



Rajarajeswari College of Engineering
(An Autonomous Institute, Under Visvesvaraya Technological University, Belagavi ,
Approved by AICTE, UGC & GoK, Accredited by ISO 9001-2015 Certified Institution)
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Department of Computer Science and Design

Date: 10-08-2026

This is to inform that the Department of Computer Science and Design (CSD) has planned to organize a 5-Day's Faculty Development Program (FDP) on "Image Processing and Computer Vision: A Hands –On Approach" from 20th July 2026 to 24th July 2026.

Program Details:

- Duration: 20th July 2026 to 24th July 2026.
- Time: 9:00 A.M. to 4:00 P.M.
- Venue: CSD Lab, Ground Floor

All faculty members are requested to enroll their names on or before 17th July 2026.

M.H.
10/8/2026

HoD/CSD
Professor & HOD

Department of Computer Science & Design
Rajarajeswari College of Engineering
Bangalore - 560 074.

Campus: #14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074

Phone: +91-80-28437124 / 28437375

Email Id: hodcsd@rrce.org

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Department of Computer Science and Design



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No. 14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru - 560074

CET CODE - E145

COMEDK - E099

COMPUTER SCIENCE AND DESIGN

ORGANIZING 5 DAYS FDP PROGRAM ON

IMAGE PROCESSING AND COMPUTER VISION: A HANDS-ON APPROACH



Date: 20.7.2026 to 24.7.2026



Time: 9:00 A.M. to 4:00 P.M.



Venue: CSD Lab,
Ground Floor

RESOURCE PERSON:

Mr. Sankar K

Co-Founder & CEO @ Tekzow | Full Stack &
AI/ML Developer | Career Growth &
Freelancing Mentor | No-Code & Low-Code
Expert



Faculty coordinators:
All Staffs
Dept. of CSD



Dr. M.Selvi
HOD - CSD



Dr. R. Balakrishna
Principal, RRCE



Contact Us:

80567 20164



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Report of Organizing Five-Day's FDP ON "IMAGE PROCESSING AND COMPUTER VISION: A HANDS-ON APPROACH".

1. **Type of Event** : FDP on "Image Processing and Computer Vision: A Hands-On Approach"
2. **Resource Person** : Mr.Sankar K,
Co-Founder & CEO @ Tekzow | Full Stack & AIML Developer
Career Growth & Freelancing Mentor | No code & Low Code Expert.
3. **Date of the Programme:** 20.07.2026 – 24.07.2026

4. **Faculty Co-Coordinator** : All Staffs

5. **Faculty attended** : 15

6. **Outcome of the Programme:**

Participants gained comprehensive knowledge of the fundamental concepts and practical applications of image processing and computer vision. They developed an understanding of image enhancement, filtering, segmentation, feature extraction, object detection, and image classification techniques using modern tools and libraries. The program provided hands-on experience in implementing computer vision algorithms with Python and OpenCV, enabling participants to solve real-world image analysis problems. Participants were introduced to deep learning approaches, including Convolutional Neural Networks (CNNs), for advanced vision tasks such as face recognition, object detection, and image classification. The FDP also enhanced their ability to develop AI-driven vision applications, evaluate model performance, and explore research opportunities in domains such as healthcare, surveillance, autonomous systems, and smart manufacturing. Through practical sessions and case studies, participants strengthened their analytical, problem-solving, and research skills, preparing them to integrate image processing and computer vision techniques into teaching, research, and industry-oriented projects.

FDP OVERVIEW

This **Faculty Development Program (FDP)** is designed to provide participants with a strong foundation in Image Processing and Computer Vision through a balanced blend of theory and practical implementation. The program focuses on modern techniques used in image enhancement, feature extraction, object detection, image segmentation, and deep learning-based vision applications. Participants will gain hands-on experience using Python, OpenCV, and TensorFlow/PyTorch to solve real-world

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computer vision problems. The FDP covers fundamental image processing operations, machine learning and deep learning approaches for visual data analysis, and the deployment of intelligent vision systems across domains such as healthcare, agriculture, autonomous vehicles, surveillance, and smart manufacturing.

