

# Feedback Report

## On

### Criminal Justice and Data Analysis - 6

This course was offered from July to September 2023. A questionnaire was sent via electronic mail to all the users of Criminal Justice and Data Analysis after the completion of the course.

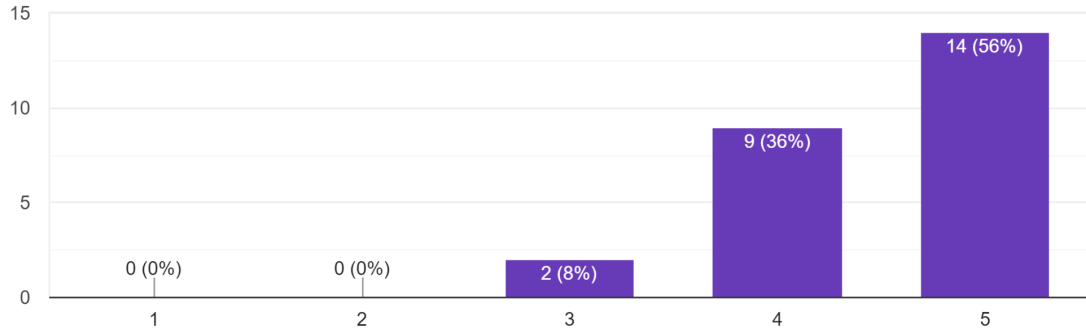
The **total of 25 responses** received are grouped into Part A and Part B. **Part A** summarises all the responses of each multiple choice/rating question in graphical form and **Part B** consists of the responses of all open questions.

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## Course Format

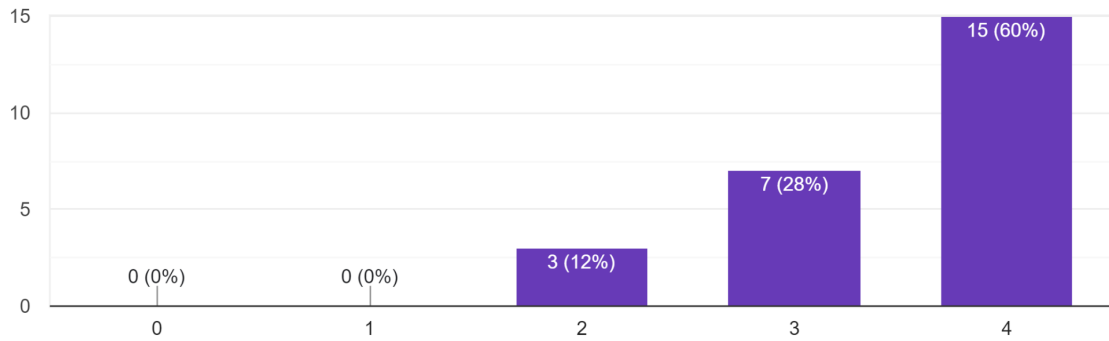
The course objectives were clear to me

25 responses



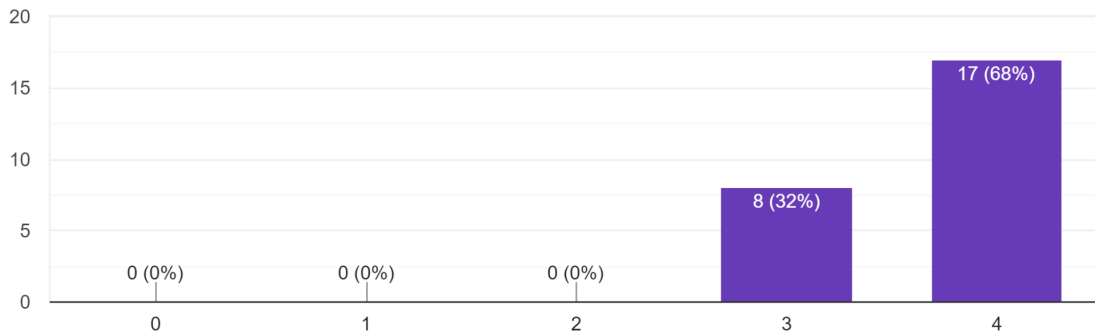
The course design was thoughtful and appropriate for a 12-week duration

