



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

## Course Outcome Statements

### Regulation 2017

#### DEPARTMENT OF ARTIFICIAL INTELLIGENCE&DATA SCIENCE

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I & I
<b>Course Code &amp; Name:</b>	HS8151&Communicative English
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name : C101 &amp; HS8151-Communicative English</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C101.1	<b>Enable</b> the development in sharing information about family and friends.	K3
C101.2	<b>Strengthen</b> general comprehending skills and present lucid skills in free writing.	K2
C101.3	<b>Understand</b> the basic grammar techniques and utilize it in enhancing language development.	K2
C101.4	<b>Foster</b> an environment for reading and develop good language skills.	K2
C101.5	<b>Develop</b> flair for any kind of writing with rich vocabulary and proper syntax.	K2

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I& I
<b>Course Code &amp; Name:</b>	MA8151&Engineering Mathematics – I
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name :C102 &amp; MA8151-Engineering Mathematics -1</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C102.1	<b>Use</b> both the limit definition and rules of differentiation to differentiate functions	K3
C102.2	<b>Apply</b> differentiation to solve maxima and minima problems.	K3
C102.3	<b>Evaluate</b> integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus. Apply techniques of integration to compute multiple integrals and evaluate convergent improper Integrals	K3
C102.4	<b>Apply</b> integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.	K3
C102.5	<b>Apply</b> various techniques in solving differential equations	K3



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I& I
<b>Course Code &amp; Name:</b>	PH8151& Engineering Physics
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name :C103 &amp; PH8151- Engineering Physics</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
<b>The students should be able to</b>		
C103.1	<b>Gain</b> knowledge on the basics of properties of mater and its applications.	K2
C103.2	<b>Acquire</b> knowledge on the concepts of waves and optical devices and their application in fiber optic s	K2
C103.3	Have <b>adequate</b> knowledge on the concepts of thermal properties of material and their in application in expansion joints and heat exchanger.	K3
C103.4	<b>Got</b> knowledge on advanced physics concepts of quantum theory and its applications in tunneling microscope.	K2
C103.5	<b>Understand</b> the basics of crystals, their structures and different crystal growth technique.	K2

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I& I
<b>Course Code &amp; Name:</b>	CY8151&Engineering Chemistry
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name : C104 &amp; CY8151- Engineering Chemistry</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
<b>The students should be able to</b>		
C104.1	<b>Understand</b> about various water treatment technique and its uses.	K2
C104.2	<b>Know</b> the surface phenomena of molecules and its applications	K2
C104.3	<b>Understand</b> the phase diagram and predict the composition of alloys.	K2
C104.4	<b>Analyze</b> the quality of fuels and its various uses. Gain the knowledge about energy sources and its applications.	K4
C104.5	<b>Gain</b> the knowledge about energy sources and its applications.	K2



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I & I
<b>Course Code &amp; Name:</b>	GE8151&Problem Solving and Python Programming
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name : C105 &amp; GE8151-Problem solving and python programming</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C105.1	<b>Develop</b> algorithmic solutions to simple computational problems	K4
C105.2	<b>Read, write, execute</b> by hand simple Python programs and Structure simple Python programs for solving problems.	K2
C105.3	<b>Decompose</b> a Python program into functions.	K3
C105.4	<b>Represent</b> compound data using Python lists, tuples, dictionaries.	K3
C105.5	<b>Read and write</b> data from/to files in Python Programs.	K2

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I & I
<b>Course Code &amp; Name:</b>	GE8152&Engineering Graphics
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name:GE8152&amp;Engineering Graphics</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C106.1	<b>Familiarize</b> with the fundamentals and standards of Engineering graphics	K3
C106.2	<b>Perform</b> freehand sketching of basic geometrical constructions and multiple views of objects.	K3
C106.3	<b>Project</b> orthographic projections of lines and plane surfaces.	K2
C106.4	<b>Draw</b> projections and solids and development of surfaces.	K4
C106.5	<b>Visualize</b> and to project isometric and perspective sections of simple solids.	K3



