

**FACULTY OF ENGINEERING AND  
TECHNOLOGY**

**BACHELOR OF TECHNOLOGY**

**MEAN STACK WEB  
DEVELOPMENT**

(203105380)

**LAB MANUAL**



**6<sup>th</sup> SEMESTER**

**COMPUTER SCIENCE &  
ENGINEERING DEPARTMENT**

## CERTIFICATE

*This is to certify that Mr. Preet Patel with Enrolment no. 2203051057070 has successfully completed his/her laboratory experiments in the **MEAN STACK WEB DEVELOPMENT** from the department of PIT-CSE (AI) During the academic year 2023-24.*



Date of Submission: ..... Staff In charge: .....

Head Of Department: .....

## INDEX

SR NO	Practical List	Start Date	End Date	Sign	Marks
1	Insert the following documents into a movies collection and perform below queries to get documents, update documents, and to delete documents.				
2	Insert a restaurants data from restaurants file and perform the following query.				
3	Consider the below sample movie document and add more documents to perform the below query.				
4	Create a custom Node.js module named Geometry Calculator the module should include.				
5	Create a File index.js Perform the following operations using fs module of Node.js.				
6	Develop a RESTful API using Node.js, Express, and MongoDB to manage a "Recipe Database." The API will allow users to create, read, update, and delete recipes.				
7	You are tasked with developing a user authentication API using Node.js and Express framework. The API should allow users to sign up with their email address and password and sign in using their credentials. Upon successful authentication, users should receive an authentication token that they can use to access protected routes or resources.				
8	You are tasked with developing an online bookstore application using Node.js and Express framework with a template engine for rendering dynamic web pages. The application should allow users to browse books, search for books by title or author, view book details, add books to their cart, and proceed with the checkout process.				

<b>9</b>	Creating a login component in Angular involves defining a component that includes a form where users can input their credentials and a method to handle the login process.				
<b>10</b>	An Angular service for CRUD operations using REST API is a reusable and encapsulated component designed to facilitate Create, Read, Update, and Delete (CRUD) operations on a server-side resource through RESTful API endpoints				