25 responses



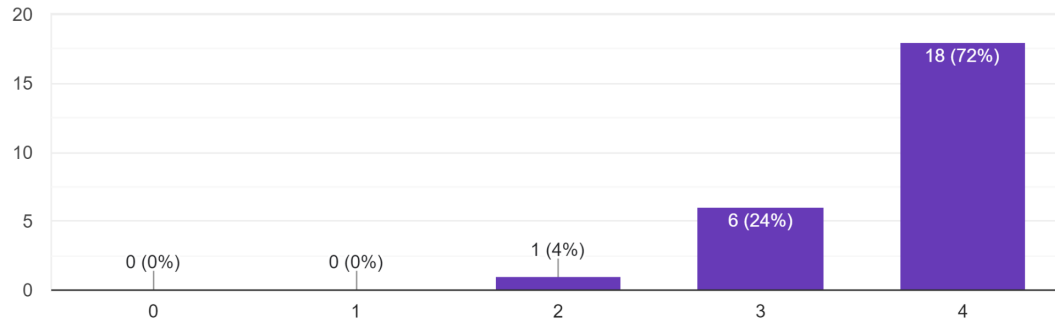
The course stimulated my thinking about the topics it covered

25 responses



The system of assignments, quizzes, and exercises was helpful in learning

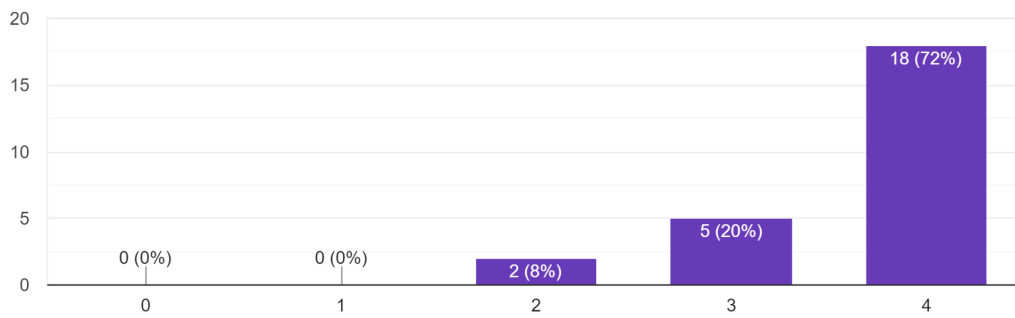
25 responses



## Course Administration

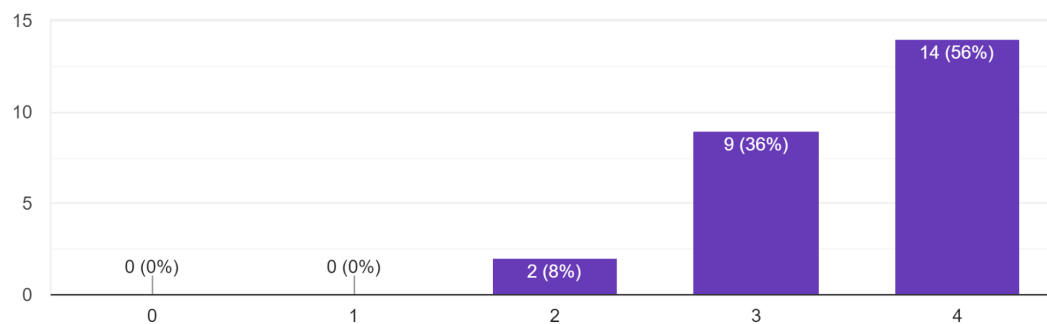
The online system was easy to navigate in learning and submitting assignments

25 responses



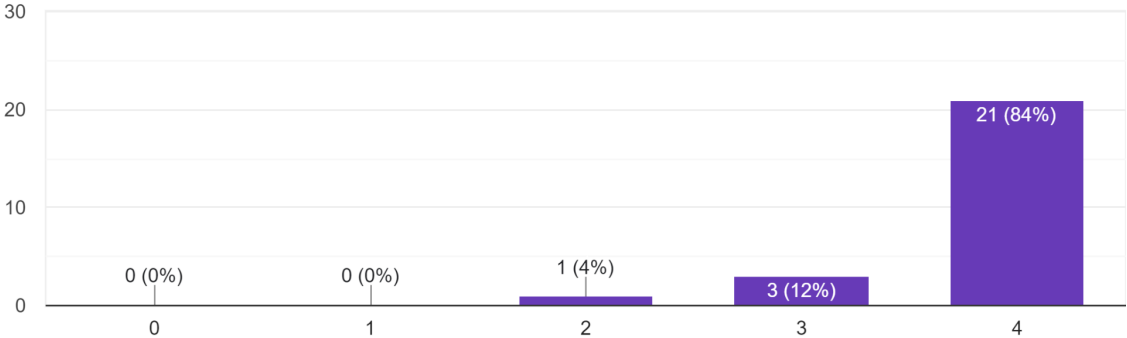
The active learning classroom format was very useful in learning from one another

