

Lab	Туре	Practical	
I.	Revision of JavaScript and ES6		
LAB-1	А	1. WAP to demonstrate the use of various inbuilt string functions like charAt(), charCodeAt(), startsWith(), endsWith(), includes(), indexOf(), lastIndexOf(), match(), repeat(), replace("", ""), search(), split(), substr(start, length), substring(start, end), toString(), trim().	
	А	2. WAP to explore more inbuilt string functions like slice(), toLowerCase(), toUpperCase(), valueOf(), fromCharCode().	
	Α	3. WAP to create an array of countries, read values of an array from user and print it.	
	В	4. WAP to read a numeric array from user and find maximum number from it.	
	С	5. WAP to read an array from user and sort them in ascending order (without using inbuilt function).	
LAB-2	А	6. WAP to change background color on click of button.	
	A	7. WAP to recognize which mouse event is fired.	
	A A	<ul><li>8. WAP to recognize which keyboard event is fired.</li><li>9. WAP for following effect: If the mouse is over heading, change font color to "red"</li></ul>	
	A	and if the mouse goes out of the heading change it to "black".	
	В	10. Write a javascript that handles following mouse events. Add necessary elements	
		javaScript gives the key code for the key pressed. If the key pressed is "a","e","I","o","u" the script should announce that vowel is pressed. If the keypressed is alphabet (apart from aeiou) then alphabet is pressed. If the keypressed is in between 0-9 then number is pressed and in any other case display a message special symbol is pressed.	
	С	11. WAP to design a form using HTML and JavaScript that asks the user to enter his date of birth and on clicking the Calculate Button it calls the function that calculates how many days are left in your birthday.	
LAB-3	А	12. WAP to demonstrate callbacks in javascript.	
	Α	13. WAP to demonstrate the concept of class in javascript.	
	A	14. WAP to demonstrate the concept of Arrow functions.	
	В	15. WAP to demonstrate use of various array methods like <i>join,split</i> .	
	В	16. WAP to demonstrate use of various array methods like <i>include, find</i> .	
	B C	<ul><li>17. WAP to demonstrate <i>every</i> function of ES6.</li><li>18. WAP to demonstrate Arrow functions when we have only one argument.</li></ul>	
	c	19. WAP to demonstrate Arrow functions when we do not have argument.	
LAB-4	Α	20. WAP to demonstrate use of various array methods like <i>push, pop,shift,unshift</i> .	
	Α	21. WAP to demonstrate use of various array methods like <i>sort,reverse</i> .	
	A	22. WAP to demonstrate multiple arrow function.	
	В	23. WAP to check whether the given number is prime or not using arrow function.	
	В	24. WAP to check whether the given number is palindrome or not using arrow function.	
	В	25. WAP to print prime numbers between the two given numbers using arrow function.	
	C	26. WAP to append object in array using Javascript.	
	С	27. WAP to perform insert, update and delete operation on a static array using Javascript.	



LAB-5	А	28. WAP to demonstrate <i>some</i> function of ES6.
	A	29. WAP to create a numerical array containing number elements. You have to return a number
		greater than 50 using filter method.
	A	30. WAP to create student name array and print each elements using ES6 for each method.
	Α	31. WAP to create numerical array and remove duplicate elements from the array using reduce
	D	method.
	В	32. WAP to create a new array containing number of elements like color name in small letter (e.g. ['red', 'green', 'blue']) and convert each array element to Capitalized letter using map method.
	С	33. WAP to perform CRUD operation on a static array using Javascript.
		Sol that to perform excellent on a static array asing surastript.
LAB-6	Α	34. WAP to demonstrate the use of object destructuring.
	Α	35. WAP to demonstrate the use of array destructuring.
	Α	36. WAP to demonstrate export module.
	Α	37. WAP to demonstrate import module.
	A	38. WAP to demonstrate the spread operator.
	В	39. WAP to combine two array using spread operator.(use numerical array)
II.	Nod	e Package Manager
LAB-7	Α	40. Install NPM (Node Pacakage Manager)
	Α	41. Demonstrate the use of NPM.
	Α	42. Demonstrate Node REPL.
	Α	43. WAP to hello world using nodejs
	Α	44. Demonstrate Installing Module, Unistalling Module and Updating Module in NPM
	Α	45. Demonstrate the Continuation-passing style(CPS)
	Α	46. WAP to perform that given no is odd or even using Anonymous Function.
	Α	47. WAP to perform that given no is odd or even using Standard Callback Pattern.
LAB-8	Α	48. Demonstrate "path" core module with Node.js.
	Α	49. Demonstrate "fs" core module with Node.js.
	Α	50. Apply shell commands with Node.js
	Α	51. Implement "child_process" core module with exec() and spawn().
LAB-9	Α	52. Demonstrate how to access OS related information in Node JS.
	Α	53. Apply URL, QueryString and util module
	Α	54. Implement the use of Event Emitter in Node.js
	Α	55. Create web server.
LAB-10	Α	56. Create a hello world webapp using "http" core module in NodeJS.
	В	57. Create a webapp with 5 pages like about, contact etc Using "http" core module in NodeJS.
	С	58. Create a complete static webapp with minimum 10 pages using "http" core module in NodeJS.
III.	Expi	ressJS
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LAB-11	A	59. Create a hello world webapp using ExpressIS.
	В	60. Create a webapp with 5 pages like about, contact etc Using ExpressJS.
	С	61. Create a complete static webapp with minimum 10 pages using ExpressJS.
LAB-12	Α	62. Demonstrate the use of middleware in Express.
	Α	63. Demonstrate the use of static middleware in Express.
	A	64. Install MySQL.
	Α	65. Setup database in MySQL.



