



The Kavery Engineering College

(Approved by AICTE, New Delhi & Affiliated to Anna University)
Mecheri, Mettur Tk. Salem Dt - 636 453.

DEPARTMENT OF CHEMICAL ENGINEERING

PROGRAMME: B.TECH. CHEMICAL ENGINEERING

VISION

- ❖ To produce skilled chemical engineers with quality education, to attain the global standards in Engineering Education.

MISSION

- ❖ To provide a strong fundamental of chemical engineering with sound knowledge on problem solving.
- ❖ To provide an environment of continuous learning and research.
- ❖ To develop centres of excellence in chemical engineering and an entrepreneurial culture.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

- ❖ To inculcate conceptual knowledge in the fields of Chemical Engineering.
- ❖ To impart problem solving, analytical skills in the contemporary processes.
- ❖ To expedite state of art laboratory facility to offer practical Knowledge.
- ❖ To design and develop eco-friendly sustainable technologies with the aid of computational skills
- ❖ To facilitate the ability to learn, innovate and communicate technical developments for the benefit of humanity
- ❖ To disseminate the knowledge related to intellectual property ownership rights, ethics, professionalism, entrepreneurship, and their societal impact.

PROGRAM OUTCOMES (POs)

- ❖ Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- ❖ Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of



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and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

- ❖ **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- ❖ **Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- ❖ **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- ❖ **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- ❖ **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- ❖ **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- ❖ **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- ❖ **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- ❖ **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- ❖ Graduates will have a strong foundation in engineering, science and current Chemical Engineering practices and will have experience in solving structured and unstructured



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- ❖ Graduates will be able to effectively describe the Chemical Engineering problem, analyze the data, develop potential solutions, evaluate these solutions, and present the results using their oral, written and electronic media skills.
- ❖ Graduates will have an understanding of ethical and professional responsibilities of an engineer and the impact of engineering solutions on society and the global environment.

COURSE OUTCOMES (COs)

Regulation	2017
Sem	01
Subject Code	HS8151
Subject Name	Communicative English
Course Outcome	<ul style="list-style-type: none">• Read articles of a general kind in magazines and newspapers.• Participate effectively in informal conversations; introduce themselves and their friends and express opinions in English.• Comprehend conversations and short talks delivered in English.• Write short essays of a general kind and personal letters and emails in English.

Regulation	2017
Sem	01
Subject Code	MA8151
Subject Name	Engineering Mathematics – I
Course Outcome	<ul style="list-style-type: none">• Use both the limit definition and rules of differentiation to differentiate functions.• Apply differentiation to solve maxima and minima problems.• Evaluate integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus.• Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order



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	<ul style="list-style-type: none">• Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts.• Determine convergence/divergence of improper integrals and evaluate convergent improper integrals.• Apply various techniques in solving differential equations.
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Regulation	2017
Sem	01
Subject Code	PH8151
Subject Name	Engineering Physics
Course Outcome	<ul style="list-style-type: none">• The students will gain knowledge on the basics of properties of matter and its applications.• The students will acquire knowledge on the concepts of waves and optical devices and their applications in fibre optics.• The students will have adequate knowledge on the concepts of thermal properties of materials and their applications in expansion joints and heat exchangers.• The students will get knowledge on advanced physics concepts of quantum theory and its applications in tunneling microscopes.• The students will understand the basics of crystals, their structures and different crystal growth techniques.

Regulation	2017
Sem	01
Subject Code	CY8151
Subject Name	Engineering Chemistry
Course Outcome	<ul style="list-style-type: none">• The knowledge gained on engineering materials, fuels, energy sources and water treatment techniques will facilitate better understanding of engineering processes and applications for



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Regulation	2017
Sem	01
Subject Code	GE8151
Subject Name	Problem Solving and Python Programming
Course Outcome	<ul style="list-style-type: none">• Develop algorithmic solutions to simple computational problems.• Read, write, execute by hand simple Python programs.• Structure simple Python programs for solving problems.• Decompose a Python program into functions.• Represent compound data using Python lists, tuples, dictionaries.• Read and write data from/to files in Python Programs.

Regulation	2017
Sem	01
Subject Code	GE8152
Subject Name	Engineering Graphics
Course Outcome	<ul style="list-style-type: none">• Familiarize with the fundamentals and standards of Engineering graphics.• Perform freehand sketching of basic geometrical constructions and multiple views of objects.• Project orthographic projections of lines and plane surfaces.• Draw projections and solids and development of surfaces.• Visualize and to project isometric and perspective sections of simple solids.



