"Empowerment through quality technical education"
Dr D Y Patil Educational Enterprises Charitable Trust's
AJEENKYA
DY PATIL SCHOOL OF ENGINEERING
(Formerly known as DY Patil School of Engineering)
AICTE ID - 1-3847411
AISHE Code: C-46648
DTE Code: EN6732
SPPU PUN Code: CEGP015720
(Approved by AICTE, Recognized by Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)
(Accredited by NAAC, NABL & ISO 9001:2015 & 21001:2018 Certified Institute)

Department of Computer Engineering

Class: TE C	**Subject Name: LP II** 310253: Artificial Intelligence, Elective II 310254(A): Information Security	**Sem**: II

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Sr. No.	Name of Experiment
1.	Implement depth first search algorithm and Breadth First Search algorithm, Use an undirected graph and develop a recursive algorithm for searching all the vertices of a graph or tree data structure.
2.	Implement A star Algorithm for any game search problem.
3.	Implement Greedy search algorithm for any of the following application: I. Selection Sort II. Minimum Spanning Tree III. Single-Source Shortest Path Problem IV. Job Scheduling Problem V. Prim's Minimal Spanning Tree Algorithm VI. Kruskal's Minimal Spanning Tree Algorithm VII. Dijkstra's Minimal Spanning Tree Algorithm
4.	Implement a solution for a Constraint Satisfaction Problem using Branch and Bound and Backtracking for n-queens problem or a graph coloring problem.
5.	Develop an elementary chatbot for any suitable customer interaction application.
6.	Implement any one of the following Expert System I. Information management II. Hospitals and medical facilities III. Help desks management IV. Employee performance evaluation V. Stock market trading VI. Airline scheduling and cargo schedules
7.	Write a Java/C/C++/Python program that contains a string (char pointer) with a value \Hello World'. The program should AND or and XOR each character in this string with 127 and display the result.
8.	Write a Java/C/C++/Python program to perform encryption and decryption using the method of Transposition technique.
9.	Write a Java/C/C++/Python program to implement DES algorithm.
10.	Write a Java/C/C++/Python program to implement RSA algorithm.
11.	Calculate the message digest of a text using the MD5 algorithm in JAVA.