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I& I
<b>Course Code &amp; Name:</b>	GE8161&Problem Solving And Python Programming Laboratory
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name :GE8161&amp;Problem Solving And Python Programming Laboratory</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C107.1	To <b>write, test, and debug</b> simple Python programs.	K3
C107.2	To <b>implement</b> Python programs with conditionals and loops.	K3
C107.3	<b>Use functions</b> for structuring Python programs.	K3
C107.4	<b>Represent</b> compound data using Python lists, tuples, dictionaries.	K3
C107.5	<b>Read and write</b> data from/to files in Python.	K3

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I& I
<b>Course Code &amp; Name:</b>	BS8161& Physics And Chemistry Laboratory
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name : C108 &amp; BS8161-Physics and chemistry laboratories</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C108.1	<b>Determine</b> Young's modulus of beam and Rigidity modulus.	K3
C108.2	<b>Apply</b> the principle of optics and Laser in engineering field	K3
C108.3	<b>Calculate</b> conductivity, and band gap of a semiconductor and velocity of sound waves.	K3
C108.4	<b>Analyze</b> the effect of chlorides in water DO present in sample water	K3
C108.5	<b>Identify</b> basicity, acidity and pH of the material	K2



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I & II
<b>Course Code &amp; Name:</b>	HS8251&Technical English
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name :C109 &amp; HS8251- Technical English</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C109.1	<b>Breakdown</b> the ideas in to its elementary constituents, analyze and act after a meaning full thought process.	K2
C109.2	<b>Analyze</b> the phrase and passage and explicitly pass on the ideas meaning fully.	K3
C109.3	<b>Manage</b> to interpret the given phrase or the graphical rendering and review the contents well individually or as a group.	K3
C109.4	<b>Concentrate</b> on the communication aspect of complicated ideas and respond positively.	K2
C109.5	<b>Debate</b> the issues and find the rudiments of the problem individually and as a group.	K2

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I & II
<b>Course Code &amp; Name:</b>	MA8252& Linear Algebra
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name :MA8252 &amp;Linear Algebra</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C110.1	Test the consistency and <b>solve</b> system of linear equations	K2
C110.2	<b>Find</b> the basis and dimension of vector space	K3
C110.3	<b>Obtain</b> the matrix of linear transformation and its eigen values and eigenvectors	K4
C110.4	<b>Find</b> orthonormal basis of inner product space and find least square approximation	K2
C110.5	<b>Find</b> orthonormal basis of inner product space and find least square approximation	K3





# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech.ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I&II
<b>Course Code &amp; Name:</b>	AD8251&Data Structures Design
<b>Year of Study :</b>	2020-2021

Course Code and Name:AD8251 &Data Structures Design		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C111.1	<b>Explain</b> abstract data types	K2
C111.2	Design, implement, and <b>analyse</b> linear data structures, such as lists, queues, and stacks,	K4
C111.3	Design according to the needs of <b>different</b> applications	K6
C111.4	Design, implement, and <b>analyse</b> efficient tree structures to meet requirements such as searching, indexing, and sorting	K4
C111.5	Model problems as graph problems and implement efficient graph algorithms to <b>solve</b> them	K4

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I& II
<b>Course Code &amp; Name:</b>	GE8291&Environmental Science And Engineering
<b>Year of Study :</b>	2020-2021

Course Code and Name :C113 & GE8291-Environmental Science And Engineering		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C112.1	<b>Realize</b> the nature and facts of environment and bio-diversity.	K1
C112.2	<b>Understand</b> the Environmental Pollution (Causes, Effects and Control Measures)	K2
C112.3	<b>Identify</b> various natural recourses and save nature.	K2
C112.4	<b>Inference</b> on Social issues and the Environment.	K2
C112.5	<b>Understand</b> the population and technological effects on environment.	K2



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.TechARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I& II
<b>Course Code &amp; Name:</b>	BE8255&Basic Electrical, Electronics And Measurement Engineering
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name : C112 &amp; BE8255 Basic Electrical, Electronics and Measurement Engineering</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C113.1	<b>Discuss</b> the essentials of electric circuits and analysis.	K2
C113.2	<b>Discuss</b> the basic operation of electric machines and transformers	K2
C113.3	<b>State</b> the renewable sources and common domestic loads.	K2
C113.4	<b>Understand</b> the fundamentals of electronic circuit constructions	K2
C113.5	<b>Describe</b> the measurement and metering for electric circuits.	K2

