

2.6.1. Teachers and Students are aware of the stated Programme and Course Outcomes of the Programmes offered by the institution

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S.NO	Description
1	Display Material of Vision ,Mission ,COs,POs,PEOS
2	Sample Course Outcomes
3	Sample CO-PO mapping
4	Sample CO-PSO mapping

LIST OF FIGURES

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3	1(c)	Program Outcome and Program Specific outcome of Electronic and Communication Department
4	1(d)	Program Educational Outcome and Program Specific outcome of Computer Science Department
5	1(e)	Program Outcome of Computer Science Department
6	1(f)	Course Outcome of All Departments

DEPARTMENTS

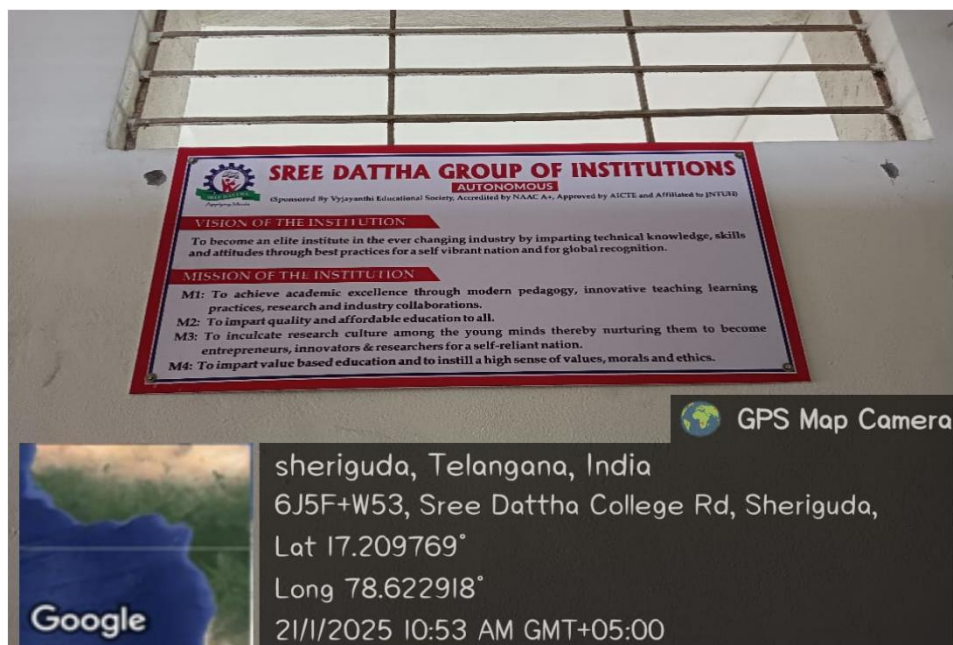


Fig1(a) Vision and Mission of Computer Science Department

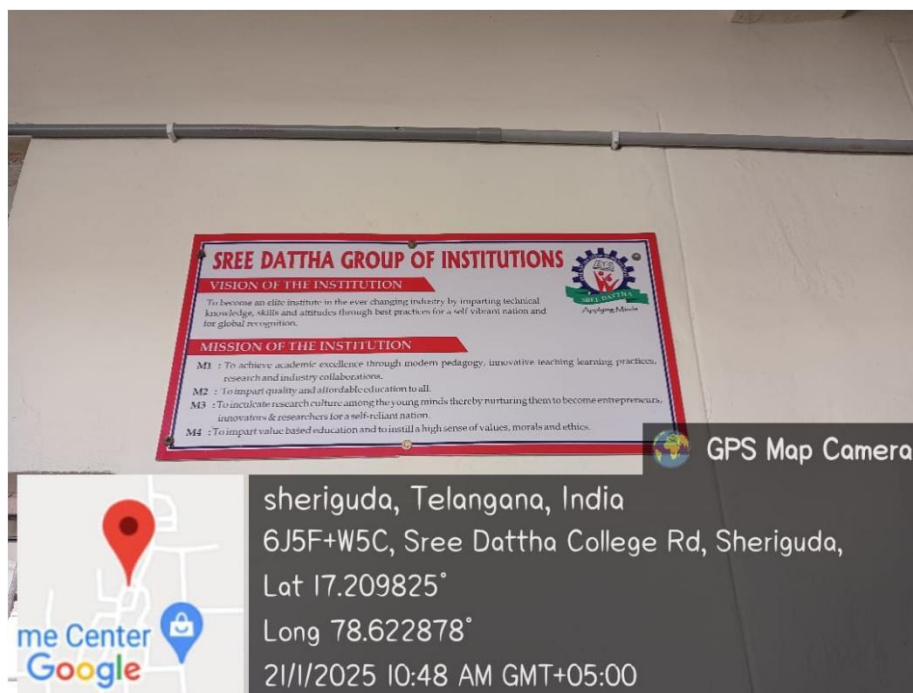


Fig1(b) Vision and Mission of Electronic & Communication Departments

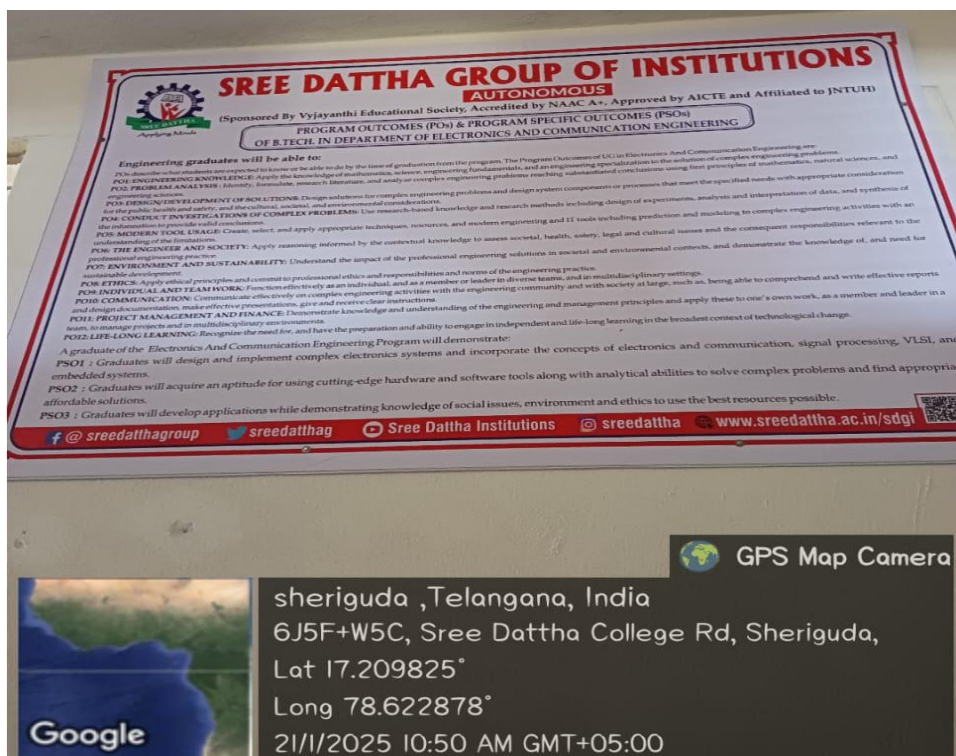


Fig 1(c) Program Outcome and Program Specific outcome of Electronic and Communication Department

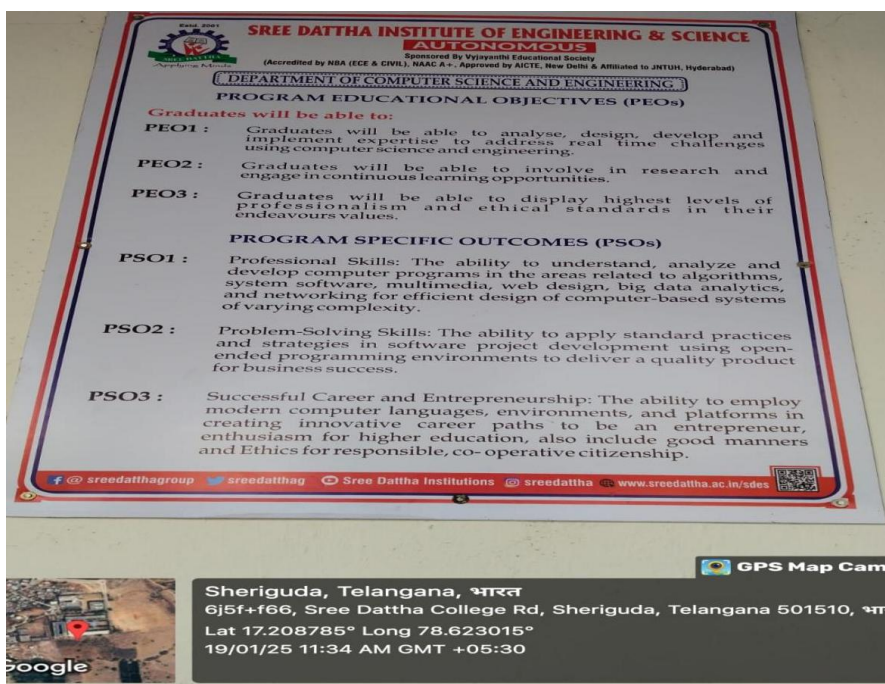


Fig 1(d) Program Educational Outcome and Program Specific outcome of Computer Science Department

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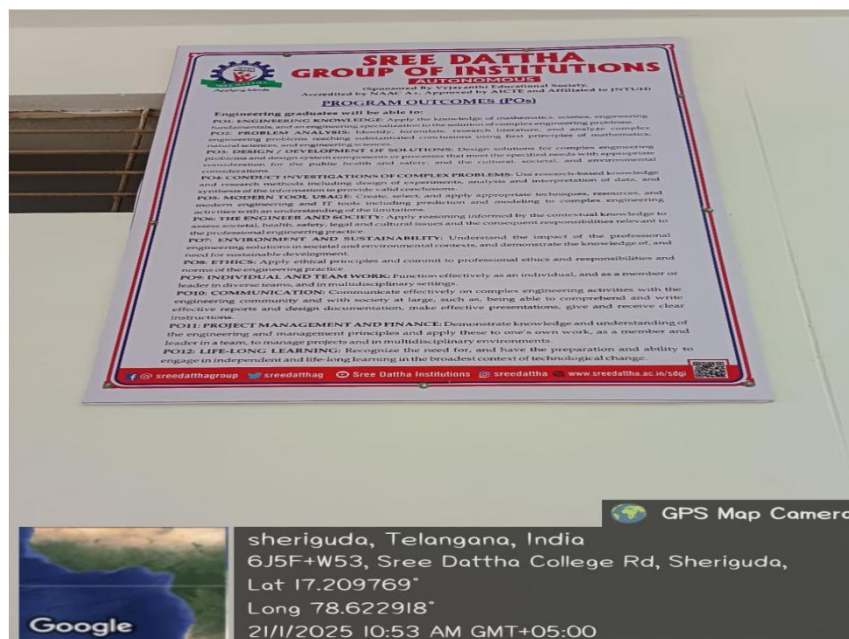


