# Dayananda Sagar College of Arts, Science, and Commerce

## Internal Quality Assurance Cell

**Workshop on "Beyond Pixels: Practical Digital Image Processing Using Python"**

**Department*: BCA**

**Date of Report: 14/10/2026**

| Sl. No. | Particulars | Event related Details | | | | |
|---|---|---|---|---|---|---|
| 1. | Event* | Workshop | | | | |
| 2. | Title of the Event | "Beyond Pixels: Practical Digital Image Processing Using Python" | | | Aligned SDG Goal(s) | 4, 9,17 |
| 3. | Date of Conduction | 13/10/2026 | 4. | Time | | 9AM to 4PM |
| 5. | Venue | MCA Lab | | | | |
| 6. | Resource Person 1 Details | Name: Dr. Senthil Vadivu M<br>Designation: Assistant Professor | | Organization: Dept of Statistics and Data Science, Christ (Deemed to be University)<br>Specialization: | | |
| 7. | Topics Covered | Digital Image Processing | | | | |
| 8. | Resource Person 2 Details | Name: NA<br>Designation:<br>Mobile No.: | | Organization:<br>Specialization:<br>Email ID: | | |
| 9. | Topics Covered | NA | | | | |
| 10. | No. Faculty Participants | Internal: | 03 | External: | | NA |
| 11. | No. Student Participants | Internal: | 37 | External: | | NA |
| 12. | Faculty Coordinator/s | Full Name: Mrs. Navya. A<br>Designation: Assistant Professor<br>Department: BCA<br><br>Full Name: Mr. Raghu Ram.P.S<br>Designation: Assistant Professor<br>Department: BCA<br><br>Full Name: Mrs.Rudreshwari.G<br>Designation: Assistant Professor<br>Department: BCA | | Full Name: Mrs. Yogeshwari. H. V<br>Designation: Assistant Professor<br>Department: BCA<br><br>Full Name: Mrs. Akshatha Deepak<br>Designation: Assistant Professor<br>Department: BCA | | |
| 13. | Student Coordinator/s | Full Name: Priyanka Singh (U03CJ24S0107), Rishav Kanoujia (U03CJ24S0114)<br>Department: BCA | | | | |
| 14. | Total Expenditure | 10,524/- | 15 | Sponsors and Amount | | NA |
| 16. | Agenda of the Event | Yes | 17. | Provide the link of the report uploaded on College Website | | Yes |
| 18. | Social Media Links | Yes | 19. | Report sent to Newspapers? If yes, provide cuttings/images: | | NA |
| 20. | Certificates Printed? | NA | 21. | Feedback Collected? | | Yes |
| 22. | Attendance Sheet Attached?* | Yes | 23 | Photographs of the Event | | Yes |

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| Sl. No. | Particulars | Event related Details |
|---|---|---|
| 24. | **Summary of the Event** | The workshop titled **"Beyond Pixels: Practical Digital Image Processing Using Python"** focused on introducing participants to the fundamental concepts and practical applications of Digital Image Processing (DIP) using Python programming. The session aimed to bridge the gap between theoretical knowledge and hands-on implementation by demonstrating how digital images can be processed, enhanced, analysed, and transformed using Python libraries such as OpenCV, NumPy, and Matplotlib.<br>The workshop covered essential image processing techniques, including image acquisition, image representation, pixel manipulation, image enhancement, contrast adjustment, histogram analysis, thresholding, arithmetic and logical operations, and geometric transformations such as translation, scaling, rotation, shrinking, and zooming. Participants were also introduced to spatial filtering techniques, noise removal using Gaussian and median filters, frequency-domain processing using Fast Fourier Transform (FFT), edge detection, and morphological operations such as erosion and dilation.<br>Through practical demonstrations and hands-on coding exercises, participants gained experience in implementing image processing algorithms and observing their effects on digital images. The workshop emphasized the importance of selecting appropriate processing techniques for different applications and encouraged participants to develop problem-solving skills through experimentation and programming. |