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I& II
<b>Course Code &amp; Name:</b>	AD8252&Digital Principles And Computer Organization
<b>Year of Study :</b>	2020-2021

<b>Course Code and Name : AD8252&amp;Digital Principles And Computer Organization</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C114.1	<b>Design</b> various combinational digital circuits using logic gates	K3
C114.2	<b>Design</b> sequential circuits and analyze the design procedures	K3
C114.3	<b>State</b> the fundamentals of computer systems and <b>analyze</b> the execution of an instruction	K2
C114.4	<b>Analyze</b> different types of control design and identify hazards	K4
C114.5	<b>Identify</b> the characteristics of various memory systems and I/O communication	K3



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I & II
<b>Course Code &amp; Name:</b>	GE261& Engineering Practices Laboratory
<b>Year of Study :</b>	2020-2021

Course Code and Name : C115 & GE261- Engineering Practices Laboratory		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C115.1	<b>Fabricate</b> carpentry components and pipe connections including plumbing works and Use welding equipments to join the structures.	K4
C115.2	<b>Carryout</b> the basic machining operations and Make the models using sheet metal works	K4
C115.3	<b>Illustrate</b> on centrifugal pump, Air conditioner, operations of smithy, foundry and fittings.	K4
C115.4	<b>Carry out</b> basic home electrical works and appliances and Measure the electrical quantities	K4
C115.5	<b>Elaborate</b> on the components, gates, soldering practices.	K4

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE&amp;DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	I& II
<b>Course Code &amp; Name:</b>	AD8261&Data Structures Design Laboratory
<b>Year of Study :</b>	2020-2021

Course Code and Name :AD8261&Data Structures Design Laboratory		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C116.1	<b>Implement</b> ADTs as Python classes	K3
C116.2	<b>Design, implement, and analyze</b> linear data structures, such as lists, queues, and stacks, according to the needs of different applications	K4
C116.3	<b>Design, implement, and analyze</b> efficient tree structures to meet requirements such as searching, indexing, and sorting	K6
C116.4	Model problems as graph problems and implement efficient graph algorithms to <b>solve</b> them	K6
C116.5	Model problems as tree problems and implement efficient graph algorithms to <b>solve</b> them	K6





# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II&III
<b>Course Code &amp; Name:</b>	MA8354&DISCRETE MATHEMATICS
<b>Year of Study :</b>	2021-2022

Course Code and Name: MA3354&Discrete Mathematics		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C201.1	<b>Knowledge</b> of the concepts needed to test the logic of a program.	K1
C201.2	<b>Understanding</b> in identifying structures on many levels	K2
C201.3	Be aware of a class of functions <b>which</b> transform a finite set into another finite set which relates to input and output functions in Computer science.	K1
C201.4	<b>List</b> of the counting principles.	K1
C201.5	<b>Concepts</b> and properties of algebraic structures such as groups, rings and field.	K3

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II&III
<b>Course Code &amp; Name:</b>	AD8301- Introduction To Operating Systems
<b>Year of Study :</b>	2021-2022

Course Code and Name :AD8301- Introduction To Operating Systems		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C202.1	<b>Outline</b> the basic services and functionalities of operating systems	K2
C202.2	<b>Analyse</b> various scheduling algorithms, and understand the different deadlock, prevention and avoidance schemes	K4
C202.3	<b>Illustrate</b> the different memory management schemes	K2
C202.4	<b>Outline</b> the functionality of file systems	K2
C202.5	<b>Compare and contrast</b> Linux, Windows and mobile operating systems	K2



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

Programme: B.Tech. ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
Year & Semester:	II&III
Course Code & Name:	AD8302&Fundamentals of Data Science
Year of Study :	2021-2022

Course Code and Name :AD8302 &Fundamentals of Data Science		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C203.1	<b>Apply</b> the skills of data inspecting and cleansing.	K3
C203.2	<b>Determine</b> the relationship between data dependencies using statistics	K5
C203.3	Can <b>handle</b> data using primary tools used for data science in Python	K3
C203.4	<b>Represent</b> the useful information using mathematical skills	K3
C203.5	Can <b>apply</b> the knowledge for data describing and visualization using tools.	K3

