Course Outcome Analysis Report
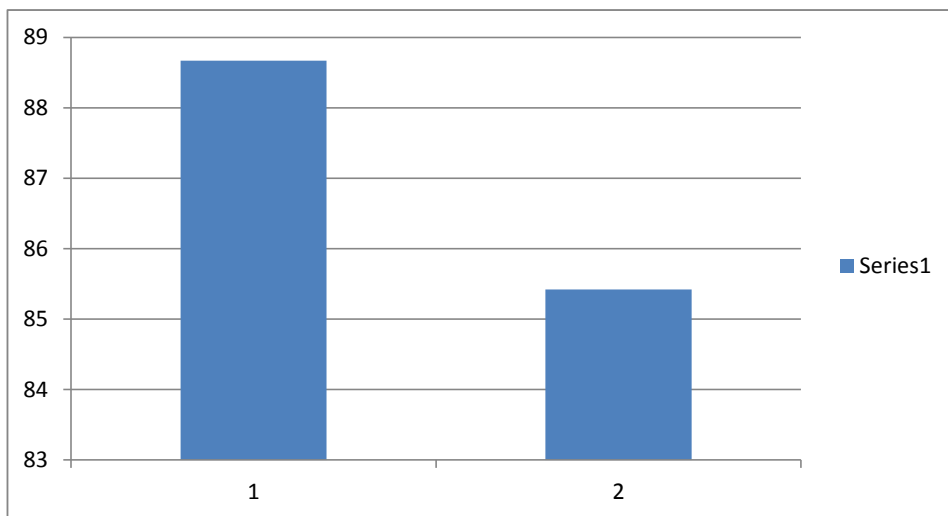
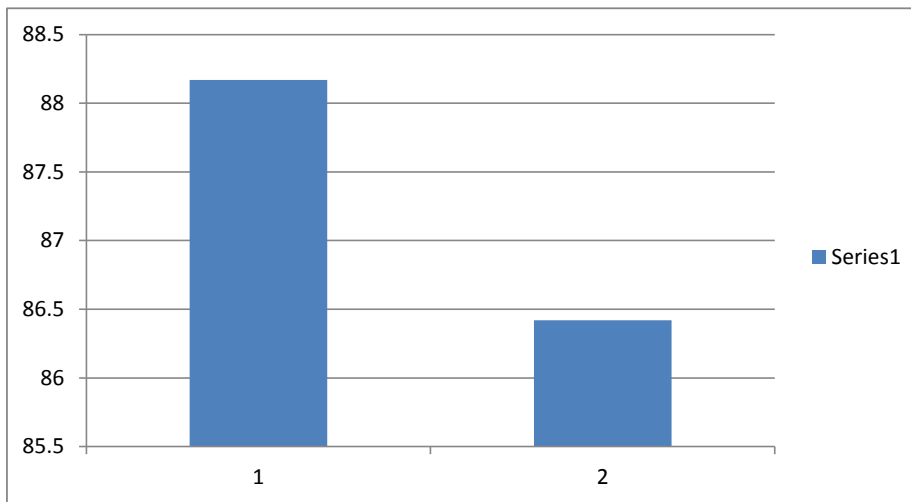| Branch	Mechanical Engineering	Class: SE	Subject: Engineering Mathematics-III

Sr No	Course Outcome	Percentage
1	Formulate and solve ordinary, partial differential equations and vector calculus for engineering problems.	88.67
2	Perform data analysis using statistical tools.	85.42
	Average Percentage	87.045

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: SE	Subject: Machine Tools and Processes

Sr No	Course Outcome	Percentage
1	exhibit a knowledge of conventional, unconventional & modern machining processes and machine tools.	88.17
2	be able to select proper manufacturing process for the typical application.	86.42
	Average Percentage	87.295

Course Outcome Analysis Report

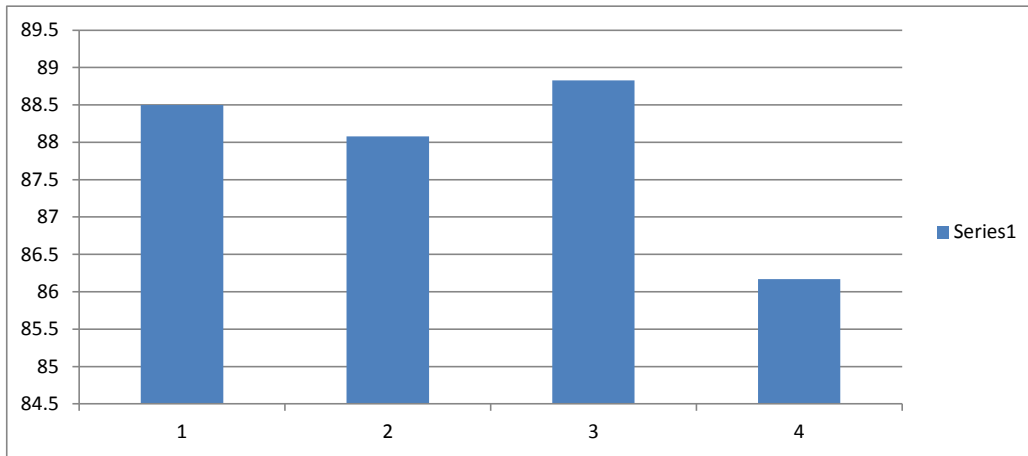| Branch	Mechanical Engineering	Class: SE	Subject:Machine Drawing	

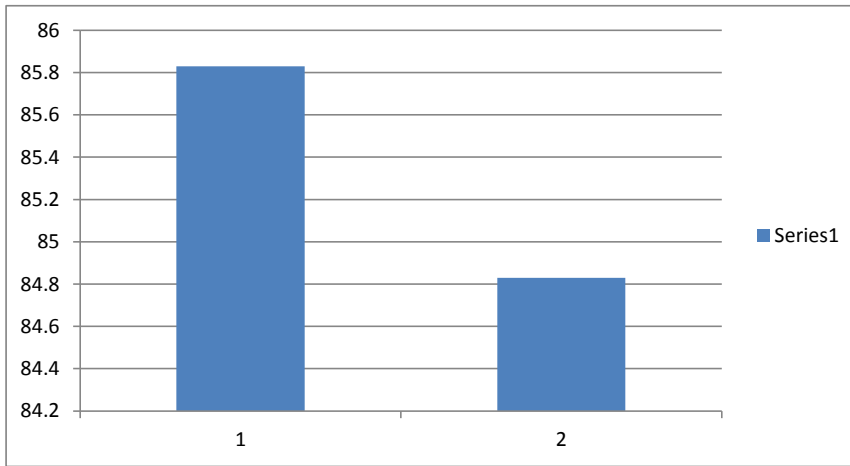| Sr No	Course Outcome	Percentage
1	able to create drawings as per BIS standards	88.5
2	enabled to apply technique for assembly drawing from the detail/components	88.08
3	able to incorporate limits, fits and tolerances for components on the working/engineering drawings.	88.83
4	familiar in using drafting software	86.17
	Average Percentage	87.895

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: SE	Subject: COMPUTER PROGRAMMING IN C++

