



**IETE approved 2nd International Faculty Development Program on**  
**“21st Century: Recent trends, challenges and future roadmap for transitions in technological generations”**



**25th to 30th April 2024**

*Organised by*

**Department of Electronics Engineering  
Yeshwantrao Chavan College of Engineering (YCCE), Nagpur**



**CONVENERS**

**Dr. Shubhangi Rathkanthiwar**  
Professor  
Department of Electronics Engineering  
YCCE, Nagpur

**Dr. Rajesh Thakare**  
Professor & Head  
Department of Electronics Engineering  
YCCE, Nagpur

## VISIONARIES



**Hon. Shri. Dattaji Meghe**  
Chairman, NYSS, Nagpur



**Hon. Shri. Ravi Meghe**  
Secretary, NYSS, Nagpur



**Hon. Shri. Sameer Meghe**  
Treasurer, NYSS, Nagpur



**Hon. Smt. Vrinda Meghe**  
Chief Advisor, NYSS, Nagpur



**Hon. Shri. Raghav Meghe**  
Advisor, NYSS, Nagpur

## ADVISORS

**Dr. U. P. Waghe**  
Principal  
YCCE, Nagpur

**Dr. Manali Kshirsagar**  
Director (Technical) and Advisor  
Meghe Group of Institutions

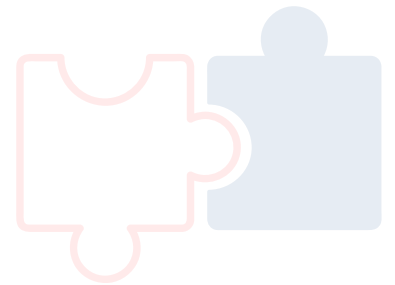
## ABOUT YCCE

Yeshwantrao Chavan College of Engineering, established in 1984 by Nagar Yuwak Shikshan Sanstha, Nagpur, is one of the most prominent institutions recognized for remarkable engineering education and research programs. YCCE is an eminent institution acknowledged for its remarkable engineering education and research. Since its inception, the institution has nurtured the forthcoming engineering professionals across the country making YCCE one of the most sought-after engineering colleges in Maharashtra.

## ABOUT DEPARTMENT

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The Department of Electronics Engineering at YCCE stands as a beacon of excellence in engineering education. As one of the founding departments at YCCE, the department takes pride in its rich legacy of academic and research achievements. Established in 1984, the department offers a comprehensive undergraduate program and serves as a recognized research centre for Ph.D. program. The department's state-of-the-art infrastructure and dedicated faculty members create an environment conducive to learning and innovation. With a focus on cutting-edge research, the department specializes in key areas such as VLSI design, Embedded System Design, and Digital Signal & Image Processing. For 40 years, the department has continuously strived to be at the forefront of technological advancements and has ensured the highest quality education for students.



## BACKGROUND

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Building on the success of the previous International FDP (2022), which attracted about 450 attendees, this year's IFDP will be an esteemed gathering with an objective to engage presentations on the aforesaid theme from prominent intellectuals, academicians, and industry experts for the professional development of faculty members from different institutions across India and around the world. The FDP aims to provide attendees from diverse engineering disciplines with broad perspectives and a vision for enhancing their research and development activities. Collaborating across different disciplines is unarguably the need of the hour for the researcher and academic community to meet the ubiquitous challenges of the 21st century. The goal for the attendees would be to update their multidisciplinary knowledge, give vent to ingenious ideas, and get involved in academic collaborations. We are confident that the knowledge shared by the IFDP speakers would not only help the attendees' individual professional development but also motivate them to strive toward high-quality research.

## OBJECTIVE

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The objective of this IFDP is to motivate faculty members to interact with eminent intellectuals from around the world, update their multidisciplinary knowledge in terms of global context, and get involved in academic collaborations for high-quality research activities.

