAE (Indian Society of Heating, Refrigerating and Air Conditioning Engineers).

**Call for Papers**

All papers must be original and not simultaneously submitted to another journal or conference. The following paper categories are welcome:

**Track-1: Materials**

Advanced Materials  
Ceramics, Shape Memory Alloys  
and Nanomaterials  
Materials for Aerospace Applications  
Polymers and Polymer Composites  
Glasses and Amorphous Systems  
Material characterization and testing  
MEMS/NEMS  
Bio Materials  
Optical/Electronic Materials  
Magnetic Materials  
3D Materials  
Cryogenic Materials  
Materials applications, performance and life cycle

**Track-2: Machine Learning**

Machine learning, knowledge discovery, and data mining  
Artificial intelligence in biomedical engineering and informatics  
Artificial neural networks and algorithms  
Knowledge acquisition, representation and reasoning methodologies  
Genetic algorithms  
Probability-based systems and fuzzy systems  
Healthcare process management  
Imaging, signal processing and text analysis  
Bioinformatics and neurosciences

**Track-3: Manufacturing: Modelling, Analysis and Optimization**

Micro/Nano Machining  
Metal Forming  
Green Manufacturing  
Non-Conventional Machining Processes  
Additive Manufacturing  
Subtractive Manufacturing  
Industry 4.0  
Sustainable Manufacturing Technologies  
Casting Technology  
Joining Technology  
Plastic processing technology  
CAD/CAM/CAE/CIM/HVAC  
Finite Element Analysis  
Thermal Optimization  
Thermal Engineering  
Energy Analysis  
Process Monitoring and Control  
Product Design and Development  
Multi Objective Optimization  
Modelling, Analysis and Simulation  
Vibration Noise Analysis and Control

**Track-4 : Interdisciplinary**

Condition Monitoring  
NDT  
Soft Computing  
VLSI and Embedded System  
Computer Vision  
Environment Sustainability  
Water Management  
Structural and Geo-Technical Engineering  
Advanced Mechatronic Systems and control



Manuscript **Submission:**

Full Length Manuscript submission Link:

<https://easychair.org/conferences/?conf=rammmi2022>  
**All the accepted and orally presented papers will be published in Scopus Indexed Journals/Book Chapters.**

Publication **Details**

**Journals:**

- Journal of Institute of Engineers: Series C, Springer
- World Journal of Engineering, Emerald

**Book Chapter:**

- Advances in Mechanical Engineering and Interdisciplinary Sciences, CRC Press, Taylor & Francis
- Advanced Manufacturing Processes, CRC Press, Taylor & Francis
- Lecture notes in Mechanical Engineering, Springer (In Process)

Guest **Editor**

<b>Prof. Rajiv Gupta</b>	University of California, USA
<b>Dr. Devendra Deshmukh</b>	IIT, Indore
<b>Dr. Awanikumar P. Patil</b>	VNIT, Nagpur
<b>Dr.Naveen Kumar Shrivastava</b>	BITS, Dubai

International **Advisory Committee**

<b>Prof. Rajiv Gupta</b>	University of California, USA
<b>Mr. James Barret</b>	Turno College, Plymouth Univer-
<b>Mr. Abhiram Dapke</b>	DWS Drone, Albama, USA
<b>Mr. Nakul Vadalkar</b>	I&I, Celanese, Germany
<b>Mr. Laxmikant Kolekar</b>	Alam Steel, Al Salmiyah Hawalli, Kuwait
<b>Dr.Naveen Kumar Shrivastava</b>	BITS Pilani, Dubai
<b>Mr. Aniket Mandlekar</b>	Intertape polymer group, Canada
<b>Mr. Yogi Gandhi</b>	US Institute of 3D Technology (USI3DT) International Management Consultant

National **Advisory Committee**

<b>Dr. Prashant P. Datey</b>	Indian Institute of Technology, Bombay
<b>Dr. Milind Atre</b>	Indian Institute of Technology, Bombay
<b>Dr. Rakesh G. Mote</b>	BITS Pilani, Dubai
<b>Dr. Harekrishna Yadav</b>	IIT, Indore
<b>Dr. I. A. Palani</b>	IIT, Indore
<b>Dr. Anand Parey</b>	IIT, Indore
<b>Dr. Jitendra Sangwai</b>	IIT, Madras
<b>Dr. Devendra Deshmukh</b>	IIT, Indore
<b>Dr.Rajesh Ranganathan</b>	Coimbatore Institute of Technology, Coimbatore, Tamilnadu
<b>Dr. Anupam Agnihotri</b>	Jawaharlal Nehru Aluminium Research Development And Design Centre, Bombay
<b>Dr. P. M. Padole</b>	Visvesvaraya National Institute of Technology, Nagpur
<b>Dr. Awanikumar P. Patil</b>	Visvesvaraya National Institute of Technology, Nagpur
<b>Dr. Vilas R. Kalamkar</b>	Visvesvaraya National Institute of Technology, Nagpur
<b>Prof. G. S. Dangayach</b>	Malaviya National Institute of Technology, Jaipur
<b>Dr. Y. M. Puri</b>	Visvesvaraya National Institute of Technology, Nagpur
<b>Prof Rakesh Shrivastava</b>	Consultant and Trainer,Ex Chairman IEI, Nagpur Chapter
<b>Dr. D. M. Kulkarni</b>	BITS, Goa
<b>Dr. B. Rajiv</b>	College of Engineering Pune
<b>Dr. T. N. Desai</b>	Sardar Vallabhbhai National Institute of Technology, Surat
<b>Mr. Saquib Anwar</b>	Manager BEL, Bombay
<b>Dr. Prakash Pantawane</b>	COEP, Pune