Fig 1(e) Program Outcome of Computer Science Department

Labs



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

JAVA LAB

LIST OF EXPERIMENTS MAPPING WITH COs, AND Pos

S.No.	Name of the Experiment	COs mapping	POs mapping
1.	Use Eclipse or Net bean platform and acquaint yourself with the various menus. Create a test project, add a test class, and run it. See how you can use auto suggestions, auto fill. Try code formatter and code refactoring like renaming variables, methods, and classes. Try debug step by step with a small program of about 10 to 15 lines which contains at least one if else condition and a for loop.	C217.1	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12
2.	Write a Java program that works as a simple calculator. Use a grid layout to arrange buttons for the digits and for the +, -, *, % operations. Add a text field to display the result. Handle any possible exceptions like divided by zero.	C217.1	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12
3.	Develop an applet in Java that displays a simple message. B) Develop an applet in Java that receives an integer in one text field, and computes its factorial Value and returns it in another text field, when the button named "Compute" is clicked.	C217.5	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12
4.	Write a Java program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num 2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a Number Format Exception. If Num2 were Zero, the program would throw an Arithmetic Exception. Display the exception in a message dialog box.	C217.2	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12
5.	Write a Java program that implements a multi-thread application that has three threads. First thread generates a random integer every 1 second and if the value is even, the second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of the cube of the number.	C217.3	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SOFTWARE TESTING METHODOLOGIES LAB
LIST OF EXPERIMENTS MAPPING WITH COs, POs and PSOs

S.No.	Name of the Experiment	COs mapping	POs mapping	PSOs mapping
1.	Recording in context sensitive mode and analog mode	1	1, 2, 3, 4	2
2.	GUI checkpoint for single property	3	2, 3, 4	1, 2
3.	GUI checkpoint for single object/ window	3	1, 2, 3, 5	2
4.	GUI checkpoint for multiple objects	3	1, 2, 3, 4, 5	2
5.	a) Bitmap checkpoint for object/ window b) Bitmap checkpoint for screen area	3	1, 2, 3, 4	1, 2
6.	Database checkpoint for Default check	2	1, 2, 3, 4, 5	2
7.	Database checkpoint for custom check	2	1, 2, 3, 4, 6	2
8.	Database checkpoint for runtime record check	2	1, 2, 3, 4	1, 2
9.	a) Data driven test for dynamic test data submission b) Data driven test through flat files c) Data driven test through front grids c) Data driven test through front grids	2	1, 2, 3, 4	2
10.	a) Batch testing without parameter passing b) Batch testing with parameter passing	4	1, 2, 3, 4	2
11.	Data driven batch	3	1, 2, 3, 5	2
12.	Silent mode test execution without any interruption	4	1, 2, 3, 4	2
13.	Test case for calculator in windows application	4	1, 2, 3, 5	2, 3

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
DATA STRUCTURES LAB
LIST OF EXPERIMENTS MAPPING WITH COs, AND POs

S.No.	Name of the Experiment	COs mapping	POs mapping
1.	Write a program that uses functions to perform the following operations on singly linked list: i) Creation ii) Insertion iii) Deletion iv) Traversal.	C216.1	PO1, PO2, PO3, PO4
2.	Write a program that uses functions to perform the following operations on doubly linked list: i) Creation ii) Insertion iii) Deletion iv) Traversal.	C216.1	PO1, PO2, PO3, PO4
3.	Write a program that uses functions to perform the following operations on circular linked list: i) Creation ii) Insertion iii) Deletion iv) Traversal.	C216.1	PO1, PO2, PO3, PO4
4.	Write a program that implement stack (its operations) using i) Arrays ii) Pointers.	C216.2	PO1, PO2, PO3, PO4
5.	Write a program that implement Queue (its operations) using i) Arrays ii) Pointers.	C216.2	PO1, PO2, PO3, PO4

GPS Map

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SIGNALS AND SYSTEMS LAB
LIST OF EXPERIMENTS MAPPING WITH COs, POs and PSOs

S.No.	Name of the Experiment	COs mapping	POs and PSOs mapping
1.	Frequency Spectrum of continuous signal	C329.1 & C329.2	PO2, PO3, PO4, PO12, PS01, PS02
2.	Frequency Spectrum of impulse signals (Time Bounded signals)	C329.1 & C329.2	PO2, PO3, PO4, PO 12, PS01, PS02
3.	Frequency Response Analysis using any Software	C329.1 & C329.2	PO1, PO4, PO5, PO12, PS01, PS02
4.	Frequency Response Analysis for any Transfer Function (Preferably Transformer)	C329.1 & C329.2	PO1, PO4, PO5, PO 12, PS01, PS02
5.	Write a program to generate the discrete sequences (i) Unit step (ii) Unit impulse (iii) Ramp (iv) Periodic sinusoidal sequences. (Plot all the sequences).	C329.1	PO1, PO3, PO5, PO10, PS01, PS02
6.	Find the Fourier Transform of a Square pulse. (Plot its amplitude and phase spectrum).	C329.4	PO1, PO4, PO5, PO 12, PS01, PS02
7.	Write a program to convolve two discrete time sequences. (Plot all the sequences). Verify the result by analytical calculation.	C329.6	PO1, PO4, PO5, PO11, PS01, PS02
8.	Write a program to find the trigonometric Fourier series coefficients of a rectangular periodic signal. Reconstruct the signal by combining the Fourier series coefficients with appropriate weightings.	C329.4	PO1, PO4, PO5, PO 11, PS01, PS02

GPS

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING			
MICROCONTROLLERS LAB			
LIST OF EXPERIMENTS MAPPING WITH COs, AND POs			
S.No.	Name of the Experiment	COs mapping	POs mapping
8	Matrix Keypad to 8051	C328.1 & C328.3 & C328.5	PO4, PSO2
9	Sequence Generator Using Serial Interface in 8051.	C328.1 & C328.3	PO5, PSO2
10	8 bit ADC Interface to 8051.	C328.1	PO1, PSO2
11	Triangular Wave Generator through DAC interfaces to 8051.	C328.2 & C328.3	PO5, PSO2
ADDITIONAL EXPERIMENTS			
12	Program for matrix addition	C328.1 & C328.2	PO5, PO10, PSO2
13	Program for finding whether the given string is a palindrome or not	C328.1 & C328.2	PO5, PO10, PO2, PSO2

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including serial ports, digital-to-analog

