Bankura Christian College

Certificate Course on

PYTHON

An Initiative of

ELECTRONICS & SCIENCE PROGRAMME

For 5th Semester Students

BANKURA CHRISTIAN COLLEGE
CERTIFICATE COURSE ON PYTHON
[An Initiative of the Department of Electronics & Science Programme]

ABOUT THE COURSE: IN THE MODERN DIGITAL ERA COMPUTER TECHNOLOGY IS NOT NEGLIGIBLE TECHNOLOGY. AND FOR THIS TECHNOLOGY WE NEED PROGRAMMING KNOWLEDGE TO DEVELOP DIFFERENT SOFTWARE WHICH ARE USEFUL IN OUR DAILY LIFE. PYTHON PROGRAMMING LANGUAGE IS VERY MODERN, USER FRIENDLY, AND VERY MUCH DYNAMIC. THROUGH THIS CERTIFICATE COURSE THE LEARNERS WILL BE VERY BENEFICIAL FOR THEIR TECHNOLOGICAL DEVELOPMENT.

Course content & Syllabus

Content	Duration in hours
Basics of Python • Starting right from installing the required tools to covering topics like mathematical operators, strings, accepting user input, string operations, variables etc.	6
Data Types • Type of data, integer, float, string, list, tuple, dictionary etc.	3
Control structures • While & for loop, if statement.	4
Functions • Modules & packages, Library function, User define functions; file handling, OOP in Python, regular expressions.	3
Data analysis • Tools and techniques used to perform data analysis. NumPy, Pandas.	5
Graphical Users interface • Details on Tkinter.	7
Project	2
Assignments	

Course Benefits:
- Learner can get complete understanding of Python from scratch
- They can learn Python for Data Science and Machine Learning
- They can develop simple Python programs for solving real life problems.
- They can write your own Custom Modules
- They can lean data analysis with Pandas and NumPy
- They can learn Graphical User Interface (GUI) in Python

Co-ordinator(s) of the Course: Sri Dulal Chandra Sahana (99339167576)
SACT, Department of Computer Science
Bankura Christian College

Other Course Faculty: Pamela Dutta

Eligibility Criteria: All admitted 5th Sem students of the Department of Electronics & Science Programme

Course Duration: 30 hours within the period from 08.09.2023 to 19.12.2023 for 5th Semester Students
Mode of Class: Blended Mode

Course Fees: 600/-

Course Commencement From 08.09.2023 on every Tuesday: 01.00 p.m.- 02:00 p.m. & Friday: 03.00 p.m.- 04:00 p.m.