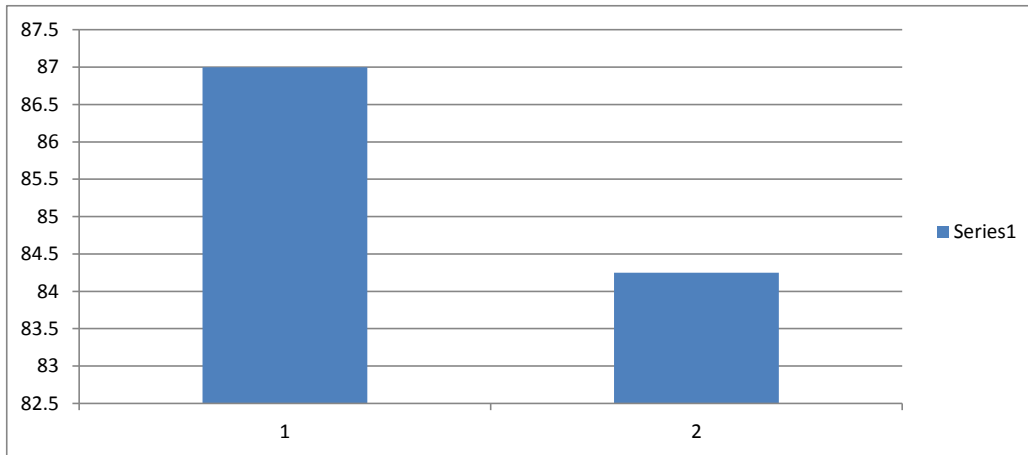| Sr No	Course Outcome	Percentage
1	Develop algorithms for solving problems using object oriented language.	85.83
2	apply their knowledge and programming skills to solve various computing problems in	84.83
	Average Percentage	85.33

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: SE	Subject: Theory of Machine – I	

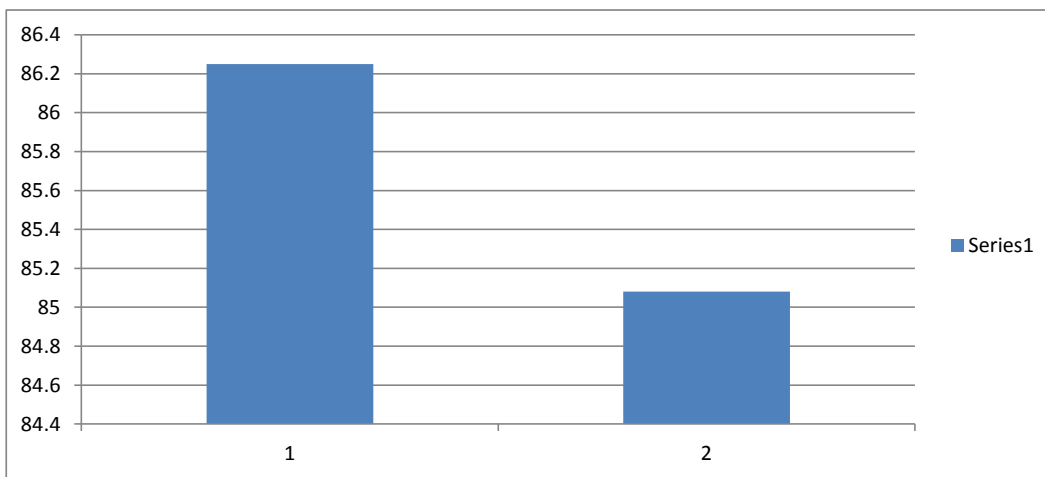| Sr No	Course Outcome	Percentage
1	able to understand the basic concepts of machines and able to understand constructional and working features of important machine elements.	87
2	able to design and incorporate various mechanisms in developing machines.	84.25
	Average Percentage	85.625

Course Outcome Analysis Report

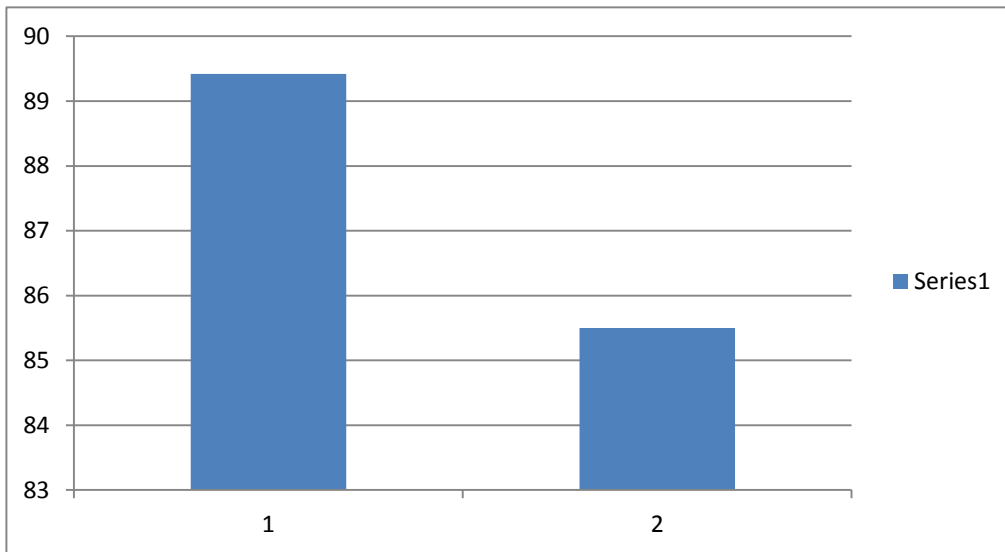| Branch	Mechanical Engineering	Class: SE	Subject: Manufacturing Processes	

Sr No	Course Outcome	Percentage
1	The student will develop a sound knowledge & use the various manufacturing processes	86.25
2	The student will have the ability to choose the appropriate processes for manufacturing a product	85.08
	Average Percentage	85.665

Course Outcome Analysis Report

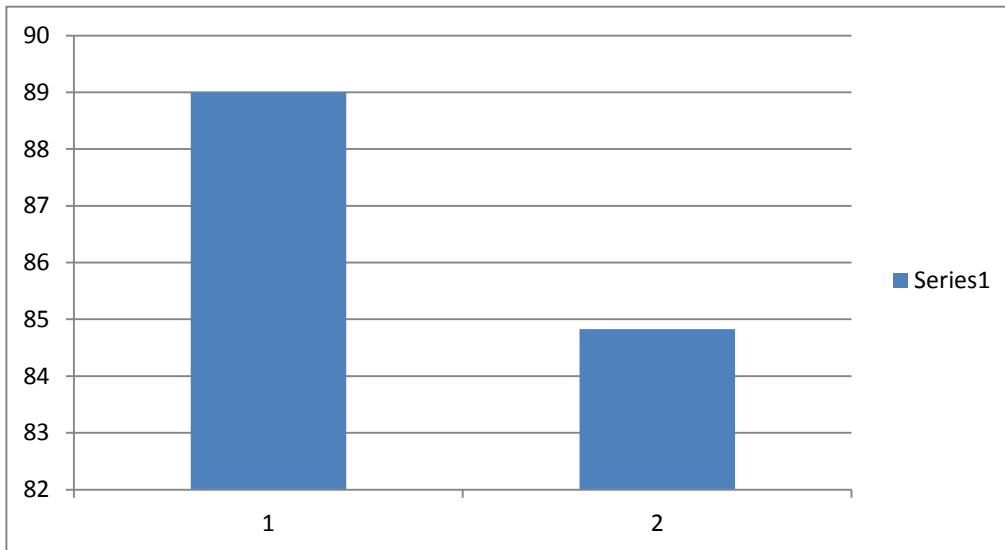| Branch	Mechanical Engineering	Class: SE	Subject: Fluid Mechanics	