By the end of the program, participants will be able to:

- Understand the fundamentals of digital image processing and computer vision.
- Apply image enhancement, filtering, segmentation, and feature extraction techniques.
- Develop computer vision applications using OpenCV.
- Build and train deep learning models for image classification and object detection.
- Explore advanced topics such as transfer learning, image segmentation, and real-time vision systems.
- Implement practical projects and case studies using industry-standard tools and datasets.

The FDP emphasizes **experiential learning**, enabling faculty members, researchers, and postgraduate students to integrate computer vision concepts into teaching, research, and interdisciplinary projects. The program also highlights current research trends and emerging applications in Artificial Intelligence and Computer Vision.

Day1: A One-Day Faculty Development Programme (FDP) on "Image Processing and Computer Vision: A Hands-On Approach" was conducted to enhance faculty members' knowledge and practical skills in image processing and computer vision. The programme covered the fundamentals of digital image processing, computer vision techniques, and their real-world applications in areas such as healthcare, robotics, surveillance, and autonomous systems. Participants gained hands-on experience using **Python** and **OpenCV** to perform image processing tasks, including image enhancement, edge detection, object detection, and image analysis. The FDP also introduced the role of artificial intelligence and deep learning in modern computer vision applications. The interactive sessions and practical demonstrations enabled participants to strengthen their technical expertise and encouraged them to integrate these emerging technologies into teaching, research, and student projects.

Day2: The Faculty Development Programme focused on the **execution and implementation of image processing and computer vision programs using Visual Studio Code (VS Code).**



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Participants were guided through setting up the Python development environment, installing required libraries such as OpenCV, NumPy, and Matplotlib, and executing Python programs in VS Code. The hands-on session covered writing, debugging, and running image processing applications, including image loading, resizing, color conversion, edge detection, and pixel manipulation. Participants also learned how to troubleshoot common programming errors and optimize their code for better performance. The practical demonstrations enhanced their confidence in developing and executing computer vision applications, enabling them to effectively use VS Code as a development platform for teaching, research, and student projects.

Day 3: The Faculty Development Programme focused on "Transforming Research, Teaching, and Assessment through Artificial Intelligence." The sessions highlighted the effective integration of AI tools into higher education to enhance teaching methodologies, research productivity, and assessment practices. Participants explored various AI-powered applications for lesson planning, content creation, literature review, academic writing, data analysis, quiz generation, and automated assessment. Practical demonstrations showcased how AI can support personalized learning, improve student engagement, and streamline evaluation processes while promoting ethical and responsible use of AI in education. The interactive discussions enabled faculty members to gain insights into adopting AI-driven approaches for innovative teaching, quality research, and outcome-based assessment in the academic environment.

Day 4: The Faculty Development Programme focused on "User Interface (UI) and User Experience (UX) Design." The session introduced participants to the fundamental principles of UI and UX, emphasizing the importance of designing user-friendly, accessible, and visually appealing digital applications. Topics covered included UI design elements, UX design process, wireframing, prototyping, usability testing, design thinking, and responsive web design. Participants explored industry-standard design practices and gained hands-on exposure to creating intuitive interfaces using modern UI/UX design tools. The programme highlighted the role of effective UI/UX design in enhancing user satisfaction, improving application usability, and developing interactive web and mobile applications. The practical sessions



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enabled participants to understand the complete design workflow and apply UI/UX principles in academic projects and software development.

Day 5: The Faculty Development Programme focused on "**Artificial Intelligence: How It Works.**" The session provided participants with a comprehensive understanding of the fundamentals of Artificial Intelligence (AI), including its core concepts, workflow, and real-world applications. The resource person explained how AI systems learn from data through machine learning and deep learning techniques, covering stages such as data collection, data preprocessing, model training, testing, evaluation, and prediction. Participants were introduced to popular AI tools and frameworks and explored applications of AI in education, healthcare, finance, agriculture, and smart automation. Interactive demonstrations and case studies helped participants understand the practical implementation of AI models and their potential to enhance teaching, research, and innovation. The session concluded with discussions on the ethical use of AI and its future impact on higher education and industry.



