Course outcomes for all Electives offered for B.Sc.:

Semester	Course Code	Course name	Course Outcomes Student completing this course is able to
1	EG-1301	Separation methods in chemistry	CO: Apply the principles of solvent extraction, distillation and chromatography for physical separation of chemicals
1	EG-1302	Introduction to Digital Electronics	CO1: Understand the Binary Number System. CO2: Understand the different type of gates. CO3: Understand the Addition and subtraction of Binary numbers CO4: Understand the multiplexer and demultiplexer. CO5: Understand the Encoder and decoder. CO6: Understand the Seven segment decoder. CO7: Understand the different types of flip-flop. CO8: Understand the Positive edge triggered flip-flop.
1	EG-1303	Nutrition and Dietetics#	CO1: To spell out various terms associated with nutrition and to be acquainted with them CO2: To establish the concept of general nutrition with health at different developments stages. CO3: To evaluate adulteration and its prevention CO4: To develop skill for anthropometric assessment
1	EG-1304	Descriptive Statistics#	CO1: Identify the sources of data emission, record the data meaningfully, perform Exploratory Data Analysis and draw useful conclusions. CO2: Compute suitable measures of averages from sample/population data. CO3: Compute suitable measures of Skewness and Kurtosis from sample/population data. CO4:Compute suitable measures of averages, dispersion and higher order moments from sample/population data.
1	EG-1305	Science and Society#	CO1: Identify advantages to science to and for the society CO2: Understand to balance science with the care for environment
1	EG-1306	Computer Basics#	CO1: Understand the concepts of markup language. CO2: Acquire a basic understanding of the HTML CO3: To describe the basic fundamentals of web designing with HTML

			CO4: To describe and demonstrate the basic fundamentals of HTML tags. CO5: To describe the working with HTML tags to create web pages
1	EG-1308	Matrix Algebra Through SCILAB#	CO1. Student will be able to perform matrix operations in Sci-Lab. CO2. Student will be able to write programme in Sci-Note to perform various matrix operations. CO3. Student will be able to write programme in Sci-Note to apply various matrix operations in different scientific problems. CO4. Students will use mathematical computing software in studying and analysing mathematical concepts
1	EG-1310	Economic Statistics-I	CO-1 Identify the need of design and apply demand and supply functions. Find market equilibrium price and demand CO-2 Estimate the price elasticity of demand & supply using demand function and curve CO-3 Demonstrate the need of monopoly conditions and maximize profit under monopoly. CO-4 Apply the concept of utility, marginal utility to real-life situations.
2	EG-2301	Environmental Science#	CO1: The discipline provides basic knowledge of the environment and their significance. CO2: To aware the students about renewable and non-renewable resources. CO3: To understand about our ecology and our food system. CO4: Briefing about various biodiversity present in India. CO5: Give knowledge about different types of pollution and how they affect us. CO6: To make aware about social issues related to poverty, literacy rate. CO7: To make aware about How human population can affect human health and environment.
3	EG-3301	Green chemistry	CO: Interpret and apply the 12 principles of green chemistry to design green synthetic processes using green reagents, solvents and catalysts
3	EG-3302B	Electronics Appliances	CO1: Understand the concept of electronic, electrical and mechanical instruments uses in daily life.

			CO2: Describe the specification of electronics, electrical and mechanical devices. CO3: Understand the mechanism in electronics, electrical and mechanical devices and how they can be part of any global company
3	EG-3304	Economic Statistics-I#	CO-1 Identify the need of design and apply demand and supply functions. Find market equilibrium price and demand CO-2 Estimate the price elasticity of demand & supply using demand function and curve CO-3 Demonstrate the need of monopoly conditions and maximize profit under monopoly. CO-4 Apply the concept of utility, marginal utility to real-life situations.
3	EG-3305	Biodiversity	CO1: Understand biodiversity, its importance and threats and will also gain knowledge about efforts made for its conservation at the global and local levels. CO2: Understand the basics of microbial diversity and appreciate its utility in various fields while learning methods for microbial identification and isolation. CO3: Gain knowledge on plant diversity through study of forest species and medicinal plants while developing an understanding of agro-biodiversity and sampling techniques. CO4: Understand faunal diversity through the study of the origin and evolution of diverse characteristics and forms.
3	EG-3302A	Mathematical methods in Physics	CO1: Understand the concept of electronic, electrical and mechanical instruments uses in daily life. CO2: Describe the specification of electronics, electrical and mechanical devices. CO3: Understand the mechanism in electronics, electrical and mechanical devices and how they can be part of any global company.
3	EG-3308	Logical and Analytical Reasoning#	CO1. Student will be able to engage logic and reasoning to solve logical problems. CO2. Student will be able to solve the problems of sequence of letters, numerals or combined. CO3. Student will be able to solve seating arrangement problems, clock problems. CO4. Students will be able to solve data interpretation problems

4	EG-4301	Soil composition and analysis	CO: Use the principles of qualitative and quantitative chemical analysis to determine the pH, moisture, primary nutrients, micronutrients and trace nutrients in a soil sample
4	EG-4302	Nanoscience and nanotechnology	CO1: Understand the concepts of nanotechnology to explain the material processes and related technological advances. CO2: Understand the new nanomaterials having applications in medical, space and electronics. CO3: Trained in characterize techniques like XRD, TEM and UV-Vis useful in semiconductor market. CO4: Trained the skills to get the jobs in the semiconductor industry and they can start ups also.
4	EG-4303	Public Health#	CO1: To give a theoretical understanding of PH admits relevance with a view towards experiential learning CO2: To introduce students to the use of bio-statistics in health sciences CO3: To devise strategy for promotion of community health CO4: To understand the determinants and measures of various PH issues at local and national level CO5: To acquaint the progress, challenges and promises of PH
4	EG-4304	Economic Statistics-II	CO-1 Identify the need of Time series analysis for Business and Economics data. CO-2 Demonstrate the scale of estimating components of Time series data. CO-3 Identify the need of Index number analysis for Business and Economics data. CO-4 Reflect the application of maximizing utility in Economics.
4	EG-4305	Conservation and study of biodiversity in captivity	CO1: Classify invertebrates along with suitable examples. CO2: Gain knowledge of various wild animals through a visit to Kamala Zoological Park. CO3: Understand floral diversity through the study of plants in natural environment and in garden settings. CO4: Understand Conservation issues through the study of ex situ and in situ measures and environmental activism.They will also gain knowledge of various habitats through a visit to Serenity conservation centre.

4	EG-4308	Latex for Mathematics and Science#	CO1. Student will be able to perform basic typesetting and formatting in LaTeX. CO2. Student will be able to insert mathematical symbols and equations in LaTeX. CO3. Student will be able to make presentation using LaTeX. CO4. Students will be able to create own command, environment, package and class in LaTeX.