Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**APPLIED THERMODYNAMICS**		
COURSE CODE:	MECH PCC- 01	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	NLP

COURSE OUTCOMES:

CO NO.	Statement of Course Outcomes
MECH PCC- 01.1	Apply mathematics and laws of thermodynamics to solve engineering problems.
MECH PCC- 01.2	Evaluate steam properties and analyze the performance of steam generators using the steam table.
MECH PCC- 01.3	Apply knowledge of basic thermodynamic concepts for the analysis of vapour power cycles
MECH PCC- 01.4	Describe the thermodynamics of steam nozzles and analysis of steam turbine
MECH PCC- 01.5	Explain steam condensers for various applications.
MECH PCC- 01.6	Calculate various performance parameters of reciprocating air compressors & determine lubricant properties.

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**MECHANICS OF MATERIALS**		
COURSE CODE:	MECHPCC- 03	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	SSK/ASK

COURSE OUTCOMES:

CO NO.	Statement of Course Outcomes
MECHPCC- 03.1	Demonstrate fundamental knowledge of different types stress and loading condition.
MECHPCC- 03.2	Compute the stresses in basic mechanical components under axial, torsional and flexural loading.
MECHPCC- 03.3	Draw and interpret SFD and BMD for different types of loads and support conditions.
MECHPCC- 03.4	Develop shear force and bending moment diagrams to analyze bending and shear stress offered by beam.
MECHPCC- 03.5	Determine slope and deflection of beam under concentrated and uniformly distributed load.

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**MANUFACTURING PROCESSES**		
COURSE CODE:	MECHPCC-02	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	ASK/SCM

COURSE OUTCOMES:

CO NO.	Statement of Course Outcomes
MECHPCC-02.1	Demonstrate the different types of pattern and explain detailed casting process.
MECHPCC-02.2	Identify appropriate melting and molding technique with classification of different defects in casting.
MECHPCC-02.3	Select and explain in brief about fabrication process for engineering problems.
MECHPCC-02.4	Illustrate and compare the different types of forming processes.
MECHPCC-02.5	Select suitable use of various advanced forming process.
MECHPCC-02.6	Illustrate different rapid prototyping techniques.

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**MINI-PROJECT ON WORKSHOP PRACTICE**		
COURSE CODE:	Semester-III MECHFP-01	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	ASK/SCM

COURSE OUTCOMES:

CO NO.	Statement of Course Outcomes
MECHFP-01.01	Demonstrate practical knowledge
MECHFP-01.02	Develop manufacturing skills
MECHFP-01.3	Enhance drawing understanding skills
MECHFP-01.4	Cost and time estimation
MECHFP-01.5	Enhance skills of PPC
MECHFP-01.6	Do material requirement and planning

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**MINI-PROJECT ON WORKSHOP PRACTICE**		
COURSE CODE:	Semester-III MECHFP-01	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	ASK/SCM

COURSE OUTCOMES:

CO NO.	Statement of Course Outcomes
MECHFP-01.01	Demonstrate practical knowledge
MECHFP-01.02	Develop manufacturing skills
MECHFP-01.3	Enhance drawing understanding skills
MECHFP-01.4	Cost and time estimation
MECHFP-01.5	Enhance skills of PPC
MECHFP-01.6	Do material requirement and planning

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Fundamentals of Material Science and Engineering**		
COURSE CODE:	Semester-IIIMECHMDM-01A	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	ASK/SCM

COURSE OUTCOMES:

CO NO.	Statement of Course Outcomes
MECHMDM-01A.01	Describe and distinguish between different engineering materials on the basis of their structure.
MECHMDM-01A.02	Select suitable Ferrous material for various Engineering applications.
MECHMDM-01A.3	Select suitable Non-ferrous material for various Engineering applications.
MECHMDM-01A.4	Classify and select different types of Polymer materials for various Engineering applications.
MECHMDM-01A.5	Explain classification, properties and applications of Ceramics materials.
MECHMDM-01A.6	Describe the advantages and limitations of New materials over conventional materials