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**Event Coordinator**

**HOD - BCA**
Dr. Aruna Devi C MCA., M.Phil., Ph.D
Associate Professor & HOD-BCA,
Department of Computer Applications
Dayananda Sagar College of Arts, Science & Commerce
Shavige Malleshwara Hills, Kumaraswamy Layout
Bengaluru - 560 111

16/10/26

**IQAC Coordinator**

IQAC Co-ordinator
Dayananda Sagar College of Arts,
Science & Commerce
Kumaraswamy Layout, Bengaluru - 560 111

14/10/26

**Principal**

19/10/26

# DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE

SHAVIGE MALLESHWARA HILLS, KUMARASWAMY LAYOUT, BENGALURU 560-111

INSTITUTION'S INNOVATION COUNCIL

INTERNAL QUALITY ASSURANCE CELL (IQAC)

DEPARTMENT OF COMPUTER APPLICATIONS - BCA

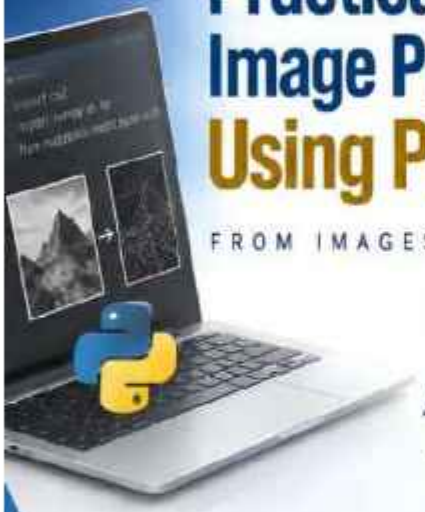
LEARN
EXPLORE
GROW

IDEAS
PEOPLE
POSSIBILITIES

WORKSHOP ON

# Beyond Pixels: Practical Digital Image Processing Using Python

FROM IMAGES TO INSIGHTS



*Images Ideas Impact*

RESOURCE PERSON



## Dr. Senthil Vadivu M

Assistant Professor, Department of Statistics and Data Science
Christ (Deemed to be University)



**DATE**
13 October 2026

**TIME**
9:00 AM – 4:00 PM

**VENUE**
Lab,
Building No. 17

**ABOUT THE SESSION**

A hands-on workshop to explore the fundamentals and real-world applications of digital image processing using Python.

PROCESS
ANALYZE
VISUALIZE
CREATE

FACULTY COORDINATOR | HOD - BCA | VICE PRINCIPAL | PRINCIPAL

www.dscasc.edu.in

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**College** affiliated to Bangalore University (BU),

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## Internal Quality Assurance Cell

### Glimpses of the Event




**Photograph 1:** Photograph of the programme during the inauguration



**Photograph 2:** The resource person addressing the participants on the theme of the programme.




**Photograph 3:** Students actively participating in the programme.



**Photograph 4:** The resource person addressing the participants.

**Postal Address:** 1st Stage, Kumaraswamy Layout, Bengaluru, Karnataka 560111

**Ph:** 080-42161767 **Email ID:** principal-dscasc@dayanandasagar.edu

**Website:** www.dscasc.edu.in

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Kumaraswamy Layout, Bangalore – 560111
(Affiliated to Bangalore University, Approved by AICTE, NAAC Accredited)

## Internal Quality Assurance Cell

### Department of Computer Applications - BCA

Name of the Activity: **Workshop**
**Topic: Seminar on " Beyond Pixels: Practical Digital Image Processing Using Python"**
***From Images to Insights***

