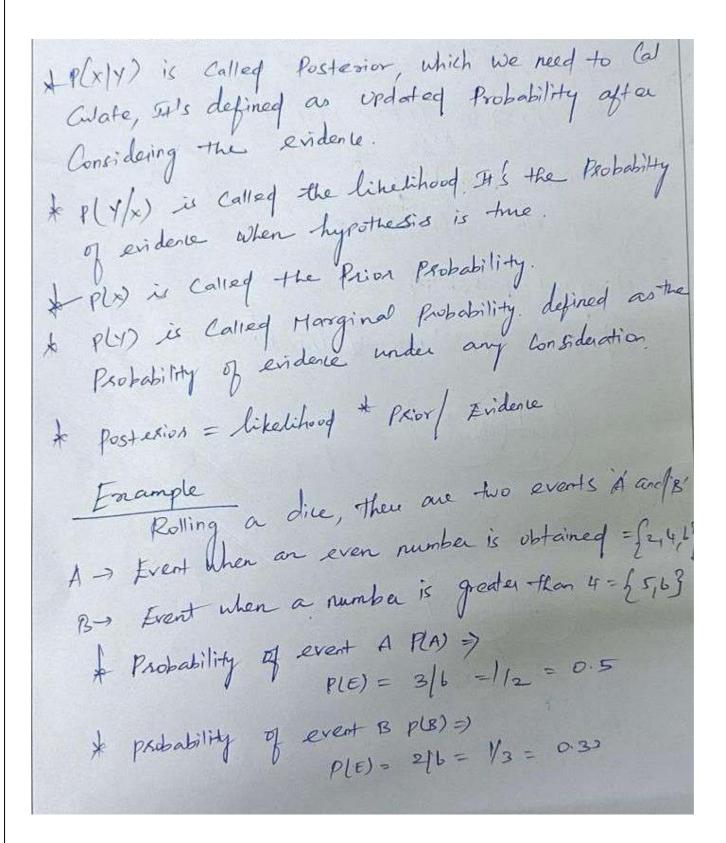


SNS COLLEGE OF TECHNOLOGY



AN AUTONOMOUS INSTITUTION COIMBATORE 35

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



1 Independent Event L) p(AB) = P(AB) = P(A)*P(B) @ Londitional Probability Lap (AB) = Plans)/AB) Harginal Pubability L> PLA) = PLA/B)* PLB) + (PLA)~ B) * PL~B) Union of event AUB = 52,4,5,6} Ans = \$63

Bayesian Decision Theory Parametric and classification: Non- parametric Methods Rayesian Method is used to Calculate Conditional
Probability in machine learning application that includes
Classification tasks.
Classification tasks. * It's also used to reduce Computation time and overage cost of the Project. * It helps to determine the probability of an event with vandom knowledge. * Bayes theorem can be desired using product

Rule and Conditional Probability of event x with Known Event 'y' 4 p(x?4) = p(x/4) p(4) --)0 Propobility of event Y with Known event x by p(x?+) = p(Y/x)p(x) Ly The above Ean is called Bayes Rule (o)
Rayes Theore