GPS Map Camera

Fig 1(f) Course Outcome of All Departments

CO-PO mapping : FORMAL LANGUAGES AND AUTOMATA THEORY (C311)

III/I SEM YEAR 2022-
2023

CO ATTAINMENT=1.6

PROGRAM OUTCOME(PO)

	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
C311.1	3													2	1
C311.2		3		2									2	3	1
C311.3			2	3									2	3	
C311.4	1	2	2		3									2	1
C311.5	1				3								3		
C311.6		3		2											2
Avg	1. 25	2. 6	2	2. 3	3								2.3	2.5	1.25

SOFTWARE ENGINEERING (312)

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

CO ATTAINMENT=1.6

	P O1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O1 0	P O1 1	P O1 2	PS O1	PS O2	PS O3
C312.1	3				2								2	1	1
C312.2			3										2	1	
C312.3		1	2			1	2							2	1

C312.4							2			1					1
C312.5			3	1			1			2					
C312.6								1	1				2	1	1
AVG	3	1	2.6 6	1	2	1	1. 6	1	1. 5	1.5	0	0	2	1.2 5	1

COMPUTER NETWORKS (313)

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

CO ATTAINMENT=1.7

	O 1	O 2	O 3	O 4	O 5	O 6	O 7	O 8	O 9	O 10	O 11	O 12	P SO 1	P SO 2	P SO 3
C313.1	3	1											3		
C313.2	3	3													
C313.3	3	3	2	2	2	2								2	
C313.4	3		3	1	2	2							3		
C313.5	3	3	3	2	1	2								2	
C313.6	3	3	3	1	1	1								2	
Avg	3	2. 3 3	1.8 3	1	1	1. 1 6							1	1	

WEB TECHNOLOGIES (C314)

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

CO ATTAINMENT=2.2

	P O 1	I O 2	P O 3	I O 4	P O 5	I O 6	P O 7	I O 8	P O 9	O1 0	O1 1	O1 2	SO 1	SO 2	SO 3
C314.1	1		2		3								1	2	1
C314.2	2		3										1	1	1
C314.3	1		2		3								1	2	1
C314.4	1		2		3								1	2	1
C314.5	1		2		3								1	2	1
C314.6		1	2		3								1	2	2
Avg	1. 2	1	2. 17		3								1	1.8 3	1.1 7

Principles of Programming Languages (315)

III/I SEM YEAR 2022-2023

PROGRAM OUTCOME(PO)

CO ATTAINMENT=1.6

[illegible]

C315.4		2		3								2	2	
C315.5		2		3	1							2	2	
C315.6		2		3	1							2	2	
AVG	2	2.5		3	1							2	2.25	2

CO-PSO mapping
FORMAL
LANGUAGES AND
AUTOMATA THEORY
(C311)

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

	PO 1	P O 2	P O 3	P O 4	PO 5	P O 6	P O 7	P O 8	P O 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
C311.1	2.95													1.97	0.98
C311.2		2.79		1.86									1.86	2.79	0.93
C311.3			1.97	2.95									1.97	2.95	
C311.4	0.93	1.86	1.86		2.79									1.86	0.93
C311.5	0.96				2.87								2.87		
C311.6		2.79		1.86											1.86
Avg	0.943333	2.44	1.91	2.22	2.83								2.23	2.39	1.18

SOFTWARE ENGINEERING (312)

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

	P O1	P O2	P O3	P O4	PO 5	P O6	P O7	P O8	P O9	P O10	P O11	P O12	PS O1	PS O2	PS O3
C312.1	1.92				1.92								1.92	0.96	0.96
C312.2			2.96										1.97	0.99	
C312.3		0.93	1.87			0.93	1.87							1.87	0.93
C312.4							1.87			0.93					0.93
C312.5			1.97	0.99			0.99			1.97					
C312.6								0.99	0.99				1.97	0.99	0.99
		0.93	2.27	0.99	1.92	0.93	1.57	0.99	0.99	1.453333			1.96	1.20	0.95

COMPUTER NETWORKS (313)

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P O 11	P O 12	P SO 1	P SO 2	P SO 3
C313.1	2.88	0.96											2.88		
C313.2	2.8	2.8													
C313.3	2.8	2.8	1.87	1.87	1.87	1.87								1.87	
C313.4	2.8		2.8	1	1.87	1.87							2.8		
C313.5	2.96	2.96	2.96	1.97	0.99	1.97								1.97	
C313.6	2.8	2.8	2.8	0.93	0.93	0.93								1.87	
Avg	2.84	2.46	2.61	1.44	1.413333	1.66							2.84	1.90	

**WEB
TECHNOLOGIES
(C314)**

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P O 11	P O 12	P SO 1	P SO 2	P SO 3
C314.1	0.93		1.86		2.79								0.93	1.86	0.93

C314.2	1.97		2.9 5										0.98	0.98	0.98
C314.3	0.96		1.9 1		2.87								0.96	1.91	0.96
C314.4	0.96		1.9 1		2.87								0.96	1.91	0.96
C314.5	0.98		1.9 7		2.95								0.98	1.97	0.98
C314.6		0. 9 8	1.9 7		2.95								0.98	1.97	1.97
	1.15 8666 667	0. 9 8	2.1 0		2.89								0.9 7	1.7 7	1.1 3

**Principles of
Programming
Languages (315)**

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P O 11	P O 12	SO 1	SO 2	SO 3
C315.1	1.97	2. 9 5											2.95		2.95
C315.2		1. 9 7		2. 9 5									1.97		2.95
C315.3		1. 9 1		2. 8 7									1.91	1.91	2.87

C315.4		1. 9 1		2. 8 7									1.91	1.91	2.87
C315.5		1. 9 7		2. 9 5	0.98							1.9 7		1.97	2.95
C315.6		1. 9 7		2. 9 5	0.98							1.9 7		1.97	2.95
AVG	1.97	2. 1 1		2. 9 2	0.98							1.9 7	2.1 9	1.9 4	