## FOR WHOM

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The IFDP is designed for faculty members, industry persons, and researchers in engineering and science fields. The faculties participating in IFDP will strengthen their understanding of applications of their respective domain of research in engineering, learn about recent trends and challenges in technological generations, and plan for their scientific contributions in line with the requirements of future technological generations. In addition, Ph.D. scholars, and postgraduate and undergraduate engineering and science students are welcome to attend this IFDP to widen their perspective and vision for future research and development activities in their respective fields.

## MODE OF FDP

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This FDP will be conducted in an **ONLINE** mode.

The links for the different sessions will be emailed to the registered participants.

## REGISTRATION

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Participants can register for FDP through the following link or scan the **QR Code** to Fill the form

<https://forms.gle/VJHsNyEuyjTznvAy8>

The registration is **FREE for all** the participants.

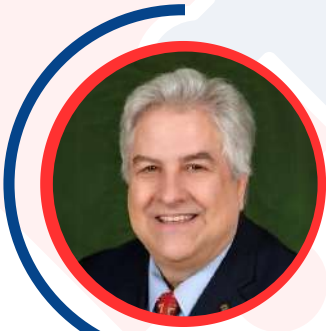


## CERTIFICATION

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Attendance certificates shall only be issued to those registered participants who attend the program with a **minimum of 80% attendance**.

## OUR SPEAKERS



**Dr. James Conrad**  
University of North Carolina  
Charlotte, USA



**Dr. Deepak Waikar**  
*Managing Partner*  
Edu-Energy, Singapore



**Dr. Chetan Ralekar**  
Massachusetts Institute of Technology  
USA



**Dolar Khachariya**  
North Carolina State University  
USA



**Nitin Birla**  
*Specialist Engineering & Projects*  
Kuwait Gulf Oil Company



**Abagael Sykes**  
North Carolina State University  
USA



**Jiten Vaidya**  
*Co-Founder & CSO*  
PlanetScale



**Shamim Mamun**  
Jahangirnagar University  
Dhaka, Bangladesh



**Ramesh Agarwal**  
Washington University  
St. Louis, USA



**Mayuresh Dawoo**  
*SoC RTL Design Engineer*  
Intel Corporation



**Sumeet Pande**  
*Senior Software Engineer*  
Microsoft



**Vishvesh Koranne**  
Purdue University  
USA

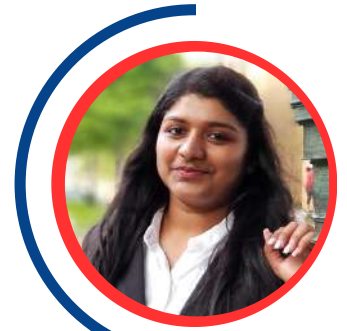
## OUR SPEAKERS



**David Haney**  
Director, Code base  
Texas, USA



**Anusha Kallapur**  
University of Michigan  
Ann Arbor, USA



**Dr. Laavanya Rachakonda**  
University of North Carolina  
Wilmington, USA



**Dr. Seeram Ramkrishna**  
National University Singapore  
Singapore



**Dr. Shashwat Rathkantiwar**  
Director, MOCVD Research  
Lit Thinking Semiconductor Research Center USA



**Hemant Pendharkar**  
University of South Florida  
USA

## ACKNOWLEDGEMENT

We extend our heartfelt appreciation to all those who are contributing to the success of this IFDP. We extend our sincere appreciation to **Dr. Salim Chavan**, Chairman, IETE Nagpur Section, and **Dr. Suresh Rangankar**, Hon. Secretary, IETE Nagpur Section for their support and commitment to advancing the goals of this IFDP. We are deeply grateful to our esteemed speakers who will be sharing their expertise and insights, and our dedicated attendees for their active participation and engagement. Special thanks go to the organizing committee, volunteers, and staff whose hard work and commitment will make this event possible.

A notable shout out to Rinesh Patil (final year CSE student) and Humanshu Gajbhiye (final year CTech student) for their commitment to the smooth conduct of this IFDP. We are truly privileged to be surrounded by such a vibrant and supportive community. Thank you for your contributions and for helping make this conference a memorable experience for all.