Programme: B.Tech. ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
Year & Semester:	II & III
Course Code & Name:	CS8392Object Oriented Programming
Year of Study :	2021-2022

Course Code and Name : CS8392 Object Oriented Programming		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C204.1	<b>Develop</b> Java programs using OOP principles	K6
C204.2	<b>Develop</b> Java programs with the concepts inheritance and interfaces	K6
C204.3	<b>Build</b> Java applications using exceptions and I/O streams	K3
C204.4	<b>Develop</b> Java applications with threads and generics classes	K6
C204.5	<b>Develop</b> interactive Java programs using swings	K6



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II & III
<b>Course Code &amp; Name:</b>	AD8351 Design and Analysis Algorithms
<b>Year of Study :</b>	2021-2022

<b>Course Code and Name :AD8351 Design and Analysis Algorithms</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C204.1	<b>Design</b> algorithms for various computing problems.	K6
C204.2	<b>Analyze</b> the time and space complexity of algorithms.	K4
C204.3	<b>Critically analyze</b> the different algorithm design techniques for a given problem.	K4
C204.4	<b>Modify</b> existing algorithms to improve efficiency	K6
C204.5	<b>Ability</b> to implement techniques in solving real time problems	K3

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II & III
<b>Course Code &amp; Name:</b>	AD8311 & Data Science Laboratory
<b>Year of Study :</b>	2021-2022

<b>Course Code and Name :AD8311 &amp; Data Science Laboratory</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C205.1	<b>Develop</b> relevant programming abilities	K3
C205.2	<b>Demonstrate</b> knowledge of statistical data analysis techniques	K2
C205.3	<b>Exhibit</b> proficiency to build and assess data-based models	K6
C205.4	<b>Demonstrate</b> skill in Data management & processing tasks using Python	K2
C205.5	<b>Apply</b> data science concepts and methods to solve problems in real-world contexts and will communicate these solutions effectively	K3



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II&III
<b>Course Code &amp; Name:</b>	CS8383 Object Oriented Programming Laboratory
<b>Year of Study :</b>	2021-2022

<b>Course Code and Name : CS8383 OBJECT ORIENTED PROGRAMMING LABORATORY</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C206.1	<b>Develop</b> and implement Java programs for simple applications that make use of classes, packages and interfaces.	K6
C206.2	<b>Develop</b> and implement Java programs with array list, exception handling and multithreading	K6
C206.3	<b>Design applications</b> using file processing, generic programming and event handling.	K6
C206.4	<b>Develop</b> applications using stream I/O and file I/O	K6
C206.5	<b>Implement</b> simple graphical user interface	K6

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II&III
<b>Course Code &amp; Name:</b>	C207 & HS8381 Interpersonal Skills/Listening & Speaking
<b>Year of Study :</b>	2021-2022

<b>Course Code and Name : HS8381 - Interpersonal Skills/Listening &amp; Speaking</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C207.1	Listen and respond appropriately especially in academic contexts	K1
C207.2	<b>Participate</b> in group discussions with special emphasis on stress and intonation	K2
C207.3	<b>Develop</b> lexical accuracy and fluency in articulation	K3
C207.4	<b>Assess</b> conversations and offer Verbal and Non-Verbal feedbacks	K3
C207.5	<b>Plan</b> and devise effective presentations	K4



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II& IV
<b>Course Code &amp; Name:</b>	MA8391 Probability and Statistics
<b>Year of Study :</b>	2021-2022

<b>Course Code and Name: MA8391 Probability and Statistics</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C208.1	<b>Understand</b> the fundamental knowledge of the concepts of probability and have knowledge of standard distributions, which can describe real life phenomenon.	K4
C208.2	<b>Understand</b> the basic concepts of one and two dimensional random variables and apply in engineering applications	K2
C208.3	<b>Apply</b> the concept of testing of hypothesis for small and large samples in real life problems.	K5
C208.4	<b>Apply</b> the basic concepts of classifications of design of experiments in the field of agriculture and statistical quality control.	K1
C208.5	<b>Have the notion</b> of sampling distributions and statistical techniques used in engineering and management problems.	K4

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II& IV
<b>Course Code &amp; Name:</b>	AD8401&Database Design And Management
<b>Year of Study :</b>	2021-2022