Sr No	Course Outcome	Percentage
1	An ability to identify, formulate and solve problems related to fluid at rest and fluid in motion	89.42
2	Knowledge of contemporary issues in the area of fluid mechanics.	85.5
	Average Percentage	87.46

Course Outcome Analysis Report

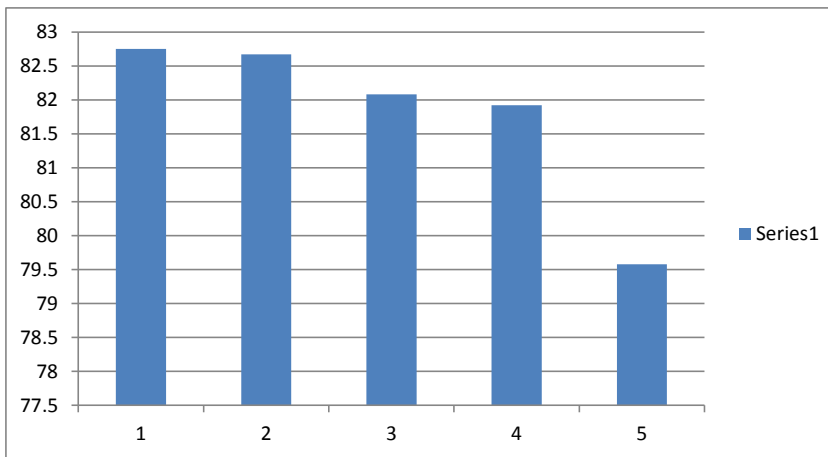| Branch	Mechanical Engineering	Class: SE	Subject: Numerical Methods	

Sr No	Course Outcome	Percentage
1	Identify, classify and choose the most appropriate numerical method for solving a problem.	89
2	Solve the Mechanical Engineering problems using software's.	84.83
	Average Percentage	86.915

Course Outcome Analysis Report

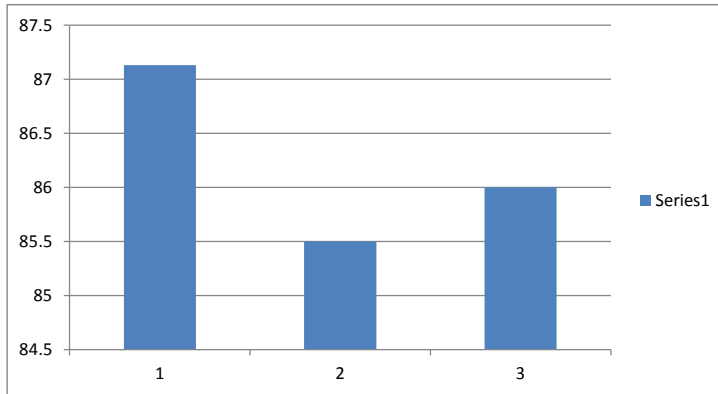| Branch	Mechanical Engineering	Class: SE	Subject: Electrical and Electronics Technology

Sr No	Course Outcome	Percentage
1	Students are able to select the electrical drives for different mechanical processes.	82.75
2	Students understands concept of electrical heating and welding.	82.67
3	Students are able to analyze digital circuits.	82.08
4	Student understands the concepts and working of microprocessor and microcontroller.	81.92
5	Student can simulate above circuits using simulation software and can interpret results	79.58
	Average Percentage	81.8

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: SE	Subject: COMPUTER AIDED MACHINE DRAWING

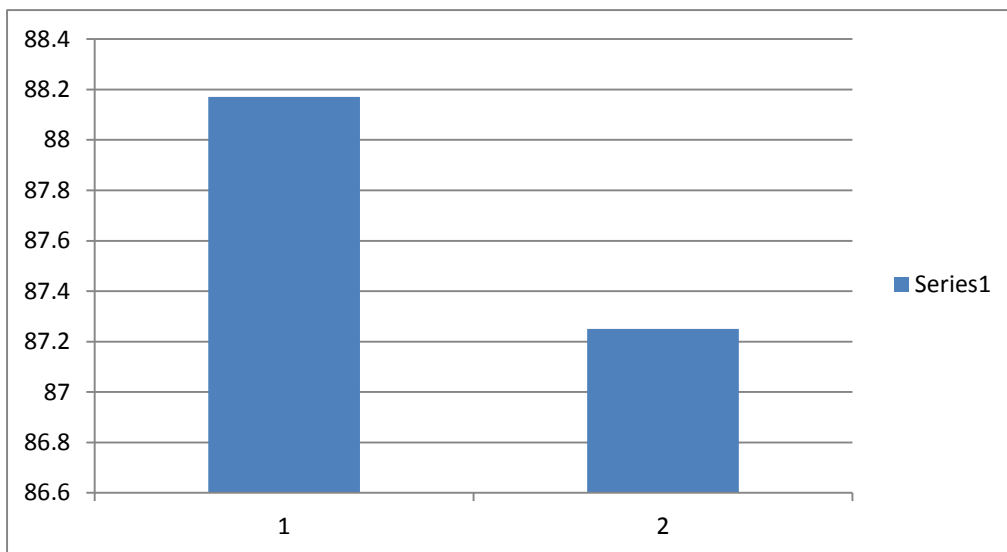| Sr No	Course Outcome	Percentage
1	Use drafting software	87.13
2	apply computer graphics techniques/tools of 2D and 3D modeling for communicating effectively.	85.5
3	to carry out applications using modern engg. tools.	86
	Average Percentage	86.21

Course Outcome Analysis Report

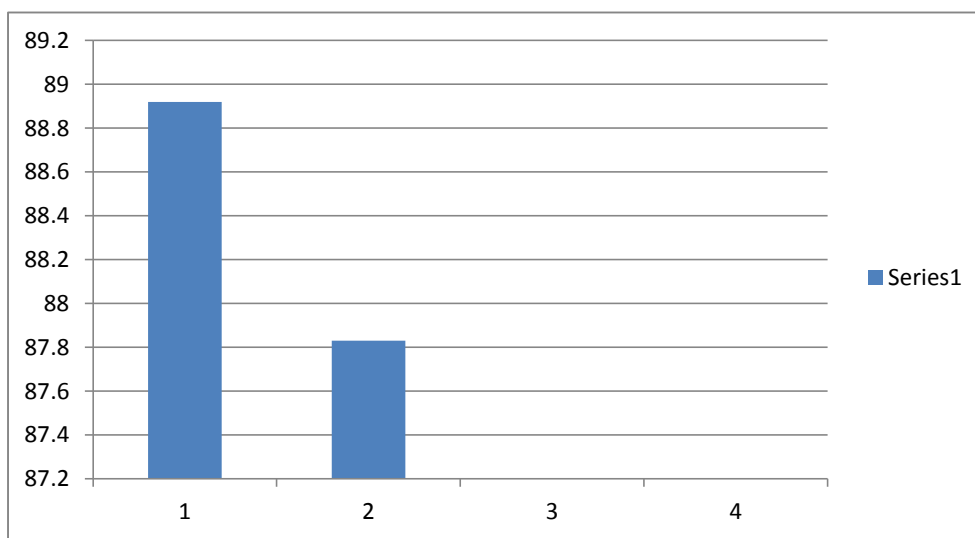| Branch	Mechanical Engineering	Class: SE	Subject: Analysis of Mechanical Elements