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**KINEMATICS AND THEORY OF MACHINE**		
COURSE CODE:	Semester- IV MECHPCC-04	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	ASK/SCM

COURSE OUTCOMES:

CO NO.	Statement of Course Outcomes
MECHPCC-04.01	Select Mechanism for different applications
MECHPCC-04.02	Perform velocity and acceleration analysis of mechanisms
MECHPCC-04.3	Develop cam profile for given set of motion inputs.
MECHPCC-04.4	Select gears and design gear trains for given application
MECHPCC-04.5	Explain types of governors and their characteristics
MECHPCC-04.6	Do balancing of rotary and reciprocating masses

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**MACHINE DRAWING**		
COURSE CODE:	Semester- IV MECHPCC- 05	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	ASK/SCM

COURSE OUTCOMES:

CO NO.	Statement of Course Outcomes
MECHPCC- 05.01	Apply BIS Convention in drawing mechanical components and assembly drawings
MECHPCC- 05.02	Use geometrical, dimensions, tolerances and symbols in part and assembly drawing.
MECHPCC- 05.3	Draw assembly, details drawing and identify applications of same

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**FLUID MECHANICS AND FLUID MACHINES**		
COURSE CODE:	Semester- IV MECHPCC-06	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	ASK/SCM

COURSE OUTCOMES:

CO NO.	Statement of Course Outcomes
MECHPCC-06.01	Explain and apply principles of fluid statics to analyze the equilibrium and stability of submerged and floating bodies.
MECHPCC-06.02	Apply mathematical models to describe fluid motion, enabling the analysis of streamlines, potential flow, and velocity components.
MECHPCC-06.3	Illustrate major and minor energy losses in pipe systems using empirical equation
MECHPCC-06.4	Apply dimensional analysis to predict forces on immersed bodies, deriving dimensionless parameters for a comprehensive understanding of fluid properties.
MECHPCC-06.5	Analyze impulse and reaction water turbines.
MECHPCC-06.6	Calculate various parameters of centrifugal Pumps.

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**ADVANCED LAB ON CAD**		
COURSE CODE:	Semester- IV MECHVSC- 01	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

CO NO.	Statement of Course Outcomes
MECHVSC- 01.01	Classify the drafting & modeling techniques.
MECHVSC- 01.02	Use software package for different drafting & modeling requirements of industry.
MECHVSC- 01.3	Perform preliminary steps required while working on high-end CAD/CAM software's.
MECHVSC- 01.4	Develop logical programs required for parametric modeling.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A+' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A+' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**MACHINE DRAWING & CAD**		
COURSE CODE:	ME-214	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	HSD/ADJ

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Apply BIS Convention in drawing mechanical components and assembly drawings.
CO-2	Use geometrical, dimensions, tolerances and symbols in part and assembly drawing.
CO-3	Draw assembly, details drawing and identify applications of same.
CO-4	Prepare 2D drawing and 3Dof machine components using drafting software.

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**INTERNAL COMBUSION ENGINES**		
COURSE CODE:	ME-2152	**ACADEMIC YEAR :**	2024-25
CLASS :	**S.Y. B.Tech** MECH	**NAME OF SUBJECT TEACHER:**	RKS

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Recognize and understand the reasons for differences in the construction of different types of internal combustion engines.
CO-2	Evaluate differences among operating characteristics of different engine types and designs.
CO-3	Select the appropriate engine for a given application.
CO-4	Conduct performance tests on engines and Compare experimental results with Theoretical predictions.
CO-5	Compare experimental results with theoretical predictions and make proper justifications.

