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FA23-8CS-241	
(B)	
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Probability & Statistics:	+
Statistics is study	-
of data. The main averages are mean	ور
median, mode. To measure spread, we	
use variance and standard deviction. Data	
can also be shown with histograms a	
ogives.	
Probability describes the chance of	
event, always between 0 & 1. Important	
rules:	$\dashv \vdash$
$P(A^{c})=1-P(A),$	
Addition:	
P(AUB)=P(A)+P(B)-P(ADB)	
Conditional;	
[2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	
$P(A B) = P(A\cap B)$ $P(B)$	
These concepts applied in cs, such as	
data analysis, AI etc.	
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