Sr No	Course Outcome	Percentage
1	able to calculate the stresses, strains of machine elements under different loading conditions such axial, transverse and torsion.	88.17
2	able to determine the strain energy stored in the machine element and calculate the associated deflection conditions such axial, transverse and torsion.	87.25
	Average Percentage	87.71

Course Outcome Analysis Report

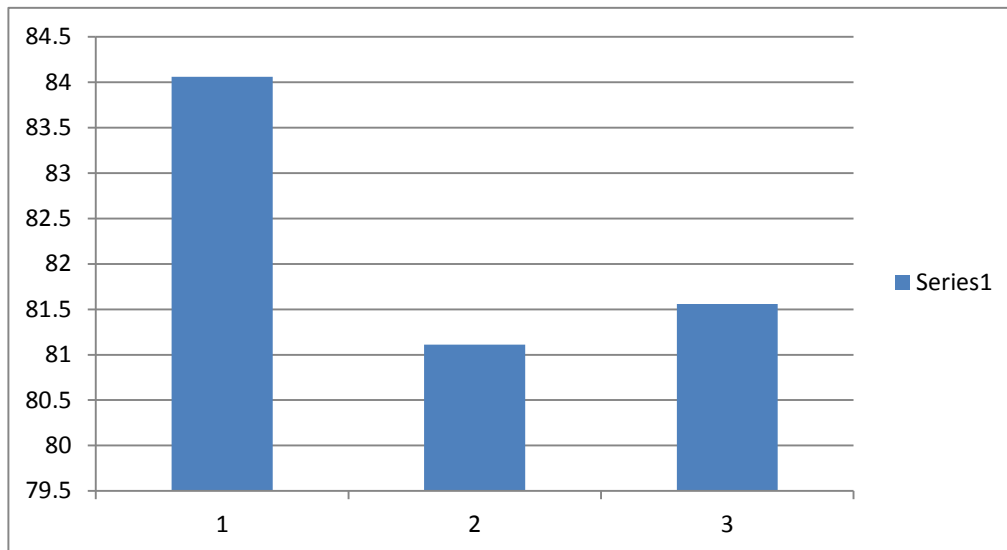| Branch	Mechanical Engineering	Class: SE	Subject: Applied Thermodynamics

Sr No	Course Outcome	Percentage
1	apply fundamental concepts of Thermodynamics to solve real life problems.	88.92
2	identify problems & analyse power producing and consuming devices.	87.83
	Average Percentage	88.375

Course Outcome Analysis Report

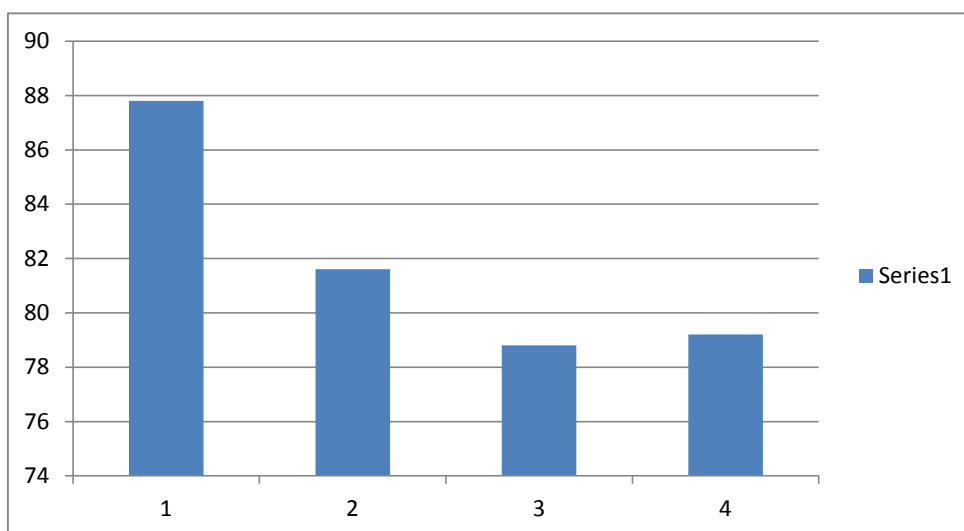| Branch	Mechanical Engineering	Class: TE	Subject:Theory of Machine-II	

Sr No	Course Outcome	Percentage
1	To select gear as per requirement & will be able to understand proper application of gear train	84.06
2	To understand flywheel details & compare with governor, also will clear concepts of gyroscope	81.11
3	To do balancing & vibration calculations	81.56
	Average Percentage	82.24333333

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: TE	Subject: Heat and Mass Transfer

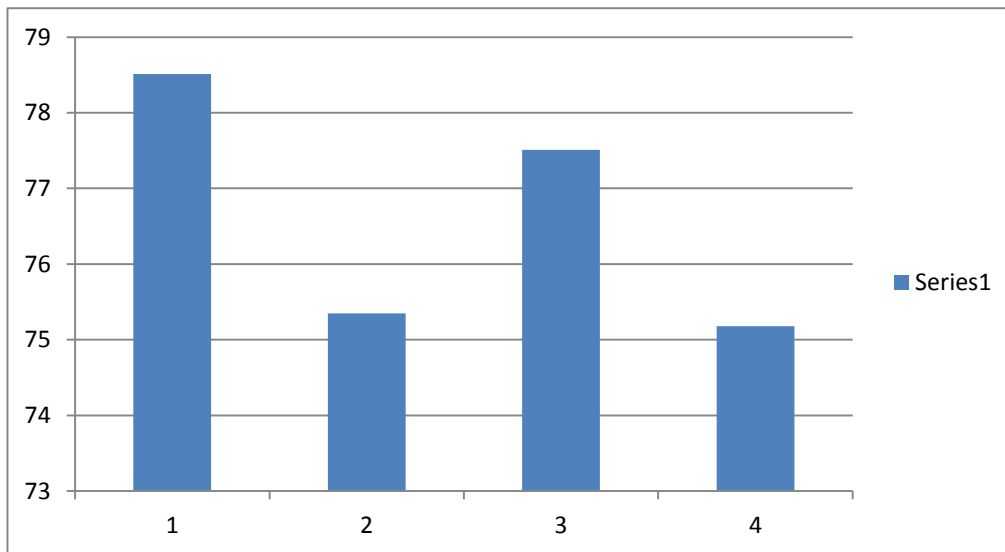| Sr No	Course Outcome	Percentage
1	Students will demonstrate an understanding of the basic concepts of conduction, radiation,and convection heat transfer	87.81
2	Students will demonstrate an understanding of the concept of conservation of energy and its application to problems involving conduction, radiation, and/or convection heat transfer. This principle will be used to formulate appropriate mathematical models and associated thermal boundary conditions.	81.61
3	Students will demonstrate the ability to formulate practical conduction heat transfer problems by transforming the physical system into a mathematical model, selecting an appropriate solution technique and evaluating the significance of results	78.8
4	Students will demonstrate the ability to formulate practical forced and natural conduction heat transfer problems by transforming the physical system into a mathematical model,selecting an appropriate solution technique and evaluating the significance of results. Students will also demonstrate an ability to analyze the performance.	79.2
	Average Percentage	81.855

