Report: Value Added Course on "Basic Statistics for Data Analysis"

The Department of Computer Science conducted a VAC on "Basic Statistics for Data Analysis" from **14th March till 19th March, 2022** in offline mode. The sessions were of 60 mins in duration and were taken by Bertrand Dkhar, faculty member, Department of Computer Science.

Registration for the VAC was open to all students of 4th and 6th Semester. There were 33students who registered, out of which 25 were chosen, on a first come first served basis. The class comprised of students from the departments of BCA, Computer Science, Economics, Environmental Science, Geography, Khasi, Mathematics, Political Science and Sociology.
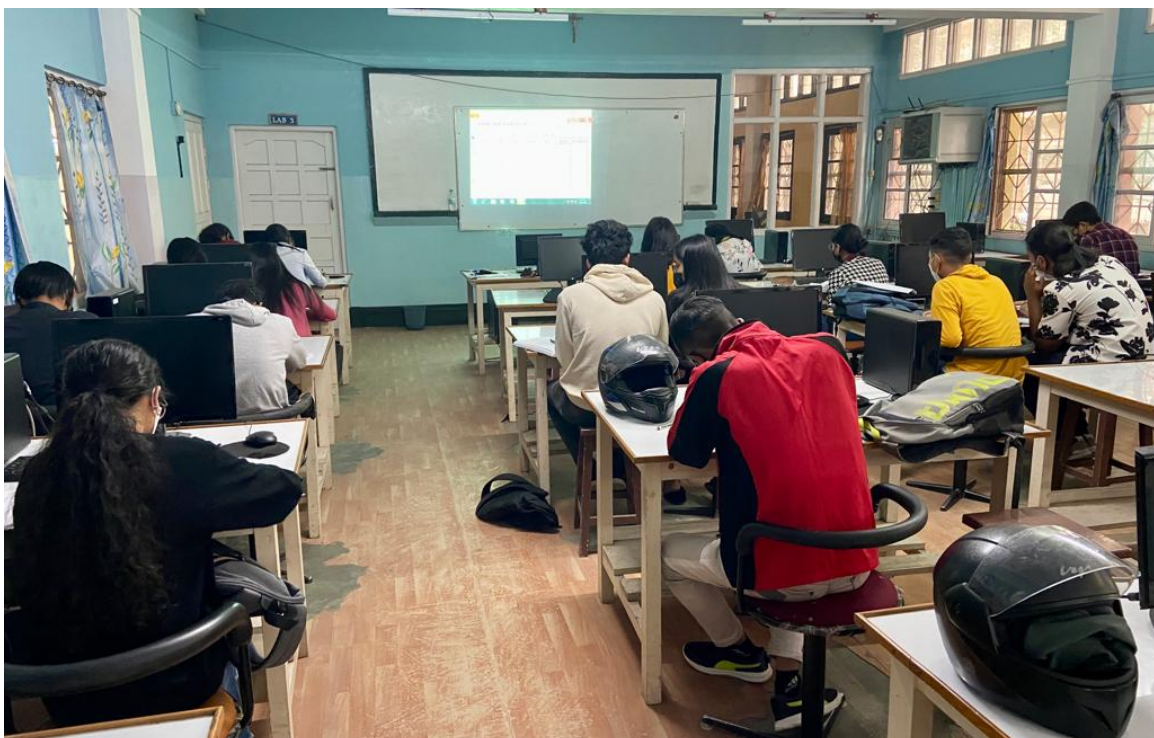
The primary goal of the VAC was to introduce students from various disciplines to statistics and its importance to data analysis. A couple of prerequisites for the course, namely, arithmetic and elementary algebra, were desirable from the participants so that they are able to better appreciate the topics covered. Students were also given appropriate and self-contained handouts to augment the classes. For the evaluation of students, assignments and in-class questions/reviews based on discussions and material covered were given, along with a cumulative end-of-course test.