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Advanced Mathematics & Statistics**		
COURSE CODE:	**OE-01A**	**ACADEMIC YEAR :**	**2024-25**
CLASS :	**Second Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	SVB

COURSE OUTCOMES:

CO NO.	Statement of Course Outcomes
OE-01A.1	Compute Higher Order Linear Differential equations.
OE-01A.2	Determine the solution of Partial Differential equation.
OE-01A.3	Compute Mean, Mode, Median and Standard Deviations of given data.
OE-01A.4	Solve problems by Binomial, Poisson and Normal distribution.
OE-01A.5	Compute relationship between variables.
OE-01A.6	Use large sample test for testing hypotheses concerning two population means and chi-square test is used to compare observed results with expected results.

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Fluid Mechanics and Fluid Machines**		
COURSE CODE:	**ME-223**	**ACADEMIC YEAR :**	**2024-25**
CLASS :	**Second Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Solve issues related to fluid statics, kinematics& dynamics.
CO-2	Apply Bernoulli's theorem and continuity equation in real world situations
CO-3	Measure and calculate Head loss of fluid
CO-4	Perform dimensional analysis for research problems in fluid mechanics
CO-5	Explain construction and working of different types of turbines, centrifugal pump
CO-6	Analyze the performance of water turbines and centrifugal pumps for a given conditions.

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Kinematics and Theory of Machines**		
COURSE CODE:	**ME-224**	**ACADEMIC YEAR :**	**2024-25**
CLASS :	**Second Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Select mechanism for different applications
CO-2	Perform velocity and acceleration analysis of mechanisms
CO-3	Develop cam profile for given set of motion inputs.
CO-4	Select gears and design gear trains for given application
CO-5	Explain types of governors and their characteristics
CO-6	Do balancing of rotary and reciprocating masses.

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Mechatronic Systems**		
COURSE CODE:	**ME2251**	**ACADEMIC YEAR :**	**2024-25**
CLASS :	**Second Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Explain types and applications of sensors and actuators in mechatronic systems.
CO-2	Explain computer networks and their applications.
CO-3	Program microcontrollers in assembly/and or C/C++/Python/Java to demonstrate interfacing with sensors and actuators
CO-4	Program PLCs using ladder logic (both on simulators and actual hardware).
CO-5	Explain what is interfacing and how to do it.
CO-6	Build and program a mechatronic system which will accept data from input and sensors and control an output/actuator using any microprocessor/ microcontroller board (Arduino or Raspberry Pi can also be used)

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Power Plant and Energy Engineering**		
COURSE CODE:	**ME2252**	**ACADEMIC YEAR :**	**2024-25**
CLASS :	**Second Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Describe forms of energy source and their impact on environment.
CO-2	Calculate performance parameters related to power plant.
CO-3	Explain the economics of power plant & categorize power plant as base load & peak load plant.
CO-4	Compare various renewable energy sources with their features.
CO-5	Recognize energy conservation opportunities and explain energy audit concept.

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Solid Mechanics**		
COURSE CODE:	**ME2253**	**ACADEMIC YEAR :**	**2024-25**
CLASS :	**Second Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	To analyse the principal stresses and thermal stresses
CO-2	To Investigate the distribution of the two dimensional stresses using Airy stress function.
CO-3	To analyse the stresses in rotating disks and pressurized cylinders.
CO-4	To locate the shear centre in design of thin open cross sections subjected to the transverse loading.
CO-5	To analyse the crippling load in the design of columns.
CO-6	To use the energy methods based on application.

Savitribai Phule Shikshan Prasarak Mandal's
SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**MECHANICAL WORKSHOP-I**		
COURSE CODE:	**ME 226**	**ACADEMIC YEAR :**	**2024-25**
CLASS :	**Second Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	To operate different machine tools such as grinders, lathes, drilling machines etc.
CO-2	To machine the component as per specified dimensions.
CO-3	To develop the skills necessary for engineering practices like joining and forming processes.
CO-4	To Choose and apply the appropriate methods for pattern making & sheet metal working I. Preparation of Wooden pattern (single piece) for a simple component:

Department of Mechanical Engineering

NAME OF COURSE:	**Electrical Technology**		
COURSE CODE:	**ME227**	**ACADEMIC YEAR :**	**2024-25**
CLASS :	**Second Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Identify and select suitable DC motor /AC motor/induction motor and its speed control method for given industrial application.
CO-2	Calculate performance parameters of DC motor/ single phase induction motor/three phase induction motor through load test.
CO-3	Explain interfacing and write basic program using microprocessors 8085 trainer/ microcontrollers 8051/simulator.
CO-4	Interface sensor with Arduino Uno microcontroller board.
CO-5	Interface and control Electrical motors with Arduino Uno board

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

Outward No. : SKNSCOE/MECH / Date:

NAME OF COURSE:	CAD-CAM-CAE		
COURSE CODE:	ME-312	**ACADEMIC YEAR :**	2024-25
CLASS :	T.Y. B.Tech MECH	**NAME OF SUBJECT TEACHER:**	USG

NO.	COURSE OUTCOMES
CO-1	Solve CAD related problems from industries.
CO-2	Elaborate the concept of geometric modelling
CO-3	Create solid model in CAD/CAM/CAE environment according to predefined parameters
CO-4	Analyze Geometric transformations and FEA applications to mechanical component.
CO-5	Solve CAM related problems of manufacturing industries.
CO-6	Develop CNC part programming to operate CNC milling & turning machine to manufacture a Mechanical part.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	Advanced Programming Concepts – I (Python)		
COURSE CODE:	ME-316	**ACADEMIC YEAR :**	2024-25
CLASS :	T.Y. B.Tech MECH	**NAME OF SUBJECT TEACHER:**	JKH/AAM

NO.	COURSE OUTCOMES
CO-1	Describe basic concepts in Python programming
CO-2	Write python script using procedure-oriented approach
CO-3	Use Python standard library modules in writing Python scripts for problem solving
CO-4	Write Python scripts in object-oriented approach.
CO-5	Apply file handling options available in Python in programming
CO-6	Exhibit ability to use python to provide solution to a given problem.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	Design of Machine Elements		
COURSE CODE:	ME-311	**ACADEMIC YEAR :**	2024-25
CLASS :	T.Y. B.Tech MECH	**NAME OF SUBJECT TEACHER:**	PPK

NO.	COURSE OUTCOMES
CO-1	Design the machine elements subjected to axial loads
CO-2	Design mechanical component subjected to fluctuating loads
CO-3	Implement standardization in design of machine elements
CO-4	Design the machine elements subjected to twisting and bending moments.
CO-5	Develop practical and theoretical approaches to different mechanical component designs.
CO-6	Analyse and design mechanical components on the basis of different design aspects

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	Industrial Engineering		
COURSE CODE:	ME-313	**ACADEMIC YEAR :**	2024-25
CLASS :	T.Y. B.Tech MECH	**NAME OF SUBJECT TEACHER:**	ASA

NO.	COURSE OUTCOMES
CO-1	Analyze & measure productivity.
CO-2	Perform method study
CO-3	Apply knowledge of ergonomics and industrial safety
CO-4	Perform work measurement'
CO-5	Select facility location and design plant layout
CO-6	Apply knowledge of job evaluation and merit rating

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	Industrial Hydraulics & Pneumatics		
COURSE CODE:	ME-315	**ACADEMIC YEAR :**	2024-25
CLASS :	T.Y. B.Tech MECH	**NAME OF SUBJECT TEACHER:**	DRG

NO.	COURSE OUTCOMES
CO-1	Choose hydraulic & pneumatic systems for proper applications
CO-2	Explain construction & working of hydraulic & pneumatic system components/ devices
CO-3	Select appropriate actuators for a particular application
CO-4	Draw symbols of hydraulic & pneumatic system components/ devices
CO-5	Prepare hydraulic & pneumatic circuits for various applications
CO-6	Identify process flow on a hydraulics or pneumatic schematic

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**METALLURGY**		
COURSE CODE:	ME-314	**ACADEMIC YEAR :**	2024-25
CLASS :	T.Y. B.Tech MECH	**NAME OF SUBJECT TEACHER:**	HSK

NO.	COURSE OUTCOMES
CO-1	Select ferrous alloys for engineering applications.
CO-2	Demonstrate the significance of heat treatment processes for engineering applications
CO-3	Apply powder metallurgy for manufacturing of products.
CO-4	Establish the characteristics of non-ferrous alloys
CO-5	Select suitable non-destructive testing method for products.
CO-6	Establish the characteristics of composite materials.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	Metrology		
COURSE CODE:	ME-318	**ACADEMIC YEAR :**	2024-25
CLASS :	T.Y. B.Tech MECH	**NAME OF SUBJECT TEACHER:**	SRK

NO.	COURSE OUTCOMES
CO-1	Calibrate the instruments like vernier calliper and micrometer.
CO-2	Perform angle measurement using a sine bar
CO-3	Measure various gear tooth elements using gear tooth vernier caliper.
CO-4	Use dial indicator to check Lathe machine parameters like parallelism, squareness, alignment etc.
CO-5	Measure effective diameter of a screw thread
CO-6	Select adequate limits and fits for various applications.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Transmission System Design**		
COURSE CODE:	**ME-321**	**ACADEMIC YEAR :**	2024-25
CLASS :	**Third Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Design the spur gear considering criterion of bending and wear for particular application.
CO-2	Design the helical gear considering criterion of bending and wear as per required application.
CO-3	Design the Bevel gear considering criterion of bending and wear at particular location.
CO-4	Design the worm gear considering criterion of strength, wear and thermal as per requirement.
CO-5	Select the bearing from manufacturer's catalogue and to use for suitable application.
CO-6	Calculate of dimensions of clutches and brakes required for an application

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Instrumentation and Control Engineering**		
COURSE CODE:	**ME-322**	**ACADEMIC YEAR :**	2024-25
CLASS :	**Third Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Analyse the generalised measurement system, identify various static & dynamic characteristics of instruments, make use of various measuring instruments for measurement Of temperature, pressure and vacuum.
CO-2	Use various measuring instruments for measurement of displacement, speed and flow.
CO-3	Use various measuring instruments for measurement of Force, torque and strain.
CO-4	Identify manual & automatic control systems, open and closed loop systems, various modes of control, to apply block diagram algebra to determine transfer function of a given control system
CO-5	Construct Root Locus for a given control system and comment on system stability.
CO-6	Construct Bode Plots for a given control system and comment on system stability.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Heat Transfer**		
COURSE CODE:	**ME-323**	**ACADEMIC YEAR :**	2024-25
CLASS :	**Third Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Compare and distinguish the Modes of heat transfer.
CO-2	Apply the laws of conduction heat transfer to the analysis
CO-3	Apply the different laws to the radiation heat transfer.
CO-4	Analyze heat transfer in case of natural & forced convection
CO-5	Explain heat transfer in boiling & condensation.
CO-6	Analyze the effectiveness, rating of heat exchangers.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Industrial & Quality Management**		
COURSE CODE:	**ME-324**	**ACADEMIC YEAR :**	2024-25
CLASS :	**Third Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Understand basics of Industrial Management and their functions.
CO-2	Discuss and demonstrate management functions to various organisations.
CO-3	Explain and apply various quality control/statistical tools for industrial / organizational problems.
CO-4	Understand working of various departments in industry
CO-5	Understand various tools and techniques of total quality management used in industry

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Plastic Engineering (Professional Elective – IV)**		
COURSE CODE:	**ME-325 C**	**ACADEMIC YEAR :**	2024-25
CLASS :	**Third Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Predict the structure and properties of different kind of plastic material and select the plastic materials for particular end user application.
CO-2	Know the processing of different plastic material based on the end user requirement..
CO-3	Design the plastic products
CO-4	Design compression and transfer molds
CO-5	Design Injection Moulds
CO-6	Design plastic injection mould for cooling