Course Outcome Analysis Report

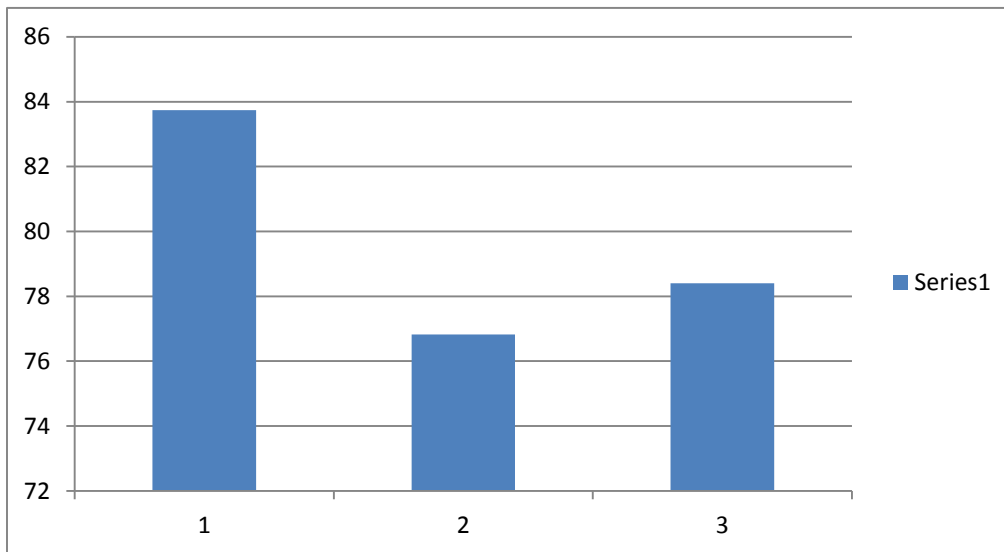| Branch	Mechanical Engineering	Class: TE	Subject: Metallurgy	

Sr No	Course Outcome	Percentage
1	Demonstrate relevance of principles of physical Metallurgy and its significance.	78.51
2	Apply their knowledge regarding selection of materials for engineering applications.	75.35
3	Demonstrate the significance of heat treatment processes and their applications in the field of Automotive and Machine tool industries	77.51
4	Get acquainted with advance materials and their applications	75.18
	Average Percentage	76.6375

Course Outcome Analysis Report

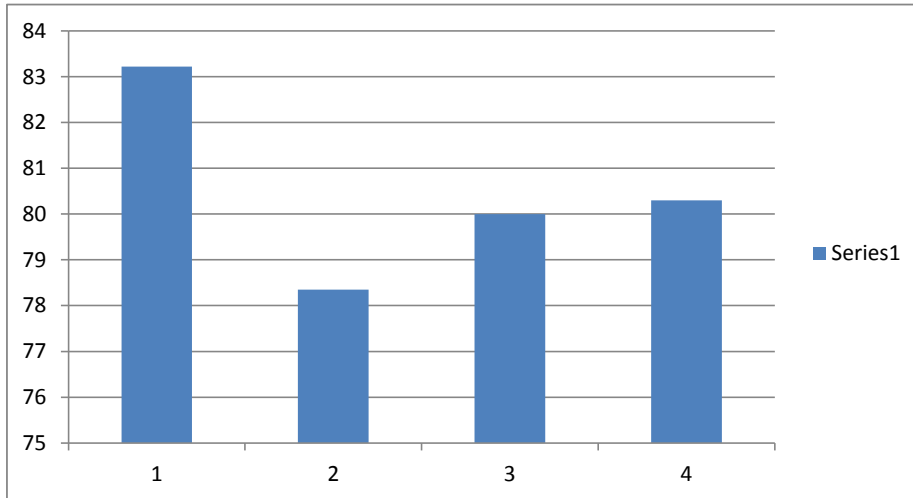| Branch	Mechanical Engineering	Class: TE	Subject: Machine Design – I	

Sr No	Course Outcome	Percentage
1	To apply basic design procedure to various machine elements	83.74
2	To consider environmental, manufacturing constraints in design of machine elements	76.82
3	To design machine elements for fluctuating load, design of shaft, keys, coupling and design of joints.	78.4
	Average Percentage	79.653

Course Outcome Analysis Report for NAAC

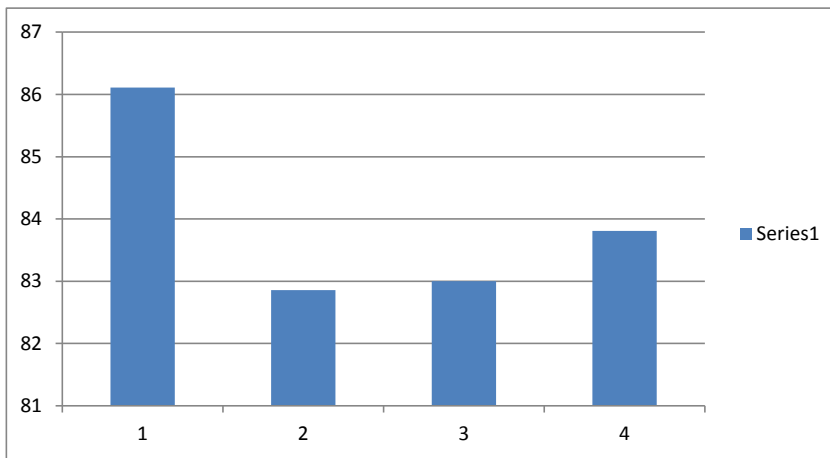| **Branch**	Mechanical Engineering	Class: TE	Subject: Fluid Machinery and Fluid Power

Sr No	Course Outcome	Percentage
1	Select/design water turbines, gas turbines & centrifugal pumps to meet the specific requirementsClassify turbines and pumps. Select/design water turbines, gas turbines & centrifugal pumps to meet the specific requirements.	83.22
2	Draw velocity triangles for turbines and pumps.	78.35
3	Analyze different components of hydraulic and pneumatic systems.	80
4	Prepare different hydraulic & pneumatic circuits needed for different applications	80.3
	Average Percentage	80.4675

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: TE	Subject: Metrology and Mechanical Measurements

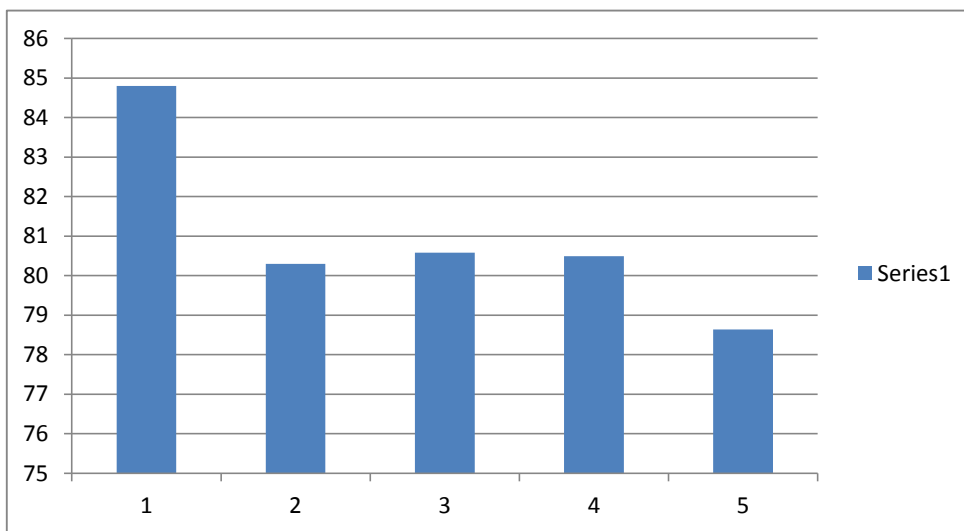| Sr No	Course Outcome	Percentage
1	Students will understand the design & construction of measuring instruments.	86.11
2	Students will setup the Instruments & accessories for measurement of properties by avoiding errors.	82.86
3	Students will calibrate the simple instruments using more accurate standards.	83
4	Students will use the instruments for various industrial applications such as quality control, process control etc.	83.81
	Average Percentage	83.945

