



V.E.S. Institute of Technology, Collector Colony,  
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Department of M.C.A

INDEX

Sr. No.	Contents	Date of Preparation	Date of Submission	Marks	Faculty Sign
1	<b>Practical 1</b>  1. Introduction to Node.JS, Advantages and Disadvantages, Node.js Process Model, Traditional Web Server Model, Installation.  2. To print today's date and time using REPL.  3. Write a program to print the given pattern: 1 2 3 4 5 1 2 3 4 1 2 3 1 2 1  4. Write a program to print the first 20 Fibonacci numbers (take input through the command line).  5. Write a program to print prime nos between 1 to 100.	12-09-2023	12-09-2023		

2	<b>Practical 2</b> <ol style="list-style-type: none"><li>1. Create an application to demonstrate Node.js Modules.</li><li>2. Write a program to print information about the computer's operating system using the OS module(use any 5 methods).</li><li>3. Print "Hello" every 500 milliseconds using the Timer Module. The message should be printed exactly 10 times. Use SetInterval ,ClearInterval and SetTimeout methods.</li><li>4. Create a Calculator Node.js Module with functions add, subtract and multiply,Divide and use the Calculator module in another Node.js file.</li><li>5. Create a circle module with functions to find the area and perimeter of a circle and use it.</li></ol>	12-09-2023	13-09-2023		
3	<b>Practical 3</b> <ol style="list-style-type: none"><li>1. Create an application to demonstrate various Node.js Events in event emitter class.</li><li>2. Create functions to sort, reverse and search for an element in an array. Register</li></ol>	25-09-2023	26-09-2023		

	and trigger these functions using events.				
4	<b>Practical 4</b> <ul style="list-style-type: none"><li>Create an application to demonstrate Node.js Functions- Timer function(displays every 10 second)</li></ul>	26-09-2023	28-09-2023		
5	<b>Practical 5</b> <ul style="list-style-type: none"><li>Using File Handling demonstrate all basic file operations (Create, write, read, delete).<ol style="list-style-type: none"><li>Read a file.</li><li>Write to an existing file.</li><li>Create a file.</li><li>Delete a file.</li></ol></li></ul>	09-10-2023	10-10-2023		
6	<b>Practical 6</b> <ol style="list-style-type: none"><li>Create a HTTP Server and serve HTML, CSV, JSON and PDF Files.</li><li>Create a HTTP Server and stream a video file using piping.</li><li>Develop 3 HTML Web Pages for college home page (write about college &amp; dept), about me, contact.Create a server and render these pages using Routing.</li></ol>	11-10-2023	13-10-2023		

7	<b>Practical 7</b> <ul style="list-style-type: none"><li>Create an application to establish a connection with the MySQL database and perform basic database operations on it(student db consisting roll no, name, address), insert 10 records, update a particular student's record,delete a record.</li></ul>	16-10-2023	17-10-2023		
8	<b>Practical 8</b> <ol style="list-style-type: none"><li>TypeScript installation, Environment Setup, Programs on decision making / functions / class &amp; object)</li><li>Programs on decision making / functions / class &amp; object)</li></ol>	16-10-2023	20-10-2023		
9	<b>Practical 9</b> <ol style="list-style-type: none"><li>Introduction to Angular,Setup for local Development environment, Angular Architecture.</li><li>Create an application to demonstrate directives and pipes.</li></ol>	22-09-2023	23-09-2023		
10	<b>Practical 10</b> <ul style="list-style-type: none"><li>Create an application to demonstrate directives and pipes.</li></ul>	23-09-2023	24-09-2023		

11	<b>Practical 11</b> <ul style="list-style-type: none"><li>• Create an application to demonstrate SPA.</li></ul>	24-10-2023	24-10-2023		
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Final Grade	Instructor Signature