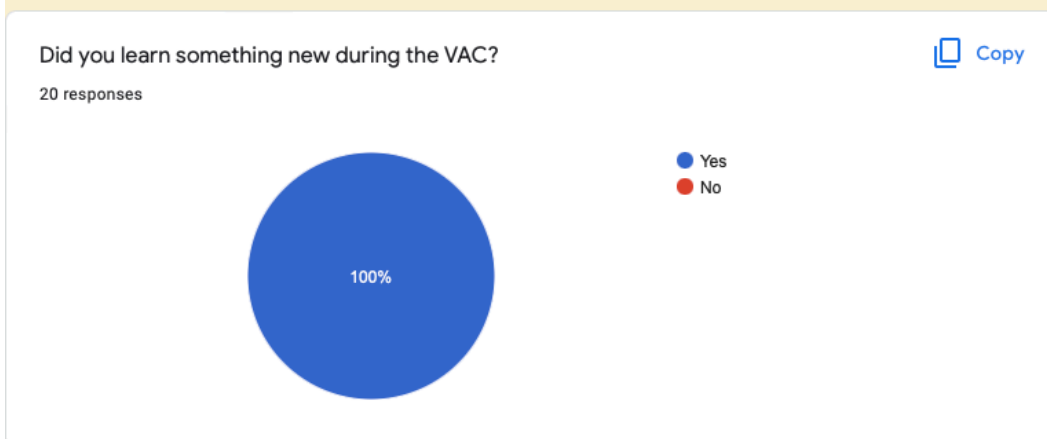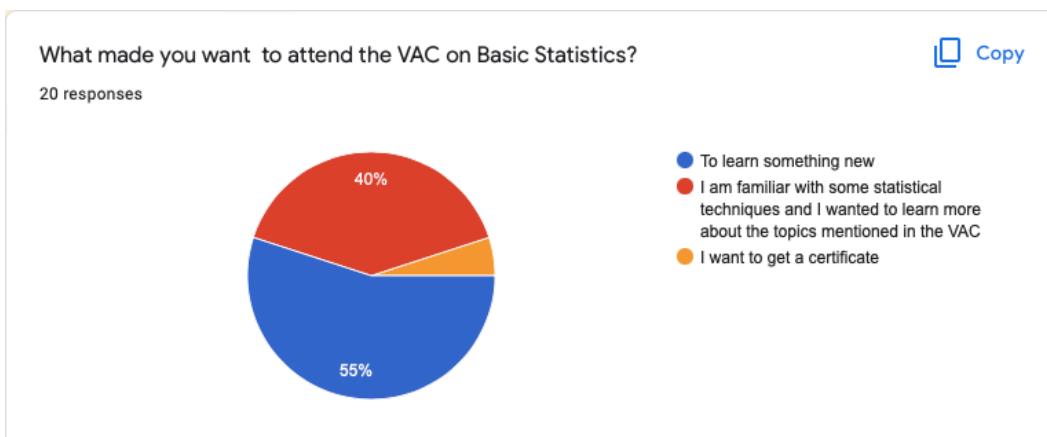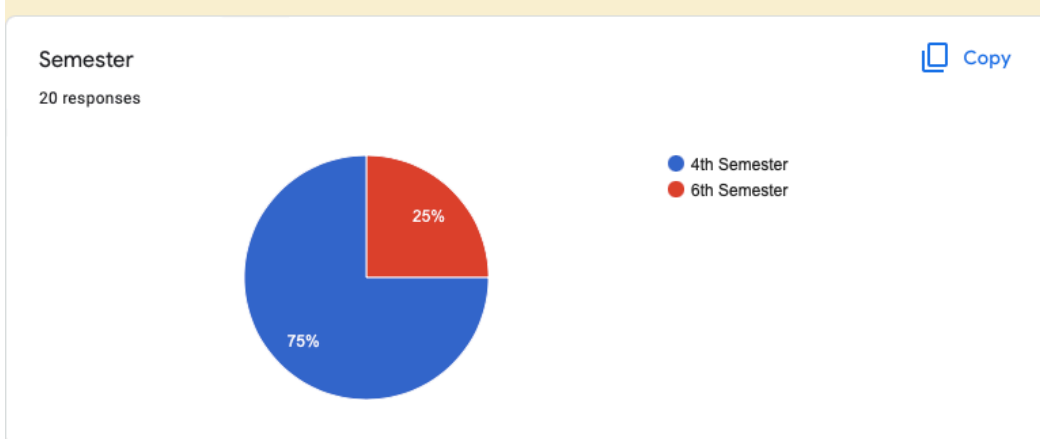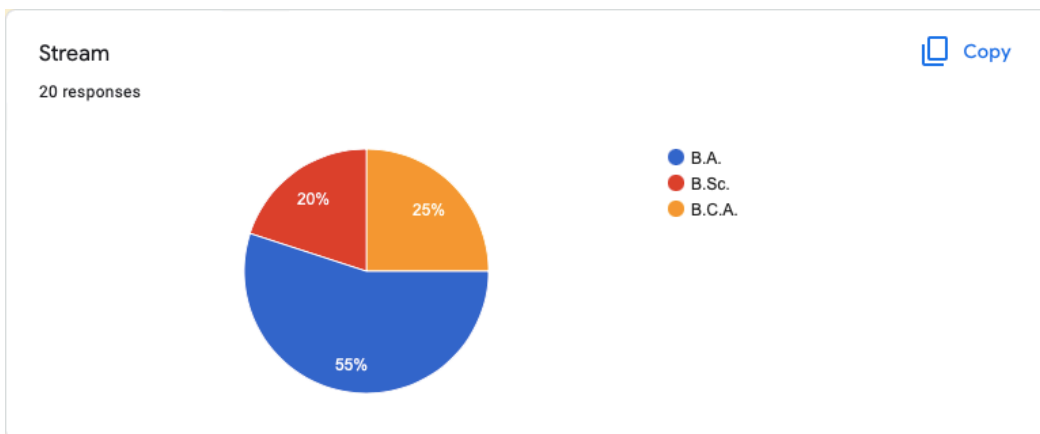*It may be mentioned that there was no fee taken from the students.*

