University of Central Punjab

Student PLO Transcript

Student Name	Registration No. #	Father's Name	Program
Hassan Nawaz	L1F21BSME0009	HAMID NAWAZ	BS-ME

PLO	Program Learning Outcome Name	Term	Course	Wt.	KPI	CLO	Status
PLO-1	**Engineering Knowledge** **PLO Score% : 71** **PLO Benchmark : 50**						
CLO-1:	Express a system of linear equations in the form of matrices.	S23	MEMT2043	1	50	90	YES
CLO-1:	Explain the concepts related to kinematics and kinetics of particles / Rigid bodies	F22	ME2533	1	50	58	YES
CLO-1:	Summarize the working of air standard, refrigeration and heat pump cycles and their applications.	F22	ME2423	1	50	72	YES
CLO-1:	Explain different casting, forging and forming processes.	F22	ME2813	1	50	45	NO
CLO-1:	Interpreting laws/rules/processes to accurately identify fundamental electrical quantities in DC resistive networks.	S22	MEEE1012	1	50	60	YES
CLO-1:	Students will be able to express and use equations of basic geometric curves and surfaces in two and three dimensions.	S22	MEMT1023	1	50	94	YES
CLO-1:	The students will be able to explain various computer related terms and will be able to demonstrate their understanding of various programs so as to predict the output and identify logical and syntax	F21	MECST10111		50	77	YES
CLO-1:	Student will be able to describe basic measuring, marking, fitting/cutting tools & sand casting terminology.	F21	ME1312	1	50	63	YES
CLO-1:	Students will be able to recognize the concepts behind the fundamental principles of physics.	F21	ME1113	1	50	75	YES
CLO-1:	To draw the orthographic and isometric views of mechanical components by free hand and using drawing instruments.	F21	ME1212	1	50	64	YES
CLO-2:	Find the thermodynamics properties of pure substances using tables and charts and solve simple problems.	S22	ME1413	1	50	67	YES
CLO-2:	Students will be able to understand/explain the physical meaning of the various differential and integral operations carried out on scalar and vector fields.	S22	MEMT1023	1	50	70	YES
CLO-2:	Students will be able to generalize their concepts through conceptual questions of basic physics.	F21	ME1113	1	50	81	YES
CLO-2:	Students will be able to recognize the instantaneous rates of change, approximate changes and extreme values of a function.	F21	MEMT1013	1	50	70	YES
CLO-3:	Explain different welding techniques and types of heat treatment.	F22	ME2813	1	50	84	YES
PLO-2	**Problem Analysis** **PLO Score% : 65** **PLO Benchmark : 50**						
CLO-1:	Ability to comprehend research literature of all types.	S22	MEHU1023	1	50	64	YES
CLO-1:	To solve engineering statics problems using free-body diagram and equations of equilibrium.	S22	ME1513	1	50	67	YES
CLO-1:	Reproduce electrical circuit satisfying studied laws and theorems and accurately trace the varying parameters of relevance in laboratory environment.	S22	MEEE1011	1	50	80	YES
CLO-1:	Students will be able to discuss tangents, normals and related rates of change using differentiation.	F21	MEMT1013	1	50	59	YES

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CLO-1:	Apply basic knowledge of mechanics of material in calculating stresses in different parts.	F22	ME2523	1	50	41	NO
CLO-1:	Determine torques and power of mechanical devices like screw threads, bearings, pulleys and others.	F22	ME2223	1	50	26	NO
CLO-2:	Solve multiple load, multiple source DC networks applying linear circuit analysis techniques.	S22	MEEE1012	1	50	40	NO
CLO-2:	Analyze forces in members of trusses by using method of joints and method of sections.	S22	ME1513	1	50	80	YES
CLO-2:	Analyse bars and beams through torsional/flexural formulas and shear force/ bending moment diagrams.	F22	ME2523	1	50	54	NO
CLO-2:	Solve problems related to mechanical devices like screw jack, clutches and bearings and pulleys.	F22	ME2223	1	50	69	YES
CLO-2:	Solve problems related to kinematics and kinetics of particles / Rigid bodies	F22	ME2533	1	50	55	YES
CLO-3:	Implement various operations on matrices to solve a system of linear equations.	S23	MEMT2043	1	50	76	YES
CLO-3:	Students will be able to carry out various differential and integral operations on scalar and vector fields.	S22	MEMT1023	1	50	100	YES
CLO-3:	Apply first and second law of thermodynamics to solve problems related to various systems and cycles.	S22	ME1413	1	50	68	YES
CLO-3:	Compute power characteristics in hybrid loads of AC circuits and evaluate behavior of capacitor/inductor in AC/DC circuit.	S22	MEEE1012	1	50	49	NO
CLO-3:	Explain the concept of static and dynamic friction by solving engineering mechanics problems.	S22	ME1513	1	50	82	YES
CLO-3:	Students will be able to solve various problems of integration using an appropriate technique.	F21	MEMT1013	1	50	76	YES
CLO-3:	Students will be able to compute mathematical relationships governing fundamental laws of physics.	F21	ME1113	1	50	64	YES
CLO-3:	Calculate various motion parameters related to the kinematics of rigid bodies under translation and rotation / general plane motion.	F22	ME2533	1	50	67	YES
CLO-4:	Compute various parameters such as speed range and link lengths for different types of governors.	F22	ME2223	1	50	20	NO
PLO-3	**Design/Development of Solutions**	**PLO Score% : 49**		**PLO Benchmark : 50**			
CLO-2:	Use appropriate process for manufacturing a component as per its functional requirements and constraints.	F22	ME2813	1	50	58	YES
CLO-3:	Analyze different gear train mechanisms; velocity ratios and no. of teeth for the given problems.	F22	ME2223	1	50	29	NO
CLO-3:	Develop safe solutions for mechanical members subjected to fatigue loads and/or with stress concentrates.	F22	ME2523	1	50	61	YES
PLO-4	**Investigation**	**PLO Score% : 0**		**PLO Benchmark : 50**			
CLO-1:	Explain mechanical and physical characteristics of materials and comprehend the criteria for the selection of suitable materials for a given application.	S23	ME1613	1	50	0	NO

