

BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH



DEPARTMENT OF COMPUTER SCIENCE

Report of the Departmental Activities , 2023

1. **Workshop/Seminar/Conference/Invited or Extension Lecture:** Workshop
2. **Online/ Offline:** Offline
3. **Institutional/ International/ National/ Regional:** Institutional
4. **Title:** One Day Workshop on Digital Image Processing using Python
5. **Date:** 5th April, 2023
6. **Organizers:** Department of Computer Science, R&D Cell , IQAC and Bijoy Krishna Girls' College , Howrah
7. **Funding (with proof) :** College

8. Collaborators (with proof): Ardent Computech Pvt. Ltd.

 <p>ARDENT COMPUTECH PVT. LTD. www.ardentcollaborations.com An ISO 9001:2015 Certified Company</p>	<p>Module No-132, Gr. Floor, SDF Building Sector-V, Salt Lake, Kolkata-700091 Phone 033 4007 3507 Mobile : +91 96744 89000 / 96747 35470 Email : ardent.kolkata@gmail.com</p>
<p>To The Principal Bijoy Krishna Girls' College Howrah</p>	
<p>Date : 05-04-2023</p>	
<p><u>Sub : Letter of Collaboration - SDP on Digital Image Processing using Python</u></p>	
<p>Dear Madam,</p>	
<p>Ardent Computech Pvt. Ltd. Module -132, SDF Building, Sector – V, Salt Lake , Kolkata – 700091 is honoured to collaborate with Bijoy Krishna Girls' College, Howrah for conduction of student development programmes for the students of Department of Computer Science of the Institution.</p>	
<p>Thanking you,</p>	
<p>Sincerely,</p>	
<p> Rajmohan De Sarkar Director – Technology Services Ardent Computech Pvt. Ltd. (An ISO 9001-2015 Company) SDF Building, Ground Floor, Module Number – 132, Sector 5, Salt Lake Kolkata, Pin – 700 091.</p>	
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9. Resource Person:

Mr. Mahendra Datta (Data Scientist, Ardent Computech Pvt. Ltd.)

10. Number of participants (with proof): 39

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11. Report on the programme:

Using computer algorithms to do image processing on digital images is known as digital image processing. Digital image processing has significant benefits over analogue image processing as a subfield or area of digital signal processing.

It permits the application of a much wider variety of algorithms to the input data and can prevent issues like the accumulation of noise and signal distortion during processing. Digital image processing can be modeled as a multidimensional system because images can exist in at least two dimensions and possibly more.

In particular, digital image processing is the only practical technology for:

- Classification
- Feature extraction
- Pattern recognition
- Multi-scale signal analysis

One day workshop on “*One Day Workshop on Digital Image Processing using Python*” was organized by the Departments of Computer Science, R&D Cell, IQAC and Bijoy Krishna Girls’ College, Howrah. Students had taken part in this workshop and they, all thoroughly had enjoyed the sessions. A participation certificate had been given to all participants.

12. Programme Outcome:

- I. Understand the components of image processing algorithms.
- II. Apply Python tools to build and evaluate predictors.
- III. How to prepare data, deal with missing data and create custom data analysis solutions for different industries.
- IV. Familiarity with Python installation, syntax and design.
- V. At the end of this workshop, Mr. Mahendra Dutta demonstrates the designing of small running projects.

13. Poster/ Brochure/ Banner:

One Day Workshop

DIGITAL IMAGE PROCESSING USING PYTHON

organised by,
Department of Computer Science,
R&D Cell , IQAC,
Bijoy Krishna Girls' College, Howrah
in collaboration with
Ardent Computech PVT. LTD.

 Computer Lab(L24 & L25),
BKGC

 Wednesday, April
5th 2023 , Time: 11am

Register at:
<https://forms.gle/nZGgoA8hKx6qFCXg9>

Come and join us!

14. Pictures (Geotagged preferably):