<b>Course Code and Name:AD8401&amp;Database Design And Management</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C209.1	<b>Understand</b> the database development life cycle and apply conceptual modeling	K2
C209.2	<b>Apply</b> SQL and programming in SQL to create, manipulate and query the database	K3
C209.3	<b>Apply</b> the conceptual-to-relational mapping and normalization to design relational dataabase	K3
C209.4	<b>Determine</b> the serializability of any non-serial schedule using concurrency techniques	K5
C209.5	<b>Apply</b> the data model and querying in Object-relational and No-SQL data basses.	K3





# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II&IV
<b>Course Code &amp; Name:</b>	AD8402 Artificial Intelligence I
<b>Year of Study :</b>	2021-2022

<b>Course Code and Name : AD8402 Artificial Intelligence I</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C210.1	<b>Explain</b> autonomous agents that make effective decisions in fully informed, partially observable, and adversarial settings	K2
C210.2	Choose <b>appropriate</b> algorithms for solving given AI problems	K3
C210.3	<b>Design and implement</b> logical reasoning agents	K3
C210.4	<b>Design</b> agents that can reason under uncertainty	K3
C210.5	<b>Implement</b> agents that can reason under uncertainty	K3

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II&IV
<b>Course Code &amp; Name:</b>	AD8403 Data Analytics
<b>Year of Study :</b>	2021-2022

<b>Course Code and Name : AD8403 Data Analytics</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C211.1	<b>Understand</b> the concept of sampling	K2
C211.2	<b>Apply</b> the knowledge to derive hypotheses for given data	K3
C211.3	<b>Demonstrate</b> the skills to perform various tests in the given data	K2
C211.4	<b>Ability</b> to derive inference using Predictive Analytics	K3
C211.5	<b>Perform</b> statistical analytics on a data set	K3



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II& IV
<b>Course Code &amp; Name:</b>	C212 & AD8411&Database Design And Management Laboratory
<b>Year of Study :</b>	2021-2022

<b>Course Code and Name:AD8411&amp; Database Design And Management Laboratory</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C212.1	<b>Understand</b> the database development life cycle	K2
C212.2	<b>Design</b> relational database using conceptual-to-relational mapping, Normalization	K4
C212.3	<b>Apply</b> SQL for creation, manipulation and retrieval of data	K3
C212.4	<b>Develop</b> a database applications for real-time problems	K5
C212.5	<b>Design and query</b> object-relational databases	K5

<b>Programme: B.E.ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	II&IV
<b>Course Code &amp; Name:</b>	AD8412Data Analytics Laboratory
<b>Year of Study :</b>	2021-2022

<b>Course Code and Name :AD8412Data Analytics Laboratory</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C213.1	To become <b>skilled</b> to use various packages in Python	K4
C213.2	<b>Demonstrate</b> the understanding of data distribution with various samples	K3
C213.3	Ability to <b>Implement</b> T-Test ,Anova and Z-Test on sample data sets	K4
C213.4	<b>Understanding</b> of Mathematical models in real world problems.	K2
C213.5	<b>Conduct</b> time series analysis and draw conclusion.	K4



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

Programme: B.E.ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
Year & Semester:	II&IV
Course Code & Name:	C214 & AD8412Artificial Intelligence – I Laboratory
Year of Study :	2021-2022

Course Code and Name : AD8412Artificial Intelligence – I Laboratory		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C214.1	<b>Implement</b> simple PEAS descriptions for given AI tasks	K3
C214.2	<b>Develop</b> programs to implement simulated annealing and genetic algorithms	K3
C214.3	<b>Demonstrate</b> the ability to solve problems using searching and backtracking	K3
C214.4	Ability to <b>Implement</b> simple reasoning systems using either backward or forward inference mechanisms	K3
C214.5	Will be able to choose and <b>implement</b> a suitable technics for a given AI task	K4

Programme: B.E.ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
Year & Semester:	II&IV
Course Code & Name:	C215 & HS8461 &Advanced Reading And Writing
Year of Study :	2021-2022

Course Code and Name : HS8461 Advanced Reading And Writing		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C215.1	<b>Strengthen</b> the reading and writing skills of the students	K2
C215.2	<b>Comprehend</b> and interpret data into coherent paragraphs	K3
C215.3	<b>Evaluate</b> texts critically	K3
C215.4	<b>Draft</b> winning Job applications	K4
C215.5	<b>Write</b> impressive project proposals with critical acumen	K1



