MRK Institute of Technology
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DEPARTMENT OF SCIENCE & HUMANITIES

2.6.1. Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

2017 REGULATION-COURSE OUTCOMES

SEMESTER	COURSE CODE	COURSE NAME	COURSE ID	COURSE OUTCOME
I	HS8151	COMMUNICATIVE ENGLISH	CO 1	At the end of the course, learners will be able to: Read articles of a general kind in magazines and newspapers.
			CO 2	Participate effectively in informal conversations; introduce themselves and their friends and express opinions in English.
			CO 3	Comprehend conversations and short talks delivered in English
			CO 4	Write short essays of a general kind and personal letters and emails in English.
I	MA8151	ENGINEERING MATHEMATICS – I	CO 1	Use both the limit definition and rules of differentiation to differentiate functions.
			CO 2	Apply differentiation to solve maxima and minima problems.
			CO 3	Evaluate integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus.
			CO 4	Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.
			CO 5	Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts.
			CO 6	Determine convergence/divergence of improper integrals and evaluate convergent improper integrals.
			CO 7	Apply various techniques in solving differential equations.

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I	PH8151	ENGINEERING PHYSICS	CO 1	Upon completion of this course, the students will gain knowledge on the basics of properties of matter and its applications,
			CO 2	the students will acquire knowledge on the concepts of waves and optical devices and their applications in fibre optics,
			CO 3	the students will have adequate knowledge on the concepts of thermal properties of materials and their applications in expansion joints and heat exchangers,
			CO 4	the students will get knowledge on advanced physics concepts of quantum theory and its applications in tunneling microscopes, and
			CO 5	the students will understand the basics of crystals, their structures and different crystal growth techniques.
I	CY8151	ENGINEERING CHEMISTRY	CO 1	The knowledge gained on engineering materials, fuels, energy sources and water treatment techniques will facilitate better understanding of engineering processes and applications for further learning.
I	GE8151	PROBLEM SOLVING AND PYTHON PROGRAMMING	CO 1	On successful completion of this course, the student will be able to Upon completion of the course, students will be able to Develop algorithmic solutions to simple computational problems
			CO 2	Read, write, execute by hand simple Python programs.
			CO 3	Structure simple Python programs for solving problems.

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			CO 4	Decompose a Python program into functions.
			CO 5	Represent compound data using Python lists, tuples, dictionaries.
			CO 6	Read and write data from/to files in Python Programs.
I	GE8152	ENGINEERING GRAPHICS	CO 1	Upon completion of the course, students will be able to familiarize with the fundamentals and standards of Engineering graphics
			CO 2	perform freehand sketching of basic geometrical constructions and multiple views of objects.
			CO 3	project orthographic projections of lines and plane surfaces.
			CO 4	draw projections and solids and development of surfaces.
			CO 5	visualize and to project isometric and perspective sections of simple solids.
I	GE8161	PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY	CO 1	Upon completion of the course, students will be able to Write, test, and debug simple Python programs.
			CO 2	Implement Python programs with conditionals and loops.
			CO 3	Develop Python programs step-wise by defining functions and calling them.
			CO 4	Use Python lists, tuples, dictionaries for representing compound data.
			CO 5	Read and write data from/to files in Python.
I	BS8161	PHYSICS AND CHEMISTRY LABORATORY	CO 1	Upon completion of the course, the students will be able to, apply principles of elasticity, optics and thermal properties for engineering applications

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			CO 2	The students will be outfitted with hands-on knowledge in the quantitative chemical analysis of water quality related parameters.
II	HS8251	TECHNICAL ENGLISH	CO 1	At the end of the course learners will be able to: Read technical texts and write area- specific texts effortlessly.
			CO 2	Listen and comprehend lectures and talks in their area of specialisation successfully.
			CO 3	Speak appropriately and effectively in varied formal and informal contexts.
			CO 4	Write reports and winning job applications
II	MA8251	ENGINEERING MATHEMATICS – II	CO 1	After successfully completing the course, the student will have a good understanding of the following topics and their applications: Eigenvalues and eigenvectors, diagonalization of a matrix, Symmetric matrices, Positive definite matrices and similar matrices.
			CO 2	Gradient, divergence and curl of a vector point function and related identities.
			CO 3	Evaluation of line, surface and volume integrals using Gauss, Stokes and Green's theorems and their verification.
			CO 4	Analytic functions, conformal mapping and complex integration.
			CO 5	Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients.

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II	PH8201	PHYSICS FOR CIVIL ENGINEERING	CO 1	Upon completion of this course, the students will have knowledge on the thermal performance of buildings,
			CO 2	the students will acquire knowledge on the acoustic properties of buildings,
			CO 3	the students will get knowledge on various lighting designs for buildings,
			CO 4	the students will gain knowledge on the properties and performance of engineering materials, and
			CO 5	the students will understand the hazards of buildings.
II	BE8251	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	CO 1	ability to identify the electrical components and explain the characteristics of electrical machines.
			CO 2	ability to identify electronics components and understand the characteristics
II	GE8291	ENVIRONMENTAL SCIENCE AND ENGINEERING	CO 1	Environmental Pollution or problems cannot be solved by mere laws. Public participation is an important aspect which serves the environmental Protection. One will obtain knowledge on the following after completing the course.
			CO 2	Public awareness of environmental is at infant stage.
			CO 3	Ignorance and incomplete knowledge has lead to misconceptions
			CO 4	Development and improvement in std. of living has lead to serious environmental disasters

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II	GE8292	ENGINEERING MECHANICS	CO 1	On successful completion of this course, the student will be able to illustrate the vectorial and scalar representation of forces and moments
			CO 2	analyse the rigid body in equilibrium
			CO 3	evaluate the properties of surfaces and solids
			CO 4	calculate dynamic forces exerted in rigid body
			CO 5	determine the friction and the effects by the laws of friction
II	GE8261	ENGINEERING PRACTICES LABORATORY	CO 1	On successful completion of this course, the student will be able to fabricate carpentry components and pipe connections including plumbing works.
			CO 2	use welding equipment's to join the structures.
			CO 3	Carry out the basic machining operations
			CO 4	Make the models using sheet metal works
			CO 5	Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundary and fittings
			CO 6	Carry out basic home electrical works and appliances
			CO 7	Measure the electrical quantities
			CO 8	Elaborate on the components, gates, soldering practices.
II	CE8211	COMPUTER AIDED BUILDING DRAWING	CO 1	The students will be able to draft the plan, elevation and sectional views of the buildings, industrial structures, and framed buildings using computer software's.

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