25 responses



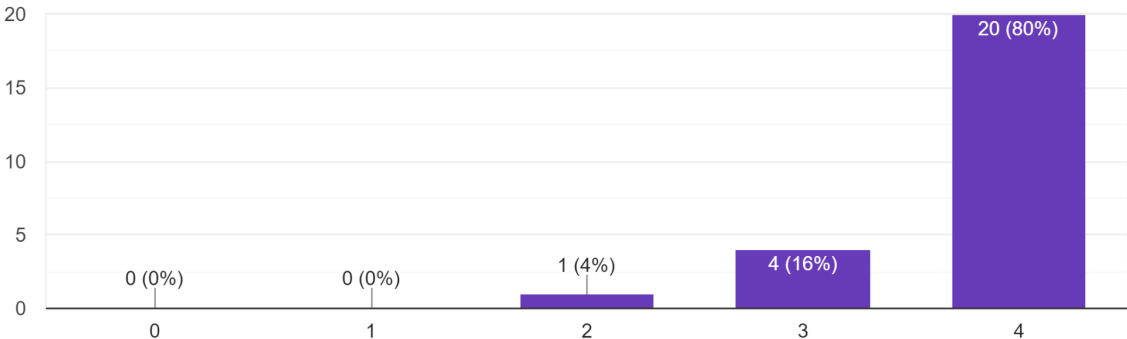
The course administrators were easily available when needed through email/ system tools and by phone

25 responses



The class format was helpful in asking questions and understanding the contents

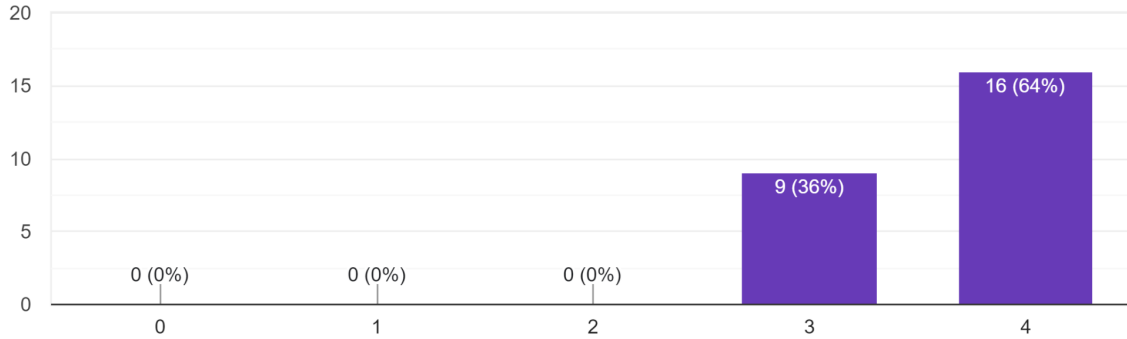
25 responses



## Learning From the Course

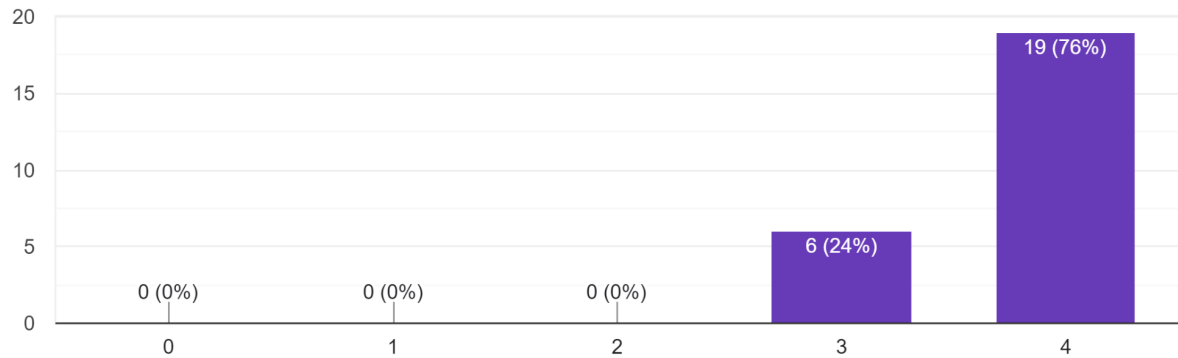
The readings and exercises were very useful in learning about criminal justice issues

25 responses



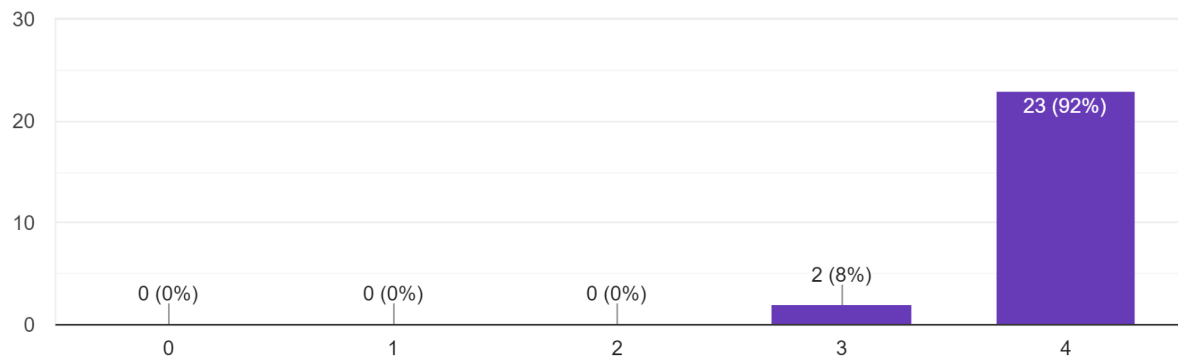
The readings helped introduce new ideas about policing and related issues

25 responses



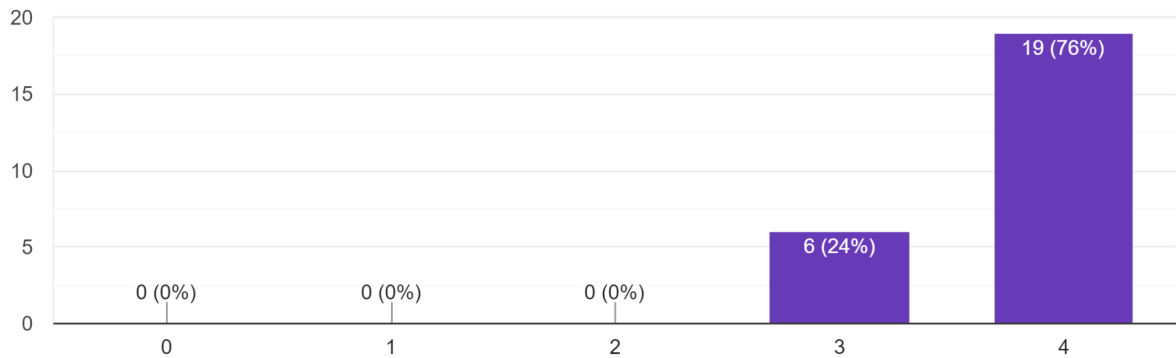
I appreciate efforts made by the instructors to think differently and broadly about Police/  
CJUS/Data Issues

25 responses



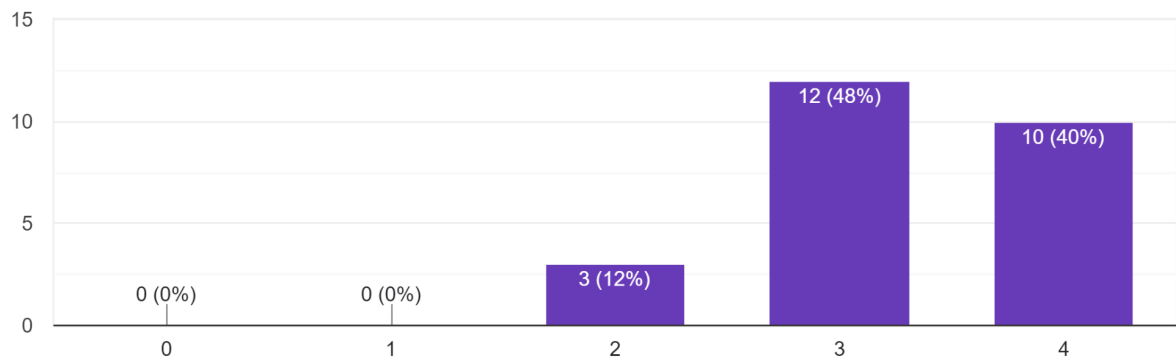
The feedback upon assignments and exercises was useful in understanding the contents of readings

25 responses



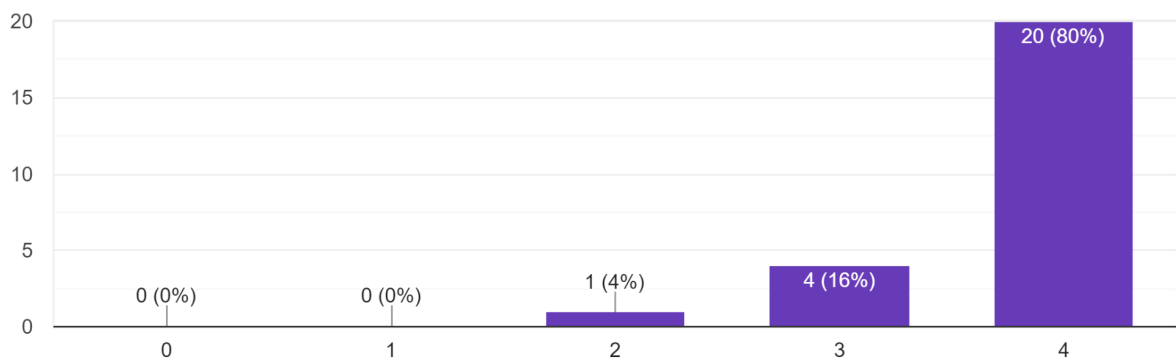
The guest lectures were very useful in learning about new topics

25 responses



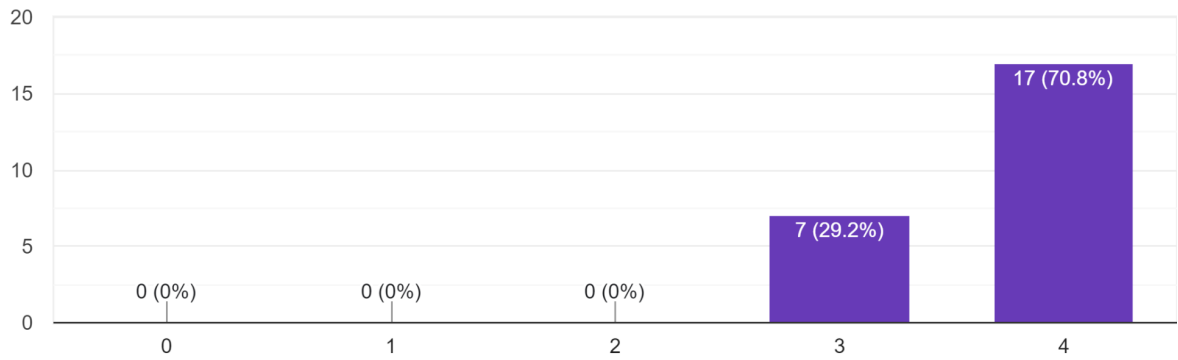
The instructors motivated me to do my best in the course