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Sem	01
Subject Code	GE8161
Subject Name	Problem Solving And Python Programming Laboratory
Course Outcome	<ul style="list-style-type: none">• Write, test, and debug simple Python programs.• Implement Python programs with conditionals and loops.• Develop Python programs step-wise by defining functions and calling them.• Use Python lists, tuples, dictionaries for representing compound data.• Read and write data from/to files in Python.

Regulation	2017
Sem	01
Subject Code	BS8161
Subject Name	Physics And Chemistry Laboratory
Course Outcome	<ul style="list-style-type: none">• Apply principles of elasticity, optics and thermal properties for engineering applications.• The students will be outfitted with hands-on knowledge in the quantitative chemical analysis of water quality related parameters.

Regulation	2017
Sem	02
Subject Code	HS8251
Subject Name	Technical English
Course Outcome	<ul style="list-style-type: none">• Read technical texts and write area- specific texts effortlessly.• Listen and comprehend lectures and talks in their area of specialization successfully.• Speak appropriately and effectively in varied formal and informal contexts.



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Regulation	2017
Sem	02
Subject Code	MA8251
Subject Name	Engineering Mathematics – II
Course Outcome	<ul style="list-style-type: none">• Eigen values and eigenvectors, diagonalization of a matrix, Symmetric matrices, Positive definite matrices and similar matrices.• Gradient, divergence and curl of a vector point function and related identities.• Evaluation of line, surface and volume integrals using Gauss, Stokes and Green's theorems and their verification.• Analytic functions, conformal mapping and complex integration.• Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients.

Regulation	2017
Sem	02
Subject Code	PH8254
Subject Name	Physics of Materials
Course Outcome	<ul style="list-style-type: none">• Gain knowledge on phase diagrams and various material processing methods.• Acquire knowledge on basics of conducting materials, superconductors and their applications.• Get knowledge on the functioning of semiconducting materials and their applications in LED and solar cells.• Understand the functioning of various dielectric and magnetic materials, have the necessary understanding on various



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Regulation	2017
Sem	02
Subject Code	BE8256
Subject Name	Basic Mechanical Engineering
Course Outcome	<ul style="list-style-type: none">• Students should learn thermodynamics and thermal engineering to understand the principles behind the operation of thermal equipments like IC engines and turbines etc.,• Students should be able to appreciate the theory behind operation of machinery and be able to design simple mechanisms.

Regulation	2017
Sem	02
Subject Code	CH8201
Subject Name	Principles of Chemical Engineering
Course Outcome	<ul style="list-style-type: none">• On completion of the course, students will attain knowledge in fluid behavior and solid properties,• Understand the concept of chemical engineering principles

Regulation	2017
Sem	02
Subject Code	CY8292
Subject Name	Chemistry for Technologists
Course Outcome	<ul style="list-style-type: none">• Students are able to understand the various concepts of unit operations and unit processes and current scenario of chemical synthesis in industries• Students are able to understand the various types of reactions and the chemical activity of nucleophiles and electrophiles• Students are able to understand the chemical analysis of oil, fat, lubricants and soap• Students are able to understand the chemicals and auxiliaries



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	constitution
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Regulation	2017
Sem	02
Subject Code	GE8261
Subject Name	Engineering Practices Laboratory
Course Outcome	<ul style="list-style-type: none">• Fabricate carpentry components and pipe connections including plumbing works.• Use welding equipments to join the structures.• Carry out the basic machining operations.• Make the models using sheet metal works.• Illustrate on centrifugal pump, air conditioner, operations of smithy, foundary and fittings.• Carry out basic home electrical works and appliances.• Measure the electrical quantities.• Elaborate on the components, gates, soldering practices.

Regulation	2017
Sem	02
Subject Code	CH8281
Subject Name	Chemical Analysis Laboratory
Course Outcome	<ul style="list-style-type: none">• Familiarization with equipment like viscometers, flash and fire point apparatus etc• Familiarization of methods for determining COD• Familiarization of a few simple synthetic techniques for soap

Regulation	2017
Sem	03
Subject Code	MA8391



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Course Outcome	<ul style="list-style-type: none">• Understand the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon.• Understand the basic concepts of one and two dimensional random variables and apply in engineering applications.• Apply the concept of testing of hypothesis for small and large samples in real life problems.• Apply the basic concepts of classifications of design of experiments in the field of agriculture and statistical quality control.• Have the notion of sampling distributions and statistical techniques used in engineering and management problems.
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Regulation	2017
Sem	03
Subject Code	CH8351
Subject Name	Process Calculations
Course Outcome	<ul style="list-style-type: none">• Understand the fundamentals of units and stoichiometric equations.• Write material balance for different chemical process.• Understand the fundamentals of ideal gas behavior and phase equilibria. Write energy balance for different chemical process.