LIST OF FIGURES

S.No	FigureNo.	Description
1	1(a)	Vision and Mission of Computer Science Department
2	1(b)	Vision and Mission of Electronic and Communication Department
3	1(c)	Program Outcome and Program Specific outcome of Electronic and Communication Department
4	1(d)	Program Educational Outcome and Program Specific outcome of Computer Science Department
5	1(e)	Program Outcome of Computer Science Department
6	1(f)	Course Outcome of All Departments

DEPARTMENTS

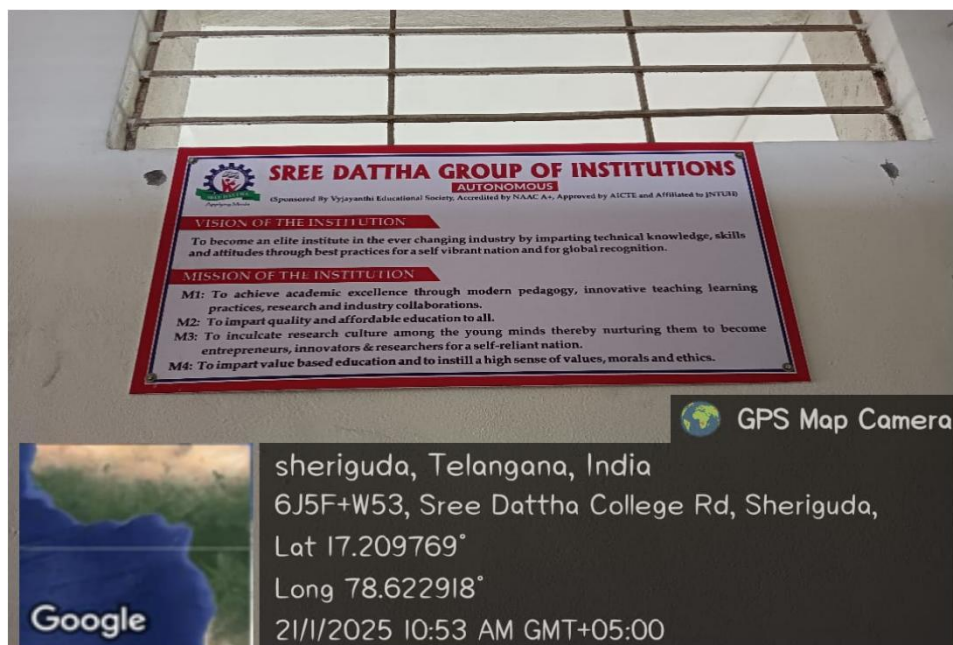