25 responses



The project was helpful in applying course learning to my work

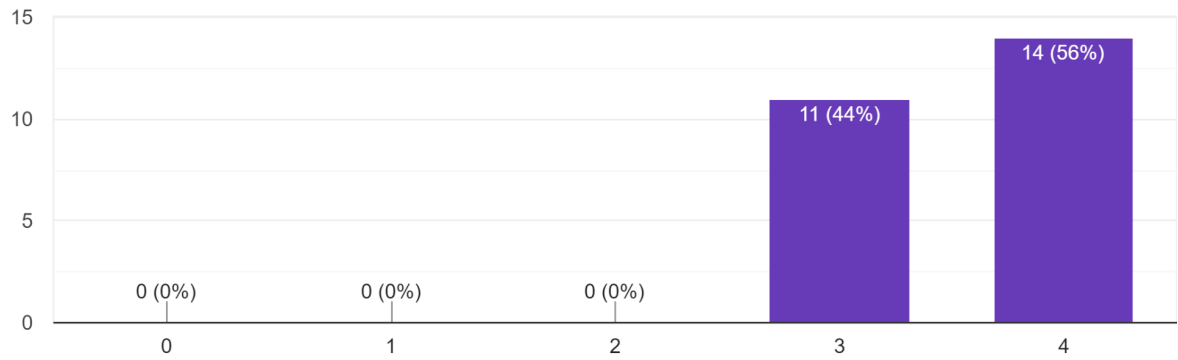
24 responses



### Course Outcome

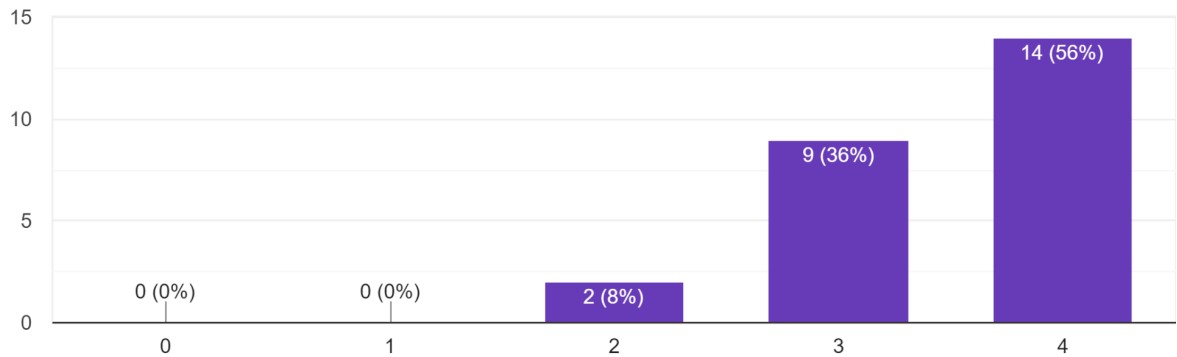
I learned a lot in this course

25 responses



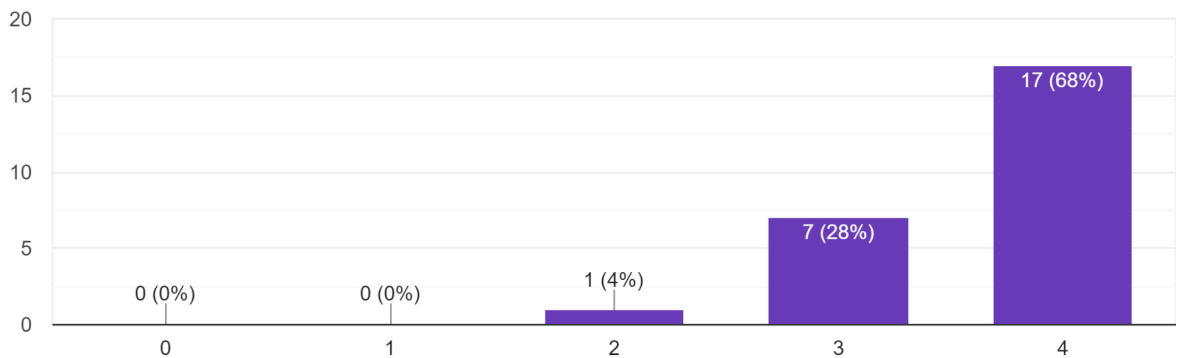
I developed the ability to apply data analytical techniques in criminal justice problems

25 responses



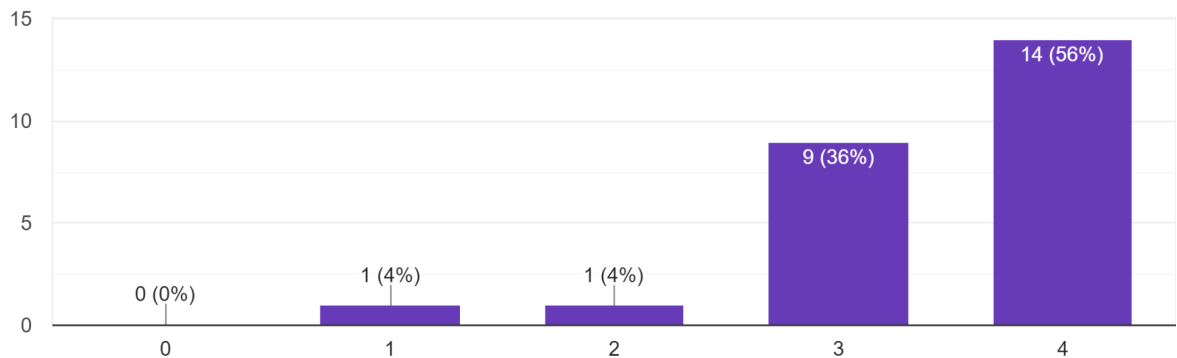
I believe the course has helped me in being creative about my work-related functions