## 21ST CENTURY: RECENT TRENDS, CHALLENGES AND FUTURE ROADMAP FOR TRANSITIONS IN TECHNOLOGICAL GENERATIONS

DAY	DATE	SESSION 1 (10 AM - 12 NOON)	SESSION 2 (12.30PM-2.30PM)	SESSION 3 (3.30PM-5.30PM)
Day 1	<b>25.4.2024</b> <b>(Thursday)</b>	<b>Dr. James Conrad</b> University of North Carolina Charlotte, USA	<b>Dr. Deepak Waikar</b> <i>Managing Partner</i> Edu-Energy, Singapore	<b>Dr. Chetan Ralekar</b> Massachusetts Institute of Technology USA
Day 2	<b>26.4.2024</b> <b>(Friday)</b>	<b>Dr. Dolar Khachariya</b> North Carolina State University USA	<b>Dr. Nitin Birla</b> <i>Specialist Engineering &amp; Projects</i> Kuwait Gulf Oil Company	<b>Abagael Sykes</b> North Carolina State University USA
Day 3	<b>27.4.2024</b> <b>(Saturday)</b>	<b>Jiten Vaidya</b> <i>Co-Founder &amp; CSO</i> PlanetScale	<b>Dr. Shamim Mamun</b> Jahangirnagar University Dhaka, Bangladesh	<b>Dr. Ramesh Agarwal</b> Washington University St. Louis, USA <b>(6PM-8PM)</b>
Day 4	<b>28.4.2024</b> <b>(Sunday)</b>	<b>Mayuresh Dawoo</b> <i>SoC RTL Design Engineer</i> Intel Corporation	<b>Sumeet Pande</b> <i>Senior Software Engineer</i> Microsoft	<b>Vishvesh Koranne</b> Purdue University USA
Day 5	<b>29.4.2024</b> <b>(Monday)</b>	<b>David Haney</b> <i>Director, Code base</i> Texas, USA	<b>Anusha Kallapur</b> University of Michigan Ann Arbor, USA	<b>Dr. Laavanya Rachakonda</b> University of North Carolina Wilmington USA
Day 6	<b>30.4.2024</b> <b>(Tuesday)</b>	<b>Dr. Hemant Pendharkar</b> University of South Florida USA	<b>Dr. Shashwat Rathkanthiwar</b> <i>Director, MOCVD Research</i> Lit Thinking Semiconductor Research Center USA	<b>Dr. Seeram Ramkrishna</b> National University of Singapore



## ORGANIZING COMMITTEE

Sr. No.	Designation	Name
1	Co-Convener	Dr. Ujwala Ghodeswar
2	FDP coordinator	Dr. Tejaswini Panse
3	Technical Program Committee	Prof. Atish Peshattiwar Prof. Vilas Alagdeve
4	Anchor	Dr. Shweta Dhondse Prof. Swati Nitnavare
5	Registration Committee	Dr. Monica Kalbande Dr. Shweta Gaidhane
6	Event Coordinator	Dr. Rupali Balpande Dr. Ankita Tijare Prof. Pradnya Jadhav Prof. Kuldeep Pande Prof. Rahul Kamdi
7	Finance Committee	Dr. Pradnya Maturkar Prof. Poonam Chaudhary Prof. Swati Mohod
8	Publicity Coordinator	Dr. Pradeep Karule Dr. Atish Khobragade Dr. Prasanna Palsodkar Dr. Yogesh Suryawanshi Dr. Prachi Palsodkar Dr. Pravin Zode Dr. Pradnya Zode Prof. Ajay Thatere Prof. Mahesh Pawar Prof. Swati Mohod
9	Student TPC Members	Rinesh Patil Humanshu D Gajhbiye Amogh Nagarkar Durgesh Pawar Priyanshu Girpunje Tanishq Gosewade Aditi Rokade Bharti Ravipati Jagruti Satpute

## CONTACT US

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