The course content of the VAC was as follows:

-> Introduction to Data Science

-> Types of variables: Nominal, Ordinal, Interval and Ratio

-> Measures of Central Tendency: Mean, Median, Mode

-> Measures of Dispersion: Variance and Standard Deviation

-> Data Normalization: Min-Max, Decimal Scaling, Z-score

-> Correlation Analysis

-> Linear Regression

A total of 19 students completed all the assignments and test, thus making them eligible for certificates. Eight students received the highest grade of A+.

Feedback from students was good and encouraging

Stream
20 responses

- ● B.A.
- ● B.Sc.
- ● B.C.A.

20% 25% 55%

Copy

Semester
20 responses

- ● 4th Semester
- ● 6th Semester

25% 75%

Copy

What made you want to attend the VAC on Basic Statistics?
20 responses

- ● To learn something new
- ● I am familiar with some statistical techniques and I wanted to learn more about the topics mentioned in the VAC
- ● I want to get a certificate

40% 55%

Copy

Did you learn something new during the VAC?
20 responses

- ● Yes
- ● No

100%

Copy

Will the topics that were taught be useful and applicable in your (honours) subject?

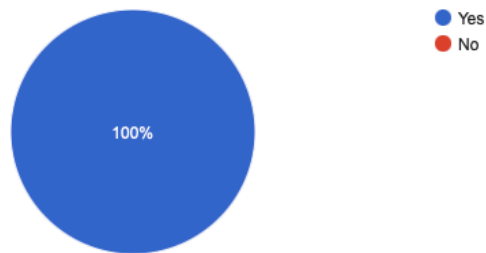20 responses

- Yes
- No

95%
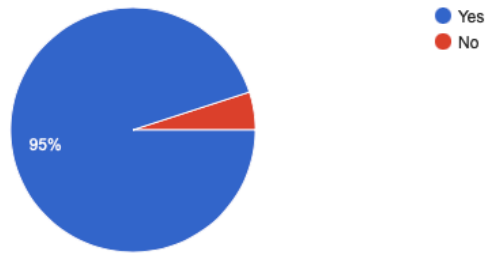
Are you now able to to look at data differently? (i.e., categorise it)
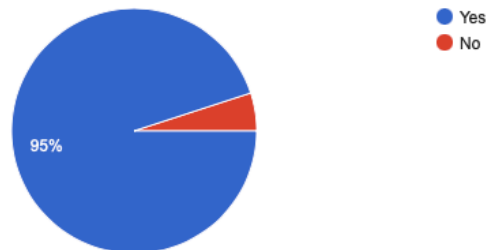
20 responses

- Yes
- No

100%

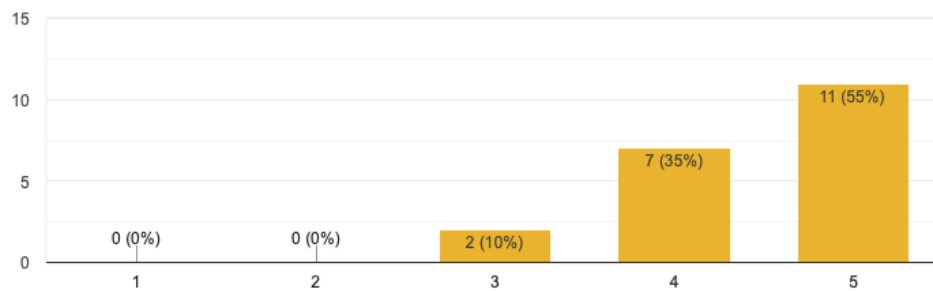## Were the topics taught with examples that you were able to understand?