Course Attendance: 75% compulsory attendance for obtaining Certificates

Course Assessment: The evaluation consists of two parts:
(1) continuous evaluation through assignments and
(2) term end examination in the form of submission of a project work / term paper followed by a MCQ based exam. Submission of assignment and project work/ term paper is compulsory. The final score obtained in the subject is in the following form:
• 30% weightage is assigned to marks obtained in assignments;
• 30% weightage is assigned to regular attendance (both OFFLINE + ONLINE) in classes conducted by the Co-ordinator.
• 40% weightage is assigned to marks obtained in the final MCQ based exam.
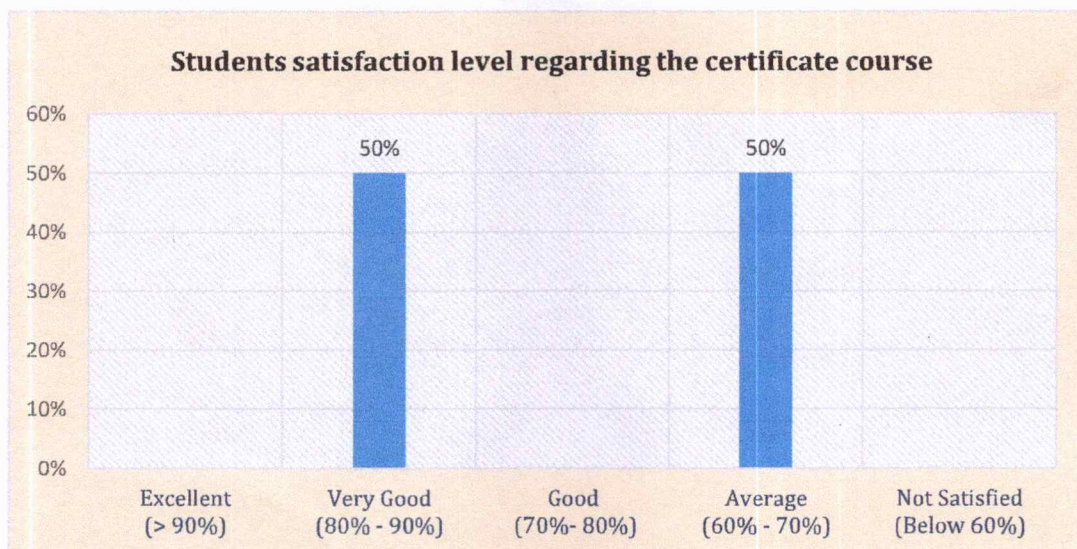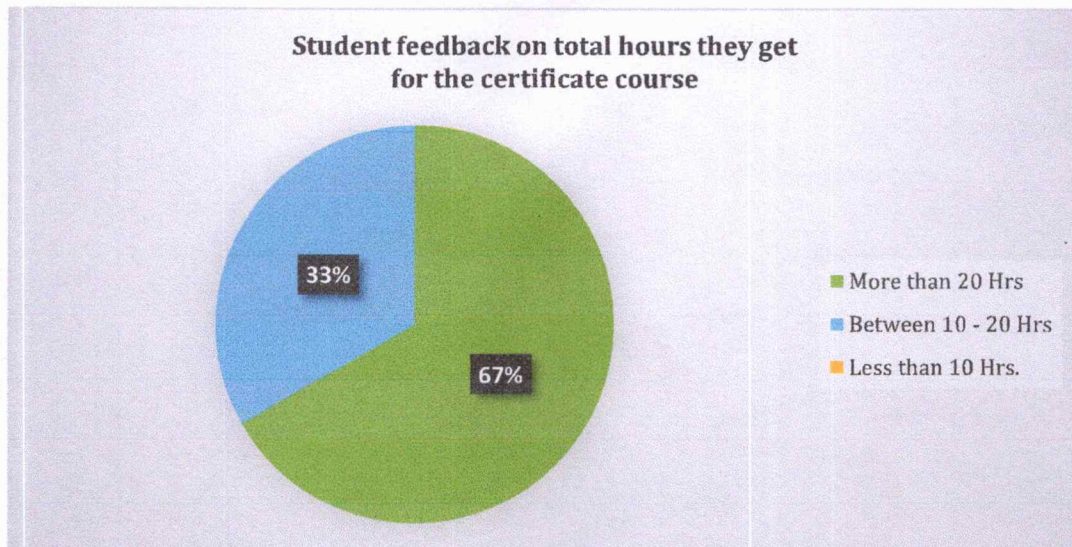
Examination and Certification:
- Assignments to be uploaded from time to time
- In the final exam questions will be multiple choice type
- On successful submission of assignments and qualifying in the examination certificates will be provided to the candidates.

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Students suggestions to improve the certificate course
PYTHON

More detailed class sessions, theory and practical classes should be 50/50

Students feedback regarding certificate course

PYTHON

Student feedback on total hours they get for the certificate course

- More than 20 Hrs
- Between 10 - 20 Hrs
- Less than 10 Hrs.

33%

67%

Students satisfaction level regarding the certificate course

Excellent (> 90%)	Very Good (80% - 90%)	Good (70%- 80%)	Average (60% - 70%)	Not Satisfied (Below 60%)
	50%		50%	

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Total Admitted Students	Total Students Appeared for Final Examination	No. of students discontinued the Certificate Course
18	18	00