

Sr. No.	Topic Name
1	What is Psychology? Mind and Body: Consciousness, Problems related to mind
2	Perception, Attention, Recognition
3	Cognition: Cognitive and Behavioral aspects of Self, Social Cognition
4	Memory: Sensory, Short term, long term
5	Intelligence: Individual Differences in Intelligence,
6	Culture and Intelligence
7	Emotional Intelligence,
8	Thinking: Problem Solving, Reasoning
9	Creativity
10	Decision-making, Thought and Language
11	Structure of neuron
12	Introduction of Information processing
13	Information processing Models
14	Brain basics from a computational perspective.
15	Data and Different types of Data
16	Why analyzing categorical data is difficult.
17	Measure of Central Tendency (Mean, Median and Mode),
18	Measure of Dispersion (Range, Median, Absolute deviation about median, Variance and Standard deviation,
19	Relationship between attributes: Covariance, Correlation Coefficient, Chi Square, Measure of Distribution
20	Skewness and Kurtosis, Probability
21	Probability distributions (Continuous and Discrete).
22	Statistical Inference vs Model building
23	Hypothesis Testing, Concept of p-Value
24	t-value. Predictive model evaluation techniques: Descriptive, ANOVA, R ²
25	Types of Research Designs:
26	Descriptive, Correlation, Surveys,
27	Model Validity
28	Density Functions and Cumulative functions, Classification: Na
29	Ensembles methods, Basic statistics, data analysis and inference
30	Generating hypothesis, Variables and Controls, Reliability and Validity.
31	Model Building and Regression: Linear Regression,
32	Logistic Regression, Activation Functions, Biological neurons and
33	Learning: Supervised, UnSupervised
34	Reinforcement learning
35	The evolution of Artificial Neural Network (ANN) models
36	Convolutional Neural Networks (CNN), CNN Applications
37	Recurrent Neural Networks (RNN), Introduction to RNN Model,
38	Long Short-Term memory (LSTM)
39	Recurrent Neural Network Model. Restricted Boltzmann Machine,
40	Introduction to Deep Belief Network
41	Revision