

	<p>PARUL UNIVERSITYs FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES 4th SEMESTER B. TECH PROGRAMME PROBABILITY, STATISTICS AND NUMERICAL METHODS (303191251) ACADEMIC YEAR 2024-25 UNIT: 1 CORRELATION, REGRESSION AND CURVE FITTING</p>
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TUTORIAL-2

1	Fit the line of best fit to the following data.							
	x	0	5	10	15	20	25	
	y	12	15	17	22	24	30	
2	Fit the line of best fit to the following data.							
	x	19	25	30	36	40	45	50
	y	76	77	79	80	82	83	85
3	Fit the straight line to the following data.							
	x	1.53	1.78	2.60	2.95	3.42		
	y	33.50	36.30	40.00	45.85	53.40		
4	Fit the parabola to the following data.							
	x	-2	-1	0	1	2		
	y	1.0	1.8	1.3	2.5	6.3		
5	Fit curve $Y = AX + BX^2$ to the following data.							
	x	-2	-1	0	1	2		
	y	-72	-46	-12	35	93		
6	Fit a parabola $y = a + bx + cx^2$ to the following data.							
	X	0	2	5	10			
	Y	4	7	6.4	-6			
7	Fit an exponential $y = ab^x$ to the following data.							
	X	2	3	4	5	6		
	Y	144	172.3	207.4	248.8	295.5		
8	Fit an exponential $y = ax^b$ to the following data.							
	X	0	2	4				
	Y	5.012	10	31.62				
9	Fit an exponential $y = ax^b$ to the following data.							
	X	1	2	3	4			
	Y	2.50	8.00	19.00	50.00			