Fig 1: FDP Inauguration session



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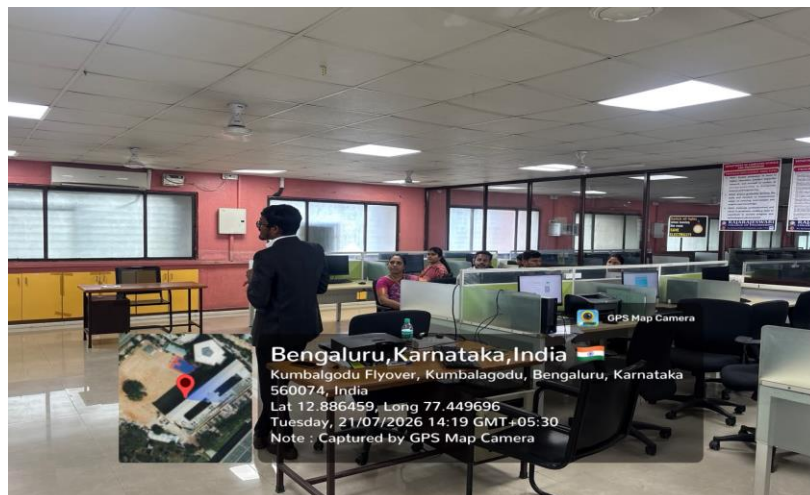


Fig 2: Resource Person Delivering a Lecture during the FDP



Fig 3: "Modern Teaching Techniques" was conducted to equip faculty members with Innovative, technology-integrated, and learner-centric pedagogical methods to Enhance teaching effectiveness and student engagement.

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Fig 4: To enhance faculty knowledge on UI/UX design principles for developing Intuitive, user- centered digital interfaces.

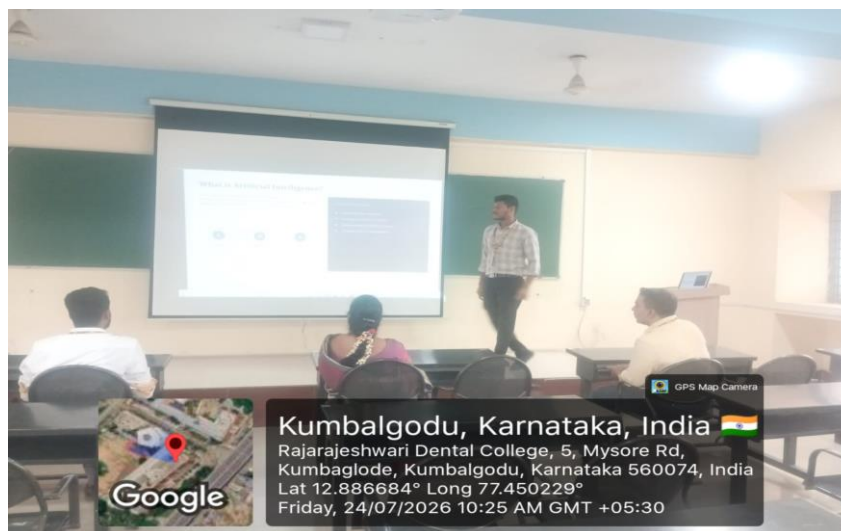


Fig 5: "Artificial Intelligence: How It Works" was conducted to provide faculty members with a foundational understanding of AI concepts, algorithms, and their practical applications across various domains.