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	III & V
<b>Course Code &amp; Name:</b>	C301 & AD8501 Optimization Techniques
<b>Year of Study :</b>	2022-2023

Course Code and Name: AD8501 OPTIMIZATION TECHNIQUES		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C301.1	<b>Formulate and solve</b> linear programming problems (LPP)	K5
C301.2	<b>Evaluate</b> Integer Programming Problems, Transportation and Assignment Problems.	K5
C301.3	<b>Obtain</b> solution to network problems using CPM and PERT techniques.	K3
C301.4	Able to <b>optimize</b> the function subject to the constraints	K4
C301.5	<b>Identify and solve</b> problems under Markovian queuing models	K4

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	III & V
<b>Course Code &amp; Name:</b>	C302 & CW8691 Computer Networks
<b>Year of Study :</b>	2022-2023

Course Code and Name : CW8691 COMPUTER NETWORKS		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C302.1	<b>Comprehend</b> the basic layers and its functions in computer networks.	K2
C302.2	<b>Evaluate</b> the performance of a network.	K5
C302.3	<b>Understand</b> the basics of how data flows from one node to another.	K2
C302.4	<b>Analyze and design</b> routing algorithms.	K5
C302.5	<b>Design</b> protocols for various functions in the network.	K4



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	III&V
<b>Course Code &amp; Name:</b>	C303&AD8502 Data Exploration and Visualization
<b>Year of Study :</b>	2022-2023

<b>Course Code and Name :AD8502 DATA EXPLORATION AND VISUALIZATION</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C303.1	<b>Understand</b> the basics of Data Exploration	K2
C303.2	<b>Use</b> Univariate and Multivariate Analysis for Data Exploration	K3
C303.3	<b>Explain</b> various Data Visualization methods	K2
C303.4	<b>Apply</b> the concept of Data Visualization on various datasets	K3
C303.5	<b>Apply</b> the data visualization techniques using R language	K3

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	III&V
<b>Course Code &amp; Name:</b>	C304& AD8551 BUSINESS ANALYTICS
<b>Year of Study :</b>	2022-2023

<b>Course Code and Name : AD8551 BUSINESS ANALYTICS</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C304.1	<b>Explain</b> the real world business problems and model with analytical solutions.	K2
C304.2	<b>Identify</b> the business processes for extracting Business Intelligence	K3
C304.3	<b>Apply</b> predictive analytics for business fore-casting	K3
C304.4	<b>Apply</b> analytics for supply chain and logistics management	K3
C304.5	<b>Use</b> analytics for marketing and sales	K3





# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

Programme: B.Tech. ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
Year & Semester:	III&V
Course Code & Name:	C305& AD8552 Machine Learning
Year of Study :	2022-2023

Course Code and Name :AD8552 Machine Learning		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C305.1	<b>Understand</b> the basics of ML	K2
C305.2	<b>Explain</b> various Z Machine Learning methods	K2
C305.3	<b>Demonstrate</b> various ML techniques using standard packages.	K3
C305.4	<b>Explore</b> knowledge on Machine learning and Data Analytics	K3
C305.5	<b>Apply</b> ML to various real time examples	K6

Programme: B.Tech. ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
Year & Semester:	III & V
Course Code & Name:	C306 & OCE551 Air Pollution and Control Engineering
Year of Study :	2022-2023

Course Code and Name :OCE551 Air Pollution and Control Engineering		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C306.1	An <b>understanding</b> of the nature and characteristics of air pollutants, noise pollution and basic concepts of air quality management	K2
C306.2	<b>Ability</b> to identify, formulate and solve air and noise pollution problems	K3
C306.3	<b>Ability</b> to design stacks and particulate air pollution control devices to meet applicable standards.	K4
C306.4	<b>Ability</b> to select control equipment's.	K3
C306.5	<b>Ability</b> to ensure quality, control and preventive measures.	K4



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

Programme: B.Tech. ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
<b>Year &amp; Semester:</b>	III & V
<b>Course Code &amp; Name:</b>	C307 & AD8511 & Machine Learning Laboratory
<b>Year of Study :</b>	2022-2023