20 responses

- Yes
- No

95%

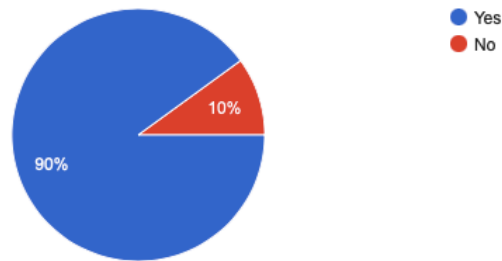## Was the reading material provided by the instructor easy to understand?

20 responses

Rating	Count
1	0 (0%)
2	0 (0%)
3	2 (10%)
4	7 (35%)
5	11 (55%)

Was the instructor able to take all classes as given in the schedule?

20 responses

- ● Yes
- ● No

90%

10%

Was the instructor able to effectively communicate the subject material?

20 responses

- ● Yes
- ● No

100%
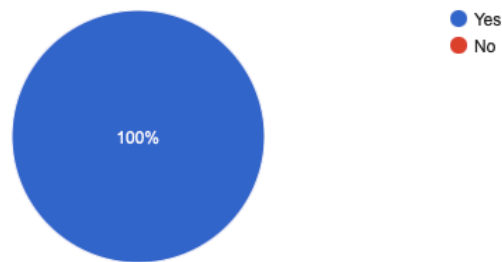
What is your overall rating for the instructor?

20 responses

Rating	Count
1	0 (0%)
2	0 (0%)
3	2 (10%)
4	1 (5%)
5	17 (85%)
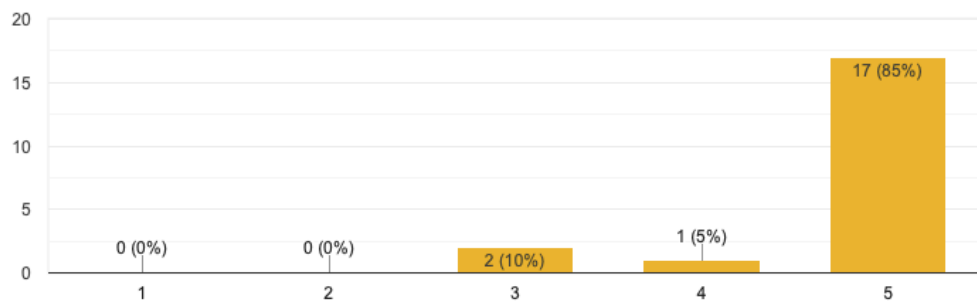
After attending the VAC, do you feel Statistics is important subject to learn/understand?

20 responses

- ● Yes
- ● No
- ● Maybe

90%

10%

Copy
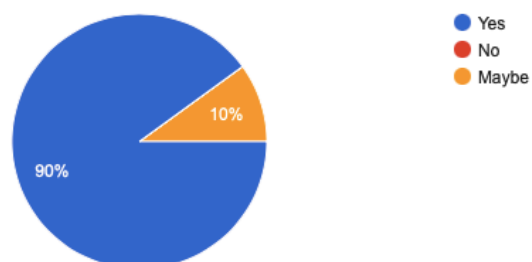
Kindly share a few words about your experience (and suggestions) in this VAC.

20 responses

..

A great experience. Sir was able to simplify the topics in such a way that even a student with little prior knowledge on the topic would be able to understand.

It was really interesting, I learned alot from this and I'll make sure I'll use my knowledge in my studies/project

In this VAC i learn something about computer technology .Computer science help us to develop problem solving and essential skill for life.

Iam truly thankful to Computer Science Dept. for conducting such valuable crash course on basic statistics to us, and I highly praise and thank sir Bertrand for being so patient with us and explaining things with so much passion that made every class worth attending. Iam looking forward to being a part of another such exciting value added course in near future if that happens.

The VAC provided has been a major help in improving my basic statistics knowledge as most of the topics that were taught relate to my current field of study and I'm grateful that I've required a lot of knowledge and that I am now able to understand my studies better.