



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: www.miet.edu



Ph: 0431 – 2660 303

SCIENCE AND HUMANITIES



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: www.miet.edu



Ph: 0431 – 2660 303

Regulation – 2017

SEMESTER - I

S.No	Course Outcome
C101/ HS8151/ COMMUNICATIVE ENGLISH	
C101.1	Speak clearly, confidently, comprehensibly, and communicate with one or many listeners using communicative strategies.
C101.2	Write coherently and flawlessly using a wide diction.
C101.3	Read different genres of texts adopting various reading strategies.
C101.4	Comprehend different spoken discourses in different accents.
C101.5	Communicate in group and to larger audience appropriately.
C101.6	Enable to understand process descriptions and present it in the relevant field.
C102/ MA8151/ENGINEERING MATHEMATICS I	
C102.1	Find the eigen values and eigen vectors to diagonalise and reduce a matrix to quadratic form.
C102.2	Check the converges, diverges of infinite series
C102.3	Find the solutions of algebraic equations solved by iterative methods gets close to the required solution.
C102.4	Obtain the evaluate and envelopes of a given curves by means of radius and centre of curvature
C102.5	Calculate the maxima and minima value functions of two variables
C102.6	Find the area of plain curves and volume of solid using double and triple integrals
C103/ PH8151/ENGINEERING PHYSICS	
C103.1	Discuss various crystal structures and different crystal growth techniques
C103.2	Demonstrate the properties of elasticity and heat transfer through objects
C103.3	Explain black body radiation, properties of matter waves and Schrodinger wave equations
C103.4	Illustrate the acoustic requirements, production and application of ultrasonics.
C103.5	Examine the characteristics of laser and optical fiber



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: www.miet.edu



Ph: 0431 – 2660 303

C103.6	Improve the property of the materials for the application of commercial devices
C104/ CY8151/ENGINEERING CHEMISTRY	
C104.1	Classify polymers and their utility in the industries and describe the techniques of polymerization and properties of polymers
C104.2	Relate various thermodynamic functions such as enthalpy, entropy, free energy and their importance and equilibrium constant and its significance
C104.3	Explain the photophysical processes such as fluorescence and phosphorescence and various components of UV and IR spectrophotometer
C104.4	Illustrate the phase transitions of one component and two component systems and the types of alloys and their applications in industries
C104.5	Outline the synthesis, characteristics and the applications of nano materials
C104.6	Knowing the various applications related to photophysical laws
C105 / GE8151/ PROBLEM SOLVING AND PYTHON PROGRAMMING	
C105.1	Demonstrate algorithm, flowchart for various programs
C105.2	Do simple programs using python programming basics
C105.3	Illustrate programs by using arrays and string functions
C105.4	Develop simple programs using functions and pointers
C105.5	Design mini projects with structures.
C105.6	Develop applications using python Programming Language
C106 / GE8152/ ENGINEERING GRAPHICS	
C106.1	Construct engineering curves
C106.2	Sketch all the views of engineering objects in free hand.
C106.3	Draw the projection of points, lines and planes.
C106.4	Draw the projection of solids in any orientation.
C106.5	Develop the section and lateral surfaces of sectioned solids
C106.6	Sketch the solids in perspective and isometric approaches



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: www.miet.edu



Ph: 0431 – 2660 303

C107 / GE8161/ PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY	
C107.1	Demonstrate algorithm, flowchart for various programs
C107.2	Do simple programs using python programming basics
C107.3	Illustrate programs by using arrays and string functions
C107.4	Develop simple programs using functions and pointers
C107.5	Design mini projects with structures.
C107.6	Develop applications using python Programming Language
C108 / BS8161/ PHYSICS AND CHEMISTRY LABORATORY	
C108.1	The student will be able to analyze the physical principle involved in the various instruments, also relate the principle to new application.
C108.2	The various experiments in the areas of elasticity, optics, mechanics and thermal physics will nurture the students in all branches of Engineering.
C108.3	The students will be able to think innovatively and also improve the creative skills that are essential for engineering.
SEMESTER – II	
C109 / HS8251/ TECHNICAL ENGLISH	
C109.1	Speak clearly, confidently, comprehensibly, and communicate with one or many listeners using communicative strategies.
C109.2	Write coherently and flawlessly using a wide diction.
C109.3	Read different genres of texts adopting various reading strategies.
C109.4	Comprehend different spoken discourses in different accents.
C109.5	Communicate in group and to larger audience appropriately.
C109.6	Enable to understand process descriptions and present it in the relevant field.
C110 / MA8251/ ENGINEERING MATHEMATICS II	
C110.1	Apply the vector concepts of vector calculus in engineering disciplines
C110.2	Apply the knowledge of mathematics in solving higher order differential equations with constant coefficients.