Regulation	2017
Sem	03
Subject Code	CH8301
Subject Name	Fluid Mechanics for Chemical Engineers
Course Outcome	<ul style="list-style-type: none">• Understand the fundamental properties of fluids and its characteristics under static conditions.• Develop empirical correlation using dimensionless analysis.• Analyze flow of fluid through pipe and over the of solid,• Understand and select flow meter(s), characteristics of pumps used in Chemical Process Industries



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Regulation	2017
Sem	03
Subject Code	CH8302
Subject Name	Solid Mechanics for Technologists
Course Outcome	<ul style="list-style-type: none">• Solve the problems related to the structural components under various loading conditions

Regulation	2017
Sem	03
Subject Code	EE8352
Subject Name	Principles of Electrical and Electronics Engineering
Course Outcome	<ul style="list-style-type: none">• Understand electric circuits and working principles of electrical machines• Understand the concepts of various electronic devices• Choose appropriate instruments for electrical measurement for a specific application

Regulation	2017
Sem	03
Subject Code	CY8291
Subject Name	Organic Chemistry
Course Outcome	<ul style="list-style-type: none">• At the end of the course students will have knowledge on various reaction mechanism, preparation of organic compounds and their properties.

Regulation	2017
Sem	03
Subject Code	EE8361
Subject Name	Electrical Engineering Laboratory



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	machine
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Regulation	2017
Sem	03
Subject Code	ME8362
Subject Name	Mechanical Engineering Laboratory
Course Outcome	<ul style="list-style-type: none">Students will be able to understand Power-generating units such as engines and operate IC engines and conduct tests. They will be able to appreciate the theory behind the functioning of engines. Material properties, their behavior under different kinds of loading and testing can be visualized.

Regulation	2017
Sem	04
Subject Code	MA8491
Subject Name	Numerical Methods
Course Outcome	<ul style="list-style-type: none">Understand the basic concepts and techniques of solving algebraic and transcendental equations.Appreciate the numerical techniques of interpolation and error approximations in various intervals in real life situations.Apply the numerical techniques of differentiation and integration for engineering problems.Understand the knowledge of various techniques and methods for solving first and second order ordinary differential equations.Solve the partial and ordinary differential equations with initial and boundary conditions by using certain techniques with engineering applications.

Regulation	2017
Sem	04
Subject Code	GE8291



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Course Outcome	<ul style="list-style-type: none">• 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.• Public awareness of environmental is at infant stage.• Ignorance and incomplete knowledge has lead to misconceptions• Development and improvement in std. of living has lead to serious environmental disasters.
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Regulation	2017
Sem	04
Subject Code	CH8491
Subject Name	Instrumental Methods of Analysis
Course Outcome	<ul style="list-style-type: none">• To have thorough understanding of theory, instrumentation and applications of analytical Equipments used in industries for testing quality of raw materials, intermediates and finished products. To know the importance of analytical instrumentation during the purification, compounding and formulating the finished product.

Regulation	2017
Sem	04
Subject Code	CH8401
Subject Name	Chemical Engineering Thermodynamics I
Course Outcome	<ul style="list-style-type: none">• Understand the fundamental concepts of thermodynamics• Apply second law and analyze the feasibility of systems/devices; understand the real gas behaviour• Understand thermodynamic formulations and the working of compressors and expanders

Regulation	2017
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The Kavery Engineering College

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Subject Code	CH8402
Subject Name	Physical Chemistry
Course Outcome	<ul style="list-style-type: none">• Students gain knowledge in the field of physical chemistry for different applications.

Regulation	2017
Sem	04
Subject Code	CH8451
Subject Name	Mechanical Operations
Course Outcome	<ul style="list-style-type: none">• At the end of this course, the students will be able to understand the overview of equipment used to perform various mechanical operations and problems associated during the implementation and applications.

Regulation	2017
Sem	04
Subject Code	CH8461
Subject Name	Fluid Mechanics Laboratory
Course Outcome	<ul style="list-style-type: none">• Use variable area flow meters and variable head flow meters• Analyze the flow of fluids through closed conduits, open channels and flow past immersed bodies• Select pumps for the transportation of fluids based on process conditions/requirements and fluid properties

Regulation	2017
Sem	04
Subject Code	CY8281
Subject Name	Organic Chemistry Laboratory



The Kavery Engineering College

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	shows their mastery of nomenclature since ethyl bromide is not drawn out. The student analyzes a list of compounds and determines their reactivity.
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Regulation	2017
Sem	05
Subject Code	CH8501
Subject Name	Chemical Process Industries
Course Outcome	<ul style="list-style-type: none">At the end of this course, the student can classify the chemical process industry into industrial categories of base, intermediate end-products and specialty chemicals manufacturers.