**Date:13.10.2026** **CLASS : BCA V 'A' SEMESTER** **Time: 9.00 AM To 4.00 PM**

| Sl. No. | Student Name | Reg. No. | Signature 9:00 AM to 1:00 PM | Signature 2.00 PM to 4.00 PM |
|---|---|---|---|---|
| 1 | Sai Simha.N. | U03CJ24S0124 | | |
| 2 | Likith.R | U03CJ24S0080 | | |
| 3. | Thomas | U03CS24S0142 | | |
| 4 | MOHAMMED AAYAN | U03CJ24S0084 | | |
| 5 | Mohammed Tippu Sultan | U03CJ24S0089 | | |
| 6 | Roshan Shetty | U03CJ24S0120 | | |
| 7 | Punith.J | U03CJ24S0108 | | |
| 8. | Sirisha.N | U03CJ24S0129 | | |
| 9. | Trisha.R | U03CJ24S0143 | | |
| 10. | Neeraj.R | U03CJ24S0111 | | |
| 11 | K Mithil Kumar Reddy | U03CJ24S0075 | | |
| 12 | Bhuvagiri.Y | U03CJ24S0068 | | |
| 13 | Pranav P Reddy | U03CJ24S0110 | | |
| 14 | Sunil | U03CJ24S0132 | | |
| 15 | Sanjaden P.M | U03CJ24S0135 | | |
| 16 | Mohammed Lahal | U03CJ24S0086 | | |
| 17 | Chandana.K | U03CJ24S0062 | | |
| 18 | S.P.Dhakshathashree | U03CJ24S0123 | | |
| 19 | Tulasi.R. | U03CJ24S0144 | | |

| Sl. No. | Student Name | Reg. No. | Signature 9:00 AM to 1:00 PM | Signature 2.00 PM to 4.00 PM |
|---|---|---|---|---|
| 20. | Nasreen Taj | U03CJ24S0139 | Nasreen | Nasreen |
| 21 | Liftitha.A | U03CJ24S0081 | Liftitha | Liftitha |
| 22. | Pavithra k | U03CJ24S0102 | Pavithrak | Pavithrak |
| 23. | Namitha RH | U03CJ24S0098 | N-H-RH | NamithaRH |
| 24. | LAKSHMI R | U03CJ24S0079 | Lakshmi R | Lakshmi R |
| 25 | AISHWARYA.N | U03CJ24S0045 | Aishwarya | Aishwarya |
| 26 | AALIYA KHANUM | U03CJ24S0042 | Aaliya | Aaliya |
| 27 | Mohammad Rizwan | U03CJ24S0083 | Rizwan | Rizwan |
| 28 | Nitheesha | U03CJ24S0099 | | |
| 29 | Bhargavi.N | U03CJ24S0057 | | B.N |
| 30 | Yashasri.K | U03CJ24SD153 | | Yash |
| 31 | Monika . U | U03CJ24S0092 | | Monika |
| 32 | Neeraj.R | U03CJ24S0111 | Neeraj R | |
| 33 | Vaibhav Kanwar | U03CJ24S0147 | Vaibhav | Vaibhav |
| 34 | Vijaya Shivani | U03CJ24S0150 | Vijaya Shivani | Vijaya Shivani |
| 35 | PAVAN.R | U03CJ24S0101 | | |
| 36 | Rishav kanojia | U03CJ24S0114 | | |
| 37 | Priyanka Singh | U03CJ24S0107 | Priyankasingh | Priyankasingh |
| 38 | Ritesh Rangar | U03CJ24S0116 | Ritesh. | Ritesh. |
| 39 | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Event Co-ordinator : Navya. A

Signature: A. Navya

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## Internal Quality Assurance Cell