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CLO-2:	Explain structure and properties of ferrous materials with the help of phase diagrams and understand the heat treatment process for ferrous materials.	S23	ME1613	1	50	0	NO
CLO-3:	Describe characteristics and applications of common non-ferrous metals and ceramic materials, which are of common industrial use.	S23	ME1613	1	50	0	NO
CLO-4:	Describe structure and properties of polymeric materials and composites.	S23	ME1613	1	50	0	NO
PLO-5	**Modern Tool Usage**	**PLO Score% : 77**		**PLO Benchmark : 50**			
CLO-1:	Student will be able to apply their learning of different software such as of Microsoft Office and programming environments such as MALAB or Visual Basic C++ through assignments given to them in the l	F21	MECSL10111	1	50	100	YES
CLO-2:	To reproduce simple engineering drawings on a commercial CAD software.	F21	ME1212	1	50	90	YES
CLO-3:	Demonstrate ability to apply modern communication tools to explain research in a systematic manner.	S22	MEHU1023	1	50	60	YES
PLO-7	**Environment and Sustainability**	**PLO Score% : 64**		**PLO Benchmark : 50**			
CLO-2:	Compute various thermodynamic properties/parameters/efficiencies of different energy conversion devices.	F22	ME2423	1	50	56	YES
CLO-3:	Analyze the combustion process of various fuels emissions and environmental effects.	F22	ME2423	1	50	72	YES
PLO-8	**Ethics**	**PLO Score% : 73**		**PLO Benchmark : 50**			
CLO-2:	Complies with the safety instructions, rules and regulations.	F22	ME2421	1	50	73	YES
CLO-3:	Students will be able to apply concepts of Islamic ethics or morality to the humanity and Islamic Shari'ah according to the situations they will face in their future life.	F21	MEHU1053	1	50	73	YES
PLO-9	**Individual and Team Work**	**PLO Score% : 59**		**PLO Benchmark : 50**			
CLO-1:	Manipulate the apparatus to take requisite measurement necessary to perform thermodynamic analysis.	F22	ME2421	1	50	58	YES
CLO-2:	The students will be able to better read, write, speak English.	F21	MEHU1013	1	50	61	YES
CLO-3:	The students will be able to demonstrate ability to comprehend and evaluate written material and paraphrase the same correctly.	F21	MEHU1013	1	50	56	YES
PLO-10	**Communication**	**PLO Score% : 66**		**PLO Benchmark : 50**			
CLO-1:	The students will be able to actively discuss, respond and have better communication.	F21	MEHU1013	1	50	73	YES
CLO-1:	Describe and effectively communicate thermodynamics terms, quantities, laws, processes and their mathematical formulations.	S22	ME1413	1	50	71	YES
CLO-2:	Ability to draft and analyze a technical report with all its standardized prerequisites.	S22	MEHU1023	1	50	52	NO
PLO-11	**Project Management**	**PLO Score% : 70**		**PLO Benchmark : 50**			
CLO-2:	Demonstrate management skills and apply engineering principles for the open-ended problem solution.	F22	ME2531	1	50	70	YES

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PLO-12	**Lifelong Learning**	**PLO Score% : 76**		**PLO Benchmark : 50**			
CLO-1:	Students will be able to describe the sources of Islam, basic terminology and their importance in the learning of Islam.	F21	MEHU1053	1	50	80	YES
CLO-2:	Students will be able to explain why the faiths and believes are the basis of Islam.	F21	MEHU1053	1	50	72	YES