Regulation	2017
Sem	05
Subject Code	CH8591
Subject Name	Heat Transfer
Course Outcome	<ul style="list-style-type: none">The students would have knowledge in various heat transfer methodology in process engineering.To design heat transfer equipments such as furnace, boilers, heat exchangers evaporation

Regulation	2017
Sem	05
Subject Code	CH8551
Subject Name	Mass Transfer I
Course Outcome	<ul style="list-style-type: none">Students would have knowledge in diffusion and its application in laminar and turbulent conditions.



The Javery Engineering College

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Regulation	2017
Sem	05
Subject Code	CH8502
Subject Name	Chemical Reaction Engineering I
Course Outcome	<ul style="list-style-type: none">At the end of this course, the students would gain knowledge on the selection of reactor for the required reaction.

Regulation	2017
Sem	05
Subject Code	CH8075 / Professional Elective I
Subject Name	Petroleum Refining and Petrochemicals
Course Outcome	<ul style="list-style-type: none">Understand the classification, composition and testing methods of crude petroleum / product to develop innovative refining process and develop quality control and assurance techniques.Apply the knowledge of treatment processes to develop the manufacture of petroleum products.

Regulation	2017
Sem	05
Subject Code	ORO551
Subject Name	Renewable Energy Sources/ Open Elective* I
Course Outcome	<ul style="list-style-type: none">Understanding the physics of solar radiation.Ability to classify the solar energy collectors and methodologies of storing solar energy.Knowledge in applying solar energy in a useful way.Knowledge in wind energy and biomass with its economic aspects.Knowledge in capturing and applying other forms of energy sources like wind, biogas and geothermal energies.



The Kavery Engineering College

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Regulation	2017
Sem	05
Subject Code	CH8581
Subject Name	Mechanical Operations Laboratory
Course Outcome	<ul style="list-style-type: none">Students would gain the practical knowledge and hands on various separation techniques like filtration, sedimentation, screening, elutriation, and centrifugation.

Regulation	2017
Sem	05
Subject Code	CH8561
Subject Name	Heat Transfer Laboratory
Course Outcome	<ul style="list-style-type: none">Student would be able to calculate heat transfer by conduction, different types of convection using classical models for these phenomena.

Regulation	2017
Sem	05
Subject Code	HS8581
Subject Name	Professional Communication
Course Outcome	<ul style="list-style-type: none">Make effective presentationsParticipate confidently in Group Discussions.Attend job interviews and be successful in them.Develop adequate Soft Skills required for the workplace

Regulation	2017
Sem	06
Subject Code	CH8601
Subject Name	Chemical Reaction Engineering II



The Kavery Engineering College

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Mecheri, Mettur Tk. Salem Dt - 636 453.

	kinetics and rate constants of reactions in different types of reactors. These studies have wide applications in various process industries.
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Regulation	2017
Sem	06
Subject Code	CH8651
Subject Name	Mass Transfer II
Course Outcome	<ul style="list-style-type: none">• Design absorber and stripper, distillation column.• Design extraction, leaching equipments and adsorber.

Regulation	2017
Sem	06
Subject Code	CH8602
Subject Name	Chemical Engineering Thermodynamics II
Course Outcome	<ul style="list-style-type: none">• Students will be able to apply mass, energy and entropy balances to flow processes.

Regulation	2017
Sem	06
Subject Code	CH8652
Subject Name	Process Engineering Economics
Course Outcome	<ul style="list-style-type: none">• Students will be able to understand the theory behind Inventory Control, Organization Types and PPC.• Provides the student with an ability to integrate knowledge about financial statements, Depreciation Accounting and other areas.



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Sem	06
Subject Code	CH8653
Subject Name	Process Instrumentation, Dynamics and Control
Course Outcome	<ul style="list-style-type: none">Students will understand and discuss the importance of process control in process operation and the role of process control engineers. They also understand and design the modern hardware and instrumentation needed to implement process control.

Regulation	2017
Sem	06
Subject Code	GE8076
Subject Name	Professional Ethics in Engineering/ Professional Elective II
Course Outcome	<ul style="list-style-type: none">Upon completion of the course, the student should be able to apply ethics in society, discuss the ethical issues related to engineering and realize the responsibilities and rights in the society.