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Advanced Programming Concepts – II (Java)**		
COURSE CODE:	**ME-327**	**ACADEMIC YEAR :**	2024-25
CLASS :	**Third Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Install JAVA IDE & develop simple applications using JAVA.
CO-2	Read from and write to text files and debug errors.
CO-3	Write Java code using advanced Java feature
CO-4	Write JAVA applet for windows based applications such as Word & Excel and JAVA scripts for CAD software such as CATIA & AutoCAD.
CO-5	Develop a small JRE based application or Applet for a mechanical engineering subject.
CO-6	Use the syntax and semantics of java programming language and basic concepts of OOP

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Mechanical Workshop – III**		
COURSE CODE:	**ME-327**	**ACADEMIC YEAR :**	2024-25
CLASS :	**Third Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Understand the working of various machines
CO-2	Operate various machine tools.
CO-3	Perform various machining operations.
CO-4	Selection of operational and process parameters during machining operations.
CO-5	Manufacture a small assembly of components.
CO-6	Understand various attachments on various machines.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Mini Project**		
COURSE CODE:	**ME-328**	**ACADEMIC YEAR :**	2024-25
CLASS :	**Third Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Identify and analyze the potential technical problems.
CO-2	Carry out research about the selected topic
CO-3	Seek suggestions from subject experts
CO-4	Carry out planning and its execution with teammates
CO-5	Develop solution for a set of requirements for the problem identified.
CO-6	Write a report with all the contents in logical order and do Quality Presentation

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

Outward No. : SKNSCOE/MECH / Date:

NAME OF COURSE:	Automobile Engineering		
COURSE CODE:	ME-412	**ACADEMIC YEAR :**	2024-25
CLASS :	Final Year B.Tech MECH	**NAME OF SUBJECT TEACHER:**	PPK

NO.	COURSE OUTCOMES
CO-1	Demonstrate various systems in an automobile
CO-2	Describe importance and features of different elements like axle, differential, brakes, steering, suspension, wheel balancing, electrical systems etc
CO-3	Explain principle of operation, construction and applications of various sensors used in modern automobiles

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	Refrigeration and Air Conditioning		
COURSE CODE:	ME-411	**ACADEMIC YEAR :**	2024-25
CLASS :	Final Year B.Tech MECH	**NAME OF SUBJECT TEACHER:**	DRG

NO.	COURSE OUTCOMES
CO-1	Evaluate performance of various types of refrigeration systems.
CO-2	Select appropriate refrigerant considering necessary properties
CO-3	Use Psychrometric chart and tables and analyze psychrometric process for obtaining required air conditions
CO-4	Describe comfort chart and compare duct design methods.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	Robotics and Artificial Intelligence		
COURSE CODE:	ME-413	**ACADEMIC YEAR :**	2024-25
CLASS :	Final Year B.Tech MECH	**NAME OF SUBJECT TEACHER:**	USG

NO.	COURSE OUTCOMES
CO-1	. Explain construction and applications of different types of robots
CO-2	. Explain types of sensors and actuators and end effectors used in the construction of robots.
CO-3	Solve simple forward and inverse kinematics problems for jointed arm robots
CO-4	Define Artificial Intelligence and explain concepts such as searching, reasoning and other associated terminology
CO-5	Explain fuzzy logic, ANN, GAs, and their applications

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	Production and Operations Management		
COURSE CODE:	ME-4141	**ACADEMIC YEAR :**	2024-25
CLASS :	Final Year B.Tech MECH	**NAME OF SUBJECT TEACHER:**	

NO.	COURSE OUTCOMES
CO-1	Explain importance, scope and need of production and operation management
CO-2	Evaluate the future demands using different forecasting methods
CO-3	Apply the concept of capacity planning and aggregate planning to various types of manufacturing systems
CO-4	Explain the importance of production planning and control, and inventory management in production process and its elements
CO-5	Apply the concept of plant maintenance
CO-6	To get acquainted with various advanced techniques such as Lean manufacturing ,value engineering, six sigma, Kanban, Supply chain management