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: TE	Subject: Internal Combustion Engine

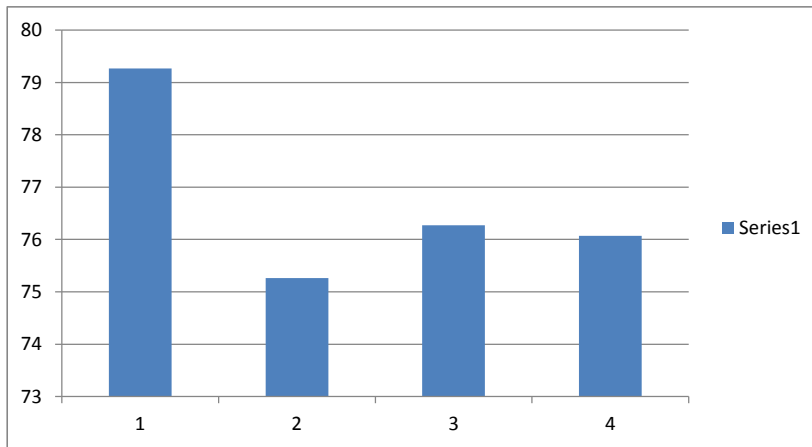| Sr No	Course Outcome	Percentage
1	To recognize and understand the reasons for differences in the construction of different types of internal combustion engines	84.8
2	To understand the reasons for differences among operating characteristics of different engine types and designs	80.3
3	To elect the appropriate engine for a given application.	80.58
4	To conduct performance tests on engines and Compare experimental results with theoretical predictions	80.49
5	To compare experimental results with theoretical predictions and make proper justifications	78.64
	Average Percentage	80.962

Course Outcome Analysis Report

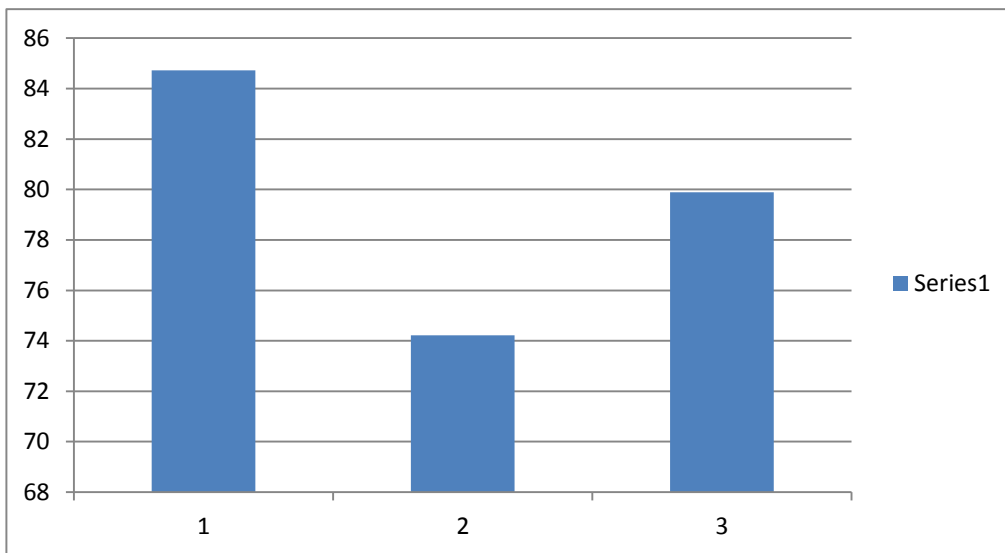| Branch	Mechanical Engineering	Class: TE	Subject: Computer Aided Drafting and Manufacturing

Sr No	Course Outcome	Percentage
1	To handle CAD related problems from industries.	79.27
2	To handle CAM related problems of manufacturing industries.	75.26
3	To learn CAD/CAM softwares to be updated with time.	76.27
4	To design NC Part Programs to suit Industrial requirements.	76.07
	Average Percentage	76.7175

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: TE	Subject: Machine Design – II	

Sr No	Course Outcome	Percentage
1	To design various transmission system elements.	84.72
2	To apply various IS codes for design of Pressure vessels.	74.22
3	To provide optimum design of simple machine elements such as shaft	79.89
	Average Percentage	79.61

Course Outcome Analysis Report

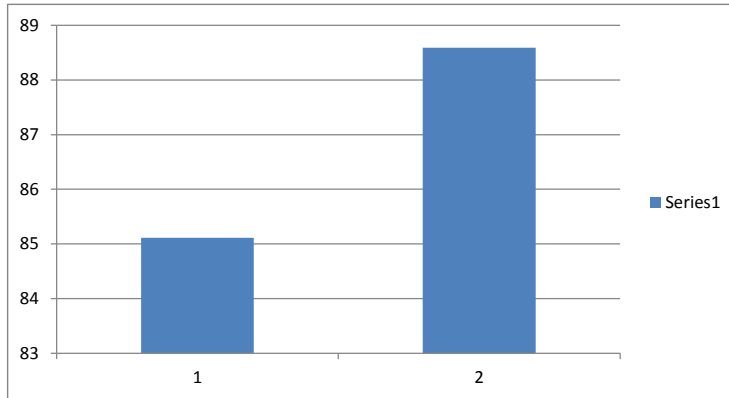| Branch	Mechanical Engineering	Class: TE	Subject: Tool Engineering	

Sr No	Course Outcome	Percentage
1	Students are able to do the calculations involved in the mechanics & economics of operations.	75.66
2	Students are able to design & draw the tools &toolings for the given situation & operation.	71.92
3	Students are able to conceive & develop solutions, devices, contrivances to overcome present problems of	71.84
	Average Percentage	73.14
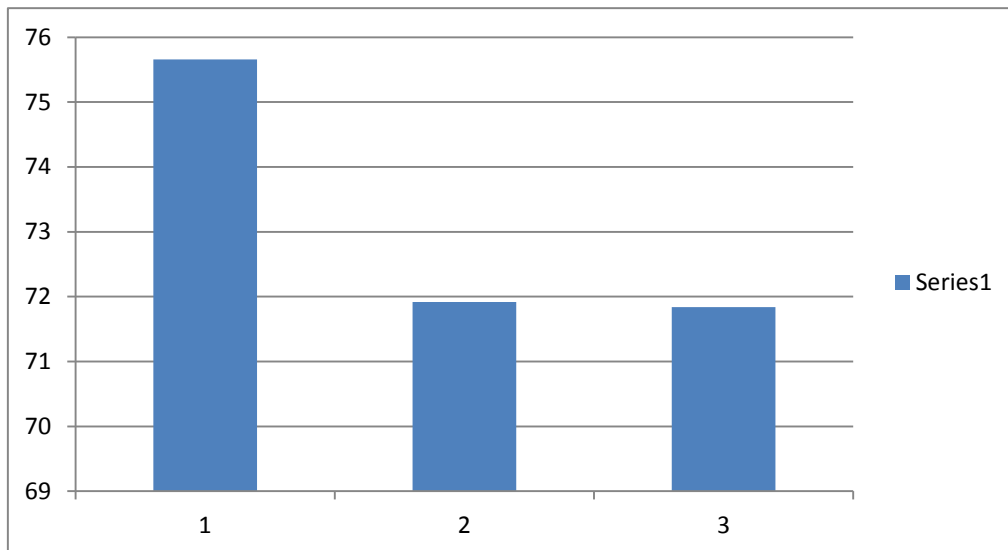
Course Outcome Analysis Report

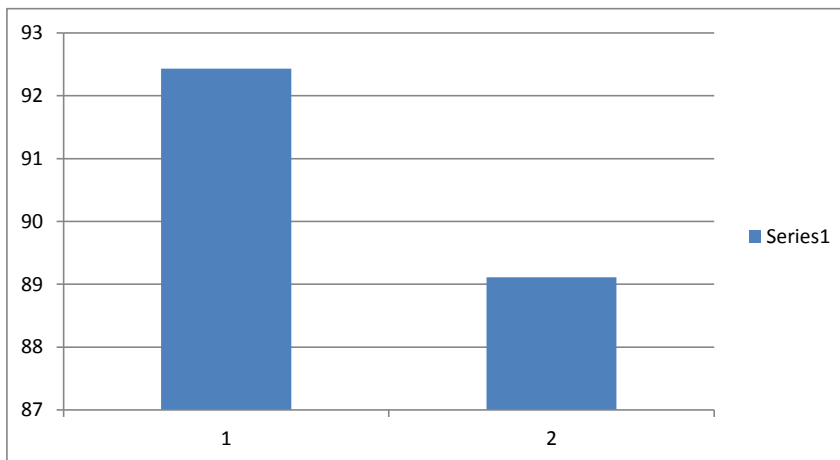| Branch	Mechanical Engineering	Class: BE	Subject:	AUTOMATIC CONTROL ENGG

Sr No	Course Outcome	Percentage
1	To make the students aware of basic mathematical analysis techniques used for Automatic control systems	85.11
2	To make use of the software MATLAB to solve simple problems in control Engineering as a part of Term-Work.	88.59
	Average Percentage	86.85

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: BE	Subject:	OPERATION RESEARCH

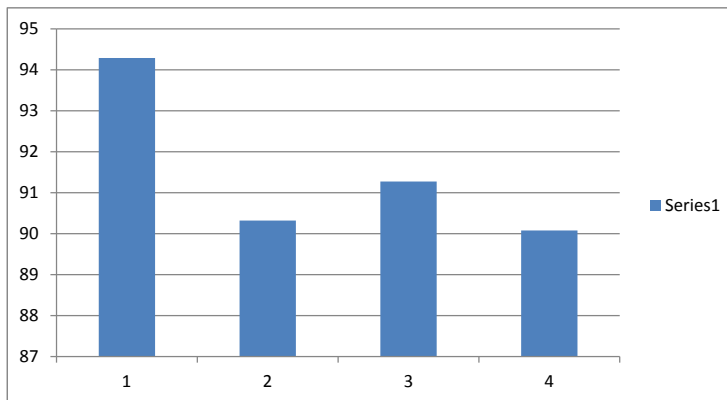| Sr No	Course Outcome	Percentage
1	Apply various optimization techniques to industrial applications.	92.43
2	Develop a project plan for the industry or organization.	89.11
3	**Average Percentage**	90.77

Course Outcome Analysis Report

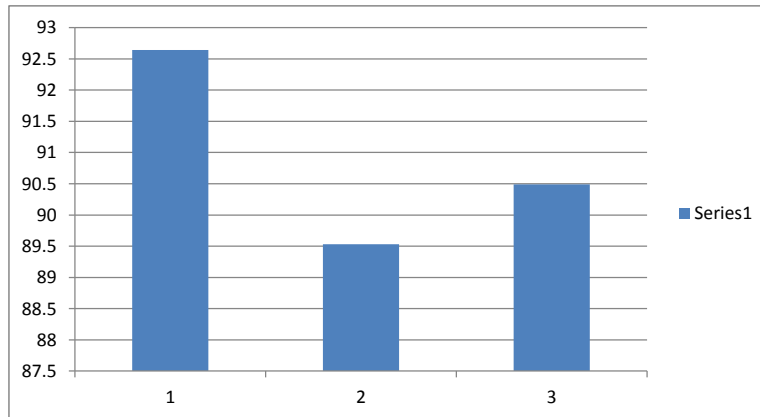| Branch	Mechanical Engineering	Class: BE	Subject: Refrigeration and Air Conditioning

Sr No	Course Outcome	Percentage
1	Analyze basic refrigeration cycles and air refrigeration systems	94.29
2	Select proper refrigerant and appropriate refrigeration system based on application	90.32
3	Define and estimate psychometric properties	91.27
4	Estimate cooling and heating load calculations and design air conditioning system for different applications	90.08
	Average Percentage	91.49

Course Outcome Analysis Report

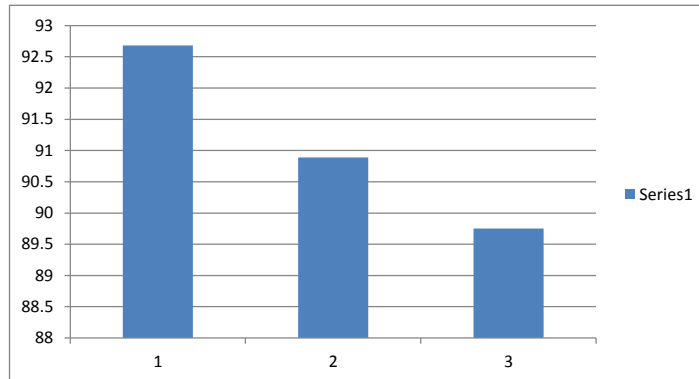| Branch	Mechanical Engineering Class: BE	Subject: AUTOMOBILE ENGINEERING

Sr No	Course Outcome	Percentage
1	Demonstrate & explain various systems in an automobile	92.64
2	Describe importance and features of different elements like axle, differential, brakes, steering, suspension, wheel balancing etc.	89.53
3	Explain principle of operation, construction and applications of various sensors used in modern automobile	90.49
	Average Percentage	90.88666667

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: BE	Subject: ENTREPRENEURSHIP DEVELOPMENT

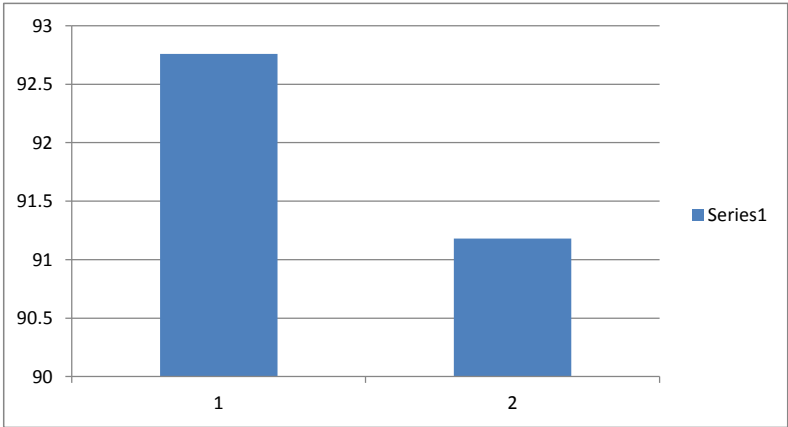| Course Outcome	Course Outcome	Percentage
1	Avail various government facilities required to set-up small unit.	92.68
2	Prepare a project report for setting a small manufacturing or service unit.	90.89
3	Find the solutions for problems face by SMEs.	89.75
	Average Percentage	91.10666667