Chief **Patrons**

- **Hon'ble Shri Dattaji Meghe**  
Chairman, Nagar Yuvak Shikshan sanstha, Nagpur  
Founder Chancellor of Datta Meghe Institute of Medical sciences
- **Hon'ble Shri Sagarji Meghe**  
Secretary, Nagar Yuvak Shikshan sanstha, Nagpur
- **Hon'ble Shri Sameerji Meghe**  
Treasurer, Nagar Yuvak Shikshan sanstha, Nagpur
- **Hon'ble Mrs. Vrinda Meghe**  
Chief Advisor, Nagar Yuwak Shikshan Sanstha
- **Hon'ble Dr. Hemant Thakre**  
Chief Operating Officer, Ciensys Tech. Ltd.  
President, The Institution of Engineers (India)

**Patron**

- **Dr. U.P. Waghe**  
Principal  
Yeshwantrao Chavan College Of Engineering, Nagpur
- **Dr. Manali Kshirsagar**  
Principal  
Rajiv Gandhi College Of Engineering, Nagpur

Conference **Chair**

- **Dr. J. P. Giri**  
Head of The Department  
Department Of Mechanical Engineering  
Yeshwantrao Chavan College Of Engineering, Nagpur
- **Dr. R.B. Chadge**  
Department Of Mechanical Engineering  
Yeshwantrao Chavan College Of Engineering, Nagpur

Organizing **Secretary**

- **Dr. S.R. Jachak**  
Department of Mechanical Engineering , YCCE
- **Dr. S.P. Ambade**  
Department of Mechanical Engineering , YCCE



## Institute Level Advisory Committee:

<b>Dr. P.K. Dakhole</b> Registrar	<b>Dr. A.V. Patil</b> Dean (Academics)	<b>Dr. A.R. Bhagat Patil</b> Dean (P&D)
<b>Dr. Ms. U.H. Gawande</b> Dean (R&D)	<b>Dr. Mrs. G.M. Dhopavkar</b> Dean (T&P)	<b>Dr. S.T. Bagde</b> Dean (ED Cell)
<b>Prof. D.R. Raut</b> Controller of Examinations	<b>Dr. S.P. Raut</b> HOD Civil	<b>Dr.S.S.Chaudhari</b> Dean (OBE)
<b>Dr. R.C. Dharmik</b> HOD IT	<b>Dr. S.G. Kadwane</b> HOD EL	<b>Dr. R.D. Thakare</b> HOD EE
<b>Dr. Mrs. R.D. Wajgi</b> HOD CT	<b>Dr. L.B. Damahe</b> HOD CSE	<b>Dr. M.S. Narlawar</b> HOD ETC
	<b>Dr. M.P. Gandhi</b> First Year Coordinator	

## Contact Persons:

- Dr. S.R. Jachak**  
E-mail: jshrikant8@gmail.com  
Mob. 9096089218
- Prof. A.P. Edlabadkar**  
E-mail: ajinkyae@googlemail.com  
Mob. 9764478622
- Prof. Neeraj Sunheriya**  
E-mail: neeraj.sunheriya@gmail.com  
Mob. 7020368408

## Important Links:

Conference Website:

<https://www.yccemach.in>

Registration Form:

<https://forms.gle/UGQ3NsKBqNF7Q7fVA>

## Registration Fee :

	For Oral Presentation	Indian Delegate	Foreign Delegate
UG Student	₹ 2500	50\$	
Research Scholar	₹ 3000	50\$	
Academia	₹ 3500	75\$	
Industry	₹ 4000	100\$	

**\*Late fee of ₹ 500 after Early-bird registration**

**\*For Poster Presentation Registration fee will be ₹ 2000 which will be common to all**

## Account Details:

Bank:

Account No:

Account Name:

Branch:

IFSC:

**Punjab National Bank**

**1472002100003909**

**Yeshwantrao Chavan College of Engineering**

**Khamla, Nagpur-440025**

**PUNB0147200**

## Alternate Payment Mode

You can pay to following UPI-ID  
**8983760646@ybl**  
(Chetan Mahatme)



## Important Dates:

Last date for submission of manuscript as per format

Notification of acceptance of manuscript

Last date for submission of camera ready paper

Date of acceptance of camera ready paper

Early-Bird Registration

Late Registration

Dates of the conference

**28<sup>th</sup> February 2022**

**15<sup>th</sup> March 2022**

**25<sup>th</sup> March 2022**

**1<sup>st</sup> April 2022**

**1<sup>st</sup> March - 5<sup>th</sup> April 2022**

**6<sup>th</sup> April - 15<sup>th</sup> April 2022**

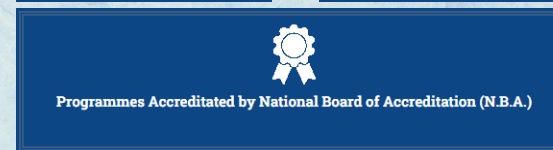
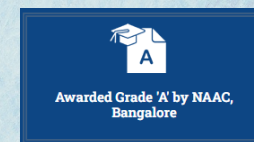
**26<sup>th</sup> - 27<sup>th</sup> April 2022**

## We, The YCCE....



## Our Vision

"To become the most preferred institution providing innovative, research and value based, professional education for the society at large".



## Glimpses of Mechanical Department:

