



A 5-DAY ONLINE WORKSHOP ON AI-ENABLED COMPUTER VISION SYSTEMS FOR ADVANCED FOOD QUALITY EVALUATION

 14 - 18 July 2025

Topics to be Covered

- Computer Vision in Food Quality Evaluation
- Basics of Python and MATLAB Programming
- Fundamentals of Digital Image Processing
- Integration of Artificial Intelligence and Machine Learning
- Hands-on Projects with Real World Examples



Scan to Enroll



Registration Fee

(Inclusive of 18% GST)

- Student and Scholar: Rs. 590
- Faculty and Scientist: Rs. 1180
- Industry Professional: Rs. 1180

*(No Registration fee for Students/Scholars
and Faculties/Staffs of NIT Rourkela)*

Payment

Account Name: Continuing Education, NIT Rourkela

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IFSC: SBIN 0002109

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Last Date for Registration: 7 July 2025

Certificates will be issued to registered participants

Coordinators

Dr. Chandrakant Genu Dalbhatg

Assistant Professor

Email: dalbhatg@nitrkl.ac.in

Contact : +91 8348561119

Dr. Shubham Mahendra Nimbkar

Assistant Professor

Email: nimbkar@nitrkl.ac.in

Contact: +91 8652827983

Department of Food Process Engineering
National Institute of Technology Rourkela

About the Institute

NIT Rourkela is an institute of national importance with a reputation for excellence in education, research, and consultancy. It has a diversified academic program with 17 academic departments offering specialised courses at undergraduate, postgraduate and doctoral levels of studies. It is passionately committed to making our country a world leader in technology and science, and to inculcate this commitment among all its students. While the academic programs offered by NIT Rourkela are in tune with the National Education Policy, the quality of education is continuously upgraded by periodical revision of syllabi based on the needs of industry and academia.



About the Department

The Department of Food Process Engineering at NIT Rourkela integrates core engineering principles with scientific understanding of food materials, processing systems, instrumentation and automation to drive innovation in the food sector. The academic and research activities in the department focus on frontier areas of food processing such as computer-aided food engineering, food properties prediction, post-harvest operations, food quality and safety, transport process and kinetics, product development and ingredients innovation, food packaging and storage engineering, as well as process control and automation in food manufacturing systems.

Workshop Details

The workshop is designed to equip participants with cutting-edge knowledge and practical skills in computer vision systems integrated with artificial intelligence for food quality assessment. With the growing need for non-destructive, rapid and intelligent food quality evaluation techniques, this workshop will provide participants a comprehensive understanding of the fundamentals of digital image processing, programming basics of Python and MATLAB, and application of machine learning models such as ANN and CNN in predicting the quality and classifying the product. The workshop includes hands-on sessions involving real-world datasets and project-based learning to help participants implement computer vision solutions for analysing different food quality parameters such as colour, texture, size, surface defects, etc.

Student Representatives

Mr. Sandip S Gite
Research Scholar

Ms. Moumita Karmakar
Research Scholar

Mr. Aditya Kashyap
M. Tech Student

Contact Details (For any queries)

Email: cafe.nitrkl@gmail.com

Mobile: +91 9834934867 / +91 9455750776

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