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: www.miet.edu



Ph: 0431 – 2660 303

C110.3	To have the basic knowledge of differential equation in typical mechanical fields.
C110.4	Understand and apply the knowledge of Laplace transform in solving ordinary differential equation.
C110.5	Understand the standard techniques of complex variable theory and use them to solve core engineering problems.
C110.6	Evaluate real integrals by applying concept of complex integration.
C111 / PH8253/PHYSICS FOR ELECTRONICS ENGINEERING	
C111.1	Gain knowledge on classical and quantum electron theories, and energy band structures,
C111.2	Acquire knowledge on basics of semiconductor physics and its applications in various devices,
C111.3	Get knowledge on magnetic and dielectric properties of materials,
C111.4	Have the necessary understanding on the functioning of optical materials for optoelectronics,
C111.5	Understand the basics of quantum structures and their applications in spintronics and carbon electronics.
C112/ BE8254/BASIC ELECTRICAL AND INSTRUMENTATION ENGINEERING	
C112.1	Fundamentals of semiconductor and basic theorems used in Electrical circuits
C112.2	Design amplifier circuits under CB, CE, CC Configurations.
C112.3	Design the Adders – Flip-Flops – Registers and Counters with logic gates.
C112.4	Discuss the Principles of Amplitude and Frequency Modulations and various blocks Communication Systems
C112.5	Demonstrate the working of Television systems, FAX machines and micro wave systems.
C113 /EC8251/CIRCUIT ANALYSIS	
C113.1	Develop the capacity to analyze electrical circuits, apply the circuit theorems in real time
C113.2	Design and understand and evaluate the AC and DC circuits.
C113.3	Practical implications of the fundamentals of Ohm’s law, Kirchhoff’s current and voltage laws
C113.4	Accurate measurement of voltage, current, power and impedance of any circuit
C113.5	DC analysis, Transient analysis and Frequency analysis of a given circuit depending on types of elements



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: www.miet.edu



Ph: 0431 – 2660 303

C113.6	Practical implementation of the fundamental electrical theorems and modeling of simple electrical systems
C114/ EC8252/ELECTRONIC DEVICES	
C114.1	Describe the principle and characteristics of semiconductor diode
C114.2	Analyze various transistor configurations
C114.3	Construct large signal modeling and small signal modeling of a transistor
C114.4	Describe the principle of operation and characteristics of special Semiconductor diodes
C114.5	Discuss the operation of various semiconductor photo devices and power electronic devices
C114.6	Implement real time applications using electronic devices
C115/ EC8261/CIRCUITS AND DEVICES LABORATORY	
C115.1	Identify the basic devices and its configurations
C115.2	Analyze the resistive circuits with different sources
C115.3	Obtain the resonance for different configurations of RLC
C115.4	Explain the response of RLC circuit with different inputs
C115.5	Understand the operation of basic solid state devices
C115.6	Plot the response of wave shaping circuits
C116 / GE8261/ ENGINEERING PRACTICES LABORATORY	
C116.1	Gets exposure regarding Joining operations in engineering materials.
C116.2	Carry out the basic machining operations in engineering materials.
C116.3	Carry out basic home electrical works and appliances
C116.4	Measure the electrical quantities
C116.5	Understand basic electronic components.
C116.6	Integrate the components and gates using soldering practices.



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
 UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
 (An ISO 9001:2015 Certified Institution)
 TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
 Email: principalengg@miet.edu, contact@miet.edu
 Website: www.miet.edu



Ph: 0431 – 2660 303

S.No	Course Outcome											
	HS8151- Communicative English											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	2	-	-	-	-	2	2	-	2	3	-	2
C101.2	-	-	-	-	-	2	2	-	2	3	-	2
C101.3	-	2	-	2	2	2	2	-	2	3	-	2
C101.4	2	-	-	-	-	2	2	-	2	3	-	2
C101.5	2	-	-	-	-	2	2	-	2	3	-	2
C101.6	2	-	-	-	3	2	2	-	2	3	-	2
	MA8151- Engineering Mathematics - I											
C102.1	3	2	2	-	-	2	-	-	-	3	-	2
C102.2	2	3	2	-	-	-	-	-	-	-	-	-
C102.3	3	2	2	-	-	-	-	-	-	2	-	-
C102.4	3	2	3	2	2	-	-	2	-	2	-	-
C102.5	3	3	2	2	-	2	-	-	-	-	-	2
C102.6	3	2	2	2	2	2	-	2	-	-	2	2
	PH8151- Engineering Physics											
C103.1	3	2	2	3	2	2	-	-	-	-	-	3
C103.2	3	3	3	2	-	2	-	-	-	-	-	3
C103.3	3	2	-	-	-	-	-	-	-	-	-	3
C103.4	3	3	3	3	2	2	-	-	-	-	-	2
C103.5	3	2	3	3	2	3	2	-	-	-	-	2
C103.6	3	2	3	3	2	3	2	-	-	-	-	2
	CY8151- Engineering Chemistry											
C104.1	2	2	2	2	2	-	3	-	2	-	2	3
C104.2	2	2	2	2	2	-	-	-	2	-	2	2