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	Computational Fluid Dynamics		
COURSE CODE:	ME-4142	**ACADEMIC YEAR :**	2024-25
CLASS :	Final Year B.Tech MECH	**NAME OF SUBJECT TEACHER:**	

NO.	COURSE OUTCOMES
CO-1	Express numerical modeling and its role in the field of fluid flow and heat transfer.
CO-2	Apply the various discretization methods, solution procedures and turbulence modeling to solve flow and heat transfer problems
CO-3	Interpret the knowledge, capability of analyzing and solving any concept or problem associated with heat energy dynamics and utilization.
CO-4	Illustrate the working concepts of thermal engineering.
CO-5	Understand the issues that arise in the numerical solution of fluid flow equations

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Finite Element Method**		
COURSE CODE:	ME-4144	**ACADEMIC YEAR :**	2024-25
CLASS :	Final Year B.Tech MECH	**NAME OF SUBJECT TEACHER:**	

NO.	COURSE OUTCOMES
CO-1	Implement general procedure of FEA for structural and thermal problems.
CO-2	Write down shape functions for 1D, 2D and 3D elements.
CO-3	Solve 1D, 2D and 3D problems using FEA procedure
CO-4	Solve boundary value problems using variational calculus and weighted residuals methods.
CO-5	Analyze of 1D, 2D and 3D problems for static and dynamic loads in commercial or open source FEA software.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Project Work Stage-I Seminar**		
COURSE CODE:	ME-416	**ACADEMIC YEAR :**	2024-25
CLASS :	Final Year B.Tech MECH	**NAME OF SUBJECT TEACHER:**	

NO.	COURSE OUTCOMES
CO-1	Identify the complex problem which is related to industry or society.
CO-2	Apply basic engineering knowledge for solving the identified problem
CO-3	Carry out state of the art related to the problem identified.
CO-4	Plan the work for solving the problem identified.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Industrial Training**		
COURSE CODE:	ME-417	**ACADEMIC YEAR :**	2024-25
CLASS :	Final Year B.Tech MECH	**NAME OF SUBJECT TEACHER:**	

NO.	COURSE OUTCOMES
CO-1	Write technical report and give presentation.
CO-2	Correlate theoretical knowledge with the practical things in Industry
CO-3	Understand Responsibility and role of Engineer in Industry
CO-4	Understand the Industrial culture & Organizational setup

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Project Work Stage-II Seminar**		
COURSE CODE:	**ME-421**	**ACADEMIC YEAR :**	2024-25
CLASS :	**Final Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Communicate with various stakeholders and perform the work in team
CO-2	Find out various dimensions of the various parts of the model.
CO-3	Analyze various types of stresses and failures which will exist in the model using suitable software.
CO-4	Select suitable manufacturing process to fabricate the model.
CO-5	Apply suitable design of experiment technique.
CO-6	Apply suitable statistical technique for analysis of results

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Project Work Stage-III Seminar**		
COURSE CODE:	**ME-422**	**ACADEMIC YEAR :**	2024-25
CLASS :	**Final Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Students should complete online audit course on statistical tools used in research with case study.
CO-2	Carry out analysis of results by employing suitable statistical technique.
CO-3	Interpretation/Analysis of the results
CO-4	Report writing and preparing presentation
CO-5	Students should write a technical paper and present it in the conference/journal.
CO-6	Students should be able to commercialize their project in the society.

Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)

Accredited 'A' Grade by NAAC

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Mechanical Engineering

NAME OF COURSE:	**Project Work (Report Submission & Presentation)**		
COURSE CODE:	**ME-423**	**ACADEMIC YEAR :**	2024-25
CLASS :	**Final Year B.TECH. MECH**	**NAME OF SUBJECT TEACHER:**	

COURSE OUTCOMES:

NO.	COURSE OUTCOMES
CO-1	Students should submit the project report in the prescribed format.
CO-2	Students should prepare the power point presentation and present it in front of examiners.