PERI
INSTITUTE OF TECHNOLOGY

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
# REGULATION-2017

## COURSE OUTCOMES

| | | |
|---|---|---|
| **SEM II** | **Course Name: Technical English: HS8251** | |
| | **Students will be able to :** | |
| | **HS8251.1** | Read technical texts and write area- specific texts effortlessly. |
| | **HS8251.2** | Listen and comprehend lectures and talks in their area of specialization successfully. |
| | **HS8251.3** | Speak appropriately and effectively in varied formal and informal contexts. |
| | **HS8251.4** | Write reports and winning job applications. |
| | **HS8251.5** | Examine the characteristics of laser and optical fiber. |

| | | |
|---|---|---|
| **SEM II** | **Course Name: Engineering Mathematics II: MA8251** | |
| | **Students will be able to :** | |
| | **MA8251.1** | Eigen values and eigenvectors, diagonalization of a matrix, Symmetric matrices, Positive definite matrices and similar matrices. |
| | **MA8251.2** | Apply differentiation to solve maxima and minima problems. Gradient, divergence and curl of a vector point function and related identities. |
| | **MA8251.3** | Evaluation of line, surface and volume integrals using Gauss, Stokes and Green‘s theorems and their verification. |
| | **MA8251.4** | Analytic functions, conformal mapping and complex integration. |
| | **MA8251.5** | Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients. |

| | |
|---|---|
| **SEM** | **Course Name: Physics for Information Science: PH8252** |

| | | |
|---|---|---|
| | **Students will be able to :** | |
| | **PH8252.1** | Gain knowledge on classical and quantum electron theories, and energy band structures |
| | **PH8252.2** | Acquire knowledge on basics of semiconductor physics and its applications in various devices |
| | **PH8252.3** | Get knowledge on magnetic properties of materials and their applications in data storage. |
| | **PH8252.4** | Have the necessary understanding on the functioning of optical materials for optoelectronics. |
| | **PH8252.5** | Understand the basics of quantum structures and their applications in carbon electronics.. |

| | | |
|---|---|---|
| **SEM II** | **Course Name: Basic Electrical Electronics and Measurement Engineering : BE8255** | |
| | **Students will be able to :** | |
| | **BE8255.1** | Discuss the essentials of electric circuits and analysis. |
| | **BE8255.2** | Discuss the basic operation of electric machines and transformers. |
| | **BE8255.3** | Introduction of renewable sources and common domestic loads. |
| | **BE8255.4** | Introduction to measurement and metering for electric circuits. |
| | **BE8255.5** | Introduction to transducers and oscilloscope. |

| | | |
|---|---|---|
| **SEM II** | **Course Name: Environmental Science and Engineering: GE8291** | |
| | **Students will be able to :** | |
| | **GE8291.1** | 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. |
| | **GE8291.2** | Public awareness of environmental is at infant stage. |
| | **GE8291.3** | Ignorance and incomplete knowledge have led to misconceptions |
| | **GE8291.4** | Development and improvement in std. of living has lead to serious environmental disasters |
| | **GE8291.5** | Analyze the impact of Environmental integrated themes and social issues. |

| | | |
|---|---|---|
| **SEM II** | **Course Name: Programming in C - CS8251** | |
| | **Students will be able to :** | |
| | **CS8251.1** | C Programs using basic programming constructs |
| | **CS8251.2** | C programs using arrays and strings |
| | **CS8251.3** | Applications in C using functions and pointers |
| | **CS8251.4** | C programs using structures and Dynamic memory allocation |
| | **CS8251.5** | Input/output and file handling in C |

| | | |
|---|---|---|
| **SEM II** | **Course Name: Engineering Practices laboratory - CS8261** | |
| | **Students will be able to :** | |
| | **CS8261.1** | Fabricate carpentry components and pipe connections including plumbing works. |
| | **CS8261.2** | Use welding equipment's to join the structures. |
| | **CS8261.3** | Make the models using sheet metal works Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundry and fittings. |
| | **CS8261.4** | Carry out basic home electrical works and appliances Measure the electrical quantities. |
| | **CS8261.5** | Elaborate on the components, gates, soldering practices. |

| | | |
|---|---|---|
| **SEM II** | **Course Name: Programming in C lab - CS8251** | |
| | **Students will be able to :** | |
| | **CS8251.1** | C Programs using basic programming constructs |
| | **CS8251.2** | C programs using arrays and strings |
| | **CS8251.3** | Applications in C using functions and pointers |
| | **CS8251.4** | C programs using structures and Dynamic memory allocation |
| | **CS8251.5** | Input/output and file handling in C |