Fig1(a) Vision and Mission of Computer Science Department

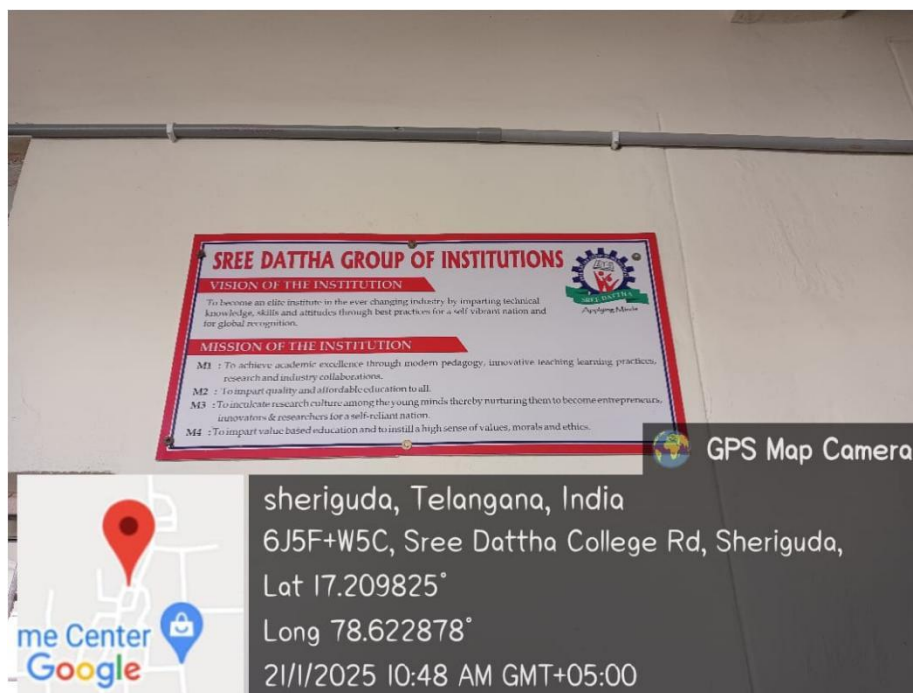


Fig1(b) Vision and Mission of Electronic & Communication Departments

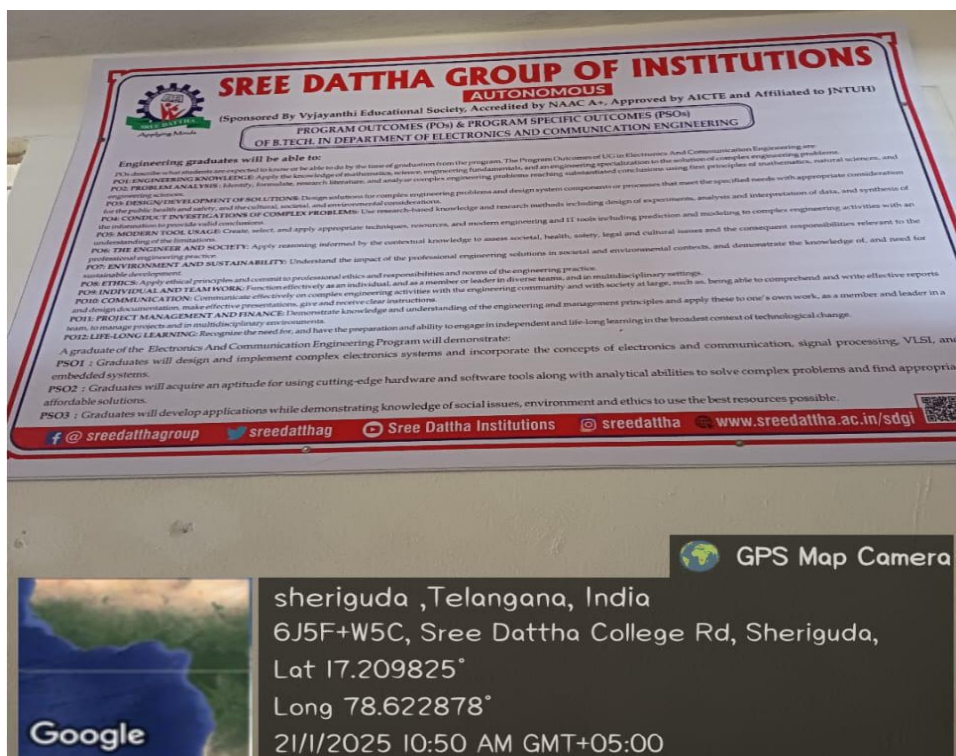


Fig 1(c) Program Outcome and Program Specific outcome of Electronic and Communication Department

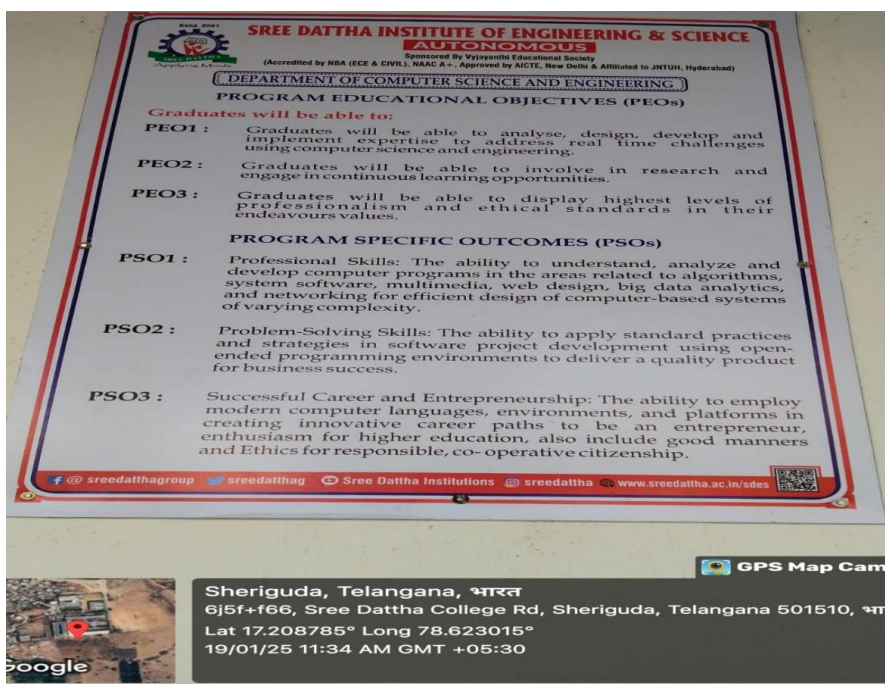


Fig 1(d) Program Educational Outcome and Program Specific outcome of Computer Science Department

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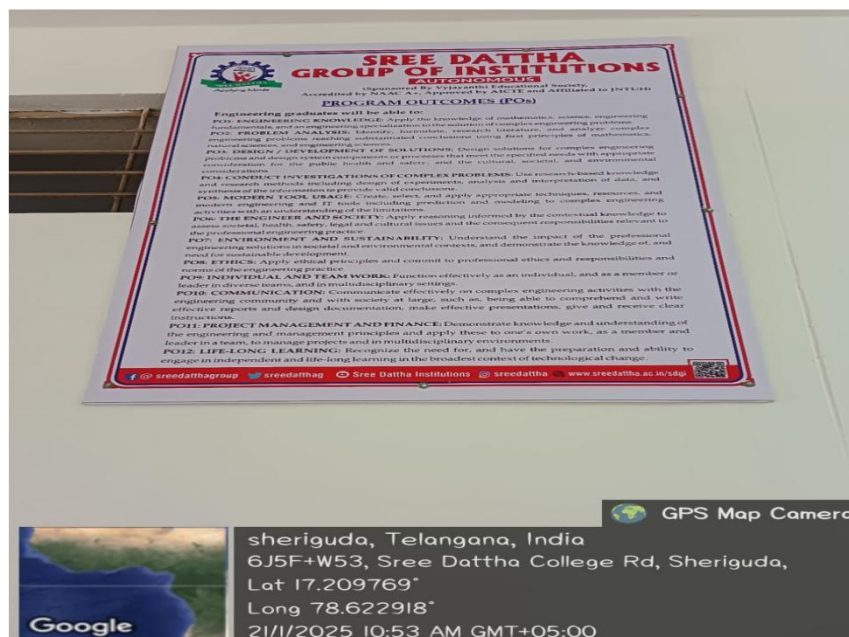