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FACULTY'S ATTENDANCE LIST

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Department of Computer Science and Design

Date: 20-07-2026

Event Name: 5-Days FDP on "Image Processing and Computer Vision: Hands-on Approach"

FACULTY ATTENDANCE SHEET

Sl. No	Faculty Name	Department	20-07-2026		21-07-2026		22-07-2026		23-07-2026		24-07-2026	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	Dr. M. Selvi	CSD	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
2	A. Rubithra	CSD	A.R.	A.R.	A.R.	A.R.	A.R.	A.R.	A.R.	A.R.	A.R.	A.R.
3	Nagendra	CSD	N.	N.	N.	N.	N.	N.	N.	N.	N.	N.
4	S. Achuthan	CSD	S.A.	S.A.	S.A.	S.A.	S.A.	S.A.	S.A.	S.A.	S.A.	S.A.
5	Ghouse Pasha	CSD	G.P.	G.P.	G.P.	G.P.	G.P.	G.P.	G.P.	G.P.	G.P.	G.P.
6	G. Sharmila	CSD	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.
7	M. Supraja	CSE	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Josna V	CSE	J.V.	J.V.	J.V.	J.V.	J.V.	J.V.	J.V.	J.V.	J.V.	J.V.
9	Archana A	CSE	A.A.	A.A.	A.A.	A.A.	A.A.	A.A.	A.A.	A.A.	A.A.	A.A.
10	Aishwarya V. Raikar	CSE	A.V.	A.V.	A.V.	A.V.	A.V.	A.V.	A.V.	A.V.	A.V.	A.V.
11	Thilagavalli	CSE	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.
12	N. Ghasree	CSE	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.
13	M. Priyadharshini	CSE	M.P.	M.P.	M.P.	M.P.	M.P.	M.P.	M.P.	M.P.	M.P.	M.P.
14	S. Indira	CSE	S.I.	S.I.	S.I.	S.I.	S.I.	S.I.	S.I.	S.I.	S.I.	S.I.
15	CHAITRA P	CSE	C.	C.	C.	C.	C.	C.	C.	C.	C.	C.

1. S. Achuthan
2. G. Sharmila
Program Co-Coordinator
(All Staffs)

M. Professor Anob
Department of Computer Science & Design
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CERTIFICATES



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Department of Computer Science and Design

Five Days FDP on "Image Processing and Computer Vision: A Hands-on Approach"

20th JUL – 24th JUL 2026

Faculty's Feed Back Form

Please tick the appropriate score against each question.

Questionnaire	Below Average	Average	Fair	Good	Very Good
1. Completeness of the coverage of syllabus in accordance with learning objectives.				✓	
2. The teaching structure of the module clear and consistent.					✓
3. Balance between Theory, activities and discussions.					✓
4. Length and Pace of the Program					✓
5. Quality & Coverage of the course materials provided.					✓
6. Extent to which this course helped you in understanding the subject with respect to industry requirements.				✓	
7. The trainer demonstrates skills with related examples and multiple evaluation methods.				✓	
8. How well did the session help you understand the difference between UI (User Interface) and UX (User Experience)?					✓
9. Effectiveness of the practical activities.					✓
10. Audio – Visual arrangements & Lab facilities.					✓

What did you like the best about this training?

I liked the practical session hands on learning & clear explanation.

Please give suggestions for the improvement of this Course

Faculty Name: Nagendra C.V

Email ID: cvnagendra35@gmail.com

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Please tick the appropriate score against each question.

Questionnaire	Below Average	Average	Fair	Good	Very Good
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2. The teaching structure of the module clear and consistent.				✓	
3. Balance between Theory, activities and discussions.				✓	
4. Length and Pace of the Program					✓
5. Quality & Coverage of the course materials provided.					✓
6. Extent to which this course helped you in understanding the subject with respect to industry requirements.					✓
7. The trainer demonstrates skills with related examples and multiple evaluation methods.					✓
8. How well did the session help you understand the difference between UI (User Interface) and UX (User Experience)?				✓	
9. Effectiveness of the practical activities.				✓	
10. Audio – Visual arrangements & Lab facilities.					✓

What did you like the best about this training?

The Training was well organized, interactive & highly informative with practical examples

Please give suggestions for the improvement of this Course

Share course materials and recorded sessions for future reference.

Faculty Name: Prof. A. RUPAKA

Email ID: rubi.thra311@gmail.com

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