25 responses



Informal class sessions helped me to develop good communication skills

25 responses





## About the various Modules

### Module 1



### Module 2



### Module 3



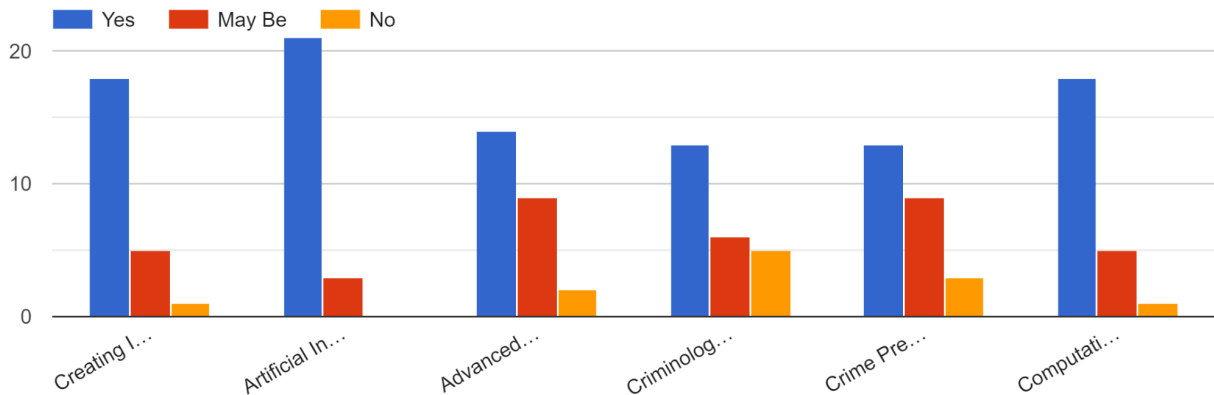
### Module 4



### Module 5



Would you be interested in taking the following 4-week [8 lectures] course modules that will require some programming/mathematics/qualitative methods?



## PART - B

### Open-Ended Questions

**What did you like most about the course? Give reasons if possible.**

**24 responses**

- Graph Theory was very useful which I I have used in my profession with the data available at ny work place and was able to use it my profession
- It was a very compact course that covered statistical techniques, data visualisation and AI/ML aspects covered very well. The reference materials were very appropriate to build up further after the class.
- Simplicity in presenting new ideas to class
- I like the instructor Dr. Arvind Verma's teaching style the most. He handles variety of people with different backgrounds and varied self esteems, self pride and Ego's so nicely is not an easy task.
- Simple yet effective, implementable solutions were taught.
- A link to the realities of Indian policing.
- Prof Arvind has deep understanding of the way police works in India and US. Therefore it was very enriching to interact with him
- Class composition. students were drawn from diverse background and seniority which helped in getting varied perspectives
- Going beyond theory and applying real time techniques
- Interaction of Arvind Sir and explanation of vast topics within short duration
- Thoroughly enjoyed the course. It was a total wonderful learning experience attending this course alongside with very senior police officials and they turning as team mates for group presentations with a lot of experience being shared by them. Acquired skills how to use data visualisation in presentations.

- I like the technical and practical techniques in CJDA , which we were taught in this lesson. By the graphs and tools we learn lot of new things very easily.
- Coordination
- I got ideas about Graph theory and Data Visualization technique. This can be implemented in our state; Kerala
- clear and precise content and delivery
- Group Discussion.. Because my group members have excellent knowledge.
- The content, and the format of teaching.
- The course format
- Data Visualization and Research Design.
- Course content was excellent. Classes on network analysis were very good.
- The course gave me totally new perspective regarding use of data in Criminal Justice System administration, which was neglected while doing field postings.
- Actual conversation with law enforcement officers on the real situation of policing. Also the presence of non police officials who gave feedback on their perception of policing in India was very welcoming.
- Interactive sessions and flexible timings for working individuals
- Learnt new techniques

### **What did you like least about the course? Give reasons if possible**

#### **21 responses**

- None, All of the topics were very relevant in my area of work
- Reading materials are very heavy
- Sometimes groups were not interactive enough.
- Group exercises. They should be individual.
- Too much reading material
- There could have been better interaction among the students. In spite of best efforts by the professor very few people were involved in discussions
- Tools were not discussed that could be used by us
- More number of assignments
- I like that from this learning our policing system will improve the working efficient and quality
- nothing specific
- less hands on in visualization techniques
- Online class.. Some time buffering.
- Motivational guest lecture
- Machine Learning. Got quite complicated.
- Motivational lectures. We can replace that with discussion on successful initiatives adopted by State police departments across country.
- An offline interaction is always more welcomed as communication becomes key to understanding.

### **What other topics would you like to be included in such a course?**

#### **21 responses**

- Data collected in advanced Forensic science may be included
- Possibly a bit of programming techniques like Python, R.
- A session on data integrity cleaning etc

- Theories of crime and criminal behaviour needed to be included from angle of role of police as not only crime investigator but as social engineer.
- More emphasis on data visualisation tools, with already implemented case studies being taught, for better understanding and engagement.
- Using data visualization tools. Gephi is very clunky and doesn't work with Excel.
- Comparative knowledge about data analysis in law enforcement in Europe, China, Asia Pacific etc.
- Details of free software and tools that can be used in data analytics, a more interactive participant set
- Offline Group Discussions between civilian participants and police at the IIT campus at least once or twice in a year
- More focus on Cyber Security
- I like to include programming courses related to the policing system.
- Some programming techniques can also be included
- AI
- Computer languages like.. Python, Java
- hands on exercises on machine learning exercises
- Cyber Security should also be included
- More project design examples. More readings on research design.
- More discussion on network analysis
- Crime Science is a booming field and a closely related part of Theoretical Criminology. It would provide great service to the objective of this course.
- More on network and graph analysis. Especially their use in investigation.