Fig 1(e) Program Outcome of Computer Science Department

Labs



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

JAVA LAB

LIST OF EXPERIMENTS MAPPING WITH COs, AND Pos

S.No.	Name of the Experiment	COs mapping	POs mapping
1.	Use Eclipse or Net bean platform and acquaint yourself with the various menus. Create a test project, add a test class, and run it. See how you can use auto suggestions, auto fill. Try code formatter and code refactoring like renaming variables, methods, and classes. Try debug step by step with a small program of about 10 to 15 lines which contains at least one if else condition and a for loop.	C217.1	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12
2.	Write a Java program that works as a simple calculator. Use a grid layout to arrange buttons for the digits and for the +, -, *, % operations. Add a text field to display the result. Handle any possible exceptions like divided by zero.	C217.1	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12
3.	Develop an applet in Java that displays a simple message. B) Develop an applet in Java that receives an integer in one text field, and computes its factorial Value and returns it in another text field, when the button named "Compute" is clicked.	C217.5	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12
4.	Write a Java program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num 2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a Number Format Exception. If Num2 were Zero, the program would throw an Arithmetic Exception. Display the exception in a message dialog box.	C217.2	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12
5.	Write a Java program that implements a multi-thread application that has three threads. First thread generates a random integer every 1 second and if the value is even, the second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of the cube of the number.	C217.3	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12

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Estd : 2010



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SOFTWARE TESTING METHODOLOGIES LAB
LIST OF EXPERIMENTS MAPPING WITH COs, POs and PSOs

S.No.	Name of the Experiment	COs mapping	POs mapping	PSOs mapping
1.	Recording in context sensitive mode and analog mode	1	1, 2, 3, 4	2
2.	GUI checkpoint for single property	3	2, 3, 4	1, 2
3.	GUI checkpoint for single object/ window	3	1, 2, 3, 5	2
4.	GUI checkpoint for multiple objects	3	1, 2, 3, 4, 5	2
5.	a) Bitmap checkpoint for object/ window b)Bitmap checkpoint for screen area	3	1, 2, 3, 4	1, 2
6.	Database checkpoint for Default check	2	1, 2, 3, 4, 5	2
7.	Database checkpoint for custom check	2	1, 2, 3, 4, 6	2
8.	Database checkpoint for runtime record check	2	1, 2, 3, 4	1, 2
9.	a) Data driven test for dynamic test data submission b) Data driven test through flat files c) Data driven test through front grids c) Data driven test through front grids	2	1, 2, 3, 4	2
10.	a) Batch testing without parameter passing b) Batch testing with parameter passing	4	1, 2, 3, 4	2
11.	Data driven batch	3	1, 2, 3, 5	2
12.	Silent mode test execution without any interruption	4	1, 2, 3, 4	2
13.	Test case for calculator in windows application	4	1, 2, 3, 5	2, 3

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
DATA STRUCTURES LAB
LIST OF EXPERIMENTS MAPPING WITH COs, AND POs

S.No.	Name of the Experiment	COs mapping	POs mapping
1.	Write a program that uses functions to perform the following operations on singly linked list: i) Creation ii) Insertion iii) Deletion iv) Traversal.	C216.1	PO1, PO2, PO3, PO4
2.	Write a program that uses functions to perform the following operations on doubly linked list: i) Creation ii) Insertion iii) Deletion iv) Traversal.	C216.1	PO1, PO2, PO3, PO4
3.	Write a program that uses functions to perform the following operations on circular linked list: i) Creation ii) Insertion iii) Deletion iv) Traversal.	C216.1	PO1, PO2, PO3, PO4
4.	Write a program that implement stack (its operations) using i) Arrays ii) Pointers.	C216.2	PO1, PO2, PO3, PO4
5.	Write a program that implement Queue (its operations) using i) Arrays ii) Pointers.	C216.2	PO1, PO2, PO3, PO4

GPS Map

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SIGNALS AND SYSTEMS LAB
LIST OF EXPERIMENTS MAPPING WITH COs, POs and PSOs

S.No.	Name of the Experiment	COs mapping	POs and PSOs mapping
1.	Frequency Spectrum of continuous signal	C329.1 & C329.2	PO2, PO3, PO4, PO12, PS01, PS02
2.	Frequency Spectrum of impulse signals (Time Bounded signals)	C329.1 & C329.2	PO2, PO3, PO4, PO 12, PS01, PS02
3.	Frequency Response Analysis using any Software	C329.1 & C329.2	PO1, PO4, PO5, PO12, PS01, PS02
4.	Frequency Response Analysis for any Transfer Function (Preferably Transformer)	C329.1 & C329.2	PO1, PO4, PO5, PO 12, PS01, PS02
5.	Write a program to generate the discrete sequences (i) Unit step (ii) Unit impulse (iii) Ramp (iv) Periodic sinusoidal sequences. (Plot all the sequences).	C329.1	PO1, PO3, PO5, PO10, PS01, PS02
6.	Find the Fourier Transform of a Square pulse. (Plot its amplitude and phase spectrum).	C329.4	PO1, PO4, PO5, PO 12, PS01, PS02
7.	Write a program to convolve two discrete time sequences. (Plot all the sequences). Verify the result by analytical calculation.	C329.6	PO1, PO4, PO5, PO11, PS01, PS02
8.	Write a program to find the trigonometric Fourier series coefficients of a rectangular periodic signal. Reconstruct the signal by combining the Fourier series coefficients with appropriate weightings.	C329.4	PO1, PO4, PO5, PO 11, PS01, PS02

GPS

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING			
MICROCONTROLLERS LAB			
LIST OF EXPERIMENTS MAPPING WITH COs, AND POs			
S.No.	Name of the Experiment	COs mapping	POs mapping
8	Matrix Keypad to 8051	C328.1 & C328.3 & C328.5	PO4, PSO2
9	Sequence Generator Using Serial Interface in 8051.	C328.1 & C328.3	PO5, PSO2
10	8 bit ADC Interface to 8051.	C328.1	PO1, PSO2
11	Triangular Wave Generator through DAC interfaces to 8051.	C328.2 & C328.3	PO5, PSO2
ADDITIONAL EXPERIMENTS			
12	Program for matrix addition	C328.1 & C328.2	PO5, PO10, PSO2
13	Program for finding whether the given string is a palindrome or not	C328.1 & C328.2	PO5, PO10, PO2, PSO2

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including serial ports, digital-to-analog