Course Outcome Analysis Report

Branch	Mechanical Engineering Class: BE	Subject: Industrial & Quality Management

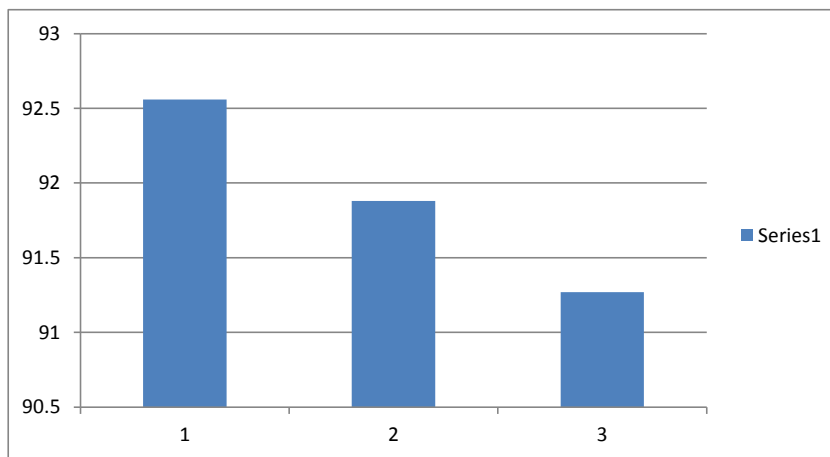| Course Outcome	Course Outcome	Percentage
1	Demonstrate various management functions.	92.76
2	Apply statistical tools to industrial / organizational problems.	91.18
	Average Percentage	91.97

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: BE	Subject: Industrial Engineering

Sr No	Course Outcome	Percentage
1	Analyze & measure productivity.	92.56
2	Perform method study and work measurement etc.	91.88
3	Develop improved method of working/process for manufacturing /service sector.	91.27
	Average Percentage	91.90333333

Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: BE	Subject: Mechatronics

Sr. No.	Course Outcome	Percentage
1	Develop state transition diagrams for control of physicl systmes	90
2	Interface common sensors and actuators to PCs or microcontrollers	86.67
3	implement software for control of Mechatronic system	93.33
4	Implement control using PLCs	90
	Average Percentage	90
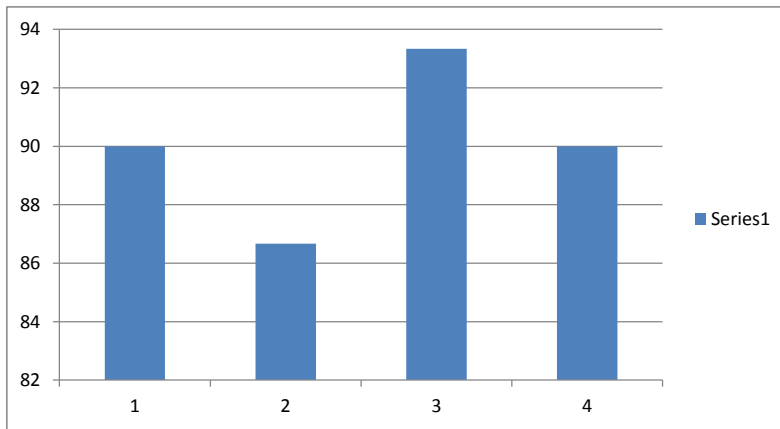
Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: BE	Subject: Production and Operation Management

Sr. No.	Course Outcome	Percentage
1	Apply the principles and techniques used in production management	94.17
2	Solve the problems related to production	94.11
	Average Percentage	94.14
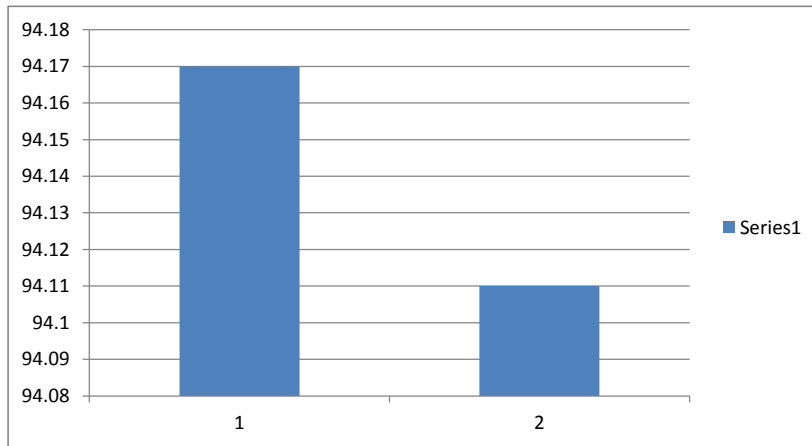
Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: BE	Subject: Plastic Engineering	

Sr. NO.	Course Outcome	Percentage
1	Select the plastic materials for particular end user application	91.97
2	Predict the structure and properties of different kind of plastic materials	91.29
3	Know the processing of different plastic materials based on end user requirement	90.3
	Average Percentage	91.18666667
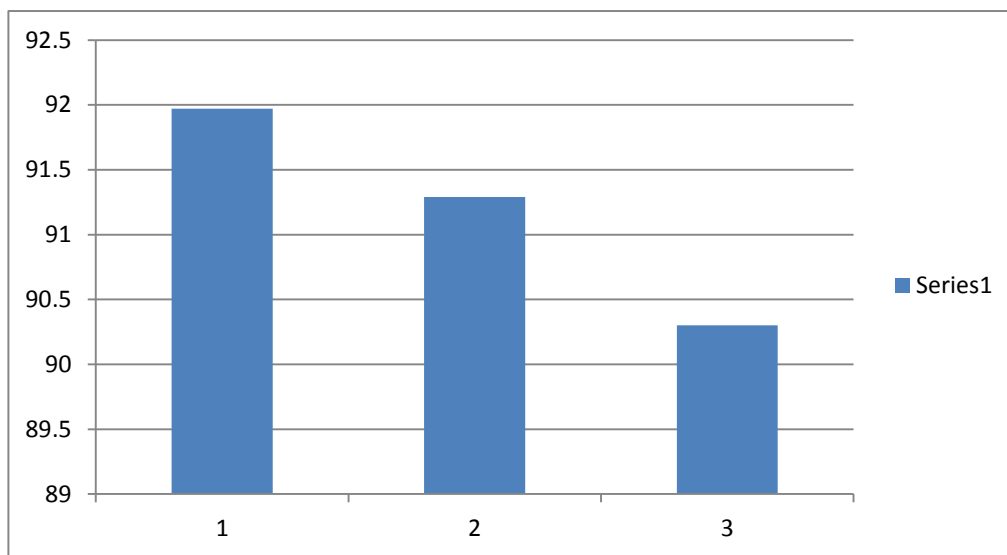
Course Outcome Analysis Report

Branch	Mechanical Engineering	Class: BE	Subject: Economics for Engineers

Sr. No.	Course Outcome	Percentage
1	Understand the concepts of economics and its impact on industrial development	95.56
2	Demonstrate the decision making abilities based on economics method to appraise alternatives	93.97
3	Apply economical analatical techniques to solve engineering problems	94.6
	Average Percentage	94.71