Course Code and Name :AD8511& Machine Learning Laboratory		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C307.1	<b>Understand</b> the implementation procedures for the machine learning algorithms.	K2
C307.2	<b>Design</b> Java/Python programs for various Learning algorithms.	K6
C307.3	<b>Apply</b> appropriate Machine Learning algorithms to data sets	K3
C307.4	<b>Identify</b> Machine Learning algorithms to solve real world problems.	K4
C307.5	<b>Apply</b> Machine Learning algorithms to solve real world problems.	K3

Programme: B.Tech. ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
<b>Year &amp; Semester:</b>	III & V
<b>Course Code &amp; Name:</b>	C308 & AD8512 & Mini Project On Data Science Pipeline
<b>Year of Study :</b>	2022-2023

Course Code and Name :AD8512 & Mini Project On Data Science Pipeline		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C308.1	<b>Install</b> analytical tools and configure distributed file system	K1
C308.2	Have skills in <b>developing</b> and executing analytical procedures in various distributed frameworks and databases.	K2
C308.3	<b>Develop</b> , implement and deploy simple applications on very large datasets.	K2
C308.4	<b>Implement</b> simple to complex data modeling in NoSQL databases	K3
C308.5	<b>Implement</b> real world applications by using suitable analytical framework and tools.	K3



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	III & VI
<b>Course Code &amp; Name:</b>	C309 & AD8601 Artificial Intelligence II
<b>Year of Study :</b>	2022-2023

<b>Course Code and Name: AD8601 Artificial Intelligence II</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C309.1	<b>Explain</b> the probabilistic reasoning using Bayesian inference	K2
C309.2	<b>Apply</b> appropriate Probabilistic reasoning techniques for solving uncertainty problems	K3
C309.3	<b>Explain</b> use of game theory for decision making.	K3
C309.4	<b>Explain</b> and apply probabilistic models for various use cases	K3
C309.5	<b>Apply</b> AI techniques for robotics	K3

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	III & VI
<b>Course Code &amp; Name:</b>	C310 & AD8602 Data and Information Security
<b>Year of Study :</b>	2022-2023

<b>Course Code and Name : AD8602 DATA AND INFORMATION SECURITY</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C310.1	<b>Understand</b> the fundamentals of security and the significance of number theory in computer security	K2
C310.2	<b>Learn</b> the public key cryptographic standards and authentication scheme	K1
C310.3	Able to <b>apply</b> the security frameworks for real time applications	K3
C310.4	<b>Understand</b> the security threats and attacks in IoT, Cloud	K2
C310.5	Able to <b>develop</b> appropriate security algorithms understanding the possible threats	K5



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

Programme: B.Tech ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
Year & Semester:	III&VI
Course Code & Name:	C311 & IT8501 WEB TECHNOLOGY
Year of Study :	2022-2023

Course Code and Name : IT8501 WEB TECHNOLOGY		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C311.1	<b>Design</b> simple web pages using markup languages like HTML and XHTML.	K4
C311.2	<b>Create</b> dynamic web pages using DHTML and java script that is easy to navigate and use.	K4
C311.3	<b>Program</b> server side web pages that have to process request from client side web pages.	K4
C311.4	<b>Represent</b> web data using XML and develop web pages using JSP	K4
C311.5	<b>Understand</b> various web services and how these web services interact	K2

Programme: B.Tech. ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
Year & Semester:	III&VI
Course Code & Name:	C312 & CW8591 SOFTWARE ARCHITECTURE
Year of Study :	2022-2023

Course Code and Name :CW8591 SOFTWARE ARCHITECTURE		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C312.1	<b>Develop</b> Software applications starting from software architecture and design.	K4
C312.2	<b>Learn and evaluate</b> existing software architectures.	K4
C312.3	Realize <b>importance</b> of architectural documentation and document them.	K4
C312.4	<b>Employ</b> various software architecture design components.	K5
C312.5	<b>Design</b> methods for improving software quality from the perspective of software architecture	K5



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

Programme: B.Tech. ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
Year & Semester:	III&VI
Course Code & Name:	C313 & AD8007 SOFTWARE TESTING & QUALITY ASSURANCE
Year of Study :	2022-2023