GPS Map Camera

Fig 1(f) Course Outcome of All Departments

CO-PO mapping :
FORMAL
LANGUAGES AND
AUTOMATA THEORY
(C311)

III/I SEM YEAR 2022-
2023

CO ATTAINMENT=1.6

PROGRAM OUTCOME(PO)

	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
C311.1	3													2	1
C311.2		3		2									2	3	1
C311.3			2	3									2	3	
C311.4	1	2	2		3									2	1
C311.5	1				3								3		
C311.6		3		2											2
Avg	1. 25	2. 6	2	2. 3	3								2.3	2.5	1.25

SOFTWARE
ENGINEERING (312)

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

CO ATTAINMENT=1.6

	P O1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P O 11	P O 12	PS O1	PS O2	PS O3
C312.1	3				2								2	1	1
C312.2			3										2	1	
C312.3		1	2			1	2							2	1

C312.4							2			1					1
C312.5			3	1			1			2					
C312.6								1	1				2	1	1
AVG	3	1	2.6 6	1	2	1	1. 6	1	1. 5	1.5	0	0	2	1.2 5	1

COMPUTER NETWORKS (313)

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

CO ATTAINMENT=1.7

	O 1	O 2	O 3	O 4	O 5	O 6	O 7	O 8	O 9	O 10	O 11	O 12	SO 1	SO 2	SO 3
C313.1	3	1											3		
C313.2	3	3													
C313.3	3	3	2	2	2	2								2	
C313.4	3		3	1	2	2							3		
C313.5	3	3	3	2	1	2								2	
C313.6	3	3	3	1	1	1								2	
Avg	3	2. 3 3	1.8 3	1	1	1. 1 6							1	1	

WEB TECHNOLOGIES (C314)

III/I SEM YEAR 2022-
2023



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CO ATTAINMENT=2.2

	P O 1	I O 2	P O 3	I O 4	P O 5	I O 6	P O 7	I O 8	P O 9	O1 0	O1 1	O1 2	SO 1	SO 2	SO 3
C314.1	1		2		3								1	2	1
C314.2	2		3										1	1	1
C314.3	1		2		3								1	2	1
C314.4	1		2		3								1	2	1
C314.5	1		2		3								1	2	1
C314.6		1	2		3								1	2	2
Avg	1. 2	1	2. 17		3								1	1.8 3	1.1 7

CO ATTAINMENT=1.6

[illegible]

C315.4		2		3								2	2	
C315.5		2		3	1							2	2	
C315.6		2		3	1							2	2	
AVG	2	2.5		3	1							2	2.25	2

CO-PSO mapping
FORMAL
LANGUAGES AND
AUTOMATA THEORY
(C311)

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

	PO 1	P O 2	P O 3	P O 4	PO 5	P O 6	P O 7	P O 8	P O 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
C311.1	2.95													1.97	0.98
C311.2		2.79		1.86									1.86	2.79	0.93
C311.3			1.97	2.95									1.97	2.95	
C311.4	0.93	1.86	1.86		2.79									1.86	0.93
C311.5	0.96				2.87								2.87		
C311.6		2.79		1.86											1.86
Avg	0.943333	2.44	1.91	2.42	2.83								2.23	2.39	1.18

SOFTWARE ENGINEERING (312)

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

	P O1	P O2	P O3	P O4	PO 5	P O6	P O7	P O8	P O9	P O10	P O11	P O12	PS O1	PS O2	PS O3
C312.1	1.92				1.92								1.92	0.96	0.96
C312.2			2.96										1.97	0.99	
C312.3		0.93	1.87			0.93	1.87							1.87	0.93
C312.4							1.87			0.93					0.93
C312.5			1.97	0.99			0.99			1.97					
C312.6								0.99	0.99				1.97	0.99	0.99
		0.93	2.27	0.99	1.92	0.93	1.57	0.99	0.99	1.453333			1.96	1.20	0.95

COMPUTER NETWORKS (313)

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P O 11	P O 12	P SO 1	P SO 2	P SO 3
C313.1	2.88	0.96											2.88		
C313.2	2.8	2.8													
C313.3	2.8	2.8	1.87	1.87	1.87	1.87								1.87	
C313.4	2.8		2.8	1	1.87	1.87							2.8		
C313.5	2.96	2.96	2.96	1.97	0.99	1.97								1.97	
C313.6	2.8	2.8	2.8	0.93	0.93	0.93								1.87	
Avg	2.84	2.46	2.61	1.44	1.413333	1.66							2.84	1.90	

**WEB
TECHNOLOGIES
(C314)**

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P O 11	P O 12	P SO 1	P SO 2	P SO 3
C314.1	0.93		1.86		2.79								0.93	1.86	0.93

C314.2	1.97		2.9 5										0.98	0.98	0.98
C314.3	0.96		1.9 1		2.87								0.96	1.91	0.96
C314.4	0.96		1.9 1		2.87								0.96	1.91	0.96
C314.5	0.98		1.9 7		2.95								0.98	1.97	0.98
C314.6		0. 9 8	1.9 7		2.95								0.98	1.97	1.97
	1.15 8666 667	0. 9 8	2.1 0		2.89								0.9 7	1.7 7	1.1 3

**Principles of
Programming
Languages (315)**

III/I SEM YEAR 2022-
2023

PROGRAM OUTCOME(PO)

	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P O 11	P O 12	SO 1	SO 2	SO 3
C315.1	1.97	2. 9 5											2.95		2.95
C315.2		1. 9 7		2. 9 5									1.97		2.95
C315.3		1. 9 1		2. 8 7									1.91	1.91	2.87

C315.4		1. 9 1		2. 8 7									1.91	1.91	2.87
C315.5		1. 9 7		2. 9 5	0.98							1.9 7		1.97	2.95
C315.6		1. 9 7		2. 9 5	0.98							1.9 7		1.97	2.95
AVG	1.97	2. 1 1		2. 9 2	0.98							1.9 7	2.1 9	1.9 4	