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SLO to PLO MATRIX		nolo ient	Sring	lvir				
ENGINEERING TECNOLOGY		at a suffic	principle ır enginee	oblem so ign solut				
State Approved Degree Program (32-34) Units	PLOs	grate com	gineering four-yea	ly the pr sent des				
This program generally prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in a wide variety of projects. This includes instruction in various engineering support functions for research, production, and operation, and application to specific engineering specialties. This discipline focuses on Engineering Technology, Mechanical Engineering and Civil Engineering (Engineering Technicians).	۵.	PLO 1: An ability to integrate computer technology in the field of Engineering Technology at a sufficient level for entry-level employment.	PLO 2: Knowledge of engineering principles necessary for transfer to a four-year engineering institution.	<b>PLO 3:</b> An ability to apply the problem solving process to create and present design solutions.	PLO 4:	PLO 5:	PLO 6:	PLO 7:
CERTIFICATE/PROGRAM: ENGINEERING TECHNOLOGY								
COURSE: Engineering /Electronics 27								
SLO 1 Define technical communications.								
SLO 2 Recognize and identify characteristics of technical communications.								
SLO 3 Identify the needs of a given audience.								
SLO 4 Collect and organize information.								
SLO 5 Create technical documents in accordance with conventional formats.				X				
SLO 6 Write descriptive and operational instructions for nontechnical users of technical information.								
SLO 7 Properly integrate graphs, tables, and references into technical reports.				X				
SLO 8 Conduct an informational interview.								
SLO 9 Assemble a personal data book.		X						
SLO 10 Compose a personal resume with cover letter.								
COURSE: Electronics 21								
SLO 1 Solve basic electronic problems involving current, voltage, and power.				X				
SLO 2 Explain the relationship between current, voltage, resistance and power.								
SLO 3 Discuss the relationship between electricity and magnetism.								
SLO 4 Describe the construction, operation, and purpose of resistors, potentiometers, switches, fuses, relays, and batteries.								
SLO 5 Describe the operation of a basic AC generator.								
SLO 6 Define the terms inductance, capacitance, and resonance, and explain the relationship of inductors and capacitors in various circuit configurations.								
SLO 7 Explain transformer action and determine the voltage, current, and power ratios for a given transformer.								

NORCO COLLEGE SLO to PLO MATRIX  ENGINEERING TECNOLOGY  State Approved Degree Program (32-34) Units  This program generally prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in a wide variety of projects. This includes instruction in various engineering support functions for research, production, and operation, and application to specific engineering specialties. This discipline focuses on Engineering Technology, Mechanical Engineering and Civil Engineering (Engineering Technicians).	PLOs	PLO 1: An ability to integrate computer technology in the field of Engineering Technology at a sufficient level for entry-level employment.	PLO 2: Knowledge of engineering principles necessary for transfer to a four-year engineering institution.	PLO 3: An ability to apply the problem solving process to create and present design solutions.	PLO 4:	PLO 5:	PLO 6:	PLO 7:
COURSE: Engineering 21								
SLO 1 Apply the basic principles of mechanical drawing to the solution of various drawing problems.				X				
SLO 2 Set up drawing parameters appropriate to various design problems.								
SLO 3 Perform necessary geometric constructions to solve the shape description of typical drawing problems.								
SLO 4 Represent three-dimensional drawing problems through two-dimensional graphic communication.								
SLO 5 Analyze and solve design problems using the principles of orthographic projection.			X					
SLO 6 Visualize three-dimensional drawing problems and various types of two-dimensional cross-sections.								
SLO 7 Demonstrate the technique of part dimensioning (shape description).								
SLO 8 Two-dimensionally represent three-dimensional industrial parts in isometric pictorials.								
SLO 9 Analyze industrial part drawings to determine if auxiliary views are necessary for graphic communication.	or							
SLO 10 Prepare complete industrial part drawings required for the manufacturing process.								
SLO 11 Recognize the symbols of Geometric Dimensioning and Tolerancing.				X				

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	NORCO COLLEGE SLO to PLO MATRIX	PLOs	PLO 1:	PLO 2:	PLO 3:.	PLO 4:	PLO 5:	PLO 6:	PLO 7:
COURS	SE: Engineering 22								
SLO 1	Demonstrate the technique of machine drawing as it serves the process of communication between the designer and manufacturer.			X					
SLO 2	Apply principles of mechanical drawing to the solution of various drawing problems.				X				
SLO 3	Demonstrate the sufficient skills necessary in making working drawings to enable him/her to begin a career in drafting.								
SLO 4	Analyze and create drawing problems based upon the synthesis of information presented in lecture, from their reading, and from technical reference material.								
SLO 5									
SLO 6									
COURS	SE: Engineering 30								
SLO 1	Demonstrate the technique of mechanical and architectural drawing using computer assistance.		X						
SLO 2	Set up drawing parameters in order to create, store and retrieve drawings.		X						
SLO 3	Synthesize information and apply critical thinking skills to solve instructional problems typical of industry.			X					
SLO 4	Apply the principles of two-dimensional CAD in the solution of various design problems.				X				
SLO 5	Demonstrate CAD skills and work habits that will lead to transfer and future employment.		X						
SLO 6									
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COURSE: Mathematics 11 SLO 1 Use polynomial functions to model applications. SLO 2 Apply exponential and logarithmic functions in business and humanities. SLO 3 Apply permutations, combinations, and the Binomial Theorem. SLO 4  COURSE: Mathematics 36 GOURSE: Mathematics 36 SLO 1 Identify special triangles and their related angle and side measures. SLO 2 Evaluate the trigonometric function of an angle in degree and radian measure. SLO 3 Manipulate and simplify a trigonometric expression. SLO 4 Solve trigonometric functions and apply changes in period, phase and amplitude to generate new graphs. SLO 6 Prove trigonometric function of an angle in degree and radian measure. SLO 7 Identify special triangles and their related angle and side measures. SLO 8 Evaluate the trigonometric functions and apply changes in period, phase and amplitude to generate new graphs. SLO 9 Manipulate and simplify a trigonometric expression. SLO 10 Solve trigonometric function of an angle in degree and radian measure. SLO 9 Manipulate and simplify a trigonometric expression. SLO 10 Solve trigonometric functions and apply changes in period, phase and amplitude to generate new graphs. SLO 11 Solve trigonometric functions and apply changes in period, phase and amplitude to generate new graphs. SLO 12 Prove trigonometric functions and apply changes in period, phase and amplitude to generate new graphs. SLO 13 Identify special triangles, and applications. SLO 14 Identify special triangles, and applications. SLO 15 Identify special triangles, and applications. SLO 16 Identify special triangles and their related angle and side measures. SLO 2 Identify special triangles and trigonometric expression. SLO 3 Identify special triangles and trigonometric expression. SLO 4 Identify special triangles and trigonometric expression. SLO 4 Identify special triangles and trigonometric expression. SLO 5 Identify special triangles and trigonometric expression. SLO 6 Identify special triangles and trigonometric expression. SLO 7 Identify special triangles and t		NORCO COLLEGE SLO to PLO MATRIX	PLOs	PL0 1:	PLO 2:	PLO 3:	PLO 4:	PLO 5:	PLO 6:	PLO 7:
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