Course Code and Name :C314 & AD8007 SOFTWARE TESTING & QUALITY ASSURANCE		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C313.1	<b>Perform</b> functional and non-functional tests in the life cycle of the software product.	K5
C313.2	<b>Understand</b> system testing and test execution process.	K2
C313.3	<b>Identify</b> defect prevention techniques and software quality assurance metrics.	K3
C313.4	<b>Apply</b> techniques of quality assurance for typical applications.	K3
C313.5	<b>Execute</b> test case to achieve ideal result.	K5

Programme: B.Tech. ARTIFICIAL INTELLIGENCE & DATA SCIENCE	
Year & Semester:	III & VI
Course Code & Name:	C314 & IT8511 Web Technology Laboratory
Year of Study :	2022-2023

Course Code and Name :IT8511 & Web Technology Laboratory		
Course Code	CO Statements	Knowledge Level
The students should be able to		
C314.1	<b>Design</b> simple web pages using markup languages like HTML and XHTML.	K6
C314.2	<b>Create</b> dynamic web pages using DHTML and java script that is easy to navigate and use.	K6
C314.3	<b>Program</b> server side web pages that have to process request from client side web pages.	K3
C314.4	<b>Represent</b> web data using XML and develop web pages using JSP.	K3
C314.5	<b>Understand</b> various web services and how these web services interact	K2





# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech. ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	III & VI
<b>Course Code &amp; Name:</b>	C315 & AD8611 & Artificial Intelligence – II Laboratory
<b>Year of Study :</b>	2022-2023

<b>Course Code and Name :AD8611&amp; Artificial Intelligence – II Laboratory</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C315.1	<b>Solve</b> basic AI based problems	K6
C315.2	<b>Implement</b> the concept of Bayesian Network.	K6
C315.3	<b>Apply</b> AI techniques to real-world problems to develop intelligent systems	K6
C315.4	<b>Implement</b> HMM for real-world application.	K6
C315.5	<b>Use</b> Reinforcement Learning to implement various intelligent systems.	K1

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	III & VI
<b>Course Code &amp; Name:</b>	C316 & HS8581 & Professional Communication
<b>Year of Study :</b>	2022-2023

<b>Course Code and Name :HS8581 &amp; Professional Communication</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C316.1	<b>Make</b> effective presentations	K2
C316.2	<b>Participate</b> confidently in Group Discussions.	K2
C316.3	<b>Attend</b> job interviews and be successful in them.	K2
C316.4	<b>Develop</b> adequate Soft Skills required for the workplace	K5
C316.5	<b>Implement</b> the protocol for career management	K3



# EASA COLLEGE

OF ENGINEERING & TECHNOLOGY (ECET)

— ULTIMATE DESTINATION FOR TECHNICAL EXCELLENCE —

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI

NH - 47, PALAKKAD MAIN ROAD, NAVAKKARAI (P.O), COIMBATORE, TAMIL NADU - 641105

<b>Programme: B.Tech ARTIFICIAL INTELLIGENCE &amp; DATA SCIENCE</b>	
<b>Year &amp; Semester:</b>	III&VI
<b>Course Code &amp; Name:</b>	C317 & AD8612 & Socially Relevant Project
<b>Year of Study :</b>	2022-2023

<b>Course Code and Name :AD8612 &amp; Socially Relevant Project</b>		
<b>Course Code</b>	<b>CO Statements</b>	<b>Knowledge Level</b>
The students should be able to		
C317.1	The students are expected to <b>use</b> different platforms and tools like SAS, Python	K4
C317.2	<b>Use</b> platforms and tools like R, Scala	K4
C317.3	<b>Develop</b> usingBig Data: Hadoop Ecosystem (Hive, Pig, Sqoop , Flume), Big Data Lakes ,No SQL, Apache 66 Spark, Spark MLLib , HPCC, Strom.	K4
C317.4	<b>Develop</b> usingBusiness Intelligence : SQL, Microsoft Power BI, SAP BI, Tableau, Oracle Fusion,	K4
C317.5	<b>Develop</b> usingMachine Learning and Deep Learning : TensorFlow , Keras , Artificial Neural Networks, Deep NeuralNets, Convolution Neural Networks, Auto encoders	K4