### STUDENT FEEDBACK FORM

**Name of the Student:** Priyanka Singh **UUCMS No.** U03CJ24S0107

**Course:** BCA **Sem:** 5th **Section:** 'A'

**Name of Activity:** Practical Digital Image Processing Workshop

**Organized by:** _____ **Date:** 13/10/26

**Resource Person:** Senthil Vadivu M **Programme/Class:** _____

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**Rating Scale: 5 – Excellent | 4 – Very Good | 3 – Good | 2 – Satisfactory | 1 – Needs Improvement**

| No. | Feedback Parameter | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|
| 1 | Relevance of the activity | ☑ | ☐ | ☐ | ☐ | ☐ |
| 2 | Quality and clarity of content delivered | ☑ | ☐ | ☐ | ☐ | ☐ |
| 3 | Effectiveness of the resource person/facilitator | ☑ | ☐ | ☐ | ☐ | ☐ |
| 4 | Interaction and student participation | ☑ | ☐ | ☐ | ☐ | ☐ |
| 5 | Achievement of the intended learning outcomes | ☑ | ☐ | ☐ | ☐ | ☐ |
| 6 | Improvement in my knowledge/skills through the activity | ☑ | ☐ | ☐ | ☐ | ☐ |
| 7 | Ability to apply the learning gained | ☑ | ☐ | ☐ | ☐ | ☐ |
| 8 | Organization and coordination of the activity | ☑ | ☐ | ☐ | ☐ | ☐ |
| 9 | Overall satisfaction with the activity | ☑ | ☐ | ☐ | ☐ | ☐ |

**Learning Outcome / Student Response**

**Important learning/skill gained from this activity:**

Segmentations, Filtering images, otud Threshold values

**Suggestion for improvement / future activity:**

Any Activity Releated to Development [Data Science]

**Would you recommend similar activities in future?** ☑ Yes ☐ No

**Overall Rating:** ☑ Excellent ☐ Very Good ☐ Good ☐ Satisfactory ☐ Needs Improvement

**Signature of the Student:** Priyanka Singh

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**Ph:** 080-42161767 **Email ID:** principal-dscasc@dayanandasagar.edu
**Website:** www.dscasc.edu.in

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## Internal Quality Assurance Cell

### STUDENT FEEDBACK FORM

**Name of the Student:** Vaibhav Kanwar **UUCMS No.** U03CJ24S0147

**Course:** BCA **Sem:** V **Section:** A

**Name of Activity:** Workshop on Practical Digital Image Processing, Python

**Organized by:** _____ **Date:** 13/10/2026

**Resource Person:** Dr. Senthil Vadivu M **Programme/Class:** _____

**Rating Scale: 5 – Excellent | 4 – Very Good | 3 – Good | 2 – Satisfactory | 1 – Needs Improvement**

| No. | Feedback Parameter | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|
| 1 | Relevance of the activity | ☐ | ☑ | ☐ | ☐ | ☐ |
| 2 | Quality and clarity of content delivered | ☐ | ☑ | ☐ | ☐ | ☐ |
| 3 | Effectiveness of the resource person/facilitator | ☑ | ☐ | ☐ | ☐ | ☐ |
| 4 | Interaction and student participation | ☐ | ☑ | ☐ | ☐ | ☐ |
| 5 | Achievement of the intended learning outcomes | ☐ | ☑ | ☐ | ☐ | ☐ |
| 6 | Improvement in my knowledge/skills through the activity | ☐ | ☑ | ☐ | ☐ | ☐ |
| 7 | Ability to apply the learning gained | ☐ | ☑ | ☐ | ☐ | ☐ |
| 8 | Organization and coordination of the activity | ☐ | ☑ | ☐ | ☐ | ☐ |
| 9 | Overall satisfaction with the activity | ☐ | ☑ | ☐ | ☐ | ☐ |

**Learning Outcome / Student Response**

**Important learning/skill gained from this activity:**

Operations related to Digital Image Processing

**Suggestion for improvement / future activity:**

No Suggestions

**Would you recommend similar activities in future?** ☑ Yes ☐ No

**Overall Rating:** ☑ Excellent ☐ Very Good ☐ Good ☐ Satisfactory ☐ Needs Improvement

**Signature of the Student:** Vaibhav

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