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
 UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
 (An ISO 9001:2015 Certified Institution)
 TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
 Email: principalengg@miet.edu, contact@miet.edu
 Website: www.miet.edu



Ph: 0431 – 2660 303

BS8161- Physics and Chemistry Laboratory												
C108.1	3	2	3	-	-	-	-	-	3	2	2	2
C108.2	3	2	2	-	-	-	-	-	3	2	2	3
C108.3	3	3	2	-	-	-	-	-	3	2	2	3
C108.4	3	2	2	-	-	-	-	-	3	2	2	2
C108.5	3	3	2	-	-	-	-	-	3	2	2	3
C108.6	3	2	2	-	-	-	-	-	3	2	2	2
HS8251- Technical English												
C109.1	2	2	-	-	-	2	2	-	2	3	-	2
C109.2	2	3	-	-	-	2	2	-	2	3	-	2
C109.3	2	2	-	-	-	2	2	-	2	3	-	2
C109.4	2	2	-	-	-	2	2	-	2	3	-	2
C109.5	2	3	-	-	-	2	2	-	2	3	-	2
C109.6	2	3	-	-	-	2	2	-	2	3	-	2
MA8251- Engineering Mathematics – II												
C110.1	3	3	3	3	2	2	-	-	-	2	-	-
C110.2	3	2	2	-	-	2	-	-	-	-	-	-
C110.3	3	3	3	-	-	2	-	2	-	2	-	2
C110.4	3	2	2	-	2	-	-	-	-	-	-	-
C110.5	3	3	3	2	2	-	-	-	-	2	2	-
C110.6	2	2	3	2	2	2	-	-	-	2	-	2
PH8253- Physics for Electronics Engineering												
C111.1	2	2	-	-	-	-	-	-	-	-	-	-
C111.2	3	2	3	-	-	2	2	-	-	3	-	2
C111.3	3	3	3	3	-	2	2	-	-	3	-	2
C111.4	3	3	3	3	-	2	2	-	-	3	-	2



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
 UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
 (An ISO 9001:2015 Certified Institution)
 TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
 Email: principalengg@miet.edu, contact@miet.edu
 Website: www.miet.edu



Ph: 0431 – 2660 303

C111.5	3	2	2	-	2	2	2	-	2	3	-	3
C111.6	3	2	2	-	2	3	2	-	2	3	-	3
BE8254- Basic Electrical and Instrumentation Engineering												
C112.1	2	2	2	-	2	-	-	-	-	-	2	2
C112.2	2	2	2	-	2	-	-	-	-	-	2	2
C112.3	2	2	2	2	2	2	-	-	-	-	2	2
C112.4	2	2	2	-	2	2	-	-	-	-	2	2
C112.5	2	2	2	-	2	2	2	-	2	-	2	2
C112.6	2	2	2	2	2	2	2	-	2	-	2	2
EC8251- Circuit Analysis												
C113.1	3	2	2	-	2	-	-	-	-	-	-	2
C113.2	3	2	2	-	2	-	-	-	-	-	-	2
C113.3	3	2	2	-	2	-	-	-	-	-	-	2
C113.4	3	2	2	-	2	-	-	-	-	-	-	2
C113.5	3	2	2	-	2	-	-	-	-	-	-	2
C113.6	3	2	2	-	2	-	-	-	-	-	-	2
EC8252- Electronic Devices												
C114.1	3	3	3	2	2	2	-	2	2	2	3	2
C114.2	3	3	3	2	2	-	-	-	-	3	2	2
C114.3	3	3	3	2	2	-	-	-	-	2	2	2
C114.4	3	3	3	2	3	-	2	-	-	2	2	2
C114.5	3	3	3	2	2	-	-	-	-	3	2	2
C114.6	3	3	3	2	3	-	-	2	-	2	2	2
EC8261- Circuits and Devices Laboratory												
C115.1	2	-	2	2	3	-	2	2	3	2	3	2
C115.2	2	-	2	3	3	-	2	2	2	2	3	2



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
 UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
 (An ISO 9001:2015 Certified Institution)
 TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
 Email: principalengg@miet.edu, contact@miet.edu
 Website: www.miet.edu



Ph: 0431 – 2660 303

C115.3	2	-	2	2	2	-	2	2	2	2	3	2
C115.4	2	-	2	2	3	-	2	2	3	2	3	2
C115.5	2	-	2	3	3	-	2	2	2	2	3	2
C115.6	2	-	2	2	2	-	2	2	2	2	3	2
GE8261- Engineering Practices Laboratory												
C116.1	3	-	-	-	-	-	-	-	-	-	-	-
C116.2	3	3	3	-	-	-	-	2	-	-	-	-
C116.3	3	3	3	-	-	-	-	2	-	-	-	-
C116.4	3	2	3	-	-	-	-	2	-	-	-	-
C116.5	3	2	3	-	-	-	-	2	-	-	-	-
C116.6	3	2	3	2	-	-	-	2	-	-	-	-
C116.6	3	3	3	2	-	-	-	2	-	2	-	2

PRINCIPAL