Regulation	2017
Sem	06
Subject Code	CH8611
Subject Name	Computational Programming Laboratory for Chemical Engineers
Course Outcome	<ul style="list-style-type: none">Students will be equipped with the software applications and the numerical solutions of chemical engineering problems.

Regulation	2017
Sem	06
Subject Code	CH8612
Subject Name	Chemical Reaction Engineering Laboratory
Course Outcome	<ul style="list-style-type: none">Students would get a sound working knowledge on different



The Kavary Engineering College

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Regulation	2017
Sem	07
Subject Code	CH8791
Subject Name	Transport Phenomena
Course Outcome	<ul style="list-style-type: none">Students would gain the knowledge of fundamental connections between the conservation laws in heat, mass, and momentum in terms of vector and tensor fluxes. The students would be able to understand the mechanism of fluids in motion under different conditions.

Regulation	2017
Sem	07
Subject Code	CH8701
Subject Name	Process Equipment Design
Course Outcome	<ul style="list-style-type: none">Apply the skill in thermal design of heat transfer equipment like shell and tube, double pipe heat exchangers and evaporators, and assessing thermal efficiency of the above equipment in practice. Demonstrate the skills in basic design and drawing of different dryers, cooling towers and cyclone separators.Apply the concepts involved in phase separation and design of distillation, Extraction and absorption columns.Demonstrate the skills in mechanical design of process equipment, design considerations of pressure vessels and its auxiliary devices design the layout of process industries.

Regulation	2017
Sem	07
Subject Code	GE8074
Subject Name	Human Rights/ Professional Elective III
Course Outcome	<ul style="list-style-type: none">Engineering students will acquire the basic knowledge of human rights.

Regulation	2017
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The Kavery Engineering College

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Sem	07
Subject Code	CH8078
Subject Name	Process Plant Utilities/ Professional Elective IV
Course Outcome	<ul style="list-style-type: none">At the end of this course, the students will understand the importance of health, safety and the environment in process industries. Steam, power, water, air are extensively used in process industries and their efficient operation is imperative for economic and safe operation is essential for the survival of industries.

Regulation	2017
Sem	07
Subject Code	OME754
Subject Name	Industrial Safety/ Open Elective* II
Course Outcome	<ul style="list-style-type: none">Students must be able to identify and prevent chemical, environmental mechanical, fire hazard through analysis and apply proper safety techniques on safety engineering and management.

Regulation	2017
Sem	07
Subject Code	CH8711
Subject Name	Process Control Laboratory
Course Outcome	<ul style="list-style-type: none">Students would have knowledge on the development and use of right type of control dynamics for process control under different operative conditions.

Regulation	2017
Sem	07
Subject Code	CH8781
Subject Name	Mass Transfer Laboratory
Course Outcome	<ul style="list-style-type: none">Students would be able to determine important data for the design and operation of the process equipments like distillation, extraction, diffusivity and drying principles which are based



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Regulation	2017
Sem	07
Subject Code	CH8712
Subject Name	Internship
Course Outcome	<ul style="list-style-type: none">• Gain Valuable work experience.• Explore a career path.• Give yourself an edge in the job market.• Develop and refine skills.

Regulation	2017
Sem	08
Subject Code	MG8691
Subject Name	Industrial Management/ Professional Elective V
Course Outcome	<ul style="list-style-type: none">• Students gain knowledge on the basic management principles to become management (s) professional.

Regulation	2017
Sem	08
Subject Code	CH8092
Subject Name	Energy Technology/ Professional Elective VI
Course Outcome	<ul style="list-style-type: none">• Understand conventional Energy sources, Non- conventional Energy sources, biomass sources and develop design parameters for equipment to be used in Chemical process industries. Understand energy conservation in process industries.

Regulation	2017
Sem	08
Subject Code	CH8811
Subject Name	Project Work
Course Outcome	<ul style="list-style-type: none">• Demonstrate a sound technical knowledge of their selected



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	<ul style="list-style-type: none">• Design an engineering solutions to complex problems utilizing a system approach.• Demonstrate the knowledge, skills and attitudes of a professional engineer.
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Regulation	2017
Sem	08
Subject Code	CH8812
Subject Name	Seminar
Course Outcome	<ul style="list-style-type: none">• Students will develop persuasive speech, present information in a compelling, well-structured, and logical sequence, respond respectfully to opposing ideas, show depth of knowledge of complex subjects, and develop their ability to synthesize, evaluate and reflect on information.