### **What guest lecture topics you would like to include in such a course?**

#### **20 responses**

- Guest Lectures may be included who have effectively implemented POP
- Practical applications of the techniques
- Session which explained Criminal Network System From West Bengal
- Police Psychology and crime investigation, Lacunas in criminal justice system and suggestions to overcome it.
- Guest lectures on data visualisation tools implemented by field officers.
- More on AI/
- A guest speaker from Europe, China, Australia, Indonesia, Asia Pacific etc.
- Exposure to data analysis tools and experts in this field
- Sharing of field experience and learnings
- Cyber related crimes
- How to investigate and create tools for such investigation.
- Python Programming
- counterfactual errors in data analysis; correlation and causation, inadequacy of data analysis and pitfalls
- Programming structure... Like.. Back end front end
- Access to different databases and usage of ML
- Topic covered by Sh. Sanjay Singh IPS can be included.
- Topics related to the course content.
- Cops who have used tech in investigation

### **Will you recommend this course to others? 23 responses**

- Yes I will . it will be useful for others.
- Yes. Certainly.
- Resoundingly
- Definitely
- Yes. Most definitely.

### **How likely is it that you will take another such course? 23 responses**

- Very much
- May Be If I Got Enough Time For It
- Surely i take another such course on Criminology related topics.
- Extremely likely
- Most likely. I have already recommended to many
- Highly likely
- Absolutely
- If I get another opportunity to enroll in such courses, than i feel i am very lucky and excited to get another chance to learn something new
- Artificial Intelligence course containing programming classes
- highly
- About my knowledge
- High likelihood.
- 100%
- Probably
- Very much likely, provided it is in an offline mode, very much so.

### **How likely are you to utilize these techniques learned in this module 5 years from now? 21 responses**

- Very much
- These tools remain of day to day importance and so usage will remain continuously
- Probabily very soon
- I will use these techniques in my own research and also teach these techniques to students who do research under my guidance.
- Very likely.
- Better data management
- Absolutely
- whenever i feel that, this is the situation to implement these techniques, than i'll surely implement these techniques.
- We are going to create a module for Crime Analytics, Data Visualization, Crime Networking and Predictive Policing. Strongly thought that the knowledge attained from these classes will help
- Highly
- I already start my work
- Very often
- High likelihood
- 100%
- The application of data visualization techniques related to various facets of policing will be most relevant in times to come.
- I will try my best to utilize them given my professional status at the given point of time
- am trying to make use of the network analysis in my investigation related works.

### Any other suggestions/ comments? 17 responses

- The course was very excellent. I have used most of the techniques in my profession, As an investigator I will use techniques for locating studying about criminals/accused involved in cases which are under my control
- This is a wonderful course that helps people to have a clear understanding of data analytic concepts and Prof Verma takes the class in a very interactive friendly style that encourages everyone's participation. Hence it has been very effective.
- Best wishes to Aravind Sir and Team
- "Every individual is excellent when he performs individually but in group he fails". The reasons i encountered here is not other group members but his own ego's, attitudes, subject bias, personal bias, positional bias etc. When variety of people come together it happens and it must happen because the real sense of responsibility we learn in "The Group Activity". Group activity developed the leadership and understanding amongst us. It taught us how to respect others opinions and in situation of non-response how to coordinate and cooperate. Some bitter experiences are part of a life. But Arvind sir kept the spirit always high and inspired us to do the best.
- So thank you very much Arvind sir for being a fantastic "Guru" for me.
- Greater emphasis on technical tools of data analysis and visualization is required.
- There should be more group discussions. Currently the module is lecture based
- Some group assignments should be based solely on interaction about issues and solutions.
- Inclusion of some of the latest crime detection and investigation technologies.
- Our professor Arvind Verma sir is very kind and have much patience to taught us these things very smoothly, he encouraged us to learn and understand. I want to say Thank you to him for such a wonderful lesson.
- Expecting more classes on Artificial Intelligence
- Please include daily.. Practical problems
- I missed a lecture by Sanjay Singh Sir due to work commitment. It would have been nice to be able to see his lecture or given a heads up that it would not be available later on. Thank you.