LAB-13	Α	66. Install MySQL library using NPM.
	Α	67. Demonstrate the use MySQL functions.
	Α	68. Create a databases using phpmyadmin for faculty, student and products.
	В	69. Create different database in MySQL (minimum 5).
	C	70. Create different database in MySQL (minimum 10).
		76. ereate amerent autabase in Mysqe (minimam 16).
LAB-14	Α	71. Create a restful CRUD API using NodeJS, Express and MySQL for faculty, student and products.
	В	72. Create a restful CRUD API using NodeJS, Express and MySQL for eCommerce.
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LAB-15	В	73. Create a restful CRUD API using NodeJS, Express and MySQL for library website.
LAB-16	Α	74. Create login and registration functionality using NodeJS, Express, and MySQL
	В	75. Build a contact form that saves submitted data to a MySQL database
IV.	Rea	ctJS
LAB-17	Α	76. Setting up react environment.
LAD-17	A	77. Hello world webapp using ReactJS.
	A	78. Demonstrate the use of JSX.
	A	79. WAP to create a simple class component in ReactJS.
	Α	80. WAP to create a simple function component in ReactJS.
LAB-18	Α	81. Create a function component in separate file and link with App.js
	Α	82. Demonstrate the ReactJS props.
	Α	83. Demonstrate the Event Handling in ReactJS.
	В	84. WAP in ReactJS to display the element if it has attribute called is Display to be true (using
	J	conditional rendering).
LAB-19	Λ	QE Domonstrate the use of man method in Beast IS to display array
LAB-19	A	85. Demonstrate the use of map method in ReactJS to display array.
	В	86. Display Faculties stored in array using ReactJS.
	В	87. Display Students stored in array using ReactJS.
	В	88. Display Products stored in array using ReactJS.
	С	89. Display Faculties, Students, Products stored in array using ReactJS with navigation.
LAB-20	Α	90. Implementing Routing in ReactJS.
2,15,20	Α	91. Develop basic website using 5 different component (pages) and implement Routing in it. (i.e.
	,,	About, Contact etc).
LAB-21	Α	92. Create an Employee form in ReactJS to accept user input and display it.
	В	93. Build a React component with form fields (like name, email, etc.), capture the input using
		state, and display the entered data on the same or another component.
LAB-22	Α	94. Apply CSS styles to React components using traditional CSS files, inline styles, and CSS
L (D 22	В	modules.
	J	95. Demonstrate styling with conditional classes or styles.
V.	A	PI using ReactJS
LAB-23	Α	96. Demonstrate useState hook in ReactJS.
	Α	97. Demonstrate useEffect hook in ReactJS.
	В	98. Print "Hello world" after every 5 seconds also have a state named count which updates when
1	D	we click on the button.



LAB-24	A B	99. WAP to create a simple calculator using ReactJS.  100. WAP to perform CRUD operation on array using ReactJS.
LAB-25	A B	101. Create a MockAPI online with following fields ( FacultyID,FacultyName,FacultyExp,FacultyImage). 102. Perform CRUD operation on MockAPI using ReactJS.
LAB-26	A A	103. WAP to Perform a POST Request in React With Fetch API 104. WAP to Perform a DELETE Request in React With Fetch API
LAB-27	A B C	<ul> <li>Demonstrate CRUD operation using REST API.</li> <li>Perform CRUD operation on multiple API (minimum 3) with routing for each api.</li> <li>Perform CRUD operation on multiple API (minimum 10) with routing for each api.</li> </ul>
LAB-28	Α	108. Create a mini project using mockAPI.
LAB-29	Α	109. Create a mini project using mockAPI.
LAB-30	A B C	<ul> <li>110. Implement search functionality on API data using ReactJS</li> <li>111. Create a dynamic form using ReactJS with add/remove fields</li> <li>112. Create a table component to display API data with sorting and filtering</li> </ul>